

QUINTRONIX

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EQUIPMENT CATALOG 2007



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MANY LATE ARRIVALS AND SMALL ITEMS ARE NOT LISTED, PLEASE CALL.

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- Quintronix is a supplier of surplus equipment for vacuum related industries and universities nation wide.
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LEGEND

A/C - Air Cooled	Flg - Flange	MP - Mechanical Pump	SST - 304 Stainless Steel
BJ - Bell Jar	FT - Feedthrough	OR - O'ring	STL - Mild Carbon Steel
BP - Base Plate	HAF - Hall Flange	OT - Overtemp	TC - Thermocouple
b/d - Belt Drive	HUF - Hughes Flange	POR - Price On Request	VP - Viewpor t
CFF - Conflat Flange	IG - Ion Gauge	PS - Power Supply	WC - With Cables
CVF - Curvac Flange	IPCU - Ion Pump Control Unit	QC - Quick Connect	W/C Water Cooled
d/d - Direct Drive	LC - Less Cables	R – Rebuilt	WHF Wheeler Flange
DP - Diffusion Pump	LN - Liquid Nitrogen	RA - Right Angle	
FF- Face to Face	L/S - Liters/Second	RL - Rad Lab	

Item	Condition	Price
1) <u>ADAPTORS FLANGE-Misc.</u>		
1 1/2"ASA to NW-25 SST 1" tube 3"L. 2 1/" 2x 1/8 " Oring, Varian foreline flg (For 3125- VHS 250), 5"OD 3 7/8 Bolt circle (Item No. 2635)	Good Used	\$125
2 3/4" CVF P-E 800-241-070. 1 1/2"d x 4 3/4"l. 7052 glass/Kovar adapter . (Item No. 2640)	Unused	\$40
2 3/4" CVF P-E 800-386-920, 1 1/2"d x 4 3/4"l. 7740 pyrex/SST adapter (Item No. 2642)	Unused	\$40
2" ASA x 2 1/2" h Alum. Roughing collar, 3 1/4" ID x 6" OD, two 1/8 FPT, 1-1/2" FPT, & 1-3/4" QC ports, 2 1/4" ID top port w/O-R (Item No. 4602)		\$150
3 3/8" CVF. P-E. 2"d x 4 3/4"l. 7740 pyrex/SST adapter (Item No. 2644)	New	\$125
3" ASA to SPL 6" OD flg., steel elbow, 6 ea. 3/8" holes on 5 1/4" BC. (Item No. 4788)		\$100
3" ASA to Welch 1398 Brass adapter nipple w/1/4 pipe out the side of the nipple. (Item No. 2678)	Good Used	\$120
3" ASA to NW-50 steel adapter nipple. (Item No. 2657)	Used	\$95
3/4"d x 4 3/4"l P-E 122-150-100 7052 Glass/SST adapter. No flange. (Item No. 2638)	New	\$30
4" ASA - 8" CFF x 6" lg., Alum. Nipple, POR (Item No. 4846)		
4" ASA to NW-100 w/wire ring, STL flg. (Item No. 4950)	Good	\$75
4" ASA x 6 1/4" lg., Alum. Nipple, 8 slots/flg., POR (Item No. 4908)		
6" ASA SST Bellow nipple, 6" ID 11 1/2 lg. STL flg. No O-R (Item No. 4610)	Unused	\$475
6" ASA to 4" ASA reducer flg., Ni plt. STL (Item No. 4677)		\$100
6" CVF. P-E 221-401-800. 4"d x 8"l. 7740 pyrex graded/Kovar adapter (Item No. 2646)	Unused	\$225
8" ASA to 4" ASA steel reducer 4 3/4"l. (Item No. 2789)	Used	\$125
2) <u>ADAPTORS FLANGE-Stainless.</u>		
1 1/2" NW-40 to DIN-36 x 45 MM lg. adapter nipple. 78 MM OD x 36 MM ID Flg. w/4 7MM bolt holes on 64 MM B.C. Balzers #BP-217-249. (Item No. 2580)	New	\$20
10" ASA (16" OD), no O-R to NW-250 (13.18" OD) bolted flg. 12 ea 12MM holes on 12.18 BC Adapter nipple 3.37" lg., 9.5" ID (Item No. 4953)	Good	\$500
10" ASA to 6" ASA Cast SST 150 lb conical reducer. 12" Long. Flange face machine smooth (Item No. 2852)	Good	\$500
10" CFF 8" OD tube half nipple 8" lg. (Item No. 4755)	New	\$275
10" CFF-Rot to 8" CFF non rot x 4 3/4" L nipple (Item No. 2842)	Used	\$375
10" NW-250 to 6"ASA SST Adapter flg.. 13 1/4" OD x 7 7/8 "id x 1 7/8" thk. 11"x3/16 "OR. Replace VHS-250 w/ CTI-8 575 (Item No. 2861)	Cleaned & Tested	\$575
10" NW-250 adapter nipple, bolted to 10 5/8" ID x 13 3/4" OD, flg. W/12 10 MM holes on 12 1/2" BC, 2" hi, 10 7/8" ID x 3/16 " O-R. (Item No. 4654)	Good	\$325
10" NW-250 nipple 7.87 lg., w/bolted 13.12" OD flgs, 10" OD x 9.5 ID tube (Item No. 4952)	Good	\$400
10" ASA tapped 3/4-10", 8" ID to NW-200 x 6" l adapter nipple. No O-R. (Item No. 5100)	Good	\$550
10" ASA, 11 1/4" ID x 4" l nipple. 1-12" ID x 1/8" O-R. (Item No. 5099)	Good	\$650

Item	Condition	Price
16" NW-400 to 10" ASA SST Adapter flg.. 18" OD x 11 1/2" id x 1" thk. 16x 3/16" OR. Replaces VHS 400 w/ CTI-10 800 (Item No. 2865)	Good Used	\$800
2 3/4" CFF to Male step seal, Varian 954-5090 (Item No. 2627)	New	\$30
2 3/4" CFF to Female step seal, Varian 954-5091. (Item No. 2629)	New	\$30
2" ASA to 2 3/4" CFF SST reducer nipple 1 7/8"l. (Item No. 2653)		\$115
2" ASA to 3"ASA W/O-R SST Nipple. 2" ID x 2 7/8 lg. (Item No. 2655)	Cleaned & Tested	\$200
3" ASA 900 PSI 9 1/2" OD, 2 5/8" ID to 3" ASA. 150PSI, 7 1/2" OD, 3"ID Conical reducer, SST (Item No. 2680)	Used	\$100
3" ASA to NW-100 SST nipple 4 1/2" L 3 7/8" id (Item No. 2673)	Cleaned & Tested	\$250
3" ASA to NW-100 SST nipple 5" L, 3 7/8 id. 1/4" Swagelok on side (Item No. 2671)	Cleaned & Tested	\$225
3" ASA to NW-80 SST nipple 4 1/8" lg. 2 3/4 I.D. 4 5/8 ID O-R on 3" ASA flg. (Item No. 2669)	Cleaned & Tested	\$275
3" ASA w/ 4 3/8"x 1/8 O-ring to 6" OD SPL flg w/ 4 1/8"x 1/8" OR SST. (Item No. 2675)	Used	\$250
3" ASA with O-R to 4 1/2" CFF SST flg. (Item No. 2659)	Cleaned	\$100
4 1/2 " CFF to 5" Male step seal adapter, Varian 954-5092. (Item No. 2633)	Used	\$50
4 1/2" CFF (1 Rot.) tee, 10.62 lg, 2 1/2" OD tube, 2 3/4" CFF on 2" nipple on bull (Item No. 4604)	Used	\$150
4 1/2" CFF (1 Rot.) tee, 16" lg. 2 1/2" OD tube, 4 1/2" CFF on 3/4" nipple on bull (Item No. 4672)	Used	\$160
4" ASA SST elbows, 12 & 13 1/4" C.L. to F-F, no O-R, gasket face, POR (Item No. 4787)		
4" ASA to 2" ASA SST 2 3/4"ID reducer nipple 4"l. (Item No. 2702)	Good Used	\$135
4" ASA to NW-50 x 3 5/8" lg. Nipple (Item No. 4578)	Good	\$150
4" ASA to NW-100 adapter ring for 5.25 ID ASA flg to NW-100 cent. ring, 6" ID x 1/8" O-R for ASA flg. (Item No. 4951)	Good	\$100
4" ASA to 3" ASA SST 3" ID reducer nipple 7" L. Raised faces. No O-Ring (Item No. 2704)	Used	\$200
4" ASA to 8" HUF, SST reducer nipple. 3 3/4 ID X 5" lg. Nicked (Item No. 2714)	Used	\$150
4" ASA to 3" ASA SST Conical reducer. 9 1/2"L. No O-R. (Item No. 2706)	Cleaned & Tested	\$275
4" ASA to 8" CFF SST nipple. 4" ID x 4 7/16 lg. No O-R. (Item No. 2712)	Cleaned & Tested	\$225
4" ASA to 6" CFF, SST formed bellow adapter. 3 3/4" ID X 6 1/2 lg. No O-R (Item No. 2710)	Cleaned & Tested	\$375
4" NW-100 to 2 1/2" NW-63 Conical Reducer 1/4"Dx 1"L tube outside w/ 1/4" male VCR (Item No. 2698)	Cleaned & Tested	\$125
6" ASA 6" ID SSt bellow nipple 8" lg., no O-R (Item No. 4925)		
6" ASA nipple x 7 3/4" ID x 11" lg., w/2 3/4" CFF side port 3" lg., 1 O-R (Item No. 4805)	Very Good	
6" ASA to 4" ASA SST reducer nipple 3 3/4"ID x 7"l. 2 3/4 CFF on 2" nip in neck. No O-R. (Item No. 2766)	Cleaned & Tested	\$225
6" ASA to 2 3/4 CFF SST adapter. 1 3/8" ID x 3 1/2"l. No O-R. 160 (Item No. 2764)	Used	\$160
6" ASA to 4" ASA SST reducer nipple 5 3/8"ID x 3 1/8"l. 2 ea on 2 3/4 CFF on 3 1/2" nip in neck. 6 1/4x1/8OR in 4"ASA (Item No. 2768)	Good Used	\$225
6" ASA to 3" ASA SST reducer nipple 9 1/2"L No O-R. (Item No. 2770)	Cleaned & Tested	\$325
6" ASA to 6" CFF adapter nipple 4" OD tube. 5 1/2 F-F with 2 3/4 CFF on 1" tube 3"lg out the side. (Item No. 2772)	Good Used	\$195
6" ASA to 8" CVF SST adapter. 5 13/16 I.D. x 3"lg. (Item No. 2781)	Fair	\$200
6" ASA to 8" CFF adapter. 6" ID x 1" thk. 8" ID x 3/16 O-R. (Item No. 2783)	Excellent	\$250
6" ASA to 8" CFF adapter. 6" ID x 1" thk. No O-R. (Item No. 2785)	Used	\$225
6" ASA to 8" CFF SST adapter. 5 3/4 I.D. x 3 7/8 lg. (Item No. 2787)	Used	\$275
6" ASA to 8" CFF SST reducing flg. MDC. ASA-11-800. (Item No. 2776)	Very Good	\$200
6" ASA-SPL 12 3/4" OD x 6 7/8" ID flg., w/8 3/4" holes on 11" BC., 3 1/4" h. SST nipple, no O-R (Item No. 4770)		
6" CFF to 4 1/2" CFF reducer nipple 3 3/4"l. (Item No. 2728)	Used	\$95
6" CFF to 2 3/4 CFF SST reducer flange MDC 600 x 275. (Item No. 2726)	New	\$80
6" CFF to 3" male pipe SST adapter 5 1/4" lg. (Item No. 2736)	Used	\$75
6" CFF to 6" CFF. Nipple 10.62L, 4" OD tube, MDC 400-2 (Item No. 2730)	New	\$200

Item	Condition	Price
8" ASA to 6" ASA w/blind thread SST adapter flg., 7" ID x 1 1/2" thk., no O-R (Item No. 4698)	Used	
8" CFF to 4 1/2" CFF Reducer flg. MDC 800x450 (Item No. 2812)	New	\$125
8" CFF to 6" CFF reducer flg. MDC 800 x600 (Item No. 2814)	New	\$475
8" CVF to 10" (12 3/8 O.D.) Female wire seal adapter nipple 3 3/4 lg, Ultek (Item No. 2824)	Used	\$275
3) <u>BAFFLES-Misc.</u>		
10" ASA NRC 0314-10, Ni Plt. Stl. LN, optical baffle 16"d x 7"h. (Item No. 2215)	Used	\$600
16" NW-400 Al Ring Baffle, Ambient cooled 1 15/16 Thk x 17 1/16 OD. 16" ID x 3/16" O- Ring (Item No. 2227)	Good	\$2,000
2" CVC BCR-21 Alum baffle 6 - 1/4" holes for sm. flg. 1 O-R (Item No. 2085)	Used	\$125
2" CVC BCR-21A Alum ring baffle. No bolt holes. Sm flg. No O-R (Item No. 2087)	Used	\$125
2" CVC BCT-21 thermoelectric cooled baffle. -35 C. Sm. flg. for Con-O-Ring. No PS. (Item No. 2100)	Used	\$600
4" ASA CVC BCR-41A ambient ring baffle. (Item No. 2127)	Used	\$300
6" ASA bot. flg. to 4" ASA spl. top flg. SST bakeable, Mol. sieve water baffle. 7"h. (Item No. 2160)		\$175
6" ASA NRC 0314-6 STL Ni Plt., LN. Optical baffle 11"d x 5 1/2"h. (Item No. 2169)	Used	\$400
6"ASA CVC BCR-61A Ambient ring baffle. 8 3/4d x 1 7/8"H Aluminum (Item No. 2187)	Used	\$300
4) <u>BAFFLES-Water.</u>		
22" EDDY spacial dual water baffle & Polycold trap. 22" OD x 17 1/2" ID top flg. W/O-R. 24" OD x 20" ID bot. flg. 11"h. (Item No. 2231)	Used	\$1,000
1 1/2" Edwards temescal W/C baffle 6" OD x 7 1/2L SST (Item No. 2059)	Excellent	\$300
10" ASA CVC BC-101 Multicoolant baffle. 11 3/4" i.d x 1/4" OR (Item No. 2211)	Used	\$1,750
10" ASA Varian BDA water baffle 0330 (Item No. 2217)	Good	\$2,150
2" ASA Varian 0332-F9453-302 SST Water Baffle.M2 (Item No. 2108)	Unused	\$475
2" CVC BC-21 Multi-coolant. Sm. Flg, Six 1/4-20 bolts for Con O-Rings (Item No. 2096)	Used	\$575
2" CVC BC-20A Multi coolant Sm Flg SiX 1/4-20 bolt for Con O-Ring (Item No. 2094)	Used	\$550
20" ASA D&W water baffle. Alum. Ring. 23 11/16 OD x 21 3/16 I.D. x 1 15/16 thk. (Item No. 2235)	Used	\$2,800
20" ASA Water baffle, Steel, 7 1/2"h. (from Skiacky EB welder.) (Item No. 2237)	Used	\$1,250
32" ASA water baffle with W/C tubes on outside 48" d x 22" Hi steel. Parts available to convert to LN trap (Item No. 2241)		\$3,500
4" ASA CVC BC-41 Multi, aluminum, 1 O-R top. (Item No. 2129)	Used	\$600
4" ASA CVC BC-41A Multi-coolant. Insert Only. (Item No. 2133)	Used	\$425
4" ASA CVC BC-41A Multi, coolant. Alum. For CON-O-RINGS (Item No. 2131)	Used	\$675
4"-6"OD flange CEC BW-41 STL water baffle 9"h. (Item No. 2148)	Good Used	\$150
6" ASA CVC BC-61 Multi-coolant baffle. 3/4" QC on insert. (Item No. 2156)	Used	\$795
6" ASA CVC-60 multi coolant baffle O-ring. (Item No. 2152)	Used	\$700
6" ASA spiral SST water baffle, 7" id. Chevron 1" above 1/2"thk flg. 8" id x 1/8 OR (Item No. 2150)	Used	\$300
6"-9"OD flange CEC BW-60 STL water baffle 9"h. (Item No. 2154)	Used	\$200
5) <u>BASEPLATES-Aluminum.</u>		
20" d x 1" Thk Aluminum disc (Item No. 2269)	Excellent	\$475
Air Blower. Aluminum Cast Housing 1/6 HP 230 V. (Item No. 823)		\$50
6) <u>BASEPLATES-Misc.</u>		
17" Stl. Ni Plt. disc, 4 3/4"ID w/4" ASA,TEC CENCO 8-3/4" FT 12" BC. (Item No. 2265)	Used	\$225
20" d x 1" Thk Plexiglass disc (Item No. 2267)	Excellent	\$325
7) <u>BASEPLATES-Stainless.</u>		
12 1/4 OD x 9/16 thk TOP? flg w/10 5/8 ID x 1/8 O-ring 4" OD, 1/8 Walltube w/3/4 QC, 101/4 OD x 5/8 thk BOT flg. W/4 ea 1/4-20 tap holes on 5 3/4 BC. 5 1/8 hi (Item No. 4819)		\$600

Item	Condition	Price
14" d. x 15/16" thk. SST BP MDC BP-12, no F.T. holes, 5 3/4" ID centered 4" ASA port, no O-R (Item No. 4875)	New	\$600
14.75" OD SST BP. 1" thk., no FT holes, 4" ID centerd neck, 3.75" F-F, 6" ID x 1/8" O-R in ASA flg (Item No. 4954)	Good	\$500
16 x 30 SST BP, 4" ASA flange on offset neck. w/rough port & valve, I.G. port & BTA valve. 575 (Item No. 2285)	Used	\$575
16" OD SST BP w/ (8) 2 3/4 tapped CFF ports. 6" ASA flg on 6" centerd neck. 6 3/4h. No IG or Rough port (Item No. 2281)	Good Used	\$950
16" SST disc, 4"ID with 8 5/8-11 tap 5 5/8" BC. 12-1" FT 9"BC. (Item No. 2263)	Good Used	\$350
20 x 20 SST, 7 1/2"ID offset 4 1/4", 6" ASA w/4 1/2-13. 10-1" FT 14" BC, 4-1 1/2 portswith 4 1/4-20 tap 1.81 ctrs. with 4 SST 1 1/2"d x 3" legs. (Item No. 2287)	Good Used	\$950
20" SS disc. 10-1 FT, 1-1 1/4 FT, 1- 3 1/2 and 1-3 3/4 FT holes. Good for outgassing. (Item No.2271)	Good Used	\$395
20" SST BP 7 1/4 ID Four 1" FT on 11 1/2BC. 6" ASa flg on 7 1/2"H centered neck w/1" QC ion gauge port. (Item No. 2293)	Like New	\$1,250
20" SST BP, 5 1/4"ID, 12-3/4" FT 11" BC. No QC, 2" rough line with 3 3/4 O-R flange onneck. 4" ASA flange w/O-R. 5 3/4" OH (Overall Height). (Item No. 2290)	Good Used	\$750
20" SST BP 7" ID. No FT holes, 6"ASA flg on 5 5/8"H centered neck. 1/4 FPT, 3/4" , 1" QC port on neck. (Item No. 2295)	Good Used	\$750
20" SST disc, 4"ID offset 5 1/2" with 8 5/8-11 tap 5 5/8"BC. 9ea-1" FT 11"BC. 475 (Item No. 2277)	Used	\$475
20" SST disc, 3 3/4"ID offset 5 1/2" with 8 5/8-11" tap 5 7/8" BC, 5-7/16-3/4 FT. (Item No. 2275)	Good Used	\$450
20" SST disc, 6 3/8"ID offset 4 7/16", 6" ASA, 13-1" FT 14" BC, 2-1" FT.7 3/8h. (Item No. 2273)	Used	\$625
20" SST disc, 6 5/8"ID offset 4" with 8 5/8-11 tap 5 5/8"BC. 9 ea-5/8" FT & 1 ea 1" FT holes11"BC. (Item No. 2279)	Good Used	\$400
20"d x 8"h SST BJ P-E. 4" side & 6" top port. O-R bottom. (Item No. 2369)	Unused	\$1,475
24 1/2" SST BP, 7 1/4"ID, 12-1" FT 14 1/2" BC. 3/4 QC, 1 1/2 rough line with 4-bolt flange (Item No. 2297)	Good Used	\$950
26 1/2 SST BP, two 6" ASA ports on 7 1/2" necks. W/C, two 2 3/4 CFF ports, 7" hole in center (Item No. 2304)	Unused	\$1,950
26" SST BP, 7 3/4" ID Centered 6" ASA port. 24 ea 1" holes on 20" B.C. 3/4 QcK 2 3/4 CFF on neck. (Item No. 2302)	Good Used	\$1,450
26" SST BP, 7 7/8" ID Centered 6" ASA port. 24 ea 1" holes on 20" B.C. 3 ea 2 3/4 Flgs. (Item No.2300)	Good Used	\$1,350
26" SST Disc, 7 3/4 id Offset, 3 7/8", 6" ASA 3/4"blank tap off. 4 each 1" FT holes. 1 1/2" rough port (Item No. 2283)	Good Used	\$700

8) BELLJARS & CYLINDERS-Aluminum.

12" ID x 15"h Alum. BJ. 15" OD flg. W/O-R.8en.437 holes on 14" B.C. No VP. (Item No. 2347)	Used	\$425
19 3/4"d x 36" aluminum cyl. 5/16 wall. No ports. (Item No. 2367)	Used	\$695
25 5/8" OD x 23 3/4" ID Top flg. 8 1/4" H. 1/2 " thk Al rollup w/ O-ring. No ports. (Item No. 2385)	Good	\$800

9) BELLJARS & CYLINDERS-Guards.

10 x 10 BJ guard, Ni Plated Stl. Varian VE-10 clamp. (Item No. 2391)	Good Used	\$125
10 x 12" BJ guard. Painted black. Hose clamp. (Item No. 2393)	Used	\$100
12 x 12 BJ guard, Ni Plated Stl. Varian VE-10. No clamps. (Item No. 2395)	Used	\$125
14"d x 24" BJ guard, galv. steel CVC, bolted bands, top lift. (Item No. 2401)	Good	\$225
14"d x 24" BJ guard, aluminum, Varian bolted bands, top lift. (Item No. 2399)	New	\$295
14"d x 24" BJ guard stl. Bottom hose clamp, top lift. (Item No. 2397)	Used	\$75

Item	Condition	Price
15"d x 12" BJ guard, aluminum. No bands/lifts. (Item No. 2403)	Poor	\$25
15"d x 24" BJ guard, aluminum. P-E, bolted bands, top and side lift (Item No. 2405)	Used	\$250
16"d x 12" BJ guard, steel-black. Cenco, 2 bands, top lift. (Item No. 2407)	Used	\$125
18"d x 30" BJ guard, 1/8" perf. aluminum, P-E, dished top. Unassembled. (Item No. 2409)	Unused	\$300
18"d x 30" BJ guard, steel CVC, bolted bands, side guides, top lift. (Item No. 2411)	Very Good	\$495
18"d x 30" BJ guard, steel, Varian, Bolted bands, side lift. (Item No. 2413)	Good Used	\$375
19 1/2" x 28" guard, open both ends, steel, no lifts. (Item No. 2415)	Used	\$175
18" BJ side lift w 2 SST Bands		\$100
18" SST BJ Bands 6ea.	Ea.	\$25
10) <u>BELLJARS & CYLINDERS-Hoists.</u>		
9"ID x 15 3/4"h steel BJ, Ni Plated. 4" VP top, 2" side port. 12"OD flange w/10" O-R groove. (Item No. 2343)	Used	\$375
11) <u>BELLJARS & CYLINDERS-Misc.</u>		
We have many misc. cylinders 3" - 24" dia X 3" - 24 Hi. Alumina, Mullite, Pyrex and Quartz (Item No. 2333)	Used	
12) <u>BELLJARS & CYLINDERS-Pyrex.</u>		
10 1/4"OD x 10"h pyrex BJ & gard. (Item No. 2345)	Cleaned	\$500
12 1/2"OD x 10"h pyrex cyl. (Item No. 2349)	New	\$500
12" id x 11 3/4" h. [10] (Item No. 4468)	Used	\$450
12" id x 11 1/2" h. [2] (Item No. 4462)	Used	\$425
12"OD x 4" h, pyrex cylinder. [1] (Item No. 4480)	Used	\$250
12" id x 12" h. [20] (Item No. 4477)	New	\$600
12 id x 24 1/2" h. [3] (Item No. 4463)	Used	\$550
14" id x 15 3/8" h. [15] (Item No. 4472)	Excellent	\$600
14" id x 22 1/4" h. [14] (Item No. 4471)	Used	\$750
14" id x 23 1/2" h. [19] (Item No. 4476)	Used	\$700
14" id x 23 1/4" h. [18] (Item No. 4475)	Excellent	\$750
14" id x 5 3/4" h, pyrex cylinder. (Item No. 4481)	Used	
18 x 29 pyrex BJ cleaned & ground (sides of jar are etched/scratched) (Item No. 2354)	Cleaned	\$600
18" id x 16" h. [22] (Item No. 4479)	Used	\$800
18" id x 29" h. badly etched and scratched [9] (Item No. 4467)	Used	\$500
18" id x 30" h. (Item No. 4474)	Used	
18"OD x 30" h pyrex BJ. (Item No. 2356)	New	\$1,250
24" x 12" h pyrex ring w/guard. 25" x 1" thk. Aluminum cover w/Varian 6" target, substrate & shutter. (Item No. 2382)	Excellent	\$1,950
6 1/8 OD X 24" h pyrex B.J. (Item No. 2335)	Used	\$150
13) <u>BELLJARS & CYLINDERS-Stainless.</u>		
22 1/2"d x 63"h SST BJ 25 1/4"OD flange, flat gasket. (Item No. 2373)	Used	\$1,750
11"d x 22" h SST BJ w/1 4" VP, 10" ASA (16"OD) bottom flange. 10" ASA SST BP for above w/10"d x 3" sump. 9-2 3/4 flanges, 4"d-6"OD step seal flange. (Item No. 475)	As Is	\$475
12" d x 12" h SST BJ. MDC SSBj-12. 14" OD flg. W/O-R. 4" VP & lift eye. (Item No. 5102)	Excellent	\$850
13 5/16" OD SST domed cover, 12 3/8" ID x 3/16" O-R, 3/8" hole in center (Item No. 4792)		\$150
14"d x 14"h SST W/C BJ. 3" top port. 18" bottom flange - No O-R. 18" SST W/C BP for above w/O-R. Misc. step seal flanges. (Item No. 485)	As Is	\$475
18"OD x 48" h SST. Flat gasket. No ports or W/C. (Item No. 2365)	Used	\$2,250
36"d x 22"h SST hemispherical BJ. 1-4" VP up 8". 1/4" thk 4" h skirt for L-Gask. Top lift. (Item No. 2389)	Unused	\$2,950
8"OD x 8 1/2"h SST BJ. 6" ASA flange (11"OD) w/8"ID x 1/8. O-R bottom. 3 misc. holes in top. (Item No. 2341)	Used	\$175

Item	Condition	Price
CHA (A.M.) 24 X 30" SST B.J. O-R. 4"VP. Water channels leak. (Item No. 2375)	Fair	\$1,300
CHA (A.M.) 28" d X 30" h SST W/C B.J. 1 ea 2" & 4" VP. 7"w X 19h side port. Side bracket lift. O-R (Item No. 2387)	Excellent	\$2,750
CHA style 25 1/2" x 32" w/c offset Dr. & thk. Monitor top, no lift bracket, 4" VP (Item No. 4711)	Unused	\$3,500
NRC 24 x 30, W/C SST, O-R, 2-4" VP. Side channel lift. (Item No. 2377)	Used	\$2,750
NRC 24 x 30, W/C SST. N O-R. 2-2 3/4 CFF top. Top lift. 2-5 1/2" VP & 2-8" blanked.off ports on side. Good for EB furnace. (Item No. 2379)	Good Used	\$2,450
Varian 18"d x 30"h, SST W/C, female Wheeler flg BJ. 6-2 3/4", 1-6". 3-8" CFF ports. With bake heaters, shroud, water cooling. (Item No. 2360)	Good Used	\$4,000

14) BLOWERS & BLOWER PACKAGES.

Edwards EH 500 208V, 6.2A, 3Ph 355 CFM. (Item No. 1239)	Rebuilt	\$5,000
Edwards EH-250 220CFM, 1.5 Hp blower w/E2M40 30CFM M.P. pkg. No controls (Item No.4563)	Rebuilt	\$7,000
Edwards EH-250 220CFM, 1.5 Hp blower (Item No. 4561)	Rebuilt	\$4,000
Edwards EH2600 , 1830 cfm, 9.75,208-230/460v (Item No. 1243) As Is \$5,000	Rebuilt	\$9,000
Edwards QMB-250F 220 CFM blower, A/C & W/C motor, NW-63 in & 40 out, prep. For Fomblin, 208-460V, 8.8-4.9 A (Item No. 4831)	Unused	\$5,750
Edwards EH-500A RR. 2Hp 208-230/460VBlower REVERSE ROTATION 355CFM, As Is \$500 2hp,208-230/460v	Rebuilt	\$4,000
Kinney KMB-30 Parts Only (Item No. 1305)	As Is	
Leybold 16830 adapter to mount a RUVAC 150/251 blower or D40/65B M.P. (Item No. 4923)	As Is	\$240
Leybold Blower pkg. WS-251 mounted on D60A MP. (Item No. 1268)	Rebuilt	\$8,000
Leybold Blower Pkg. WAU-500 Blower & D60AC M.P. in frame with motor controls & oil (Item No. 1276)	Rebuilt	\$8,800
Leybold DK-200 132 CFM 71/2 HP 2 stage MP & WSU-2001 1449 CFM blower w/ canned Motor & bypass valve	Rebuilt	\$16,500
Leybold WS -2001 Blower (needs fan) over WS-1001 on frame. No controls	As Is	\$11,000
Leybold WA -1001 blower Prep for Fomblin 707 CFM, 5HP	Rebuilt	\$5,500
Leybold WSU-1001 blower over WS-501/B2 on frame. No controls	As Is	
Leybold WA-1000 10 HP blower and E250 M.P. 7 1/2 HP, w/230V controls on frame.	Good Used	\$8,000
Leybold WS-1001 blower, 3 1/2 HP	Needs Rebuild	\$3,000
Leybold WA 200 1 blower, 10HP.	Rebuilt	\$9,000
Leybold D60A 36 CFM MP & WS-500 351 CFM blower package with frame & controls. (Item No. 1293)	Rebuilt	\$8,750
Leybold pump blower pkg. E150 (100 GPM) MP and WAU-500 (351 CFM) blower. 208V only, OF-1000 oil filter. (Item No. 1250)	Rebuilt	\$9,950
Leybold RG-350 canned motor. (Item No. 1272)	Used	\$1,250
Leybold WAU-150 blower, 104 CFM, 1 1/2 HP, 3500 RPM TEFC motor. 3/208V 5.4A. No feet. (Item No. 1255)	Good Used	\$2,250
Leybold WA-150 blower, 104 CFM, 1 1/2 HP, 3450 RPM TEFC motor 208-230/460V. (Item No.1253)	Rebuilt	\$2,800
Leybold WA-1001, 707 CFM Blower, 5 HP 200/230/460V 15.2/13.2/6.1A (Item No. 1285)	Rebuilt	\$5,800
Leybold WAU-1001, 707CFM Blower. Std. motor and bypass valve. Hydrocarbon oil (Item No.1283)	Unused	\$7,250
Leybold WA 500 3 Hp, 230/460V, 9.2/4.6 A (Item No. 1274)	Rebuilt	\$4,000
Leybold WA-250 blower, 164 CFM, 1 1/2 HP, 3500 RPM TEFC motor. 208-230/460V. (Item No.1261)	Rebuilt	\$3,500
Leybold WA-251 blower, 164 cfm, 3410 rpm TEFC motor 220-380V 50/60 Hz, 1.4 KW (Item No.1263)	Rebuilt	\$3,800
Leybold WS-350 220/440V 1.6 KW canned motor (Item No. 1270)	Used	\$1,500
Leybold WS-500 Blower, 351 CFM, 1.6 KW canned motor, 3360 RPM, 220/380V, 3.6/2.5A,50/60 HZ, 3 ph. (OK for 208-240 60 Hz). (Item No. 1279)	Rebuilt	\$4,500

Item	Condition	Price
Leybold WS-500 Blower, 351 CFM, 1.6 KW canned motor, 3360 RPM, 220/380V, 3.6/2.5A,50/60 HZ, 3 ph. (OK for 208-240 60 Hz). (Item No. 4434)	New	\$5,500
Leybold WS-151 blower,1.4KW, 3480 rpm 220/380 50 Hz, 254/440V 60 Hz (Item No. 1257)	Rebuilt	\$3,000
Leybold WS-250 Blower, 164 CFM, 0.7 kW canned motor, 3400 RPM, 3/60/220/440V, (Item No. 1265)	Good Used	\$2,750
Leybold WSU-151 blower, 1.4KW, 3480 rpm, 220/380V 50Hz 254/440V 60 Hz (Item No. 1259)	Rebuilt	\$3,500
Leybold #11444 10x18 10 HP motor on frame, No bg 208-220/440V 400 odx 350 mmBC	As-Is	\$2,000
Leybold #11444 10x18 no motor and cracked casting	As-Is	\$1,000
Leybold 12x18 No motor base 400 od x 335 BC	As-Is	\$3,500
Roots rotary lobe gas pump 10-24 HVB RGS whispair #31357-R No baes or motor 12" ASA in 10"ASA out flgs. Est to need 25HP motor for 2740 CFM	As-Is	\$8,500
Roots 14x28 RGS-58-AVP s/n25710 5300 CFM 68 ⁰ F inlet, 250 microns disch & 25 microns inlet Pressure 870 RPM. 14" inlet 21" outlet Flg, Stokes 900-170-13. Lot C86139, S/n C86394, Base Bent, no motor/pulleys/belt guard.	As-Is	\$8,000
Roots 10" x 16" lg. Lobe type RGS Hi Vac booster, 1000 rpm, 1800 CFM@8mm inlet, 15hp, 208/220/440,3 ph motor on frame below booster No B.G. 10" ASA in & out (Item No. 4955)	Good	\$6,000
Roots 1705 125CFM blower, Belt driver. (Item No. 1303)	Rebuilt	\$1,500
Roots 2507 300 CFM Blower with D.D. motor. (Item No. 1309)	As Is	\$1,250
Roots 418JVI-4062 1700 CFM blower, 8" ASA inlet and 6" ASA outlet Dayton 3N672 15 HP, 200-230V/4 60V 40/20A 3ph ODP motor, modified to differentially pump shaft seals to prevent oil backstreaming for Argon laser operation, pumpdown curves similar to RGS 615 and blanks off at 1 micron, cog-belt drive with non-OSHA belt guard, mounted on 4" x 4" steel plate w/casters. (Item No 1333)	Excellent	\$4,500
Roots 615 1300 cfm Horizontal flow Water cooled blower on stand , W/Beltguard, 7.5HP 208-220/440V motor below (Item No. 1330)	As Is	\$1,000
Stokes 146 MB, 146H-13 30CFM MP & 125 CFM 306-41 blower (Item No. 4659)	Rebuilt	\$5,000
Stokes 148 MB. 148H-10 50 CFM MP & 125/245 CFM Stokes 306-401 blower. (Item No. 1301)	Rebuilt	\$5,700
Stokes 149 MB blower pkg. W/149H-11 80 CFM MP, 306-41 145/245 cfm Blower Fomblin Prep (Item No. 4868)	As Is	\$5,000
Stokes 1721 Blower pkg. w/ Roots 615 1300 cfm W/C blower and 212H-10 150 cfm MP w/controls. (Item No. 1324)	Rebuilt	\$9,500
Stokes 306-401, 245 cfm, dd blower,2hp, 3600 rpm,3"ASA Flg. (Item No. 1311)	Rebuilt	\$2,500
Stokes 310-401 400 CFM Direct drive 2 HP 3600 RPM. 4" ASA flg. (Item No. 1316)	Rebuilt	\$3,000
Stokes blower pkg./ w/ Roots RGS-58 AVP, 588 cfm blower & 212H-11, 150 cfm MP w/ controls on stand. W/C (Item No. 1313)	Rebuilt	\$10,500
Stokes/Roots 2507 300CFM Blower & MB mtg plate for Stokes. Belt drive. (Item No. 1307)	Rebuilt	\$2,150
Tokuda TMB-02C Mech. Booster Pump (blower) 2400 l/s (84 CFM) .05 Pascal.37 Micron base pressure) 400 W, 200-220V, 1.9A 3 ph 60Hz. 3400 RPM. (Item No. 1236)	Used	\$750

15) CHAMBERS & TANKS ATMOSPHERIC-Environmental.

11" x 12" x 16" Tenny Jr. -80 to 200 C Analog cont. (Item No. 4845)	Good Used	\$3,250
19"L x 12"W x 15"D Ame. Instr Climate-Lab Environment Chamber w/ BritolBabcock recorders. (Item No. 501)	Good	\$3,000
20"h x 13"w x 14"d SST American Inst. "Climate Lab" 4-5055. Humidity/Cold Chamber. 0 to 350 F Two Bristol Babcock round recorders. 208/230V/ 1 Ph 17.5/19A 60 Hz (Item No. 516)	As Is	\$3,500
24" x 24" x 24" Webber AF8 Environ. chamber. -125 to +350 F recorder and controls. (Item No. 511)	As Is	\$2,800
Conrad-Messimer 30 x30SST Temp Chamber +500F w/ Refrig cooling. Rain Damage (Item No. 471)	As Is	\$2,000
BLUE-M HUMID-FLOW MOD CFR-7752C-2,3-93DEG C, 40-98% R.H. 208/240V/1PH 21/24A 1.5/2KW, DRY BULB HEATER, 1/8 HP BLOWER. 1/3 HP single stage. Refring #12-2lbs.		
Honeywell digital wet & dry bulb controllers 25"Hx37"Wx19" D SST interior, 1 shelf. Floor standing.	As Is, Very Good	\$12,500

Item	Condition	Price
16) CHAMBERS & TANKS ATMOSPHERIC-Misc.		
2' x 2' x 3' plexiglass controlled atm. box (Item No. 524)	Fair	\$100
Binks Press. Paint pot with motor agitator. No motor. 12"d x 17"h with 6 1/2" dogs. 110 PSI max. (Item No. 436)		\$295
Devilbiss paint pot, 15"d x 9"h, galvanized steel. 7 1/2" rad bottom. 6-5/8" dogs. No top (Item No.451)	Unused	\$95
17) CHAMBERS & TANKS VACUUM Stainless.		
Research Chamber made of 3 crosses. One 12"Dx231/2cross, Two 10"dx151/2"crosses. All have 4ea 14" OD Flgs, 1ea 9" OD flg on top & 6"ASA flg on bottom.14"ODx27/8lg spool between sm chamber. Lg cross \$1,000 Sm crosses \$900,	All 3	\$2500
13 1/2"d x 13 1/2"hi SST chamber. Two 16 1/2" CFF, 3-8"CFF, 1-10"CFF ports. (Item No. 479)	Used	\$3,000
Ballast 12"dx20"L 1 1/2" Tube & 1/4 FPTin top. 3/4 FPT in bot,SST		\$200
Research Chamber 4-way cross 6"OD Tube 15"l w/8" CFF on top & SPL 10"flg on bot, two 6"CFF on sides, 5" DN@ 90deg. Two mini & 2 3/4 CFF. 3/4 QC	No cover Flgs	\$500
Research chamber 12x12x8 1/2 h OD w/ 10" CFFon top. 6 3/4 & mini CFF on one side, 4 1/2 CFF 1 side, 4 1/2 & mini CFF on other.	No cover Flgs	POR
16"d x 36"l SST w/c chamber only. See section 1.9. 6" CVC. AST (Item No. 489)	As Is	\$4,000
19 1/2" ID x 36"h SST water cooled chamber with NW-250 pump port. O-R on both end flgs. (Item No. 493)	Good Used	\$5,000
19 1/4" ID x 40"h SST water jacket chamber w/6" ASA pump port. NW-500 flg on both ends. (Item No. 491)	Good Used	\$5,500
#21E3671 20"dx20"lg sst w/c by 3/8 copper tube. 25"OD front & rear flanges. 21/2' vp. 4" ASA ports on top & sides. 4" ASA pump port out back on w/c elbow. Spl 9 7/8 OD 6 bolt 9" BC flg on bottom. Front flg swings out on arm. Mounted on 4 1/2" posts. No pumps or controls.	Good/Used	\$4,000
30" ID x 48" lg, door each end, three 6" ASA ports on top and bottom, misc. 6" & 20" diam. Ports (Item No. 4576)	Used	\$7,500
36" dia. x 18" h. w/c Sputtering chamber w/6" ASA side port and removable cover, 2 ea 4" VP & misc CFF, Rotary table, Connected to 30"x36"x18" load lock listed below. 6" ASA 8" ID HVA SST valve, on caster frame, 2" HVA SST valve on rough line. (Item No. 4702)	As Is	\$5,750
Commonwealth Sci. 38JG ion gun etch. chamber only. Main w/c chamber in 32" ID x 32" lg. w/16" ASA pump port on side, 3" VP, 3/4" QC, 3 ea. NW-16, 2 ea. 2 3/4" CFF & 5 3/4" ID ports. 21.75" ID x 20" water jacketed chamber w/25" OD lower flg.-app. 16" ASA port. 15" d x 16" lg. Polycold coil chamber on one end of main cham. 35" OD hinged flg. Drive motor on other end 35" flg. Rolls out on linear brgs. (Item No. 5039)	Used	\$12,750
Edwards 27 1/2" d x 29 1/2" h SST chamber weldment ONLY with NW-400 pump port. No W/C, for FLC-700 coater (Item No. 107)		\$3,500
Sputtering chamber, 20"od x 11" h, baseplate has 6"ASA pump port multiple 2 3/4 CFF ports, lid has 8 1/2" viewport in top. (Item No. 4499)	Good Used	\$4,500
Stokes 4'd x5'L SST Vac/Press chamber w/ steel flanges and Safety-Lok door. 150 psi @600F 7/16" h leads. 5/16" shell tag data. 8" V.P. on door 8"ASA port on top. 4"ASA one side and two 4" ASA and (1) 6' ASA ports on other side. 10" ASA port w/ 7 HV FT on (Item No. 123)	Good	\$19,500
Three-section SST W/C chamber. 18"d x 8"h top chamber w/removable lid. 10" flanged port out bottom into top of 21"d x 18"h center chamber that sits on 21"d x 6"h sump. Sump has 20 1 1/4" FT holes in sides and 10" port out bottom. Four 6" VP in sides of chamber. (Item No. 495)	Good	\$4,750
SST Hoist entry w/ o-ring seal, black body interior coating, 68" Dia x 78" H including dome, Numerous Conflat and 0-ring flanges	Great	\$15,000
18) CHAMBERS & TANKS VACUUM-Aluminum.		
11 7/8"D x 24"l Auminum Load locks (Item No. 477)	Good	\$1,250
12" id x 15"H Aluminum pot w/ O-Ring. No flanges (Item No. 481)	Good Used	\$300
30" x 36" x 18" h. load lock chamber O-R sealed cover 30" x 36", 6" ASA port (Item No. 4876)	As Is	\$2,250

Item	Condition	Price
19) CHAMBERS & TANKS VACUUM-Mild Steel.		
24d x 24l STL TENNY 2D2S-SPL (1968) Environ. chamber. 30" to 100 PSI. 650F Roll lock door. 8" ASA 8 3/4 VP in door. 6" ASA sideport. 10" butterfly valve in top. Three recorders (Item No. 513)	Fair	\$3,500
28" id x 31" L Cole Engr. STL autoclave chamber. Cam door. 250 PSI @350 F. Temp. & Press. controls, 3/16 thick shell, 5/16 heads (1963) (Item No. 518)	Used	\$3,500
Temescal box coater. 52" w x 48" dp x 29" h steel chamber with 17" dia x 11" h EB gun sump, 2 ea 10KV @ 1A+ P.S. to provide evaporation enhancement. 48" planetary. 10" ASA pump port, no pumps. (Item No. 176)	Good	\$8,500
5' d x 5' st. l. STL 30" roll coater chamber. Full opening hinged door. 3 rolls in top. No drives, two 24" ASA pump ports on sides. 12" ASA on back and bot. 4" ASA on side. No valves, pumps, or controls. Green. [HTA] (Item No. 5142)	As Is	\$10,000
6' d x 8' st. l. STL roll coater chamber SST clad inside, Full opening door on top track. No rolls or drives. Two 35" ASA pump ports on sides. 16" ASA on rear. 6" ASA rough port. No pumps or controls. [HTA] (Item No. 5143)	As Is	\$12,000
77 1/2" id x 8f L Steel vacuum chamber. Two full opening hinged doors. Three 16" od x 12" id ports on each side and top. w/ 4 ea 1/2" bolts on 15" bolt circle. Two on bottom. 4 ea 3/4 pipe coupling on side, top & bottom. One 2 1/2VP on door. (Item No. 532)	Rusty Needs	\$9,000
RPC IND. 40520 ion implanter gun chamber. 30" ID x 55" h on 1" stl. base. 34" OD top flg. w/holes. Side port with 31.5" OD x 27" ID flg. w/O-R. SST flg. For side port w/gun assy. Insulator and cage. (Item No. 5060)	As Is	\$3,750
Shrader Sci. 3' x 3' x 4' h vac. Impregnator tank. Hyd. Top door. No pumps. With chromalox heaters (Item No. 5082)	Good	\$3,000
59" Dia w 13" dome front & rear doors, 52" long chamber CVC 20" DP, 4" rough/foreline valves	Good	\$19,000
8' Dia x 20' L Steel auto clave 100 ⁰ F, 250 PSI. 48,000lbs. Chamber rolls off Hodge quick octing door on rail track hydraulic operated. Inside painted white and has a copper shroud in it where HV tests were conducted in a dielectric gas. No pumps or controls	As-Is	\$60,000
20) CHAMBERS & TANKS VACUUM-Misc.		
Water cooled Steel Chamber: Front & Rear doors. 13" dome. 59" dia. Opening. CVC 20" DP W/ Poppet 4" rough & foreline. Chamber length-52"		
Ballast tank 6 1/4" od x 13 1/4 L. NW 10 on side. 10 mm- 1.5m thread on end (Item No. 413)	Unused	\$150
21) CHAMBERS & TANKS VACUUM-Thermal vac test.		
LN Shroud-Copper 14" OD x 11 1/2" ID x 15" l mounted on 18" OD SST flange w/16" dia O-R. 1/2" tube brazed to copper fins. (Item No. 1216)	Used	\$975
LN Shroud-Aluminum 22 1/2" OD x 24" l. (Item No. 1219)	Unused	\$2,650
22) CHILLERS & REFRIGERATION EQPT.		
ALMAC cryofreeze TO-C-3, three bourdon tube sensors. 0-10 hrs (Item No. 2247)	Used	
Blue-M PCC-50C Portable cooling unit. Ambient to -400C, 240V/1 ph/6.3A Refrig. Lines connected to remote sensor. (Item No. 1068)	Good Used	\$1,800
Artic AC-5 air cooled chiller 230v/3ph/27A 5tons, 60,000BTU/hr, 17.6kw cooling 40 GPM @ 30PSI . 36x57x53h 900lbs.	Repaired & Tested	\$4,950
Buffalo 4101 Glycol Chiller. (Item No. 1076)	As Is	\$750
Compressor, Harris LE-BC1-20 Lo Temp. Copeland Cascade freezer 220 V/3/15 A. (Item No. 1071)	Used	\$3,750
Neslab cryocool CC-100II immersion cooler 115v, 8.6A A/C Compressor, Freon 12. Tecumseh Model AE4440AC. 115 V 7 A. (Item No. 2245)	Good As Is	\$1,100 \$175
Coolanol 20 Chevron/Monsanto Dielectric Heat Transfer Fluid. High performance, Wide liquid range, Low Volatility, stability and compatibility with materials. Used in Aircraft, aerospace industry. Available in 5 gallon pails. (Item No. 1080)	Unused	\$1,250
Elkay ER-10, two chillers in series w/holding tank, 2 pumps 115V, 60Hz, 1ph, 5.8A, 33" h. x 68" w. x 12" dp. On castors (Item No. 4710)	Good Used	\$1,150
FTS RC-0037-B 208/230V 28A, POR (Item No. 4956)		
HP-15E heat exchanger for Grant Fc-15lt-2e (Item No. 1047)	As Is	\$250
Janis RS-38A Liq Helium Dewar 38 lit w. hermetic F.T on NW-50 flg (Item No. 1092)	Used	
LAUDA K-4/R Chiller. Needs thermocouple. (Item No. 1059)	As Is	\$650

Item	Condition	Price
Lepel #BWAG-5 water cooler-circulator 1.5 HP, 220V/ 3 Ph/ 6A (Item No. 3556)	Used	\$1,500
M & W Systems R2 PC7-A-HE Flow rite recirculating cooling systems. Two 500W refrigerators & two 1500W heaters. Needs work. (Item No. 1065)	As Is	\$1,250
Neslab 153110 Endocal Refrig circulation bath (Item No. 1053)	Repaired & Tested	\$650
Neslab CFT-25 A/C chiller, 220V 50Hz 1 ph 580 W cooling @ 20 C Unused in box (Item No. 4858)	Unused	\$1,250
Neslab CFT-25 A/C chiller, 120V 60Hz 1 ph 580 W cooling @ 20 C	Used	\$700
Neslab Coolflow 50 P/N NA181 WD 115V 15A approx 1500W cooling A/C. (Item No. 1057)	As Is	\$1,100
Neslab HX-150 W/C chiller. 208V, 12.5A 1 ph 4500W; 15,345 BTU@20 C. 5 GPM@25 PSI (Item No. 1063)	Good Used	\$2,500
Neslab P BC-2 bath cooler 220V 1Ph. 4.6A 60Hz. 1000W cooling. A/C. (Item No. 1055)	As Is	\$450
Neslab PD-2, pump option for CFT serives, 208v 1Ph 50/60 Hz ,3.5GPM @ 50 PSI (Item No. 4883)	Good Used	\$200
Neslab RTE-5 chiller. 115V, 400W cooling @ 20C A/C (Item No. 1051)	Repaired & Tested	\$1,100
Oxford Lasers GP-2000-M. manual gas chiller purifier for Excimer UHV rare gas lasers. Needs LN. 110/220V, 5/2.5A, 1ph 600W. (Item No. 5097)	As Is	\$1,000
Oxford Lasers GP-2000 gas chiller purifier for Excimer UHV rare gas lasers. Needs LN. 110/120V, 1200W, 10A 50/60Hz. (Item No. 5096)	As Is	\$750
Polycold 4 cu. ft. expansion tank. (Item No. 520)	Excellent	\$250
Polycold PCT-200 trap refrigerator. 208/230V 3 Ph. 8A (Item No. 1088)	As Is	\$2,500
Polycold P-20 cryocooler for baffles & traps, -50 C @ 50W, 115V, 5A, 1PH, 60HZ (Item No. 4957)	Operational	\$500
Polycold PCT-500 trap refrigerator. 208/230V 3 Ph. 18A (Item No. 1090)	As Is	\$5,000
Polycold-PGC 100, 230v, 1ph, 7.5amp, 200 std cubic ft/hr. Dry Gas Chiller@ -100 C (Item No. 4508)	Repaired & Tested	\$2,000
Polycold-P 75, cryo generator, with cold head mounted on an NW 100 flange with a flex line, 115v, 1ph, 12amps. (Item No. 4506)	Repaired & Tested	\$1,500
RAMCOR CH751-A 1399 A/C CHILLER. 208-230V 1 PH. COOLS 2640W @68 ⁰ F 4GPM@10PSI	Good	\$1,650
RD-15E control unit only, for Grant Fc-15lt-2e. (Item No. 1049)	As Is	\$200
S0-Low PR 100-E Deep freeze 115V 0 to -100deg. F18" w x 30"l x 16"d. 2 cooling loops. U-E indicating controller. Needs work. (Item No. 1073)	As Is	\$500
Science/Electronics Mfg. by Grant FC-15LT-2E comp, HP-15E heat exch. RD-15E control unit (Item No. 1044)	As Is	\$950
Thermotron P-CH-810-LN2, s/n 7333, Hot/Cold gas gen. 440V/3/18A, 3 HP 5.2A, uses heat & LN. SCHEM. E-7333Y, 62"h X 31"w X 31"d, on casters (Item No. 4568)	As Is	\$5,000
Varian liquid to air heat exchanger. 6" x 6" heater radiator, w/Muffin fan. Small pump for anti-freeze. 3/8 OD tubes, 120V. (Item No. 1041)	As Is	\$150
Welch 3150B cryogenic refrig. 125 psi/air (Item No. 1086)	Used	\$450

23) COLLARS & SPOOLS-Aluminum.

Aluminum Collar 10 3/4 OD x 9 1/8 x 5h. Six 2 3/4 ports w 4 10-32 holes on 3 3/8 B.G. 4 blank flgs, One/100A dual electrical F.T. & plexiglass v.p. 9 1/4 x 3/10 OR.		\$600
12" Alum. ring. 13" OD x 10 7/8 ID x 2 3/4h. 12 ports. 1"d holes w/1 3/4" spotface. (Item No. 2308)	Used	\$600
18" aluminum 17"ID x 3"h. 8 ports 1 3/8"d w/4 1/4-20 on 3" BC. 18" ID x 1/4" O-R. (Item No. 2320)	Unused	\$1,250
18" LLL spl. 4" h. w/1 O-R. 16 sides, 5 ports bored for four 4" OD flgs. 5 ports bored w/4 rad lab fittings & 1 3/4" QC. (Item No. 5153)	Fair	\$700
18" MRC type. 4 1/4" h. x 1" thk. Ring. 12 sides w/8 ea. 1 3/8" d holes w/6 10-32 tap on 2 1/4" BC. O-R on bot. (Item No. 5152)	Good	\$900
18" MRC V-4. 16 3/4" ID x 3 1/2 h. 8 ports, 1 3/8" d w/6 10-32 on 2 1/4 BC, 1 O-R (Item No. 4862)	Dirty	\$750
18" SRI SPL. 19.25" OD x 16.25" ID x 4.25" h made from SST ring w/1 O-R. 15 flat sides, w/1.75" hole, 4 ea. 10-32 holes on 2.5 BC. Many spl. F.T. avail. (Item No. 5147)	Good	\$650
18" unk. 3 1/2" h. 6 flats w/0.31" bolts on 1.87" x 3" BC. (Item No. 5154)	As Is	\$400

Item	Condition	Price
24" Alum. Collar 8" h. 25.6" OD x 23.7" ID top flg. 24" ID x 0.5 wall bot. Flg. W/24.3" x 1/8" O-R. No F.T. ports. (Item No. 5150)		\$975
24) COLLARS & SPOOLS-Stainless.		
. 19.25" OD x 16.25" ID x 4.25" h made from Alum ring w/1 O-R. 15 flat sides, w/1.75" hole, 4 ea. 10-32 holes on 2.5 BC. Many spl. F.T. avail. (Item No. 5148)	Good	\$950
12" SST collar 6" h. 14" OD x 11.75" ID. "L" gask. Bot. 8 ea. 2.75" CFF. [LHV] (Item No. 5156)	Very Good	\$1,050
12" SST Wheeler flange male, 11"ID x 14"OD. 5 3/4"h w/skirt. 10-2 3/4" CFF. Heat treated. (Item No. 2310)	Unused	\$650
12" SST, 11 1/8"ID x 4"h, 10 ports 2 1/4"d w/6-1/4" bolts, 3 1/4" BC. 2-2" VP, 8-3 3/4 blank flanges. O-R. (Item No. 2312)	Used	\$650
18" L-gasket bottom 5.5" h. Top 21" OD flg. Has a 0.5" thk plate welded on it with 5 ea. 1.33 & 2 ea. 2.75 CFF sides have 4 ea. 2.75" CFF w/1" tubes and 12 ea. 1" d holes. (Item No. 5155)	Good	\$995
18" SST rollup, 19"OD x 16"ID top flange. 18"OD bottom, L-gask. 6"h. No FT holes. (Item No. 2315)	Unused	\$975
18" SST rollup. 20"OD x 16 1/2"ID top flange, 17 1/2"OD bottom, L-Gask. 6 1/4"h, 8 - 1" FT boss 1.5" OD x 1" thk. All FT in RA arc of rollup. Inside mtg. Tabs. (Item No. 2317)	Used	\$1,100
18" SST, 20"OD x 17"ID x 4"h. 12 ports 1 3/8" d w/6 10-32 tapped holes on 2 1/4 B.C, for MRC fit but 2 3/4 CFF "will work". O-R.. (Item No. 2324)	Good Used	\$1,250
18" SST. 20 1/2"OD x 17" ID top flg. 16 ea 1" ports. 5 1/2"hi, L-Gasket. (Item No. 2327)		\$1,095
18" SRI SPL		\$950
24" collar, 26" OD x 23" ID x 4 5/16 h., 18 ea 1 3/4 d F.T. ports, 4 ea 10-32 bolts on 2 1/2 BC. 24" ID x 1/4" O-R on bot. Flg. (Item No. 4821)	Good	\$1,500
25.5" SST collar 6" h. top flg. 27" OD x 24" ID. Bot. Flg. 25" ID x 0.25" wall for "L" gask. 12 ea. 2 3/4" CFF x 1 1/2" lg. Ports. (Item No. 5149)	Very Good	\$2,250
31" OD x 27 5/8" id x 6"h SST collar. One 28" x 1/4" OR. 7ea 21/2 ports. 1" flg ports + Misc ports (Item No. 2329)	Good Used	\$1,750
7.5" SST spool 3" h. 8.6" OD x 6" ID. 7" ID x 0.19 O-R. No ports. (Item No. 5151)	Very Good	\$250
CVC 20" dia x 6"h SST collar w/4 4 1/2 OD flg. 8" DC mag. Target module w/shutter. 21" alum cover but no ring. (Item No. 2429)	Good Used	\$2,500
Edwards 17 3/4" OD (NW-400) flgs. x 6 1/4" Hi SST spool. I51/8 OD x 2 1/8 " ID (NW-63) flg, and NW-10 side ports.. (Item No. 2351)	Unused	\$1,250
SST collar 5" h. 11" OD x 7.75" ID. 10.75" x 7.87" bot. Flg. W/8.25" ID x 0.25" O-R. 4 ea. 2.75" CFF. [LHV] (Item No. 5157)	Very Good	\$700
Varian 18"d x 15" SST W/C, Wheeler flange spool, 12 CFF ports. (Item No. 2867)	Used	
Varian 18"d x 15"h, SST Wheeler flg spool. 10-2 3/4", 1-6", 1-8" CFF ports. (Item No. 2363)	Good Used	\$1,750
25) CRYO PUMPS & COMPRESSORS.		
10" ASA Varian 917-5000 cryopump with Air Products Displex 204R expander. (Item No. 998)	As Is	\$1,500
20" ASA, Air Products model DE-208R, AA-1615-4, 9" hi Flat cold head. 2L08W COMP, 7422 hrs. No press, water cooled. W/Refrig lines, needs rebuild (Item No. 4564)	As Is	\$3,500
6" ASA P. E./ULTEK Cryopump, Air Prod. DE-202S. A/C comp. & refrig. lines. (Item No. 990)	Rebuilt	\$3,750
6" ASA Perkin-Elmer cryopump with bellow vibration isolator. Air Products DE-202-OSP (Item No. 992)	As Is	\$1,000
Air Prod. 1RO4W SL Compressor W/C 208/230V 1 ph. (Item No. 986)	As Is	\$1,000
Air Prod. 1RO4W SL Compressor W/C 220V 1 ph 50 Hz , 11,676 Hrs 50 psi (Item No. 988)	As Is	\$1,000
Air Products DE-202-OSP Cryopump AA-2117 on 6" CFF, Coldhead 31/2"D x 9"Hi 55PSI (Item No. 984)	As Is	\$750
Air Products DE-202S cryopump on 8" CFF Pot w/3 ea 2 3/4" CFF, 12 PSI (Item No. 4573)	As Is	\$1,000
CTI #804451 Gas Heater 115AC,90Q 1/4" Swagelock (Item No. 1012)	Good Used	
CTI & Air Products cryopump helium lines. Female on both ends 10 & 20 Ft. One end can be converted to male for Varian. (Item No. 981)	New	\$250

Item	Condition	Price
CTI 1020R Compressor A/ C 0 Psi 2400 Hrs (Item No. 1006)	Good Used	\$5,500
CTI 1020RW compressor W/C, 208/230v 3ph, 160 PSI, 5886 hrs (Item No. 4813)	Good	\$3,000
CTI 1020RW compressor W/C, 208/230v 3ph (Item No. 4958)	Rebuilt	\$4,250
CTI 8 onboard cryopump fast regen sputtering 6" ANSI inlet vertical. [LHV] (Item No. 5026)	Unused In Box	\$4,500
CTI 804 40060 cryopump regeneration controller. (Item No. 1014)	Used	\$795
CTI 8080-265-K-001 Absorber kit for CTI MC compressor unit. (Item No. 1018)	Unused	\$250
CTI 8500 compressor W/C. 208/230V 60HZ 3 ph. (Item No. 1008)	Rebuilt	\$5,200
CTI 8510 compressor W/C, 208/230V 60Hz 3ph, for "onboard" pumps (Item No. 4822)	Rebuilt	\$6,250
CTI 9600 compressor W/C, . (Item No. 5095)	Rebuilt	POR
CTI MC compressor, new absorber. 208-230/3ph. 160PSI, 36,491 hrs. w/c (Item No. 4574)	Cleaned & Tested	\$2,000
CTI onboard water pump with 10" conflat flanges (Item No. 5027)	Rebuilt	\$8,500
CTI SC-21 compressor for CTI-7 cryopump (early) A/C. 150 PSI, 17,000 Hrs, (Item No. 1002)	Rebuilt	\$1,800
CTI SC-21 compressor, no absorber, comp. Broke and burned, needs welding, lots of work, parts only (Item No. 4712)	Poor	\$250
CTI SC-350 compressor for CTI-8 cryopump A/C (Item No. 1004)	As Is	\$1,250
CTI SC-350 compressor for CTI-8 cryopump W/C 0 hrs., 0 PSI, 208-230V 1 ph. 12A (Item No. 4675)	Unused	\$2,500
CTI silicon temperature indicator. P/N 804 2002 G003 WC. (Item No. 1016)	Cleaned & Tested	\$650
CTI-10, #8120852G001, 1050 on-board water pump with control module. 9" OD cryopanel, POR. (Item No. 5094)	Used	
CTI-10, 10" ASA temp. diode, P/N 808182 (Item No. 4716)	Rebuilt	\$5,500
CTI-7 cryopump w/10" CFF flg. Pressure gauge (Item No. 4569)	Rebuilt	\$2,500
CTI-8 6" ASA, temp. diode #8033167 (Item No. 1000)	Rebuilt	\$4,500
CTI-8 NW 200 flg., temp. diode (Item No. 4638)	Rebuilt	\$4,200
CTI-8 Roughing valve (NorCal) 3/4" NW-25, 1/8" TC gauge port 90 Air (Item No. 1022)	Cleaned & Tested	\$250
CTI-8F, 10" CFF on-board, Endura HP PVD System. P/N 8116030G001. (Item No. 5093)	Rebuilt	
CTI 8011 Control Module		
CTI 1020-CP Cryodyne		
CTI 8300 p/n 8052000 w/c 175 psi		
Ebara 2.1, 323 0014, Cryo compressor, 241hrs, 210psi, water cooled. (Item No. 4505)	Rebuilt	\$2,250
Ebara 521-221 S/N 52M5336, 6" CFF sputter pump, will convert to std. Diode (Item No. 4961)	Unused	\$2,500
Ebara 522-222 cryopump with 208V 3ph, 8" conflat inlet. (Item No. 5029)	As Is	\$3,500
Ebara 323-1049 10" CFF HV-8 S/N C3D4005 2 wire diode		
Ebara 323-8046 6" CFF HV-4 S/N C3H3781 2 wire diode		
Ebara 323-2048 clamp FLG 9" ID IDENT FLG S/N K3K 8846 2 wire diode		
Ebara C-Cube cryopump Central Controller Ed No U 492460-08 1996-11	As Is	\$1,000
Ebara 542-100 s/n Carlos 2 Integrated cryopump Controller No cables	As Is	\$1,500
L-H RPK-100 cryopump 89157, NW-100 flg. & RG-210 displacer 89195 (Item No. 4962)	As Is	\$350
L-H RPK-400 cryopump w/NW-100 flg. & RG-210 displacer. (Item No. 4570)	As Is	\$500
L-H RW-3 w/c comp. 26,031 hrs. 5 bar press. 208-230V, 1ph, 2KvA, . (Item No. 4571)	As Is	\$500
Lakeshore 818 silicon diode temp. monitor for CTI & others, WC. (Item No. 4959)	Repaired & Tested	\$600
Varian # 313-1005. Cryostack 8 pump. 6" ASA. (Item No. 1028)	As Is	\$1,000
Varian 313-1005 Cryostack 8 cryopump 6" ASA and 313-0010 w/c compressor w/gas lines. 208/240V 1 ph. (Item No. 1030)	Rebuilt	\$5,000
Varian 313-0010 W/C compressor 140 psi, 5653 Hrs 208-220V 1 ph. (Item No. 1033)	Good Used	\$1,500
Varian 313-0030 cryopump. Cryostack 8. 6" ASA. (Item No. 1035)	As Is	\$1,100

Item	Condition	Price
Varian 313-0010 W/C compressor 220 psi, 8055 Hrs 208-220V 1 ph. (Item No. 4794)	Good Used	\$1,500
Varian 313-0010 w/c compressor, 140 PSI, 4332 hrs. (Item No. 4885)	Good Used	\$2,000
Varian 315-1005 Cyrostack 12 pump 10" ASA (Item No. 4886)	Good Used	\$4,000
Varian 323-1111 Cryo pump w/ 10" CFF (Item No. 1039)	As Is	\$1,500
Varian 323-0014 W/C compressor 220 psi, 9047 Hrs. 208V, 1ph., 15 A (Item No. 4903)	Used	\$1,500
Varian 323-0055 cryopump w/6" ASA FLG for sputtering.	As Is	\$800
Varian 323-5008 Displacer assy. No cryopump Pat. (Item No. 5092)	As Is	\$350
Varian 917-0085 cryopump temp monitor. 115V. (Item No. 1026)	Excellent	\$750
Varian 917-0070 Cryo regeneration control with 0-1000 Microns TC meter relay. (Item No. 1024)	As Is	\$350
Varian Cryo with Air Products Displex DE-202OSP expander mounted on 9 1/4" O.D. O-R quick disconnect flg. (Item No. 995)	As Is	\$950

26) DEPOSITION FIXTURES & TOOLING.

P-E 2400, 4400, 4410 target assys., insulators & Moly table for 4" wafers. (Item No. 2425)	Good Used	
Temescal 17 5/8"d domed planetary for 3 planets - missing. 19 3/8"OD support spider 9 1/2"h. Center drive w/spring belts & pulleys. (Item No. 2420)	Unused	\$495
Temescal FC-3200 Planets, rings & spiders, etc. (Item No. 2427)	Good Used	
Varian 3120/3125 4" & 5" wafer planets, domes & rings. (Item No. 2423)	Good Used	

27) DEPOSITION SOURCES-Electron beam.

Brad-Thompson 1617.4, 4 1/2 KW, 1 gun. 15 KV, .3 A, w/pierce gun on CFF. 208/230/3. Gun fil, focus, X-Y ADJ & bias PS. (Item No. 3441)	As Is	\$3,750
D & W 180o three 1"d pocket linear E-gun. Chain driven crucible over emitter and focus coil. (Item No. 3490)	Unused	\$1,250
Innotec EBS4, 15cc, 4 pocket gun. Emitter assy. Interchangeable with Temescal STIH-270-2. Lat. & Long. Focus coils have one side grounded. Side rotary drive. 3/8 VCO body w/O-R w/C. (Item No. 5145)	Used	\$5,500
Telemark 261-28 4 pocket 7cc bottom drive, in original box.	Unused	\$6,000
Temescal FIH-180 3" 180o gun w/focus and dither coils. It's an old jewell! (Item No. 3507)	Unused	\$3,250
Temescal 180deg 3 KW permanent magnet gun. Nice for CV-3. (Item No. 3499)	Unused	\$850
Temescal misc. E.B. gun parts, POR (Item No. 4963)	New & Used	
Temescal SFIH-270-1 1 1/8"d 7cc crucible supersource 10KW E-gun (Item No. 3501)Rebuilt \$2,950	Unused	\$4,000
Temescal SFIH-270-2 2"d 40cc Crucible supersource 14KW E-gun (Item No. 3503)	Rebuilt	\$3,500
TLI 100-0010 3 KW Perm. Mag E.B Gun (Item No. 3435)	Rebuilt	\$1,500

28) DEPOSITION SOURCES-Sputtering.

Seagate 6 3/4" dia., custom rotary assembly, magnetron sputtering cathodes, 5KW, several materials, Bodine 72 rpm motor to drive magnet pack. Bodine 72rpm motor to drive magnet pack. (Item No. 4495)	Poor	\$500
Varian DC Sputter gun (S-gun) 2 3/4 CFF Elbow and 18" flexline w/ 1 1/4" d end O-Ring sealed to 2 3/4" CFF (Item No. 3752) Also Misc. Parts.-Call	Used	\$2,000

29) DIFFUSION PUMPS & PARTS.

1 1/2" CVC VMF-11. Ni. plt steel. 3/8 Q.C. on inlet & foreline. 12 1/s, A/C, 220V, 135W. (Item No. 869)	Used	\$395
4" NW-100 Edwards 100/300M Difstack. No back/rough valve. Manual B/fly main valve. 210v 650 w , 100 ml oil	Used	\$2,150
20"ASA CVC PVM-20D w/ disc heaters. Extended foreline like Varian HS-20 12.6KW 3ph 220/380v	V. Good	\$7,500
20"ASA Varian HS-20 with 6 segment heaters 12kw,3ph 208V	V. Good	\$7,500
20"ASA Varian HS-20 with 6 segment heaters 12kw,3ph 480V	Like New	\$9,500

Item	Condition	Price
1 7/8" CVC MCF 60-01. Steel. 4" OD flg & 3/4"d foreline. 60 l/s, W/C. 120V 400W. (Item No.873)	Used	\$450
1 7/8" CVC MCF-61. Steel. 3 3/4" OD flg & 3/4"d foreline 40 l/s A/C 110V 350W. (Item No. 871)	Used	\$375
1" Arthur Smith 1005, W/C 175W 115V (Item No. 865)	As Is	\$150
1" CVC VMF-10 A/C DP with 1/2" foreline valve and 1" ASA VRC lever main valve. (Item No. 3)	As Is	\$275
1" CVC VMF-11 A/C DP with 3/8" SST QC on in & out. 220V. (Item No. 5)	As Is	\$350
10" ASA NRC HS-10, SST 240 V 3900 W. (Item No. 963)	Rebuilt	\$3,500
10" ASA Varian VHS-10 SST. 240 V 4400 W (3 Ph open Delta - 2 elements) (Item No. 969)	Rebuilt	\$6,000
10" ID wide mouth CVC PVMS-100 (Item No. 953)	New	\$1,750
10" ID wide mouth CVC. PVMS-100 Good Stack. No Heaters. (Item No. 951)	As Is	\$490
10"ASA CVC #PMC-10 Steel , 1 1/4" i.d x 1/4" OR w/ 3"ASA Foreline (Item No. 959)	Good	\$2,000
10"ASA NRC #0108 (old) 41"h, 2250W Heater (Item No. 961)	Fair	\$300
10.6" NW-250 Edwards 250 Diff. Stack w/air butterfly main valve. PV-40P, SC-40, rt. angle fore & rough valves w/air oper. Sol. 2250W, 210V, 500 ml oil. (Item No. 5089)	Good Used As Is	\$7,000
10.75" ID, 13.19" OD wide mouth Anelva CDP-3700, 2100W 200V. (Japan. VHS-250 approx.) (Item No. 957)	Like New	\$3,500
10.75" ID, 13.19" OD wide mouth Varian VHS-250. 2200W. (Item No. 955)	Rebuilt	\$3,500
12 1/4" OD inlet Edwards 9B3 oil vapor booster pump. 850 l/s 2.25 Kw (Item No. 973)	Unused	\$4,000
15.12" ID, 18" OD wide mouth Varian VHS-400. 4400W 208V 3 ph open delta load. (Item No. 971)	Rebuilt	\$6,500
15.75" ID wide mouth CVC. PVMS-1000 SST 208 or 230 V, 3 ph, 4500 W (Item No. 4965)	As Is	\$2,000
16 1/4" OD inlet Edwards 18B4A oil vapor booster pump. 4000 l/s, 7 Kw, 480 V (Item No. 4966)	Unused	\$9,000
2 1/2" DP (65 MM) ID w/cool. W/thermostat Tokyo Vacuum OFJ-15N 100 l/s speed, 40cc oil, 100V, 0.35Kw 25 ohm, 4 ea 1/4" holes on 3 5/8" BC, W/C baffle, 0.67 dia foreline (Item No. 4653)	As Is	\$250
2 1/2" NW-63 Edwards 63/150P Diffstak. 210V 450W w/ water ready thermostat, No optional back/rough valve (Item No. 903)	Unused	\$2,250
2" ASA Edwards E02. 2 3/4" CFF foreline. A/C. (Item No. 5103)	Fair	\$300
2" ASA NRC HS-2 W/C. 450W, 120V (Item No. 881)	Rebuilt	\$975
2" ASA Varian HSA. A/C 120V for Varian leak detectors. 0.830 O.D Foreline (Item No. 879)	Rebuilt	\$1,000
2" ASA Varian M2 W/C 120 V . No thermal bar overtemp (Item No. 878)	Rebuilt \$750	New
2" CVC MHG-40 Mercury DP. 3lbs Hg. req'd. 45 l/s, 3 3/4" OD sm. Flg. 300W 115V. W/C (Item No. 892)	New	\$500
2" NRC-001 (HS-2) side inlet to W/C trap & 1/2 QC. (Item No. 885)	Rebuilt	\$650
2" NW-50 Edwards EO 50/60, 120V 250W, 20ML fluid. A/C. 2 thermostats. (Item No. 875)	Very Good	\$600
2" Small flange CVC (for CEC Leak Det.) A/C. 115 V 300 W. (Item No. 898)	Unused	\$550
2" Small flange CVC PMC-2 A/C 115 V 300 W. (Item No. 894)	Rebuilt	\$550
2" Small flange CVC PMCS-2C W/C SST. 115V 300W. (Item No. 896)	Rebuilt	\$550
2" Unk alu/SST A/C 3 1/2" OD flg. 4 ea 10-32 tapped on 2 3/4 BC. 115V 230W 200 (Item No. 890)	Used	\$200
2" Veeco (for MS-9 Leak Det.). (Item No. 900)	As Is	\$375
2" Veeco EP-2A1, SST A/C. 3 1/2" OD flange. 3/4" foreline tube. 110 V 350 W. (for MS-90 leak det.) (Item No. 887)	Used	\$450
20" CVC PMC-20, No stack (Item No. 4968)	Rusty Needs Work	\$2,000
32" ASA CVC PMC-32C. Corroded stack, missing cold trap	Rusty	\$2,500

Item	Condition	Price
35" ASA CVC PMC-35C. Needs work on band heaters & Stack (Item No. 977)	Rusty	\$5,000
4" ASA CVC PMCS-4B SST. (Item No. 923)	Rebuilt	\$1,100
4" ASA CVC PMC-4B (Item No. 921)	Rebuilt	\$900
4" ASA Dresser. DPD4-1000, 115V, 1ph. DT. (Item No. 5105)	Used	\$500
4" ASA Edwards E04. SC-25 foreline. W/C. (Item No. 5104)	Fair	\$450
4" ASA NRC NHS-4. (Item No. 917)	Good Used	\$400
4" ASA NRC HS-4 SST. (Item No. 912)	Rebuilt	\$900
4" ASA NRC HS-4 STL. (Item No. 5106)	Fair	\$450
4" ASA Varian VHS-4 SST 240 V 1450 W (Item No. 919)	Rebuilt	\$1,650
4" ASA Varian M-4 240 V 1190 W. (Item No. 914)	Good Used	\$750
4" ASA Varian M-4 240 V 1190 W. (Item No. 915)	Rebuilt	\$1,250
4" CEC MCF-300 SST W/C 115 V 750 W. (Item No. 910)	As Is	\$250
4" NW-100 Edwards. Manual		
4" NW-100 Leybold 22630 DP, 550W 220V, O.T. Thermostat NW-20 foreline. W/C. 400 l/s. (Item No. 5090)	Unused	
4" Veeco EP-41W, SST W/C. 6 1/2 OD flange. 3" OD foreline flange. 220 V 500 W. for VE-401 (Item No. 907)		\$550
5" EdwardsEO4850 W 220V, NW 25 Foreline. 5" id x 7" od Flg w/ 12 ea 11/32 holes on 6 7/16 BC (Item No. 927)	Used	
6" ASA CVC PMCS-6B SST. (Item No. 947)	Rebuilt	\$1,600
6" ASA Dresser DPD6-1800. 230V, 1ph. DT. (Item No. 5107)	Used	\$225
6" ASA NRC NHS-6 (Item No. 929)	Rebuilt	\$1,050
6" ASA Varian M6 120/208 or 240 V - Specify. 1500 W (Item No. 931)	Rebuilt	\$1,650
6" ASA Varian VHS-6. 120; 208 or 240V- specify. 2200W 1Ph. (Item No. 935)	Rebuilt	\$2,400
6" ASA Veeco SST. approx 5 1/4" OD KF type flange on foreline, water jacket replaced w/Cu tube (Item No. 941)	As Is	\$950
4" NW-100 Edwards 100/300P Diffstak. 210V 650W w/ water ready thermostat, No optional back/rough valve,Air op. main B.fly valve. (Item No. 905)	Unused	\$2,850
6" NW-160 Leybold 22640 DP, 800W 220V, O.T. Thermostat NW-32 foreline. W/C. 1000 l/s. (Item No. 5091)	Unused	\$2,500
6" Spl. flange D & W 1051 w/water jacket SST. (Item No. 943)	As Is	\$550
6"ASA NRC #01-0620-5 (old) 28" h, 950W, No heater (Item No. 937)	As Is	\$100
6"ASA T-M Vac Prod. # 641-8-C w/ sump on top 115V 60 Hz 1 h 15A (Item No. 933)	Very Good	\$1,250
8.3"ID, NW 200; Balzers Dif-200 200V 200W SST NW40 Foreline. Needs element/top baffle (Item No. 949)	As Is	\$750
Varian 0181-6429-06-025 VHS-4,6,10 300 deg F klixon thermostat, 25A-240V manual reset. (Item No. 939)	New	\$25
Varian 0181-6429-06-015 for M4,M6 225F thermostat. 25A 240V manual reset. (Item No. 925)	New	\$25
Varian HS-10 Alum Jet Assy. 0181-77838-301. MFG by Varian. (Item No. 965)	New	\$1,750
Varian HS-10 Splash Baffle 0181-77903-301. MFG by EFC (Item No. 967)	New	\$175
30) <u>ELECTRON BEAM P.S ACCESSORIES & PARTS.</u>		
D & W 5040V E.B. power supply, HV control panel. (Item No. 3509)	As Is	\$450
Sloan PAK Remote control. (Item No. 3455)	Used	\$300
Sloan six-ten remote control. (Item No. 3453)	Good Used	\$300

Item	Condition	Price
Temescal CV8 & 14 6054-2014-0. Focus & sweep. P.S. trans. Triad F49U. (Item No. 4023)		\$75
Temescal CV8, 10 & 14 6054-1137-0. Tube bias supply choke. Stancor C2690. (Item No. 4019)		\$50
Temescal CV8, 10 & 14 0206-1101-0. Tube bias supply trans. Temescal 2F1101 (F & R 2T13). (Item No. 4021)		\$150
Temescal EGC-1 gun controller for CV-10 Powerstat focus control. (Item No. 3475)	Good Used	\$1,600
Temescal EGC-1A gun controller for CV-10A current reg. focus potentiometer. (Item No. 3477)	Cleaned & Tested	\$1,750
Temescal EGC-20 gun controller for CV-20, 0610-3014-1 (Item No. 3481)	New	\$2,500
Temescal ES-6 EBPS HV XFMR 2F 1373. (Item No. 4013)	Unused	\$1,450
Temescal ES-6 EBPS Tube fil.xfmr 2F5501. (Item No. 4015)	New	\$395
Temescal ES-6 EBPS focus.xfmr 2F5521. (Item No. 4017)	New	\$355
Temescal ES-6 remote control. (Item No. 3449)	Good Used	\$450
Temescal STIH-270-2MP Misc. new and used parts (Item No. 4918)	Used	
Temescal VWS-R-1A Variable waveform position-sweep controller. X & Y axis. (Item No. 3471)	Repaired & Tested	\$3,350
Temescal VVC-6, 4-10 KV, HV adjust for ES-6A. (Item No. 3447)	Cleaned & Tested	\$1,650
Temescal XY5-10-1, Alum panel. Triangle-Cycloid-Sinewave sweep. w/P.S. & Cable (Item No. 3473)	Rebuilt	\$2,500

31) ELECTRONIC PARTS & COMPONENTS.

Ascort-Addalux 1422-03 printing light. 2KW, 200-250V 1 ph. (Item No. 4393)		\$1,450
Cap, Energy Discharge. Sangamo 14 MFD, 20 KV, 0.040 μ H, 2795 Joules. One term insulated. 350 Case common. No PCB. Quantity discount. (Item No. 4357)		\$350
Cap, Energy Discharge. GE 14F1115G2, 24 MFD, 20 KV, 0.3 μ H, 25,000 A max peak. Two 450 term insulated. Caster oil. Quantity discount. (Item No. 4359)		\$450
Cap, oil filled, water cooled. Aluminum case for RFPS. Westinghouse 363A004-H19 13 1/2 x 5 1/4 x 16 h (21 1/4"H insl.) 0.0076MFD, 7800 VRMS max. 240 A max, 540 KHz. (Item No. 4349)	Unused	\$475
Cap, Oil, Filter. GE 14F 128, 0.0091 MFD, 25 KV DC. 75 (Item No. 4351)		\$75
Cap, Oil, Filter. GE 14F 129 ,.05 MFD, 25 KV DC. 125 (Item No. 4353)		\$125
Cap, Oil, Filter. West 1166 907, 0.5 MFD, 25 KV DC. 225 (Item No. 4355)		\$225
Cap, variable vacuum. ITT-Jennings CMV-1-4000-305, 25-4000 PF, 5 KV. (Item No. 4347)	New	\$950
Coaxial "Tee", RF switch. Shively labs. 8160EPS. 8" O-R flange. 2 1/2"d x 31 male connector. (Item No. 4361)	Unused	\$425
Dietzen 4313 microfilm reader. (Item No. 4391)	Used	\$300
H.V. Choke, C-R. Q T & E 2350 (Item No. 4363)		\$150
Millington Machine Co. VF-WM 42"h x 52"w photo printing frame. 120V 9A (Item No. 111)		\$1,250
Tube, Eimac 3CX3000A7. For Plasmatherm RFPS. (Item No. 4375)	Rebuilt	\$900
Tube, Eimac Y504 special HV triode for Temescal ES-6 EBPS. (Item No. 4365)	New	\$850
Tube, Eimac 5C X 1500A. For Plasmatherm RFPS. (Item No. 4369)	Rebuilt	\$950
Tube, Eimac 3W5000A3 medium mu triode, 5 KW W/C. Glass insulated. (Item No. 4379)	Unused	\$300
Tube, Eimac 3CX 10,000 A7. For Temescal CV-8 EPBS. (Item No. 4381)	Rebuilt	\$2,300
Tube, Eimac 3CW 20,000 A7. For Temescal CV 10/14 EBPS. (Item No. 4385)	Rebuilt	\$2,500
Tube, Eimac 3CW 20,000 A7. For Temescal CV 10/14 EBPS. (Item No. 4387)	Unused	\$3,250
Tube, Eimac Y512. Special HV tetrode for Sloan 5/10 & 6/10 EBPS. (Item No. 4367)	Good Used	\$750

32) FEEDTHROUGHS-Electrical.

10 pin 1" F.T. Varian-special. MS conn. (Item No. 2489)	New	\$375
10 pin on 2 3/4" CFF Varian 954-5118 for Iron-constantan for T.C., 0.060 d. for MS conn. (Item No.4586)	New	\$350

Item	Condition	Price
10 pin on 2 3/4" CFF Varian 954-5165, no MS conn., 0.060 Nickle wire. (Item No. 4641)	Unused	\$200
10 pin on 2 3/4" CFF MDC IF10-275, 10A 700V max., 0.032 dia. Moly pins in vac. (Item No. 4741)	Used	\$275
1000A 3/4"d W/C NRC 1373-F6601-301 1" FT (Item No. 2496)	New	\$385
1500 A W/C-Alumina Insul. on 1 3/8"d Kovar sleeve. P-E 3/4"d copper, can be welded in 2 3/4" CFF. (Item No. 2532)	Unused	\$395
150A 10KV 1"dx 5/8" max thk BP Hole w/o 1.345. Counterbore . Edwards 6D electrode DO72-19-000. (Item No. 2500)	New	\$200
2 wire 0.05" Nickel on 1.33" CFF. 1" wire@ATM, 5.5" wire in Vac. 5A@5KV. (Item No. 5077)	Unused	\$100
400A 1" F.T. SS 244-0004-2. (Item No. 2494)	New	\$175
400A 1" F.T. Veeco 9800-88300, list price \$1,419 (Item No. 4970)	Unused	\$700
70A 12KV. 1" SST FT. 5/16 copper rod. SS#244-0006-0. For EB gun filaments. (Item No. 2498)	New	\$450
8 pin on 2 3/4CFF Varian # 954-5014, 0.05 OD Ni wires, 1KV 5A (Item No. 2512)	New	\$150
8 TC tubes/alumina header on 1 3/8"d x 1" Kovar sleeve. P-E 126-311-010. (Item No. 2528)	Unused	\$95
8 wire 0.09" d copper on 2 3/4" CFF. MS-3106A-24-6S #12 contact plug@ATM 5 wires in Vac. Est. 30A@500V. (Item No. 5076)	Unused	\$400
Deutsch connectors DM5623-37pp 37 pin Male-Male hermetic bulkhead conn mounted on 8"bolt circle on 10"ASAx 1/2T, Al flange No O-ring. Need Deu. 13084-37S-5020 plugs. POR. (Item No. 2502)	Excellent	
Deutsch connectors DM5623-61pp 61 pin Male-Male hermetic bulkhead conn mounted on 12"ASAx 1/2T (19"OD) , SST flange No O-ring. POR. (Item No. 2505)	Excellent	
Deutsch plugs with shielded cables available, POR. (Item No. 4971)	Excellent	
Deutsch Single 37 and 61 pin Hermetic connectors and mating plugs available. POR. (Item No. 2508)	Excellent	
Temescal 2 BNC coax on 1" bolt P/N	Unused	\$250
Octal 1" F.T. Varian-1374-F9665-301. Octal plug. (Item No. 2487)	Used	\$250
Octal 1" SST F.T. ANON. Octal plug. (Item No. 2485)	Used	\$150
Octal or 11 pin feedthrough on 1 3/8d SST bolt. Cooke U912-9 (Item No. 2530)	Unused	\$295
Varian 953-0052 cable clamp blocks w/jackscrew for 150A-0.25" d & 400A-0.625" d feedthrus. (Item No. 5078)	New	\$200
33) FEEDTHROUGHS-Misc.		
1" quick connect NRC 1369-F1819-801. 1" SST FT. Skinpacked. (Item No. 2483)	New	\$250
Edwards E100-41-040 For 1/8" Rod/tube. 0.134 id x 0.468" thk OD (Item No. 2437)	Unused	\$25
Hollow bolt blank 1" SST FT. (Item No. 2481)	Unused	\$40
MRC 2 3/4 flg w/ 2 ea 1/4" SST tubes & 37 deg Male flares w/ 10" flex lines 6"L (Item No. 2535)	Used	\$100
34) FEEDTHROUGHS-Motion.		
1/4" linear. MDC 996406 (SPL K075-BLM-1). 1/4" rod 3.3-4.3" lg, 1" travel, bellow sealed, NW-16flg., with-03 optional stepper motor drive. Motor can be removed for manual knob operation. (Item No. 5146)	As Is	\$275
1/4" rotary/brass bellow NRC 1301-F2721-301 1"FT. (Item No. 2461)	Used	\$560
1/4" rotary Bellow sealed Temescal 0918-6793-0, with 1 3/8" x 1/8" O-Ring 3-Hole 2 3/4 flg (Item No. 2463)	Used	\$175
1/4" rotary/bellow sealed. Varian 954-5151 on mini CFF. (Item No. 2520)	Used	\$275
1/4" rotary/bellow sealed. P-E 281-6070. 2 3/4" CFF. (Item No. 2522)	Good Used	\$350
2 3/4 CFF 1/4"Rotary Varian Modified w/ 1/4 turn shutter. Air actuated from 3125 (Item No. 2473)	Used	
3/8 "Linear MRC push-turn Feedthru'. 6-10" strobe. Diff. pumped 5 7/8 Al Flg (Item No. 2465)	Used	\$150
3/8" Rotary Edwards C636-65-000. O-ring sealed. 1.050 or 1 5/16 Hole. (Item No. 2471)	Unused	\$100

Item	Condition	Price
3/8" rotary Ferro fluidic 50C103154H in 2 3/4 CFF. (Item No. 2524)	Good Used	\$850
3/8" Rotary 2 3/4 CFF, Huntington VF-166 (Item No. 4797)	Very Good	\$450
3/8" rotary Dominar FT-R375, 1" SST, 2 Viton O-R, 2 ball brg., DBL shaft flats, 4" O.L. (Item No.4972)	New	\$275
5/16 SST push turn Diff pumped Fed thru on 3/4 bolt (Item No. 2475)	Used	\$100
5/16-3/8 x1/4" Bellow sealed rotary Feedthru on 7/8 bolt ANON (Item No. 2477)	Used	\$200
CHA FT58-023 1" SST Push-pull rotary F.T. 1/4 shaft w/pumpout. (Item No. 2455)	Used	\$275
Ferro fluidic rotary. 1" SST FT, 1/4 SST shaft. 50C103237. (Item No. 2459)	Used	\$300
Ferro fluidic rotary. 1" SST FT, 1/4 SST shaft. 50C103237. (Item No. 4432)	New	\$500
Ferro Fluidic rotary 3/8" for 1" dx 1 3/4L BP hole (50-10399OH) Flattened Shaft (Item No. 2467)	Unused	
Ferro fluidic rotary. 1" aluminum FT, 1/4 SST shaft. A 1391, 5IA112945 (Item No. 2457)	Used	\$275
Ferro Fluidic rotary 3/8" for 1 1/2" dx 1 1/2L BP hole (SNN-375-009) 3/32" Shaft keyway (Item No.2469)	Unused	
MDC # K075-ABLM-1SP Linear Feed thru Air actuated. NW-16, Shaft about 2" (Item No. 2479)	Unused	\$295
Temescal 0302-1713-0 (BR-IF) 3/8 shaft, 25inlbs,40in-lbs inter., 1000 rpm max bellow & wobblestick drive 4 1/2 OD flange mounted. (Item No. 2541)	Good	\$800
35) FEEDTHROUGHS-Thermocouple.		
10 pin on Mini CFF Varian 954-5033 Iron-constantan for T.C. (Item No. 2514)	New	\$375
20 pin on 2 3/4 CFF Varian 954-5116 Iron-constantan for T.C. (Item No. 2516)	New	\$495
36) FEEDTHROUGHS-Thickness monitor.		
2-3/16" tubes, 1 RF. Inficon 002-042 1"FT. (Item No. 2443)	New	\$375
37) FEEDTHROUGHS-Water.		
Dual 1/4"x 6" SST tubes on 2 3/4" rot. CFF. (Item No. 2518)	New	\$85
One 3/8" copper tube, NRC 1335-78084-301 1"FT. (Item No. 2449)	New	\$150
Three 1/4" copper tubes with RL fittings on 1" SST FT. (Item No. 2447)	Unused	\$175
Three 1/4" copper tubes in 1" SST FT. 1 1/2"l on Hex x 6" OL. (Item No. 2445)	Unused	\$125
Two 3/8" SST tubes 5" lg. on 1" SST F.T. ANON: Mounted thru 1" lg. bellow in chamber. (Item No. 2453)	Unused	\$175
Two 3/8" SST tubes 6" lg. on 1" SST F.T. ANON (Item No. 2451)	Unused	\$175
Two 3/8" SST Tubes 5" long on 1" SST FT. Mounted thru 1" long bellow in chamber (Item No.2441)	Unused	\$175
38) FILTERS RECIRCULATING OIL.		
Hilco RP1, s/n EIA 100-0X-A, 8" d x 24" h. filter tank only. 100 PSI gauge. 100 PSI max@250 F. (Item No. 4870)	As Is	\$95
Edwards EOF-300 external oil filter. 8"x20" tank		
Hilliard 01511-0888-003 2 tank oil filter. 115V 1/4 HP pump. (Item No. 784)	Good Used	\$750
Leybold OF-500, filler tank only with Quick conn. 4 gal. (Item No. 5108)		
Leybold OF-500, 1/16 HP, 0.6 GPM, oil pump & filter. (Item No. 832)	New	\$1,200
Leybold OF-1000-1, oil pump & filter. (Item No. 834)	Cleaned & Tested	\$950
Leybold #898507 Particulate element for OF-1000 oil filter (Item No. 812)	New	\$30
Leybold 18996 Al 2 O 3 (aluminum) Replacement element for CFS, 16/25 (1 reqd.) or 40/65 (2 reqd) (Item No. 4861)	Unused	\$65
Leybold 898550, OF-1000 oil filter, 1/6 HP pump, press. & flow gauge. W/Fomblin. (Item No. 5101)	Used	\$800
Leybold CFS40-65 chemical filter system 10177 for D40/65 BCS pumps. W/2 elements (Item No. 4723)	Very Good	\$1,650

Item	Condition	Price
Leybold OF-1000 spare rear filter cannister 898555 w/quick disconnect, with Al 2 O 3 (aluminum) 898504 element (Item No. 4786)	Unused	\$325
LH# 898507 Particulate element for OF-1000 filter. (Item No. 836)	New	\$30
Motor gard 212 200 Two canister w/ M-723 element. Press gauge & two ft hoses with quick disconnects 115v/230v. (Item No. 838)	New	\$1,000
Oil pump & filter. RDI FS-765 (765cc/in oil flow) 1/4 HP 115/230V. 50 CFM pump max. (Item No. 845)	As Is	\$500
Oil pump & filter. Stokes 339-30, 3.5 GPM w/some Fomblin. POR. (Item No. 4658)		
Oil pump & filter. Shrader VOF-5, 1/4 HP. (Item No. 847)	Cleaned & Tested	\$795
Oil pump & filter. Stokes 339-15, 1/3 HP, 1.5 GPM (Item No. 843)	Cleaned & Tested	\$850
Oil pump & Filter Stokes 330-20 1/3 HP 115/230V (Item No. 841)	As Is	\$950
Oil pump & filter. Edwards EOF-FXCR-A501-13-000. 3 motorgard filters soaked with fomblin, (Item No. 829)	Good	\$1,150
Welch 1418A oil filter assembly for all Welch M.P. (Item No. 814)	New	\$200

39) FITTINGS-ASA.

10" ASA elbow made from 10" SST "TEE" 1 run with small flange blank. (Item No. 2850)	Cleaned & Tested	\$795
16"ASA steel elbow w/ 6"ASA rough port & 2 each 3/4" QC ports. Rusty (Item No. 2876)	As Is	\$1,950
2" ASA 304 half nipple 5" L For flat gaskets. Screen in center of weld necks with 3/8" x 45deg flares on sides of screen (Item No. 2648)	Good Used	\$125
3" ASA SST, 3"OD tube, 90o mitre elbow (spec. fab.). (Item No. 2791)	Used	\$175
3" ASA x 4 3/4" L SST Half nipple. 3 " OD tube. No O-R. (Item No. 2663)	Used	\$175
3"ASA x 8 1/2 lg. SST nipple. 3 3/4 I.D. Tube. 1 Rot & 1 non-rot flg. No O-R. (Item No. 2665)	Good Used	\$225
4" ASA Sst flange, 4" copper 90o elbow-brazed. 3/8 tube port. (Item No. 2795)	Used	\$150
4" ASA SST, 4 1/2"OD tube, 90o mitre elbow (spec. fab.) (Item No. 2793)	Used	\$225
6" ASA 304SST 900 radius elbow 5 3/4 ID approx. 12 1/2 C.L. to F-F. With 1/2" pipe coupling welded 5" 450 from 6" flange. No O-R. (Item No. 2779)	Used	\$450
6" ASA SST 6"OD tube, 90o radius elbow, 2 3/4" CFF port. (Item No. 2801)	Used	\$350
6" ASA SST rough nip 3"l. 1 O-R thread side, 1/8 TC, 1" QC, 1 5/8" valve. (Item No. 2774)	Used	\$425
6" ASA SST half-nip. 8"OD tube x 8 1/2" lg. (Item No. 2805)	Unused	\$150
6" ASA SST SPL Cross. Two 9 1/2 OD FLGS w/o-R, one 7 1/4 OD Flg No O-R (Item No. 2807)	Used	\$350
6" ASA x 5 3/4" ID SST nipple 14.18 Lg. 1 O-Ring (Item No. 2760)	Used	\$400
6"ASA SST Tee 5 3/4id 10 1/2 lg on run w/ 1 OR. 8" Bellow on 19" bell (Item No. 2762)	Used	\$750
8" ASA steel flg welded to 8" pipe. (Item No. 2834)	Used	
8"ASA x 8" ID Steel nipple 6 1/2" Lg. 1 O-Ring. 2" Elbow outside (Item No. 2832)	Used	\$150

40) FITTINGS-Conflat.

1 1/2" d, 2 3/4" CFF 90deg ell, MDC 150-2L. (Item No. 2623)	New	\$50
1 1/2"d x 5"l, 2 3/4" CFF nipple. MDC 150-2. (Item No. 2621)	Used	\$35
1 1/2"d, 2 3/4" CFF TEE. MDC 150-3. (Item No. 2625)	New	\$70
1 1/2"d, 2 3/4" CFF CROSS . P-E 221-022-300 (Item No. 2682)	New	\$90
10" CFF 8" OD tube nipple 5" lg. (Item No. 2840)	Used	\$450
10" CFF 8" OD tube half nipple. 8" lg. (Item No. 5109)	New	\$275
13 1/4" CFF x 9 3/4" id x 8" L nipple. Other 13 1/4 OD flg has 11" id x 1/8"OR, w/, same bolt pattern 4 ea 2 3/4" CFFx 2"L ports @ 90 centered on sides (Item No. 2856)	Used	\$650
3 3/8 CFF x2"d tube Nipple 6 3/8"l. MDC 200-2. (Item No. 2684)	New	\$115
3 3/8 CFF x2"d Cross MDC 200-4 (Item No. 2692)	New	\$230
3 3/8 CFF x2"d 900 elbow MDC 200-2L. (Item No. 2688)	New	\$115

Item	Condition	Price
3 3/8 CFF x2"d TEE MDC 200-3 (Item No. 2690)	New	\$180
4 1/2" CFF - 2 1/2"d tube 90o mitre elbow. SST. Varian 952-5035. (Item No. 2716)	New	\$175
4 1/2" CFF Cross MDC 250-Y. (Item No. 2720)	Good Used	\$225
4 1/2" CFF - 2 3/4CFF reducer Tee (Item No. 2722)	Used	\$175
4"-6" CFF TEE MDC 400-3 (Item No. 2732)	Used	\$230
41/2" CFF x 21/2 tube Tee (Item No. 2718)	Used	\$170
6" CFF 4"d tube 90o mitre elbow SST. Varian 952-5040. 5.31" C/L-face. (Item No. 2799)	Used	\$175
6" CFF Cross. Varian. Two 2 3/4 CFF on 6-way. W/C trace. (Item No. 2744)	Used	\$450
6" CFF Cross. 4" OD SST tube. (Item No. 2746)	Good Used	\$375
6" CFF x 4" OD tube 6 way Cross (Item No. 2734)	Used	\$725
6"CFF TEE. Varian 952-5042 4" SST Tube (Item No. 2742)	Cleaned & Tested	\$300
8" CFF 6" OD tube TEE. ULTEK 221-028-500 x Non-rot flgs (Item No. 2818)	New	\$395
Varian 21/2"-4 1/2" CFF x 4 13/16L Nipple. 2 Rot flgs (Item No. 2631)	Cleaned & Tested	
41) <u>FITTINGS-ISO NW-63 & larger.</u>		
NW-160 x 2" Alum. Nipple. One fixed & one rot flg. (Item No. 2752)	Used	\$90
42) <u>FITTINGS-Kf NW-50 & smaller.</u>		
NW-25 SST, 1"OD tube, 90o radius elbow. Huntington VF-102-SF. (Item No. 2576)	New	\$25
NW-40 x 2 5/32 L SST nipple (Item No. 2583)	Good Used	\$45
43) <u>FITTINGS-Misc.</u>		
14" Wheeler Female flange, Half nipple 18" L. 10" OD tube 1/8" wall (Item No. 2869)		
304 SST Dished head. approx 18" OD x 3 1/4" H x 1/8" thk. (Item No. 4241)	New	\$150
304 SST Dished head. Approx. 25"d x 3"h x 1/8"thick. (Item No. 4243)	New	\$250
304L SST 8 1/2 OD- 4 1/2 offset weld reducer. SCH 105 Taylorford (Item No. 4249)	New	\$25
6 1/8" OD Welch 1375, 1398 brass inlet flange to 3 1/8 OD x 10"l copper pipe. (Item No. 2750)	Used	\$35
SST 8 5/8 OD 90deg elbow. .175 thick #D500 (Item No. 4251)	New	\$100
44) <u>FLANGES-ASA.</u>		
10" ASA x 7/16 thk SST blank flg NO O Ring (Item No. 2844)	Good	\$175
10" ASA x 1" thk SST blank flg. No O-R. (Item No. 5110)	New	\$400
10" ASA x 7/8"thk. SST flange. Bored for 12"OD tube. 12 1/8"ID x 1/8" O-R. (Item No. 2846)	New	\$395
10" ASA x 2 1/2" thk Al spacer 10" ID, Two 1 1/4 idx 1/4 O-Ring (Item No. 2848)	Good	\$200
6" ASA x 7/8"thk SST flange. Bored for 8"OD tube. 8"ID x 1/8" O-R. (Item No. 2803)	New	\$175
8" ASA x 1"thk aluminum spacer w/RL leak check port on edge (for mating 2 O-R flanges). (Item No. 2830)	Used	\$120
45) <u>FLANGES-Conflat.</u>		
6" CFF Flg blank (Item No. 2724)	Good Used	\$55
6" CFF-4.3OD. Quick-Connect coupling. W/C for heated tube. 7"l (Item No. 2748)	Used	\$250
46) <u>FLANGES-ISO NW-63 & larger.</u>		
NW-200 SST blank flg. 9.45" OD. (Item No. 2826)	Good Used	\$95
NW-200 MDC#L-800-B Alum Rot bolt ring 11.22 OD No spring (Item No. 2828)	New	\$140
NW-320 SST Blank flanges 14.57 OD (Item No. 2871)	Used	\$275
NW-320 SST Flange 16 11/16 OD x 12 1/2" IDx 1 1/8" thk12 x 1.75mm holes on 15 9/16 bolt circle. (Item No. 2874)	Used	\$450

Item	Condition	Price
NW-400 (17.72" OD) x 10 1/4" ID SST flg. (Item No. 2878)	Good Used	\$250
47) <u>FLANGES-Misc.</u>		
20"d x 1" thk Aluminum disc (Item No. 4247)	Very Good	
20"d x 1" thk plexiglas disc (Item No. 4245)	Very Good	
304 SST Burnout 14 1/4"OD x 10 1/2"ID x 1 3/4" thick. (Item No. 4237)	New	\$75
304 SST Disc. 14 1/2"OD -1/16" thick. (Item No. 4235)		\$10
304 SST Disc. 7 1/4"OD x 1/4"ID x 1/8" thick. (Item No. 4233)	New	\$15
304 SST Ring 21 5/8"OD x 18 1/2"ID x 3/4" thick. (Item No. 4239)	New	\$100
48) <u>FLEXLINES-ASA.</u>		
10" ASA SST Bellow flex nipple. 7 1/4" F.F. 2 O-R 12 1/8ID. x 1/4. (Item No. 2854)	Cleaned & Tested	\$950
2" ASA SST bellow 23" L. Non rot flgs. w/ O-ring (Item No. 2889)	Used	\$325
2" ASA bellow w/ braid 53" L. Non rot flg. Flat gasket (Item No. 2891)	Used	\$150
2" ASA SST flange & formed bellow nipple. 5 3/4"l. 1 O-R. (Item No. 2651)	Used	\$150
3" ASA steel flange, SST formed bellow nipple. 6 1/2"l. No O-R. (Item No. 2661)	Good Used	\$150
4" ASA Stokes #900-315-009 Flex nipple 6 3/4 L. Stl flgs SSt Bellow No O-Ring (Item No. 2708)	Used	\$150
4" ASA SST w/ brais, .42" lg 1 Rot. Flg. NO OR	Used	\$500
6" ASA SST bellow w/ braid 9" flg 1 rot. Flg. No OR (Item No. 2899)	Used	\$1,200
6" ASA x 6" ID SST bellow nipple 11 3/4lg. Steel flg. No O-R. (Item No. 2756)	Unused	\$475
6" ASA x 6 1/2" ID SST bellow nipple 8 1/2" L. Steel flg. No O-R. (Item No. 2758)	Used	\$350
6" ASA-ISO-63 SST braided bellow flexline 5ft. lg. No O-R (Item No. 2754)	Good Used	\$375
8" ASA SST bellow w/ braid 16ft 11in L. 1rot flg, No O-R (Item No. 2901)	Used	\$2,400
8" ASA x 8" ID SST bellow nipple. 14 1/2" L. Both stl flg. Rotatable. No O-R. (Item No. 2836)	Used	\$400
8"ASA x 9" id SST bellow nipple 9"L STL flgs, No OR (Item No. 2838)	Used	\$400
49) <u>FLEXLINES-Conflat.</u>		
1 1/2"d x 3.3"l, 2 3/4" CFF, SST bellow flex line. MDC 150-X. (Item No. 2609)	Used	\$65
1 1/2"d x 18"l, 2 3/4" CFF, SST braid/bellow flex line. MDC FRL-150-18F2. (Item No. 2613)	Cleaned & Tested	\$150
1 1/2"d x 24"l, 2 3/4" CFF, SST braid/bellow flex line. MDC FRL-150-24F2. (Item No. 2615)	Cleaned & Tested	
1 1/2"d x 36"l, 2 3/4" CFF, SST braid/bellow flex line. MDC FRL-150-36F2. (Item No. 2617)	Good Clean	\$200
1 1/2"d x 48"l, 2 3/4" CFF, SST braid/bellow flex line. MDC FRL-150-48F2. (Item No. 2619)	Used	\$250
3 3/8 CFF x 2"d Flex Nipple 4 1/4l. MDC 200-X. (Item No. 2686)	New	\$175
6" CFF Bellow nipple SST. 7 1/2"lg. Huntington VF-405. (Item No. 2738)	Unused	\$350
6" CFF SST bellow w/ braid. 72" L. 2 Rot flgs (Item No. 2895)	Very Good	\$850
6" CFF SST bellow w/ braid 108" L 11ft 1 rotatable Flg	Very Good	\$1350
6" CFF X 6 1/2 Lg bellow nipple. (Item No. 2797)	Fair	\$95
6"CFF Bellow nipple SST 7 5/8"L MDC 400-X (Item No. 2740)	Used	\$300
8" CFF x 7 1/2 lg bellow nipple. SST (Item No. 2822)	Used	\$350
MDC 16 1/2" CFF - 14" CFF Welded bellow nipple 6 1/2" lg. (Item No. 2863)	Cleaned & Tested	\$1,450
50) <u>FLEXLINES-ISO NW-63 & larger.</u>		
3" NW-80 Bellow 18" L (Dented) (Item No. 2694)	Cleaned & Tested	\$100
4" NW-100 Flex nipple 7" L Temescal 0717-4603-0 (Item No. 2700)	Unused	\$300
NW-100 x 20" lg. 4" SST thk. wall bellow w/o braid (Item No. 4726)	Unused	\$225
NW-100, approx 2' long, heavy wall (Item No. 4801)	Unused	
NW-63 x 20" lg. 3" SST thk. wall bellow w/o braid (Item No. 4774)	Unused	\$200
NW-80 x 5" lg. flex bellow nipple. 3" ID. SST (Item No. 2696)	Cleaned & Tested	\$200
NW-80, approx 2' long, heavy wall (Item No. 4927)	Unused	

Item	Condition	Price
51) FLEXLINES-KF NW-50 & smaller.		
NW-16x 1/2 SSt Bellow Flexline 3 1/8 long (Item No. 2574)	New	\$50
NW-25 1" bellow flexline 7' lg. Shrader (Item No. 2578)	New	\$150
NW-40 1 1/2 bellow flexline 68" L w/ braid (Item No. 2585)	Used	\$175
NW-40 1 1/4 bellow flexline 3 1/2" (Item No. 2587)	Used	\$45
NW-40 1 1/4 bellow flexline 4 1/2" (Item No. 2589)	New	\$55
NW-40 1 1/4 bellow flexline 5" (Item No. 2591)		\$55
NW-40 1 1/4 bellow flexline 10" (Item No. 2593)	Used	\$60
NW-40 1 1/2 bellow flexline 10" heavywall. (Item No. 2595)	Used	\$60
NW-40 1 1/2 bellow flexline 18 (Item No. 2597)	Used	\$70
NW-40 11/2 bellow flexline 68" L w/ braid (Item No. 2599)	Used	\$300
NW50 2" bellow flexline 40" L-H 86806 (Item No. 2607)	New	\$150
NW50 2" bellow flexline 18" (Item No. 2603)	Used	\$80
NW50 2" bellow flexline 20" L-H 86796 (Item No. 2605)	New	\$150
NW50 2" bellow flexline 10" (Item No. 2601)	New	\$95
52) FLEXLINES-Misc.		
1 1/2" ID wire reinforced PVC tubing Vardex 1400364-100, \$8/ft. (Item No. 4919)	New	\$8
1 1/2"d x 18"l, 1 1/2" ENDS, SST braid/bellow flex line. MDC FRL-150-18. (Item No. 2611)	New	\$150
1/4-5" dia. SST formed bellows, misc lengths in stock, please call for details and price (Item No. 4720)		
2" 37 Female flare SST bellow w/ braid 72" L. 150 PSI (Item No. 2893)	Used	\$325
2" 37 Female flare SST bellow 36"L w/ braid, 150 PSI Working (Item No. 2884)	Used	\$200
2" 37deg Female flare SST bellow w/ braid 48" L. 150 PSI (Item No. 2886)	Used	\$250
2" ID wire reinforced PVC tubing Vardex 1400406-100, \$10/ft. (Item No. 4630)	New	\$10
53) FURNACES & KILNS-Atmospheric.		
Astro A100 SF48 1100 ⁰ C max 110v ends 1258w/ center 1530 4"ID x 26L w/multi tube no controls	As-Is	\$750
Astro A 399 6 3/4" ID X 40"l. 1315 deg C 230V 13000W 1 ph.open element (Item No. 326)	Poor	\$200
Astro A289S tube furnace. 6"d x 36"l w/ceramic tube 4"ID x 36"l. 1200 C max.	Very Good	\$1,950
Kanthal A1 element w/shunt taps. 208V/I 8750W, 1PT TC. No controls. (Item No. 324)		
Cress C401TCZ kiln 5 1/2 h 6 1/2 w 9d 2250deg. F max 115v 14a w/ controls	As Is	\$600
Lindberg 54231-A 2 1/8 x 12 heated 1350 deg. F max 115/230 v 1300w I/C tc. Dropped-1 end bent Hotzone fair. No PS	As Is	\$100
BTU Engr. 4"w x 2" h Transheat Mod. IQ-3-41-578 belt furnace. 5 zones 1200 C 15'/overall.Eqpt No. MCS-2 S/N 0272. 208V/3,50A, 13.6KW. (Item No. 339)	Used	\$3,250
Electro-Applications Inc. 3" dia x 48" lg clam shell tube furnace. 3 zones 900 or 1248W 208V Rain damaged. (Item No. 300)	Fair to Poor	
Fisher Micro Combustion Tube furnace. Clam-Shell 1/2"s x 8"l. Variable XFMR in cast iron base. (Item No. 269)	Very Good	\$145
Gordon Piatt F22-G0-600, Natural gas/Oil burner, 42,000,000 BTU/hr. 255 gal/hr, # 2-6 oil, MFG. 7/94, \$35,000 new. 2 units available, 460V/3ph/73A (Item No. 4817)	Unused In Box	\$10,000
Hevi-Duty 86 4" D x 5" Dp pot furnace 1850 F, 115/230V, 725W (Item No. 304)	Poor	\$65
Hevi-Duty MU-3024 Clam-shell tube furnace. 3"d x 24"l hotzone with 3" O.D., 5/32" wall x 13"l Mullite tube.1850o F. Cont., 1950o F inter. 3400 W 115/230V 1 ph. (Item No. 290)	Used	\$650
Hevi-Duty 02712-PT, 1 1/2"ID x 24" tube furnace. 15" hot & ends w/cool. 8-globar elements. 2600 F (1425 C) max 230V 3500W. Pt TC. Pyrometer. Crude Manual Control (Item No. 278)	Good	\$750
Kieth KKG-101016-2750 Kiln. 2750 F. 10"h x 10"w x 16"d, Si-Carbide elements. 15 KW 480V/3. L & N Cont. with On/Off control mercury relays. Type R Pt. TC. Auto xfrm & tap SW. (Item No. 221)	As Is	\$6,000

Item	Condition	Price
L & N 9009-A-4-230 thermocouple calibration kiln. 1000 ⁰ C 4"d x 32"dp hotzone, recorder-controller & SCR 230V/I. (Item No. 219)	As Is	\$2,750
Lindberg 55453 fixed tube furnace. 4 1/2"d x 30"l with reducer plugs in each end for 3" tube. 1100 ⁰ C max, 240V 3 800W 1 ph 50/60Hz. 58121 control bottom 240 V 3830 W 16A. 3 zones with Pt TC's that stick 1/2" into 4 1/2d. 100 deg. C min.. 2 tone tan (Item No. 312)	Very Good	\$3,000
Lindberg 54657 5" ID x 36" l clam shell tube furnace, 1200 C, 24" heat. 7Kw 240V, 59754A Bottom control 120/240V w/3 Erotherm 919 pulse-out controllers. 90A 2 P breaker (Item No. 4681)	Good Used	\$2,750
Lindberg 51333 ATM box furnace. 5" w x 4" h x 12" dp. 1500o C hotzone. 4500W 230V 1 ph. R-I Thermac 6000 control & SCR W/Pt TC. Needs 3 elements, & Door plug R-I FGE-5110 drum programmer. 200 deg. C. min. blk/blu (Item No. 211)	As Is	\$1,950
Lindberg 59344 Control/Base. 200-1200o C controller, CH-AL TC. 40A 2P CB 120/240V. (Item No. 331)	Good	\$550
Lindberg 59344 Control/Base. 200-1200o C controller, CH-AL TC. 40A 2P CB 120/240V W/ platinel 2 oven temp control.	Good	\$550
Lindberg 54231-A 2 1/8x12 heated 1350 F mot 115/230V 1300W i/c tc. Dropped – 1erd bent Hotzone fair, No Ps	As-Is	\$100
Lindberg 55451 4 1/2"d x 30"L tube furnace 0-1200 C, Ch-Al TC. 3830W 240V 16A with 58121 control console 240V 16A. 1 zone control Tan (Item No. 308)	Good	\$2,350
Lindberg 59744 3 zones Temp Controller (Analog) bottom only Platinel #1 TC pyrometer 1250 C/2500 F 208-230V (Item No. 333)	Good	\$750
Lindberg fixed tube furnace. 3" ID x 27l hotzone. 36" O.L. 23 1/2w x 39 3/8l x 15 3/4h. 3 zones 1000 C controlled by SOLATHERM DIGITAL Controller 400-1400 C range Type R pt 13% Rh/pt TC. Lt. Grn./gry. (Item No. 294)	Very Good	\$2,500
Lindberg kiln, mod#51442, 7 3/4" w x 5" h. x 16" d., 1200deg C max, 4880w, 120/240v, 1ph, use control base 59344 above (Item No. 4484)	Used Good	\$2,000
Lindberg kiln, mod#51442, 7 3/4" w x 5" h. x 16" d., 2200degF max 4900w, 120/240v, 1ph	Used Good	\$2,000
Lindberg M-200 Mark II Diffusion Tube furnace type TKT336246-F. Dual 3"d x 40"l holes. 1300 C. Type R TC, L&N 5" max H multipoint recorder. 208V/3Ph/6000W (Item No. 298)	Good	\$2,250
Lindbergh 51333-6, Atm. box furnace, 6"Wx51/4"Hx 12"D 1500 C SiC elments, 208V 4500W w/ 59545-B-C4 control bottom w/ Type R OT pyrometer and 0-1500C Sola Controller. L & N trendtrak prgm. Needs door plug. (Item No. 213)	Good	\$2,150
Lindbergh Split hinge Tube Furnace #55322-3. Max temp 1200 C 120/240V 2675W. 4 1/2 " tube max 2 1/4" bushings; 12" Heated lg. 58114 Type K TC w/ Eurotherm type 818 temp controller (Item No. 310)	Excellent	\$1,750
Lindbergh, 55035A Tube furnace 1" x 12" 230V, 800W, 1850F (Item No. 271)	Fair	\$175
Marshall 1237 4" ID x 32" Lg. Tube Furnace. No tubes, TC or Taps 112V, 6.1 KW. 64A 2200 F max (Item No. 306)	Fair	\$350
Marshall 1137 2 1/2" ID x 24" Lg. Alumina Tube Furnace. 208V, 2.5 KW. 1 Ph. 2200 F max w/ 20 shunt taps. (Item No. 286)	Good	\$500
Marshall 1 1/2" ID x 20" l tube furnace. Sliding covers on ends. 1300 C, 25 V, 45 A, 7 taps. (Item No. 276)	As Is	\$1,000
Marshall 3903 3" ID x 24" Lg. Alumina Tube Furnace. 208V, 2.3 KW. 1 Ph. 2000 F max w/ 20 shunt taps. (Item No. 288)	Good	\$600
Ohio thermal tube furnace. 2" I.D. x 18"lg 1040W 115V. 1100 C. Bad Element (Item No. 282)	Poor	\$100
Planchets Chelsea Kiln 9"H x 12"W x 10"D 110V, 800W Kiln 9"H x 12"W x 10"D 110V, 800W (Item No. 227)	As Is	

Item	Condition	Price
Thermco SB-18 SOUR 4 1/2" ID x 16" . 120V, 3.5 KW, 1000 C max. 3 Zones & 3 type K TC (Item No. 314)	Fair	\$350
Thermcraft. 5-15/12-24, 4 zone, clam tube furnace. 23,000W 230V 1 ph (Item No. 318)	Fair to Poor	
Thermcraft 5-21/12-18 4 zone clam tube furnace. 20,500W 230V 1 ph. (Item No. 320)	Fair to Poor	\$250
Unk. 3 1/4" ID x 34" Dp Hotzone. 12" D x 34"H OD. 4 elements. Specs unknown (Item No. 302)	Good	\$200
Unk. Mfg. 8 3/4" ID x 42" Lg. x 14" OD. 4 elements- specs unown. Epi-tube furnace. (Item No. 329)	Unused	\$395
Unk. Tube Furnace 1 3/4"OD x 24"L.10"x10"x15"L Aluminium box w/ fiberfrax insulation 115V (Item No. 280)	Good	\$150

54) FURNACES & KILNS-Vacuum.

30" h x 24" w x 26" dp, dbl wall SST box chamber, 23" h x 16" w x 16" dp hotzone w/0.25 d moly rod elements. pt. TC, Alum. Door w/water F.T. to copper back plate of door elements. 2" shuttered V.P., 10" ASA pump port in rear cham., 16" ASA quench port in bot., 2" ASA rough port w/VRC valve, no DP, MP, main valve, LN trap or controls, SABAN 80 KVA, 440V, 3ph. Sat. reactor P.S. w/cables. [JH] (Item No. 4921)	As Is	\$21,500
VAC. IND./Centorr series 3500 15"Wx15"Hx60"lg 1650 ⁰ C hotzone with 1/4" moly elements & moly Shields. 36"Dx84"lg steel chamber w/water jacket and full opening doors on both ends. Quick cool fan on one end. Vacuum system has a 16" SST poppet valve refrig multi-cooling trap and Varian HS-16 DP. VRC rough & fore valves and Stokes 212 h-11 mech. Pump. 480V. 3ph. Honeywell DCP-700 temp control & chart recorder. GP 270 ion/tc gage, vacuum map and controls in 1 bay rack	As-Is Rebuilt	\$60,000 \$95,000
Applied Fusion vacuum furnace approx. 24"Dx24"H vertical w/c copper coldwall. Lid is raised by an air cyl. No power supply or pumps. 4ea 4" ASA flanges on side with hi current FT. 5ft Dia. x3ft D (2' straight) ST chamber w/full opening door that rolls out on tracks. 4" ASA port indoor. 6" ASA Pump port out rear. Nice chamber to build you own furnace	As-Is	\$8,000
Allied Engr Hi Temp Vac. Furnace 2"d x 7"H tungsten mesh element and Cu cold wall. 6"CFF loading port w/ 2" Vp. 10"ASA sump flange. 8"CFF pump port for Varian 911-6015 140 lit/sec ion pump. 8" CFF HVA main valve. & 8" CFF on bottom. Two W/C Hi-Curre (Item No. 350)	As Is	\$9,500
B.H. inc Vacuum Furnace. 70.5 ID x 68.51 (ST length) Full opening door with 6" domed heads. Graphite hotzone. 2000o F. With transformers & control panel. Rain damaged. No pumps. (Item No. 368)	As Is	\$12,500
Brew 834vacuum furnace. 3'w x 3'h x 4'd Graphite hotzone. 24000F. 310KVA 460 V saturable reactor P.S. Stokes 1722 blower Pkg. NRC 20" D.P. W/Gas cooldown blower. Needs electrical controls. (Item No. 366)	As Is	\$55,000
Graphite Hotzone Furnace 6"d x 8" h, Graphite wool insulation. Mfg Unk., 16" d x 19" h W/C SST chamber W/C Al cover 1/4" air release TC port. 1" pump port. Mounted on 271/2" x 36" Al top table 32" h. No P.supply controls or pumps. (Item No. 364)	Good	\$4,250
Hetherington/Varian UHV Vacuum furnace. 14" dia x 48"hi tungsten mesh element. 2500 C w/ 12" x 36" Hot zone.. 480V 3 ph .5 x 10-e8 @ 1800C. 480 KVA saturable reactor P.S. All CFF and wheeler flange SST W/C chamber. Ion , TSP & Turbopumped. Could b (Item No. 354)	Very Good	\$80,000
Marshall 55WD 2 3/8" ID x 19" Hi Vacuum tube test furnace 110V, 22A, 2200 F max (Item No. 374)	Fair	\$750
NRC 3317/Marshall 6" x 32" muffle furnace with 4 1/2" x 48" vacuum retort. 6" manual DP stack. 2400 F SCR, temp & vacuum controls. No MP. (Item No. 372)	As Is	\$8,500
NRC/Marshall 3" x 50" Mullite tube vacuum furnace. 4" manual DP stack. 2800 F SCR, temp & Vacuum Controls. No MP. (Item No. 370)	As Is	\$5,500
Pyromet Vacuum Furnace. 1250o C 24"d x 24"h Moly hotzone with tantalum strip elements. Temescal 10" gate valve, 90o SST LN Trap,CVC BC-101 water baffle, NCR HS-10 10" DP. L-H DK-180 106 CFM MP, 100 KVA, 480 V, 3 Ph saturable reactor controlled P.S. 4 (Item No. 360)	As Is	\$17,500
SRI Vacuum hotpress furnace. 3 1/2" d x 7"h graphite hotzone. 8" ID x 16"h SST water jacketed chamber. CHA 4" manual SST pumping stack w/LN trap. Dresser 4" ASA DP. 1-1 1/2" VP. 1 1/2'd bottom and 3/8"d top press rods driven by ballscrews. 2 hi- (Item No. 362)	As Is	\$5,000

Item	Condition	Price
CENTORR 15-2x3-H-A-VPO-O-A-25 S/N 15-2259, Sintering Furnace by CENTORR & Controls by LBL. 2'dx3'h Tungsten mesh element. 7'd x 6 1/2" SST w/c Chamber. Temescal 4" ASA solid body manual aluminum Gate valve. 1 1/2" Varian air op 90 deg Fore and rough valves. Varian 4" ASA LN trap and VHS 4 Diff Pump. No MP. 480V, 1PH 30 KVA trans, SCR control and size 3 contactor. Separate console w/ Vacuum controls, meters, furnace controls & ramp control.	As Is	\$17,500
Varian 936-1000 UHV furnace. 4"d x 8"h Tantalum element, copper W/C coldwall. 18"d x 21"h SST chamber 0-16000C. 8 KVA G.E saturable reactor 480V 1 ph power supply. 500 l/s Varian ion pump, TSP & Vacsorb rough. Can be modified for turbo or cryopump (Item No. 352)	Very Good	\$26,500
Varian UHV hi-temp vacuum furnace with 4 hotzones. 36"d x 24"hi SST W/C wheeler flange chamber. 4 magnetic shuttered VP. 18 2 3/4 CFF ports. 400 L/S triode ion pump and PS. Two 1"d x 8"hi tungsten mesh elements with copper coldwalls, W/C feedthrus, 3 (Item No. 346)	As Is	\$35,000
NRC 2966 12"hx12 3/4" w x 43"lg 1200 ⁰ hotzone with 3 ea 1/4"d moly elements. 3 moly & 2 SS shields in hotwall enclosure. 26 1/2 IDx49" lg. SST W/C cham w/2 full opening doors. 3" vp. 71"Wx 58"Dx85"H overall. 6" ASA gatevalve Ln trap and VHS-6 DP. Omega controller and L&N Recorder. 480V 3ph w/100A main. Robicon SCR power control for 40KVA furnace xfmr. Ion/Tc gage and valve controller. Call for more complete spec	As-Is	\$27,000
Vacuum Industries Vacuum Furnace. 15 1/2" Dia x 17 1/2" H, ID SSt water jacketed chamber. Has 4 FT but no hotzone. 1 1/4" VP & shutter 6" VRC Aluminum valve, refrigerated trap, Varian VHS-6 DP, & Welch 1397 17CFM MP 56"Wx33"Dx48"H Sloping front cabinet w/vac map & controls. 480V, 3ph, 60A main breaker. No vacuum gages, element volt & ammeter, No furnace transformer or control SCR's Good bones to rebuild	As-Is	\$4,250

55) GLOVEBOXES-Atmospheric.

24" OD x 19" ID x 13" h. plexiglass glove box with 1 1/2" thk. Cover 4 glove ports, 5 1/2" ID x 16" l. plexiglass load lock to 17" x 21" x 10" hi flanged steel box - cover missing, Hydrox. 8301 purifier (Item No. 4655)	Fair	\$1,750
32" h x 44" w x 24/30" d Vacuum Atm. HE-43-2. Alum. 2 port glovebox. 15" d x 30" l, HE-533 vacuum oven w/6" ASA port on bot., 11" d x 28" hotzone with Calrod element & 2 shields on L. side, 15" d x 20" lg. Unload-lock on R. side. Mtd. On caster cabinet. No oven controls or MP. (Item No. 5086)	Good	\$9,500
32" h x 44" w x 30" d Vacuum Atm. HE-193. 15" d x 20" l vacuum oven. 200 C, 208/230V, 20A, 1ph, w/OC-3 controller. PC-1 gas cleaner. VTB- 15x24 vacoven 0-200C (Item No. 5085)	Good	\$8,500
Drybox 24" w x 24" h x 18" dp. Formica box plexiglass front & back doors. two glove ports /w lites. (Item No. 530)	Good Used	\$450
Drybox 40" l x 24" dp x 24" h SST w/ white epoxy coating. 20" l x 24" dp x 22" h load chamber. Sloping front w/ 2 gloveports. 2 lites w/ vapors proof wiring.. 2" ASA flg port inlet & 5" ventline w/ filter (Item No. 526)	Good Used	\$2,500
Labconco fiberglass 2 gloves 3' w x 2' h x 2' d w/load lock,has light (Item No. 4982)	Needs Work	\$1,000
Plexiglass 2 door glovebox for 2 gloves, 24" x 24" x 18" dp, no load locks (Item No. 4850)		\$450
HE-493 120V,5A, 1ph. PC-1 O2A Analyzer-gas control 120V2A.		POR
HERAEUS type T UF-50/60 -230, Fabr. NO 4190-00 D-6450 HANAU order no. 500154 52 PFW 214-00-130 1988 230c 208/3ph W/N 60hrz 121KW 36A CONN. LOAD, 13.75 KVA wiring diag. 23231527. 2Hpfan.		

56) GLOVEBOXES-Vacuum.

24" id x 49" d SST, Varian M6 DP, CVC BCN Ln2 trap, manual valves, Two 6" viewports & 2 gloveports, two full opening doors, misc. flgs. no controls or MP (Item No. 4514)	Used	\$9,500
Torr Vacuum Products Mark VIII-A SST Vacuum welding glovebox. 4' w x 3' h x 7' l. Full opening door. Four pairs of gloveports. 12 x 12 x 14l loadlock. Refrigerated internal gas cooler. Roots 2507, 300 CFM blower, Precision PS-1500, 53 CFM 2 stage MP (Item No. 528)	Very Good	\$30,000
20" dx 12" h alum glovebox. 2 glove ports w/removable blanks. 24" dx 1 1/2" plexiglass on top. Two 5" and one 8" Plexiglass ports. One 8" dia port w/ plug.	Good	\$2,450

Item	Condition	Price
57) <u>IMPREGNATORS & ENCAPSULATORS.</u>		
9"d top x 12"d bottom x 15"h Nautilus (Rivited seam) paint pot w/6-1/2" dogs. 2-1/2" and 1 (Item No. 430)	Good	\$145
Degassing test sustem. 15" d x 14" h B.J. nad gard. 20" dia Ni plated steel, BP main valve 7 elec feedthrus. Edwards ES-150, 5.3 cfm MP, 1/3 HP, 115V motor, 23" x 27" x 38"hi cabinet (Item No. 443)		\$1,500
Degassing station 11" id x 12"H Glass Belljar. 14"x14"x 16"H Al guard. 14"x14"SST BP on a 2' xWx 3'L x 34"H rubber tired push cart. Welch 1402 5.6 cfm MP, valves and gauge. (Item No. 425)	Good Used	\$1,950
Paint Pressure Pot 8 1/2" ID x 10" H 60 PSI 4 ea. 3/8 - 16 dogs. Steel pot. Cast Iron top. (Item No. 428)	Good	\$125
Redpoint (EpoxyLite) ESL-1415-C5 Encapsulator, 14"Dx 15"H steel main Vac/press (100psi max) chamber w/2 V.P. 10"dx14"H Steel degassing/mixing chamber w/ 2 VP and gear motor drive. Hastings VT-4 vacuum gauge and (2) Omron E5C4 digital heat controls. Flexlites on both chambers, no vac. Pump or internal tooling, refurbished \$15,500 (Item No. 447)	As Is	\$12,500
Redpoint (epoxyLite) ESL-3030-C50 encapsulator. 30" d x 30"h steel heated tank, 100 psi max w/ VP, lite, vac gauge and controls. 5 gal side loader epoxy mix tank w/ motor stirrer. (2) epoxy component load tanks, Welch 139 (53 cfm) (Item No. 464)	Unused	\$40,000
Redpoint ESL-2424-C15 encapsulator, 24" d x 24" h STL heated tank w/control & vac. Gauge epoxy mixing tank Welch 1397 MP 115/230V 35A (Item No. 4597)	Very Good	\$25,000
Shrader Impregnator-STL, Vacuum only. 48" w x 36" D x 36" Hi inside. Top Door is spring counter balanced and has one 4" VP, One 4" blanked port and one KF-40, 1 1/2" port. Rear has a KF-50 2" port and bottom one KF 40, Front has two 8" gloveports-blank and one 5" VP. Chromalox heating element. No controls, front panel missing. Mounted on 4" caster cart.	As-Is operational	\$4,000 \$2,500
Leybold D60A, 2 stage, 36 CFM MP and WA-250, 164 CFM blower mounted on iron frame 1.5 HP 230/460v	Both chamber and blower	\$6,000
Vacuum degas station, 20" SST B.P. w/1 3/4" and 4" hole, 3/4" & two 1 1/2" brass valve manifold table 24" x 38", no BJ or MP (Item No. 4818)	As Is	\$500
Vacuum Degas system Mfg. Unk. 18" SST Folded collar, 20" d top flg, 5 1/2" h w/ 12 ea 1" ports, 20" SST BP w/(10) 1" holes & 2 roughing ports. SST cover(hinged), Temescal 1 5/8" roughing and 3/8 air release valve w/ solenoid, 1 5/8 Mol. siev_ trap w/pur (Item No. 455)	As Is	\$1,950
58) <u>ION PUMPS & PARTS.</u>		
GP Orbion 287-009, Mod. 00 S/N 389. (Item No. 1153)	Used	
High voltage cable assembly with molded 90o plug for .15 L/S appendage pumps. 8 ft. RG-59/U 82C cable with MS connector. (Varian 924-0120 equiv.). (Item No. 3841)	Good Used	\$195
High voltage cable assembly with 1 1/8 OD repairable aluminum shell connector for standard Varian 3846 (Item No. 3843)	Good Used	\$175
Hughes approx. 100 L/S (No elements). W/8" CFF, magnets, heaters & 2 HV FT. Two VPC-125.Ion pump controls (1 missing xfmr) & HV cables. 30 yrs old. (Item No. 1142)	As Is	\$500
P-E 221-377-800 Hi-throughout W/C w/magnet. 11 L/S (Item No. 1120)	Unused	\$1,250
P-E 8" CFF 4 Htr wells, 100 l/s D-I, 4 element & magnets (Item No. 4779)	Rebuilt	\$2,400
PE 207-1065 60 lit/sec Ion pump 8" CFF (Item No. 1122)	Rebuilt	\$2,250
Special length and bakeable high voltage cables made to order. Also P-E/Ultek high voltage cables with crimped 5 & 10 KV Kings connectors. (Item No. 3851)	New	
Ultek 20-095 8" CFF, 4 Htr wells, 100 L/S std. & magnet. (Item No. 1136)	Used	\$2,250
Ultek 8 L/S D-I with magnet. (Item No. 1104)	Rebuilt	\$550
Varian 929-0770 H.V. cable for Varian 919-0110 22 L/sec Star cell w/ SST flex line & Fischer connection. (Item No. 1114)	Good Used	\$225
Varian 0.2 l/s diode pump, 3/8" pyrex tube, not processed (Item No. 4926)	Unused	\$200
Varian 220-270 L/S pump bakeout shroud. (Item No. 1134)	Used	\$250
Varian 4-20" cells 1-End 250 L/S diode & magnet. (Item No. 1138)	Used	
Varian 911-5041 Hi-Q W/C. (Item No. 1118)	Rebuilt	
Varian 911-5408 4-30 1/2" cells 1-End 280 L/S body only. (Item No. 1140)	Used	
Varian 911-0030 8 L/S Red magnet package. (Item No. 1108)	Good Used	\$200

Item	Condition	Price
Varian 911-5005 8 L/S Diode - No Mag. (Item No. 4430)	Good Used	\$125
Varian 911-5005 8 L/S Diode - No Mag. (Item No. 1106)	Rebuilt	\$350
Varian 911-5034 60 L/S triode & magnet. (Item No. 1124)	Rebuilt	\$1,750
Varian 911-5032 30 L/S Triode & magnet. (Item No. 1116)	Rebuilt	\$1,000
Varian 911-5031 20 L/S triode. (Item No. 1110)	Rebuilt	\$675
Varian 912-6003 80 L/S diode & 3-section magnet. 6" CFF. (Item No. 1126)	Rebuilt	\$1,450
Varian 912-7008 270 L/S diode ion pump w/ magnet 8" CFF	Rebuilt	\$3,150
Varian 912-7014 220 l/sec Triode Ion pump w/ magnet (Item No. 1132)	Rebuilt	\$3,800
Varian 912-7016 500 l/sec Diode ion pump w/ magnet (Item No. 1147)	Rebuilt	\$5,500
Varian 912-6019 2-End 500 L/S diode & magnet. (Item No. 1149)	Unused	\$3,500
Varian 912-7022 400 l/sec Triode ion pump w/ magnet (Item No. 1145)	Rebuilt	\$4,500
Varian 913-0035, 2 L/S diode pump. 3/8" 180o copper tube. Vac processed. (Item No. 1102)	Unused	\$275
Varian 913-0034 2 l/s diode pump, 3/4" 7052 glass tube, 1 1/2" dia. round body, not processed (Item No. 4724)	Unused	\$200
Varian 913-0038, 0.15 L/S diode pump. 3/8" 180o SST tube. Mini CFF. No Mag (Item No. 1100)	Used	\$225
Varian 913-0037, 0.15 L/S diode pump. 3/8" 180o copper tube. Not processed. (Item No. 1098)	Unused	\$225
Varian 913-008 1 l/s diode pump, 3/4" SST tube, rect body, not processed (Item No. 4651)	Unused	\$200
Varian 913-007 1 l/s diode pump, 3/8" copper tube, rect body, not processed (Item No. 4757)	Unused	\$200
Varian 915-0028 50/80 L/S pump bakeout mantle. 1 kW 115 V (Item No. 1128)	Used	\$145
Varian 917-0016, Ivory rack for star cell supply. (Item No. 3837)	New In Box	
Varian 919-0048 30-60 L/sec Starcell pump, Bakeout heater, 120V, 200W (Item No. 1151)	New	\$250
Varian 919-0110 22 L/sec Star cell w/ ferrite magnet (Item No. 1112)	Good Used	\$900
Varian 919-0103 65 L/s Star cell Vacion Plus 75. w/ Italian made H.V. Conn.	New	\$2,000
Varian 921-0063 rack for 921-0080 star cell supply, Lt. Green (Item No. 3835)	Good Used	\$250
Varian 924-0749 HV cable assembly W/moulded H.V. ion pump conn. (Item No. 3846)	New	\$200
Varian 924-0749 HV cable assembly with MS connector. Varian 924-0750 equiv. (Item No. 3848)	New	\$250

59) LABORATORY EQPT.

Ametek Thermox I oxygen analyzer 0.1 to 100,000 PPM, looks good (Item No. 4945)	As Is	\$500
Bel-art F-42027 clear plastic desiccator. 9.44"d x 8.12.24"h with 3-way valve & o-ring seal. Holds 1 gal paint can. (Item No. 418)	New	\$85
Bel-art F-42012 clear plastic desiccator. 5.86"d x 8.11"h with 3-way valve & o-ring seal. (Item No.415)	New	\$45
Matheson Hydrox purifier Mod 8301 w/6" dx6"h plexiglass canister		
Forma Scientific "Masterline" 2095 bath and curculator A/C w/ heat and cool.		\$500
Bel-art F-42022 clear plastic desiccator. 7.75"d x 10.25"h with 3-way valve & o-ring seal. (Item No.4691)	Used	\$60
Brucker Cryomagnet for NMR Spectroscopy BZH 200/89. A product of Spectrospin & Oxford Insts. Dewar no D101/89/213, Field 4.7 Tesla. Coil No. BZH 2520 120 B. Current 48.2A.		POR
Centorr 2B-100-120V Gas Purifier. 10-50 Ar, 20-140 He, 0-1000C meter (Item No. 3034)	Used	\$400
Delta-F Type A Plus Oxygen Analyzer WOBURN, MA 617/935-4600 W/ Manual	Unused	POR
Dessicator cabinet SST 17" x 24"w x 20" d. (Item No. 4909)		
Dessicator, Glass 6" ID x 6" tall. 3/8" pump port on lid. (Item No. 4765)	Used	
Dessicator, Glass 8" ID x 8" tall, 3/8" pump port on lid. (Item No. 2550)	Used	
Drum recorder, Calcomp 565. (Item No. 4329)	As Is	\$250
Dupont LNCA II LN/He dewar SST approx 25Lit (Item No. 1094)	Used	
EKG, Marquette C-205 patient transmitter. Ampex AG500 tape recorder, classical Vector patient cable. On wheel cart. (Item No. 4327)	As Is	\$1,950
F & M Mod 609 Flame ionization gas chromatograph. (Item No. 3030)	As Is	\$600
Fischer Sci Titration Burette Model 455, Cat # 9-313-455, 115V (Item No. 4319)	Good	\$1,250
Fischer Sci. Titration Stirrer Model 460, Cat # 9-313-460, 115V (Item No. 4321)	Good	
Fisher 605 Incubator. 17 3/4" x 17 1/2" x 25". 5 ft3 55 C max. Water jacked w/CO2. (Item No. 247)	New	\$2,750

Item	Condition	Price
Freeze Dryer. Virtis 10-146 MRBA. 208/230 V, Tecumseh Refrig. Hyvac 14 MP, gaging. (Item No. 205)	As Is	\$850
Freeze Dryer, Labconco Mod. 77520, LYPH-LOCK 6. No MP, 115V 9.1A (Item No. 4824) D4 MP. 23" x 46" x29" Hi table top mounting (Item No. 203)	As Is	\$3,000
Freeze Dryer, Labconco 3 Mod. 75200, 3 liters (Item No. 201)	As Is	\$1,950
Freeze-Dryer FTS system FD-4.5-90B Max-Dry S/N FD-7-88-69, 230V 6A 60 Hz 1 ph. 18 ea 1/2" dia vac tubes on 4" od x 40" L plexiglass tube 100C pyrometer. Hastings VH-3 TC gauge. Leybold	Good	\$4,500
Gas chromatograph Tracor MT-222 S/N 085-76. DBL sensor cell, no sensor tubes. (Item No. 3024)	As Is	\$750
General Electric 15EHG 2B1 Hydrogen Gen s/n R0903. 0-225 CC/min STP output. 115V 200 VA 13d x 11w x 12h. Mfg Dec 79 . (Item No. 4832)	Used As Is	\$500
He-LN Dewar, Superior Air Prod. H25 292. 20" OD x 20"h SST cylindrical container w/10"h cone top.3' tall to top of spout. Vent & fill tube. (Item No. 1225)	Good Used	\$400
Hiac/Royco 247 particle counter w/ printer 2 channel w/ 244 sensor head (Item No. 4313)	Used	
HP 5880 A Gas Chromatograph with 5880 A series GC terminal, LEVEL FOUR.		POR
HP 5700A/5712A Gas Chromatograph, 18714A Control, 5708A control, 5705A detector control,	As Is	\$1,000
HP 7090 A Measurement Platting system.		POR
5702A oven temp prgm (Item No. 3028)		
International Equpt. Model CL Clinical centrifuge. Needs testtube basket (Item No. 4309)	As Is	\$150
LN Dewar, 160-200 liter. (Item No. 1231)	Good Used	\$750
LN Dewar, Hofman Lab. E1034, 2350. 20" OD x 18"h steel cylindrical container w/17"h cone top. 3' tall to top of spout. (Item No. 1228)	Needs Repair	\$100
Metteler Balance B6, analog readout, calibrated in 1993, (Item No. 4220)	Good Used	\$1,250
Newport 259-KC 12 pos. type K (ch-AL) TC. digital read out. (Item No. 4901)		
PE Sigma 3B capillary chromatograph (Item No. 3020)	As Is	
Precision Sci. 61725 4"D hotplate 115V 450W, 100-700F thermometer 4 available (Item No. 4317)	Good	
Precision Mod 186 Cat # 66634 water bath. 28" x 16"x 7" dp SST tub. 100C max w/ thermostat, 120V, 9.4A, 1120W, 1 ph (Item No. 4331)	Used	
R.D. Mathis GP-100 inert gas purifiers. (Item No. 3032)	Unused	\$495
Toyo Baldwin Rheo-420 Hi Temp chamber/Furnace, small 130V 200 W 250C (Item No. 4339)	Very Good	
Vanzetti TM2 thermal monitor. (Item No. 4315)	As Is	\$475
VWR/Shell lab 1220 5 3/4x 11 1/2x 6 deep SSt fluid heater 120V 250W (Item No. 4323)	Good	
Wheaton Desicator 250 mm VWR 25015-325 w/ Si O-Ring 2-379 (11 x 3/16) and Al Plate (Item No. 423)	Excellent	\$200

60) LEAK DETECTORS & COMPONENTS.

12"d x 12"h Steel Chamber. 4-5/16 top dogs. Flat top. O-R in 5/16 chamber wall. 3"ID x 6"OD (Item No. 433)	Fair	\$125
Airco-Temescal (GE) LC-40, w/Welch 1376, 10.6 CFM MP, CVC PMC-2 DP. (Item No. 2908)	As Is	\$1,250
Balzers-HLT 100, turbo leak detector, TPH 170 turbo, Duo 004B MP, sold as is for \$6,000 (Item No. 4494)	Rebuilt	\$8,500
CEC 24-025 A test port. No pumps. (Item No. 2922)	As Is	\$800
CEC 24-101 A w/Welch 1400. (Item No. 2910)	As Is	\$950
CEC 24-120 B w/Welch 1400 MP & cart. Fire & weather damaged. (Item No. 2918)	As Is	\$1,500
CEC 24-120B w/Welch 1400 MP & cart. 24-038 test port & roughing station. Welch 1397, 17CFM M.P. (Item No. 2920)	Rebuilt	\$6,500
CEC 24-120 ABM w/Welch 1400MP & cart. Detects He, Ne & Ar. Missing diatron tube. (Item No. 2916)	As Is	\$1,500
CEC 24-120 B w/ Welch 1400 MP and cart (Item No. 2914)	Rebuilt	\$4,500
CEC 24-120 A w/Welch 1400 MP and cart (Item No. 2912)	Rebuilt	\$4,250
CEC 24-210 B leak detector w/Welch 1400 MP. W/Remote visual/audio box. (Item No. 2924)	As Is	\$1,500
CEC 26-303 Moisture monitor 10-1000 ppm F,S, Has cell (Item No. 2928)	As Is	\$500

Item	Condition	Price
Dupont 120SSA leak detector. 1400 MP, cart, 3-valve inlet manifold. (Item No. 2930)	Rebuilt	\$6,750
Dupont 141490 3 valve inlet (Item No. 2935)	Used	\$450
Dupont 24 036 2 Valve inlet (Item No. 2933)	Used	
Dupont/CEC 141430-8 Std. Helium Leak. 5/8" Female Quick connection. Re-calibrated by Wilson Glass. (Item No. 2941)	Rebuilt	\$275
L-H UL-100/500 Leak Det Dual thorated fil/ion sources #16504. (Item No. 2945)		\$375
Leybold 89600-2 quick test sniffer probe for ultratest for M2 leak det., 220V 16' hose (Item No. 4942)	Excellent	\$1,350
Leybold 89600-5 quick test sniffer probe for early UL-100 leak det. (Item No. 4943)	Very Good	\$850
Leybold QT-100, 15594 quick test sniffer probe assy. For UL-100, 220V 16' hose (Item No. 4944)	Very Good	\$1,600
Leybold Ultratest F. D4A & D16A MPs. 120V, 1ph. (Item No. 4642)	As Is	\$5,500
Leybold Ultratest M., no MP (Item No. 4591)	As Is	\$800
Leybold, UL-500, turbo pumped with DD pumps, 1500 original hrs. (Item No. 4978)	Rebuilt	\$18,500
Press/Vac helium bomber. 20"d x 10"h SST Belljar w/eight 1/2" dogs. 60 PSI max. Cabinet w/valves and gauges. No Pump. (Item No. 193)	As Is	\$2,750
Press/Vac helium bomber, 20" x 10"h SST BJ and BP, 60PSI 150F max. (Item No. 197)	As Is	\$1,350
20"d x 50"h 60 PSI 150F SST BJ for Press/Vac helium bomber. (Item No. 195)	Good Used	\$1,200
Ultek 60-412 ion pump leak detector (Item No. 4735)		\$950
Uson 510 Halogen, leak detector with portable case. With manual. (Item No. 2937)	As Is	\$750
Varian 0981-K3333-301 Preamp for spectrometer tube block in leak detector. (Item No. 2961)	Rebuilt	\$500
Varian 925-Manumatic. Complete. Varian Med & Dk. Green. (Item No. 2955)	Rebuilt	\$5,000
Varian 925-Manumatic. No pumps or spec block. (Item No. 2953)	As Is	\$750
Varian 925-40 Portatest. No LN With good homeade cart & Welch 1 402 5.6 CFM MP (Item No. 2949)	Rebuilt	\$6,000
Varian 925-20 portable vacuum system. Spectrometer tube, Welch 3150B air/cryo refig. in LN trap. 2" HSA A/C D.P. Welch 1400 MP, 2 valve, no electronics. (Item No. 2947)	Good	\$1,950
Varian 936-60 automatic helium leak detector (Item No. 4979)	Rebuilt	\$9,500
Varian 936-71 Auto leak det. No LN. ALC 2004 & SD-200. POR. (Item No. 5112)		
Varian 936-705P Auto leak det. No LN. POR. (Item No. 5111)		
Varian 936-70 Automatic helium leak detector. No LN 0.9 CFM Forepump, 5.6 CFM. Rough pump. Visual/ Audio indicator. Built in std. leak & air comp. (Item No. 2957)	Rebuilt	\$9,500
Varian 938-41 portatest, DP, cart & 7 CFM roughing pump. No LN. (Item No. 4768)	Rebuilt	\$9,500
Varian 947D Turbo pump leak detector. Two scroll pumps. No LN	Good	\$17,000
Varian 948 autotest, diffusion pumped with liquid nitrogen trap, DD pumps (Item No. 4980)	Rebuilt	\$17,500
Varian 975-0010 ion gauge leak detector. (Item No. 2965)	Cleaned & Tested	\$475
Varian 975-0000 ion pump leak detector. (Item No. 2963)	Cleaned & Tested	\$1,900
Varian LD-100 less pumps. (Item No. 2939)	As Is	\$650
Veeco MS-17AM manual leak detector with Welch 1400 (DP backing) and 1376 (10.6 CFM roughing) pumps. Visual/audio indicator. (Item No. 2973)	Rebuilt	\$7,500
Veeco MS-17AB auto leak detector with Welch 1400 (DP backing) and 1376 (10.6 CFM roughing) pumps. Visual/audio indicator. (Item No. 2970)	Rebuilt	\$8,500
Veeco MS-170 auto. leak det. with Welch 1400 & 1376 MP w/visual-audio indicator, sold as-is for \$6,000 (Item No. 4977)	Rebuilt	\$9,750
Veeco MS-17/170 printed circuit boards, POR (Item No. 4981)	Repaired & Tested	
Veeco MS-90AB leak det. W/visual-audio indicator, parts cleaned but no 1402 MP, sold as-is for \$2,000 (Item No. 4976)	Rebuilt	\$5,000
Veeco MS-9AB leak det. w/visual indicator, sold as-is for \$1,500 (Item No. 4975)	Rebuilt	\$4,000
Veeco MS-9A leak det. w/visual indicator, sold as-is for \$1,000 (Item No. 4974)	Rebuilt	\$3,000
Veeco MS-9C backfill & test unit. with Welch 1405, 2.1 CFM MP. (Item No. 2968)	Rebuilt	\$1,750
Veeco SC-4 Standard Helium Leak 3/4-1 1/8" Male connection. Re-calibrated by Wilson Glass. (Item No. 2943)	Rebuilt	\$275
VIC MD-180 auto leak detector, no MP. (Item No. 4880)	As Is	\$1,250

Item	Condition	Price
61) <u>MASS FLOW CONTROLLERS & SUPPLIES.</u>		
Brooks 5851E Mass Flow Controller 1/4 VCR, 70 Slpm, HCl (Item No. 1526)	Unused	\$750
Hastings ALK-100 Mass Flow Meter & brass transducer w/1/4 FPT. Calibrated for 100 SCCM air. (Item No. 1426)	As Is	\$250
MKS PDR-C-1C one channel digital P.S. & readout	Good	\$650
Hastings LF-500W Mass flowmeter and monel transducer with 1/ FPT. Calibrated for 500 (Item No. 1423)	As Is	\$650
MKA 270A digital display press/flow, white pnl, w/cable CB270-1 (Item No. 4609)		
MKS 2159B-00500 RV SST flow control. 500 SCCM N2. 1/4"VCR fittings. (Item No. 1458)	New	\$600
MKS 2258B-0001 ORV 10sccm N2 Mass Flow controller (Item No. 1462)	Used	\$400
MKS 260 M F-2 Main frame. 3 1/2" H x 19" W for 9 units (Item No. 1470)	Good Used	\$250
MKS 270B Signal Conditioner (Item No. 1472)	Good Used	\$650
MKS 510 A power supply Readout Digital Pressure gauge (Item No. 4425)	Used	\$450
MKS PDR-5B 5 Channel Digital power supply readout-Pressure (Item No. 1464)	Good	\$1,250
Plasma Systems MFC-5 (Vacuum General 78-8) Mass Flow Control. (Item No. 1399)	As Is	\$650
Plasma Systems PRM-2 (Vacuum General 78-6A). Pressure indicator. With Vac. Gen. (Item No.1394)	As Is	\$650
Porter F201 Mass Flow Controller 1/4 VCR, 100sccm , Cl2, 20 psig, 1000 psig (Item No. 1532)	Unused	\$500
Porter F201 Mass Flow Controller 1/4 VCR, 100 sccm , SiCl4, 4 Psig, 1000 Psig max (Item No.1530)	Unused	\$500
Porter F201 Mass Flow Controller 1/4 VCR, 2 Lpm , Freon 116 (Item No. 1528)	Unused	\$500
TYLAN FM-360 Mass flow controller. 100 sccm N2. 1/4" Swagelock. (Item No. 1482)	Used	\$550
TYLAN FM-360 Mass flow controller. 1 SLPM N2. 1/4" Swagelock. (Item No. 1480)	Used	\$100
TYLAN FC-260 Mass Flow Controller 200 sccm CCl3F (Item No. 1484)	Unused	\$550
Unit Insts. UFM-1000 flow controller 1 SLM O2. 1/4" VCR (Item No. 1522)	New	\$600
Unit Insts. UFC-1500A flow controller 50sccm NF3 1/4" VCR (Item No. 1524)	New	\$600
Unit Insts. UFM-1000 flow controller 1 SLM N2. 1/4" VCR (Item No. 1520)	New	\$600
Unit Insts. UFM-1000 flow controller 1 SLM Ar. 1/4" VCR (Item No. 1518)	New	\$600
Unit Insts. UFM-1000 flow controller 300 SCCM HCl. 1/4" VCR (Item No. 1516)	New	\$600
Unit Insts. UFC1020 flow controller 2000 SCCM SiH4 1/4" VCR (Item No. 1514)	New	\$600
Unit Insts. UFC1000 flow controller 500 SCCM He. 1/4" VCR (Item No. 1512)	Good	\$400
Universal flow controls # WB30G-10-1NU-15D (Item No. 1491)	Used	\$150
Vac. Gen. 77-5B Plasma flow control. (Item No. 1392)	As Is	\$250
Vacuum Gen US2-21 Mass Flow controller 100 sccm N2 (Item No. 1508)	Unused	\$995
Vacuum General 80-4S08 Flow controller. (Item No. 1506)	As Is	\$475
Vacuum General 80-3S04 Setpoint controller (Item No. 1504)	As Is	\$250
62) <u>METALURGICAL EQUIPMENT.</u>		
16"d x 18"h Permalloy magnetically shielded chamber for low field tests. (Item No. 4212)	Used	\$450
Buehler 10-1015 wet abrasive cut-off saw. 1.5 HP 220V/3/60 hz. (Item No. 4192)	Used	\$1,250
Buehler 11-1140-160 cutoff saw. 8"d diamond blade. Has hose connection but no water and pans. 115v 1 ph. 1/2 hp.	As Is	\$250
Buehler 1330 AB, 1"d x 2"lg. pellet press with heater. (Item No. 4198)	Used	\$750
Buehler 16-1255AB Surfmet grinder 4" belt sander Wet/Dry 1/3HP 115V (Item No. 4194)	Used	\$650
Buehler 1721-1 AB electro polisher w/1721-2 cell. (Item No. 4196)	As Is	\$850
Buehler 2D-1330 1" d x 2"L pellet presser with heater (Item No. 4200)	As Is	\$450
Buehler 67-1509 Vibromet polisher (Item No. 4190)	As Is	\$450
Carl Zeiss ELYPOVIST electro polisher, Model 30-0-026E. With microscope, power supply, electrolyte pumps, and acid container (Item No. 4204)	Used	\$2,650
R-I Tensile- Compression Tester, Materials Testing System 6981. 4 Threaded posts, 10,000 LBS. 20"x 20" platers with one hydraulic ram, 33"w x 28"d x 93" hi. 2-Bay control console with old R-I programmers and controls.	As Is	\$4,000

Item	Condition	Price
Weldlogic linear seamer s/n 1010 for TIG welding. Aprox 20" travel w/ fixture drive control		POR
Hughes HRW-50 50Wsec spot welder. No cables	As Is	\$450
10KVA spot welder. 480v, 1 ph. Weldtronic 234-2736 control. Seedorf. 10KVA X FMR 1-12v sec. with tap sw. 2p, 30 A main breaker. 19"x 33"x 48" Hi cabinet on 6" wheels.	As Is	\$1,900
Felker Di-Met 80BQ hydrocut saw. 10" d diamond blade 7 1/2" dia XY table w/ coolant pump on casters cart. 120V 1 ph 950 (Item No. 4202)	Used	\$950
Hitachi S316 Scanning electron microscope (Item No. 4188)	As Is	\$4,000
Rotex Silver recovery electrolytic cells and tanks. (Item No. 4218)	Used	
Sheffield B60106629 scale w/air gauge read out, 9" modular "Precisionaire" column instruments, POR. (Item No. 4983)	Good	
Torrit Model 66 dust collector, 1/2 HP. (Item No. 4210)	Used	\$475
Torrit Model 64 dust collector, 3/4 HP. (Item No. 4208)	Used	\$550
Unitex 1-163-01 spot welder, Mod 125. 0-20/100 watt/sec. 115 V, 4 A	Good	\$1,750
Unitex 1-164-01 spot welder ,60W sec w/ handheld trigger tips & foot sw	Operating	\$2,500
Unitex 1-065-03 spot welder, 20/100 Wattsec, 110 V, 500 W, 50/60 Hz (Item No. 4216)	As Is	\$950
63) MISC GOOD STUFF.		
Binks DB-3 1/2" spray booth 44 x 44 x 46 w, 31" legs. 18" exhaust fan & 14" light. (Item No. 4288)		\$250
Ceredip Sealer Model 101334 Heat sealer. Two LFE 227 0-600C Type J controller (Item No. 4304)	As Is	\$600
Collator, general binding 16 DT, 8 shelves. 115 V, 27 1/2" h x 22" w x 18" deep. 150 (Item No. 4272)	Used	\$150
Computer driver, Calcomp 110. (Item No. 4280)	Used	\$1,450
Drum recorder, Calcomp 565. (Item No. 4282)		\$450
Dupont "pyralux" LFO 220 polyacrylic 24" wide flex. PCB material Boxes available (Item No. 4266)	Unused	
Dupont 16 1/4 x 7 3/4 x 1/8 Unclad epoxy G-10 board Larger pieces available (Item No. 4268)	Unused	
Electron beam lithography accelerator column. Column specs: 400 angstrom spot, 30 KV, 20 nA, 30 MEV. Gun specs: 20 KV, 1 MA: Fil 1-3 A, 3 V; Bias 0-500 V. Bertan EB-30 HV gun fil & bias supply and 3-wire HV cable. Four focussing electro-magnets. Micr (Item No. 4257)	Rusty Needs	\$15,000
Electronic cabinets - Bud, Emcor, Stantron, Equipto, Varian, Ultek, CVC, etc. (Item No. 4284)	Good	
Electrovoice AR-150, 21" re-entrant horn. (Item No. 4290)	Used	\$75
Gordon Piatt-F22 G0 600, Oil/Natural gas furnaces, 42,000, 000 BTU/hr. 255 gal per hr, # 20 oil, \$35,000 new. (Item No. 4513)	Unused In Box	\$17,500
H-P 98034B HP-IB interface. IEEE-488 cable assy. (Item No. 4296)		\$250
Hydraulic Power unit Mfg Paul Monroe 5 Gpm, 900 psi, 18 gallon reservoir 230/460V3 HP 3 ph (Item No. 4298)	As Is	\$950
Hydraulic Power unit 6000 PSI max. Mfg Dayton w/ reservoir 230/460V3 HP 3 ph (Item No.4300)	As Is	\$400
Keyboard, Princeton 801. (Item No. 4278)	Fair	\$50
McBeth TD-500 desitometer (Item No. 4422)	Used	\$500
Moore Micropoint Terminator System Mod 2600 115V 5A 80PSI (Item No. 4302)	Used	
Norplex Copper clad plastic laminate 12 x 20" sheets (Item No. 4270)	Unused	
Proteus 2000 multi-channel flow meter 115V (Item No. 4920)	New	
Sets of Thomas Register of American manufacturers. 1983 and 95. (Item No. 4286)	Excellent	\$125
Textronix 618 19" diag. computer TV monitor screen. (Item No. 3424)	As Is	\$250
Ultraviolet light Substrate desorber P.S. only. Danielson PSD-1-U Photron. (Item No. 4259)	Very Good	\$950
Universal N3422 lead trimmer for T0-18 pkg. With air logic. Feed-A-Mation TBF-6051 (Item No.4261)	Used	\$950
Vibratory bowl feeder for integrated circuit on stand. (Item No. 4264)	Very Good	\$850

Item	Condition	Price
Wells F45 deep fryer 208/230 V. 4500 W SST with one fry basket. For the gourmet cook or n large families. (Item No. 4292)	Used	\$150
X-ray film dryer Drymaster, 12 BM, 25"h x 22"w x 18"d inside. 115 V, 7.2 A, heater, timer, blower. (Item No. 245)	Used	\$200

64) MOTORS, GENERATORS & CONTROLS.

Bodine 835 1/12-1/6 HP PM DC motor speed control in NEM12 bot. 115V 4.2 A (Item No. 4575)	Operational	\$175
Century DC motor for Stokes 310-401. 1.5 HP 3500 RPM. 280V, 0.23A field; 180 V, 7.8A Arm. (Item No. 1318)	New	\$300
Computer Power Products SMG37K6533MLTLTB Motor-Gen. set to convert 60 to 50Hz. Belt Driven. Motor: 50HP ,230V, 100A 3ph, 60Hz, 1800 RPM, 1.0PF. MFG. 10-83 GEN: 30KW, 37KVA, 120/208V, 104A, 3PH, 50HZ, 1500RPM, 0.8PF. Both have brushless synchronous revolv (Item No. 3989)	Good	\$10,000
Computer Power Products SMG50K6533HLRCTBRX Motor-Gen. set to convert 60 to 50Hz. Belt Driven. Motor: 62HP ,480V, 56A 3ph, 60Hz, 1800 RPM, 1.0PF. MFG. 1982 GEN: 40 KW, 50KVA, 127/220V, 114A, 3PH 4 WIRE, 50HZ, 1500RPM, 0.8PF. Both have brushless synchrono (Item No. 3991)	Good	\$12,000
Sterling variable speed gear motor drive w/1 1/2 Hp 230/460V 3ph proof explosion proof motor. 6.5 to 66 RPM on 1 5/8"d shaft. (Item No. 3987)	As Is	\$350

65) OVENS Atmospheric.

Blue M OV-712A 12" x 12" x 12", SST 38- 260 C/ 100-500 F, 120V, 975W. Thermostat control (Item No. 233)	Good	\$450
Blue M OV-475A-2 12" x 12" x12", SST interior 38-260C/500F 120V 11A 1Ph Temp/Hi limit control stabil-thermal, Horizontal air flow (Item No. 235)	Good	\$1,250
Blue-M OV-18A 15"h x 19"w x 18"dp., 38-288 C, 120V, 1900W. Thermostat & Overtemp. (Item No. 237)	Good	\$750
Blue-M OV-8A 8" x 8" x 8 1/2" dp, 38-260 C, 120V 525W, SST. Thermostat & over temp. controls (Item No. 229)	Very Good	\$550
Blue-M OV-490A-2, 18" h x 19" w x 15" d, 38-260 C SST interior, 120V, 10A (Item No. 4984)	Fair	\$750
Blue-M POM-206C oven. 20"w x 20"h x 18"d, 343o C (650o F) 3.9KW, 240V 1 ph. Omega digital control. 304SST inside, circulating fan. With floor stand. No shelves. (Item No. 249)	Used	\$1,500
Blue-M SW-11-TA 9"h x 9 1/2"w x 11"dp., 40-200 C 120V, 7.5A. Transite interior, Thermostat control (Item No. 231)	Very Good	\$350
Mod 107800 600w120V 9"h x 9d x 11 w needs Thermo		
Dispatch V-15 Atm. Oven 19"x19"x19 Hotzone 500F 480/120V 3/1ph 5.7KW , Circulating fan 46"W x 27"D x 42"H cabinet (Item No. 243)	Very Good	\$650
Dispatch 203-6 Atm. oven. 18" x 18" x 18". 550 F U-E Control, Air Fan, Steel Hotzone, 1.5KW, 220V 1Ph, 6.8A (Item No. 241)	Good	\$950
Dispatch LDB-1-67 atm. oven w/circulating fan.33h x 34w x 27d. 400deg. F max w/controls. 120/240V 2400W. 1Ph. 21.2/10.6A. No Shelves. Open element in bottom (Item No. 256)	Good	\$950
Fisher ISO-Temp 100 series Model 116G oven 14" h x 13" w x14 1/2" dp. 30-200 C, 115V (Item No. 4873)	Good	\$700
GCA 4101 Infrared tunnel dryer 6"wx 4 1/2"h x 4ft l. 115V (Item No. 337)	As Is	\$500
Labline 3505 300 F Oven. 3 shelves. 20"h x 18"w x 17"d. 115V 1200W. (Item No. 254)	Fair	\$350
Napco 430. 41 1/4"w x 17 1/2"d x 24"h ID. 30-200 Deg C. 2800W 230V 12.2A. (Item No. 261)	Fair	\$1,050
Blue-M OV-12A 100-500 Deg F 120v 975w 12x12x12 all SST Stabil-therm	Very Good	\$400

Item	Condition	Price
Oven Mfg. Unk. 24"h x 36"w x 24"d ID. 100-550o F thermostat. Air circulating blower. 120/240V. Floor standing. (Item No. 265)	Fair	\$1,500
Precision Sci. 31406, 260 C Oven 12.5"Hx 13"Wx 25"D SST int, Has 3"x 20" slots in side, 115/230V 1 Ph 2400W 21/11A. Needs thermostat, good interior, Rusty out Needs Work (Item No. 263)	Fair	\$500

66) OVENS Vacuum.

Blue-M, POM-12VA-2 vacuum oven, 10 1/2" id x 13.5" lg., SST hot zone, on stand 120V 16A, w/vac. gauge, Welch 1402 mechanical pump, Omega temp controll, OT alarm. (Item No. 4504)	Operational	\$2,500
Blue-M ,PO M-16VC-2, 16" I.D. x 17" lg SST Hotzone. 240v 13A 300deg C/575 deg F . No Controls Or floor stand.	Needs Work	\$850
Cole Palmer 5030-10, 10" x 10" x 12" dp, 600W, 120V, 5A, w/0-30 inch Vacuum gauge (Item No. 4627)	Very Good	\$950
Fisher Sci. model 282A, cat. No. 13-261-52 115V, 15A, 12" x 12" x 18" d SST interior. Eurotherm O.T. alarm & temp. control, GP275 Pirani gauge. (Item No. 5068)	Good	\$2,750
Fisher Vacuum Oven, Mod. 116G, 8.5" x 12 x 12, 0-260 C, Analog controls (Item No. 394)	Cleaned & Tested	\$1,150
Hetherington 21" x 21" x 35" d SST W/C cham. Vac. Oven w/Full opening door. 6" CFF 4" VP. 12 ea. 2 3/4" CFF ports on sides. 8" CFF pump port in rear. No valves or pumps. For Calrod heat elements. Est. 600 C. Gould controller & Chessel recorder, needs work but a great box. 77" h x 51" w x 44" d overall. (Item No. 5069)	As Is	\$13,500
Labline 3625 SQUAROID Vacuum Oven. 12"w x 12"h x 13 1/2"d. SST hotzone. 20-300 C thermostat & over temp control. Glass window. 120V 10A 1 ph. (Item No. 384)	Excellent	\$2,150
Labline 3628 SQUAROID Vacuum Oven 12x12x20d SST Hotzone 20-300C 120V, 12A 1400W, 2 shelves. (Item No. 386)	Fair	\$1,750
Napco 5830 Vacuum oven. 8h X 8 w X 12d SST hotzone, 35-200 C, 550W 120V. (Item No. 4837)	Fair	\$350
Napco 5831 Vacuum oven. 8h X 8 w X 12d SST hotzone, 35-200 C, 550W 120V. (Item No. 380)	Cleaned & Tested	\$500
Napco 5850-5 Vacuum oven. 12h X 12 w X 19d STL hotzone, 35-200 C, 750W 115V. 1.5 cub. Ft., needs thermostat (Item No. 4707)	Tired	\$500
Napco 5851 Vacuum oven. 12h X 12 w X 19d SST hotzone, 35-200 C, 1000W 120V. 1.5 FT3 (Item No. 396)	Very Good	\$1,500
NAPCO 5861 Vacuum oven. 18"h x 18"w x 24"d SST hotzone. 35-200 C. 1500W 120V. 4.5 FT3 (Item No. 402)	Cleaned & Tested	\$3,000
Napco-5861-8, vac oven, blue paint, 18"h x 18"w x 24"d SST hotzone. 35-200 C. 1500W 120V. 4.5 FT3 (Item No. 4486)	Good Used	\$3,500
Precision Scientific 524 Vacuum Oven. Aluminum 12 x 12 x 17d hotzone. 35-230 C with temp control, H-M-L switch. 120V 1600W. (Item No. 388)	Repaired & Tested	\$1,200
Precision 19 Vacuum Oven 7 3/4"H x 8"W x 12"D (Item No. 390)	Fair	\$475
SEL 205A Vacuum oven. 20"d x 18"l steel chamber with one full opening door, other end is open. 10" w x 10" h x 14" l SST 800 C Hotzone. 4" ASA pump port. No DP or main valve. Welch 1397 17CFM MP W/valve. 3 adjustable transformers & meters, timer & tem (Item No. 404)	Tired	\$2,450
T.I. Design Vacuum Oven, Schem, 2685174, 208V, 1ph, 30A. 13.71" ID x 19" lg. SST water jacketed cham., 12.5" d x 18" l, hotzone w/Calrod element; 1 SST shield & 3 shelves. 2 ea. 4.5 CFF-2 1/2" V.P. on door. 2 I/C TCs & LFE digital temp. control. Balzers TPU-510 turbo & TCP-310 control. Leybold D8A MP. 42" h x 41" w x 35" d. cabinet on casters. GP270004 10N/TC gage. (Item No. 5067)	Good	\$25,000
Thermco19 8" x 12" x 8" Vacuum oven. (Item No. 382)	Used	\$675
TM vacuum products-SS803ND3535, 208v, 1ph. 11 3/8" d x 19" l hotzone, 2 doors SST, 300 C w/controls, Welch 1402 MP. 31" x 50" x 28" hi table. (Item No. 4500)	Good Used	\$7,500
VWR model# 1410, 9" x 9" x 12" d, 40-225 C 115 V (Item No. 4752)	Very Good	\$950
Hull 5A-1 24x24x24 stl. Box chamber w/full opening door. 5 rotating plates to pot trans etc. Temp Control. Kinney KC-15 MP.	As Is / Good	\$2,500
	Repaired & Tested	\$4,750

67) POWER SUPPLIES-Dc.

Basler 1700-100 50V 100A dc. Current & voltage controls & meters: 480V/3ph. input. (Item No. 3972)	Good	\$1,950
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Item	Condition	Price
HiPotronics 805-1, 5KV, 1A DCPS. Polarity selector sw. Voltmeter & Ammeter. w/3 ranges. 3 gang powerstat 208-230V, 3ph. 23"Wx26"Dx54"H on casters. (Item No. 3930)	Good	\$4,750
EMI Mod TCR 150S4-1-0542 0-150VDC 4A. Reg. 120V/1Ph. (Item No. 3932)	Cleaned & Tested	\$350
EMI Mod TCR 600 SI (Item No. 4764)		
Hi-Potter, NJE H-80. 0-120 KV DC, 5 MA control console and HV oil tank. (Item No. 3962)		\$5,650
HVPS Bertan 602B-50P, HV module, 5KV 2 mA, Pos . out, Neg gnd +0.001 reg, 115VAC (Item No. 3928)		\$300
HVPS Bertan 602B-50N, HV module, 5KV 2 mA, Neg. out, Pos gnd +0.001 reg, 115VAC (Item No. 3926)		\$300
HVPS Bertan 0602A-50P, HV module, 5KV 2 mA, Pos. out, Neg gnd +0.001 reg, 115VAC (Item No. 3924)		\$250
HVPS Bertan 602A-50N, HV module, 5KV 2 mA, Neg. out, Pos gnd +0.001 reg, 115VAC (Item No. 3922)		\$250
HVPS Kevex K 3003 PS. 3KV 0.3mA for X-ray tube (Item No. 4663)	As Is	\$950
HVPS Spellman LAB-60-PN, RF. 117 VAC, 60 KVDC, 1 MA. (Item No. 3952)	Cleaned & Tested	\$950
HVPS, Univ. Voltronics, 0-18 KVDC, 1.2A. Rack mount. (Item No. 3956)	Cleaned & Tested	\$3,000
Kaiser Systems S1-1-1000, 1000V 1A,dc Switching P.S. 0.005% reg, 115V 11A 51/4" x 19"panel x 17" dp Black (Item No. 3960)	Unused	\$2,750
Sorenson model DCRB-300-9, 300V 9A, 187-229V 1ph 26A input (Item No. 4656)	As Is	\$850
Sorenson model DCRB-600-4, SB, 600V 4.5A, 187-229V 1ph 26A input (Item No. 4985)	Repaired	\$1,450
Sorenson Model DCR-150-70 A, 150v, 70 A output. 208-460v, 3 ph, 22 3/4 x 19 PNL x 24 dp.		POR
Sorenson model DCR-150-18B, 150V 18A, 8 3/4" x 19" PN L.21 dp. 208/240V 1ph. (Item No. 4749)	As Is	\$850
Temescal magnet supply, 225KVA, 3000 A 75v, 480v/3ph input,SCR control w/c	Needs Work	\$3,000
Kepeco BHK-1000-0.2m 1kv 0.2a 115/230v 50/60hz	As Is \$150 Tested & Repaired	\$500

68) POWER SUPPLIES-Electron beam.

Sloan six-ten 1 Gun, 1 tank w/remote (Item No. 4697)	As Is	\$3,500
Sloan six-ten 1 Gun 1 tank w/remote. (Item No. 4766)	Repaired & Tested	\$5,000
Special Mfg. 10 KV, 200 MA output 208V/3. P'stat control. 6/12 V fil. XFMR. 650 (Item No. 3483)	Used	\$650
Temescal CV-8-110. in olive yellow cabinet. Various configurations available. (Item No. 3460)	Cleaned & Tested	POR
Temescal CV-14-110, 1 Gun, No Sweep, blue. Needs cabinet for remote control. (Item No. 3465)	As Is	\$8,500
Temescal CV-14A-111, 1 Gun, 1 Sweep, orange. (Item No. 3469)	Repaired & Tested	\$12,500
Temescal CV-3-110, 3 KW, 1 gun. (Item No. 3437)	Rebuilt	\$4,500
Temescal CV-15 special 15 KW. (Item No. 3479)	Used	
Temescal CV-14-111, 1 Gun, 1 Sweep, blue. (Item No. 3467)	Cleaned & Tested	\$12,500
Temescal CV-10. 10 KW,multiple gun control, sweep, tank configurations available. (Item No. 3462)	Rebuilt	
Temescal ES-6-110, 6 KW, 1 gun. - 1 tank. (Item No. 3443)	Repaired & Tested	\$5,500
Temescal ES-6-210, 6 KW, 2 guns. - 1 tank. (Item No. 3445)	Repaired & Tested	\$6,750
Temescal VVC-6 4-10 KV variable voltage control for ES-6A (Item No. 4986)	Repaired & Tested	\$1,750
Varian 980-1131 HV control for E.B. P.S., POR (Item No. 4924)		
Varian 980-1132 HV control for E.B. P.S., POR (Item No. 4614)		
Varian V-7412, 5 KV, 4 A, for EB vacuum brazing. (Item No. 3485)	As Is	\$1,950

69) POWER SUPPLIES-filament evaporation.

Technics CEA filament P.S. evaporator 4"d x 4"h pyrex cyl. No vacuum pump. (Item No. 3694)	Used	\$600
Technics CEA filament supply w/4 x 4" pyrex cyl. evaporator. (Item No. 3517)	Good	\$795
Varian 3115,16,17,18 2 KVA Filament power supply. 5, 10, 20, 40V xfmr, cables, 2 ea 400 amp feedthrough.and control panel. 208/240 V (Item No. 3536)	Rebuilt	\$2,000
Veeco EC-200 Evaptrol Triac controller 2 KVA # 9800-609 Transformer100,200,1000 A current transformer w/ 2 4/0 cables (Item No. 3539)	Used	\$1,750

Item	Condition	Price
70) <u>POWER SUPPLIES-Glow discharge.</u> CVC LC-031 Glow Discharge P.S. 208-230V 1 ph. input. 0-5KV, 0-400 ma-dc output. Tubes, pos gnd only. (Item No. 3696)	Rebuilt	\$1,750
Dual 10KW Glow discharge. Motor driven p"stat 0-10KV @1ADC output. Remote metering contol panel. 208-240V/3ph. 2-bay cabinet on wheels. (Item No. 3707)	As Is	\$6,500
71) <u>POWER SUPPLIES-Ion pump.</u> CVC PVD-2 Dri-Vac 115 V. 50ma (Item No. 3770)	Used	\$250
CVC PVD-4 Dri-Vac, 115 V, 250ma. (Item No. 3778)		\$350
ETM 1 PPS-2.1 5 ua meter relay, no cable w/MS conn. 3.2 KV, 43 Ma. For. 1-2 l/s diode pump (Item No. 4848)	Good	\$950
Hughes VPC-125, pos5kv, 750ma, runs 200 l/s pump. (Item No. 3809)	As Is	\$300
Ion Technology Inc. PS-301 pos 4.7kv, 350ma, runs 50 l/s pump. (Item No. 3797)	Cleaned & Tested	\$575
Perkin-Elmer Digetel 500, +/-5.5 KV, 220 mA for 25-270 l/s pumps, 115/230V (Item No. 4620)	Cleaned & Tested	\$1,450
Perkin-Elmer 222-0360 for water cooled pump. Pos 5.5kv, 100ma. runs 11 l/s pumps. (Item No. 3784)	Cleaned & Tested	\$975
Temescal SI-200. pos 4.7kv, 1000ma, runs 100-1200 l/s pumps. (Item No. 3829)	Cleaned & Tested	\$1,150
TLI/Ion equipment PS-1000, pos 4.7kv, 1000ma, runs 100-1200 l/s pmp. (Item No. 3827)	Cleaned & Tested	\$900
TMEC 534 (copy of Varian 921-0015) W/API 5 ua meter relay. pos 3.2kv, 43ma, runs 2 l/s pumps. MS conn. No Cable. (Item No. 3764)	Cleaned & Tested	\$450
Ultek 222-0600 diode, pos 4.7kv, 1000ma, runs 100-1200 pumps. (Item No. 3825)	Cleaned & Tested	\$1,075
Ultek 60-057 Weston meter & CB., pos 3.2kv, 150ma runs 8 l/s pumps. (Item No. 3776)	Cleaned & Tested	\$375
Ultek 60-055 G.E. meter & SW. pos 3.2kv, 150ma, runs 8 l/s pump. (Item No. 3774)	Cleaned & Tested	\$350
Ultek 60-154 +4.7KV 1A (Item No. 4746)		
Ultek 60-160 +4.7 KV 1A (Item No. 4613)	Cleaned & Tested	\$800
Ultek 60-105. Pos 4.7kv, 350ma, runs 50 l/s pump. (Item No. 3795)	Cleaned & Tested	\$675
Varian 921-0036 diode. Pos 7.5kv, 600ma, runs 270 l/s pump. (Item No. 3813)	Cleaned & Tested	\$1,050
Varian 921-0007 pos 7.2kv, 190ma, runs 75 l/s pump. (Item No. 3801)	Cleaned & Tested	\$675
Varian 921-0012. pos 3.7kv, 425ma, runs 40 l/s pump. (Item No. 3799)	Cleaned & Tested	\$775
Varian 921-0041 triode, neg 5.2, 400ma, runs 110 l/s pump. (Item No. 3811)	Cleaned & Tested	\$975
Varian 921-0006. 50 ua meter, no cable or MS conn. W/cabinet. 3.2 pos 3.2kv, 43ma, runs 2 l/s pumps. (Item No. 3762)	Cleaned & Tested	\$750
Varian 921-0018, pos 7.2kv, 750ma, runs15 l/s water cooled pump. (Item No. 3793)	Cleaned & Tested	\$1,275
Varian 921-0011, 20 ua meter W/C. pos 3.2kv, 150ma runs 8 l/s pumps (Item No. 3782)	Cleaned & Tested	\$575
Varian 921-0008 Also used for 280 L/S pump, pos 3.2kv, 900ma. Runs 140 l/s pump. (Item No. 3805)	Cleaned & Tested	\$750
Varian 921-0015, 5 ua meter, no cable w/MS conn., w/API meter relay, w/cabinet (Item No. 4790)		\$950
Varian 921-0034 diode. Pos 7.5kv, 300ma, runs 140 l/s pump. (Item No. 3807)	Cleaned & Tested	\$875
Varian 921-0043 triode.neg 5.2kv, 800ma, runs 220 l/s pump. (Item No. 3815)	Cleaned & Tested	\$1,250
Varian 921-0066 L/C, diode/triode, Pos 7.5kv at 430ma, Neg 5.2kv at670ma, Also runs high-Q pump. (Item No. 3839)	Cleaned & Tested	\$1,600
Varian 921-0014. 5 ua meter, no cable. NOTE: will start and operate ten 8 L/S pumps , neg 3.2kv, 43ma. (Item No. 3767)	Cleaned & Tested	\$1,750
Varian 921-0013, pos 7.2kv, 70ma, runs 11 l/s pump (Item No. 3791)	Cleaned & Tested	\$400

Item	Condition	Price
Varian 921-0045 triode, Neg 5.2kv, 1600ma, runs 400 l/s pump. (Item No. 3823)	Cleaned & Tested	\$1,400
Varian 921-0015. 5 ua meter, no cable. W/MS connector. W/cabinet. 3.2 pos 3.2kv, 43ma, runs 2 l/s pumps. (Item No. 3765)	Cleaned & Tested	\$750
Varian 921-0038 diode, Pos 7.5kv, 1250ma, runs 500 l/s pump. (Item No. 3821)	Cleaned & Tested	\$1,300
Varian 921-0062 L/C diode/triode, pos 3.3kv at 120ma. Neg 5.2 at 200ma, runs 80-60 l/s pumps. (Item No. 3831)	Cleaned & Tested	\$1,200
Varian 921-0005, pos 7.2kv, 750ma, runs 400 l/s pump. (Item No. 3819)	Cleaned & Tested	\$950
Varian 922-1652. No meter, W/C 1" OD connector. Unused 3.2 pos 3.2kv, 0.6ma, runs 2 l/s pumps. (Item No. 3760)	Cleaned & Tested	\$325
Varian 924-0040 Pressure relay. 3 1/2"h x 19"w panel. MS connector on attached cable for 931-0034 to 921-0045 Ion pump control units. (Item No. 3855)	Cleaned & Tested	\$550
Varian 924-0048 Pressure relay. 7"h x 2 3/4"w panel. Separate MS connector cable req'd for 921-0062 to 921-0066 Ion pump control units. (Item No. 3857)	Cleaned & Tested	\$550
Varian 924-0031 Pressure Relay. 3 1/2"h x 19"w panel. 0-100MV input for old ion gauge and ion pump controls. (Item No. 3853)	Cleaned & Tested	\$450
Varian 929-0080 Star cell, neg 7.0kv, 200ma meter only, runs 30-60 l/s pumps. (Item No. 3833)		\$750
Varian 929-0712 13 ft bakeable cable. Radiation resistant. Old 1" ion pump conn. To Fischer 105 H.V. conn.	New	\$250
Varian V-7423. +3.2. Pos 3.2kv, 350ma, runs 50 l/s pumps. (Item No. 3780)	Cleaned & Tested	\$550
Varian V7413-B, pos 7.2kv, 750ma, runs 400 l/s pump. (Item No. 3817)	Cleaned & Tested	\$750
Varian VA-1302, 20 ua meter w/c, pos 2.9kv, 230ma, runs 5 l/s pumps. (Item No. 3772)	Cleaned & Tested	\$350
Veeco-Andar PS-430 neg 5.5kv, 450ma, runs 100-200 l/s pumps. (Item No. 3789)	Cleaned & Tested	\$700
Veeco-Andar PS-400, neg 5.4kv, 170ma, runs 11-50 l/s pumps. (Item No. 3786)	Cleaned & Tested	\$575

72) POWER SUPPLIES-Misc.

Astro Furnace control console B-C 0-1700C Type S Round recorder & MMC control. Loyola w/c SCR controller w/ 15KW wattmeter. 230:30V 1 ph transformer in 67hx22wx 17d cabinet 1750 (Item No. 3980)		\$1,750
Capacitor charging, energy systems 11-022 HV transformer. Rects, Res. 3-gang motor 1875 powerstat. Remote control panel missing. .125 MFD, 25 KV CAP. (Item No. 3948)		\$1,875
Furnace control console. Barber-Coleman 8412 12 pt. recorder 100-1300 C type R TC, 1175 845B programmer with one master and six slave zones, six 541B or 543C controllers 0-1400 C. ATC 30 hr. soak and profile timers. Emergency 12 V, 3 A battery inverter t (Item No. 3984)		\$1,175
Furnace control console, L & N S' Max H Recorder/ Cat 60 controller. L & N cam programmer. (Item No. 3976)		\$250
Furnace control console, 240 V, 50 A, 1 Ph. SCR. L & N 900-1300 C S' Max G recorder/Cat. 60 950 controller, w/contactors controls & OT alm. (Item No. 3978)		\$950
Furnace control console. L & N S' Max H recorder/Cat. 60 control. L & N cam programmer & 1475 Fincor 480 V, 50 A 1 ph. Sat. reactor. (Item No. 3982)		\$1,475
High Peak power laser. Optics Tech. 130. 22 KV, 1.5 MA. Used to excite ruby laser. With KERR shutter delay panel. (Item No. 3950)	As Is	\$1,950
HVPS, A H Assoc. 0-25 KV. (Item No. 3954)		
Ion Tech-IT 2500, Ion beam gun controll, (Item No. 4522)	As Is	\$3,500
KeveX K3003PS X ray tube power supply. Negative 0 to 3 KVDC, 0,3mA out X ray tube L.V. (Item No. 3958)		\$1,750
Plasmatherm-MDS 5000D, 5KWdc, 450-600-745v output, 210/240v, 3ph. (Item No. 4521)	Cleaned & Tested	
Powerstat 1156 C-2S, 2-gang in cabinet on casters, 240 V/1 in. 0-280 V/1 Ph, 45 A max. out CB, V/A meters & cord. (Item No. 3934)	Excellent	\$795

Item	Condition	Price
Three Zone control system. 75KVA 480: 240V transformer. Three 25 KVA SCR Power Controls. In Newa 1 ENCL.	Good	\$4,000
Saturable reactor, hevi-duty D74107. 208 V/1 20 KW. Fincor M-125-E Mag-amp driver. 1125 0-5 MA into 3 K control. V/A meters in cabinet on casters. (Item No. 3936)		\$1,125
SCR power control. Eurotherm 461-083-13-19-073-002-6911 40A 240V 1 ph. With current limit, 525 phase angle firing and many control inputs. (Item No. 3938)		\$525
SCR power control. Eurotherm 463-114-13-19-073-002-6911 100A 240V 1 ph. With current limit, 850 phase angle firing and many control inputs. (Item No. 3940)		\$850
SCR power control. Honeywell 002, 480 V/3/127 A, 105 KVA - Needs work. (Item No. 3942)	As Is	\$650
Spellman SP 156 74-1 (8011) 0-180 KV voltage multiplier/rectifier. 2 MA 8 stages. Needs a 50 Khz 210 KV P-P driver. (Item No. 3964)	Good	\$1,500
Telephone Power unit. LORAIN 12AI & 12 A2 117V 8.5A input.OUTPUTS: SIGNALING 10/20V @ 30/2A 60HZ; RINGING 75-95V @.1A 20Hz; TALKING 24V & 12 ADC. 24 1/2h x 19"w x 8 1/2"d. Ammeter & Voltmeter. (Item No. 3944)	Good	\$250

73) POWER SUPPLIES-Rf.

1 KW Eratron HFP-80010 13.56 MHz 208V/3 (Item No. 3602)	As Is	\$2,000
1 KW Henry 1000D, 13.56 MHz, 208/230V/1 Ph. Built in 44"h x 23 1/2"w x 22"d cabinet (Item No.3597)	Cleaned & Tested	\$1,800
500W Plasmatherm HFS-501,13.56MHZ power	Cleaned & Tested	\$1,500
1 KW Plasmatherm HFS-1001S 13.56 MHz 208/240V/3 (Item No. 3600)	Cleaned & Tested	\$2,500
1.2 KW Varian 980-2101, 13.56 MHz. Double ended output. 208/240V 1ph. Cabinet on casters. (Item No. 3604)	Used	\$1,750
1.2KW ENI OEM-12, 13.56Mhz, solid state W/C RF P.S. (Item No. 4701)	Cleaned & Tested	\$3,100
10 KW Lepel. T-10-3 -MC1-X -SA, 13.56 M Hz 460V 3 ph. Excellent workhorse. (Item No. 3626)	Cleaned & Tested	\$12,000
10KW Lepel 13.56 Mhz, 480V/3 Ph, tube tested OK, (Item No. 3567) as-is \$7,500	Cleaned & Tested	\$12,500
10KW Plasmatherm HFS-10,000D, 13.56 MHz 480V 3ph (Item No. 4632) as is \$5,000	Repaired & Tested	\$7,500
1600W ENI EGR-1600, 10-105 KHz, 50 ohm A/C, 120V 60 Hz (Item No. 4740)	Very Good	\$2,500
1KW A-E PE-1000Z, 20-100KHz no controls (Item No. 4914)	As Is	\$1,000
1KW Advanced energy-PE 1000Z, 20-100KHz (Item No. 4523)	Used	\$2,500
1KW Comdel CPS-1001, 13.56Mhz, 208V 3 ph W/C 5 1/4" x 19" x 17" dp Blk (Item No. 3595)	Good	\$2,000
1KW RFPP, RF-10S, 13.56 MHz, air cooled, 208V 1ph 15A (Item No. 4603)	Operational	\$3,500
2 KW Eratron HFP-80020 13.56 MHz 208/240V. (Item No. 3606)	As Is	\$3,000
2 KW Plasmatherm HFS-2000D, 13.56 MHz, 208/240V/3 Ph. (Item No. 3608)	Cleaned & Tested	\$4,000
2 KW Plasmatherm HFS-2000E, 13.56 MHz. 208/240v 3ph. (Item No. 3610)	Cleaned & Tested	\$4,000
2.5 KW MRC/RFPP. RF&P.S. modules each 17 1/2" hi x 19" w pnls x 21" dp, 208-240V 3ph, needs work (Item No. 4585)	As Is	\$1,250
2.5 KW Plasmatherm HFS-2500D; 13.56 MHz, 208/240V/3 Ph. Built in 60"h x 23"w x 26"d cabinet on casters. (Item No. 3616)	Cleaned & Tested	\$4,500
2.5 KW Varian/E1MAC PP-27-2.5 27 MHz sputtering 240V/3/15 A. Cabinet (Item No. 3614)	As Is	\$950
2.5KW ENI OEM-25, 2.5KW, 13.56 MHz solid state W/C. (Item No. 3612)	Cleaned & Tested	\$6,750
2.5KW Lepel, T-2.5-1-KC1-RW., 230V, 24A, 60Hz, 1ph 5.5KVA, w/c type T-254-185, s/n 8343T, table top mtg. 24" h x 32" w x 23" dp. SCR control. W/foot sw. (Item No. 4799)	Very Good	\$4,500
20 KW Lepel T-20-3, 450 KHz, 460 V/3, thyratrons. (Item No. 3571)	Rebuilt	\$8,500
20 KW Lepel T-20-3, 450 KHz, 230 V/3, thyratrons. (Item No. 3569)	Rebuilt	\$8,500
2KW Henry 2000D, 13.56 MHz, 208/230V/1 Ph. Built in 44"h x 23 1/2"w x 22"d cabinet. 3 1/2" x 19" remote control & cable A/C. Also one with no exciter. (Item No. 4748)	Cleaned & Tested As Is	\$2,950 \$500
2KW RFPP RF-20 13.56 MHz, air cooled, 208VAC 50/60Hz, 3ph 15A (Item No. 4608)	Operational	\$5,000
R.L. Drake T-4xc Ham Transmitter 13.56Mhz No P.S.	As Is	\$50.00
Dentron Radio CLIP Perton-L Linear Amp 1.8,3.5,7.0,14 & 21 bands	As Is	\$100

Item	Condition	Price
ENI HF-1, 1kw, 13.56MHZ	Operating	\$2,500
ENI OEM-50,5kw,13.56 mhz with matchwork control & matchbox	Operating	\$15,000
MRC 2.5KW 13.56 Mhz to fit in 19" w rack DC & power unit 17 1/2 hi x 21 dp	As Is	\$1,000
Plasma Therm HFS 2500E	Tested	\$2,500
Plasma Therm PLASMALOK 3-HF		POR
3 KW Plasmatherm HFS-3000D, 13.56 MHz, 208/240V 3 Ph. Built in 60"h x 23"w x 26"d cabinet on casters (Item No. 3618)	Cleaned & Tested	\$5,000
30 KW Reeves, 450 KHZ, 480 V/3, Saturable reactor w/work station and 100 ft RF extention cable for remote workstation. (Item No. 3575)	As Is	\$14,500
30 KW RF Co. 30,000 B, 450 KHZ, 460 V/3, reactor. Rebuilt tube by Econco. (Item No. 3573)	As Is	\$3,500
300W Lepel TR-300. 180-350 KHZ 120V 5.2A. Solid state, bottle sealer. (Item No. 3544)	Cleaned & Tested	\$3,000
400W ENI 1040L		
5 KW ERA HFP-80005, 13.56 MHz. Parts missing. (Item No. 3624)	As Is	\$2,000
500 W ERA RF-500 MB, 13.56 MHz. (Item No. 3581)	Used	\$1,000
500 W Henry 500 PGB, 13.56MHz, 208/230V/1ph. Built in 44"h x 23 1/2"w x 22"d cabinet (Item No. 3583)	Cleaned & Tested	\$1,250
500W Plasmatherm HFS-500E 13.56 MHZ 208/240V/1 (Item No. 3586)	Cleaned & Tested	\$1,500
5KW Lepel T-5-3-KC-J-BW Dwg. Type T-504-47, 455Khz, saturatable core reactor. Si rectifier, 230V/12.7KVA (Item No. 3554)	Good	\$6,000
Lepel 5KW A/C chiller(radiator, fan, and pump)	Good	POR
5KW Plasmatherm HFS-5000D, 13.56Mhz, 208/240V 3ph. (Item No. 3620)	Repaired & Tested	\$6,500
650W ENI OEM-6, 13.56Mhz, solid state W/C RF P.S. (Item No. 3588)	Cleaned & Tested	\$2,000
7.5KW Lepel T-7.5-3-DF-SW w/remote control. 460V/30/21A. Saturable reactor w/silicon H.V. rectifiers. With Manual. DWG T-7.5(6) 3-20 (Item No. 3560)	Cleaned & Tested	\$8,000
750W ENI PI-1 HF 90-460KHz Generator w/ matchbox For asher & etcher (Item No. 3548)	Excellent	\$2,150
800W ENI EGR-800, 10-30 & 30-105Khz, 120v, 1ph, air cooled 50 ohm BNC output (Item No. 4520)	Cleaned & Tested	\$2,150
8KW ENI EGR-9600B, 10-105 KHz Solid state Gen. (Item No. 3563)	Unused & Tested	\$9,750
900W Advanced energy-PDX 900 2V, 350KHz, 190-230V, 1ph (Item No. 4501)	Used	\$3,500
D & W 13.56 MHz prototype. 5 KVA HV XFMR, 3 sat. reactor, HV rect., XFMRs, 5 KV cap, RF parts, not wired, (Item No. 3689)	Unused	\$495

74) POWER SUPPLIES-Sputtering.

5KW RFPP MDS-5000D DC Mag. Sputtering, 210-240V, 3ph 16-14A, 450,600,745V out, saturable reactor control (Item No. 4669)	As Is	\$3,500
5KW Temescal SP-5 D.C. Magnetron Sputtering P.S. 208/230V/3. Sat. Reactors, remote controls. (Item No. 3737)	Cleaned & Tested	\$5,000
6-12-24KW Varian Multi-range DC sputtering P.S. type VPW 2870P5-M s/n P120F3 rev A, TFS #04716797 made in Canada (Item No. 4807)	As Is	\$3,500
Advanced Energy MDX-10K 10 KW DC magnetron P.S. for remote control 208V/3 ph (Item No. 3714)	Repaired by Factory	\$7,500
Advanced energy-MDX 10kw, sputtering supply, for local operation. (Item No. 4509)	Repaired by Factory	\$9,500
Advanced Energy-MDX 5K 5kw DC magnetron for remote control, as is \$500 (Item No. 4493)	Repaired by Factory	\$5,000
Advanced energy-MDX 10kw slave, sputtering supply, for remote operation. (Item No. 4510)	Repaired by Factory	\$6,500
Advanced energy-MDX 10kw master, sputtering supply, for remote operation. (Item No. 4511)	Repaired by Factory	\$7,500
Advanced Energy-MDX-20K, join 10KW master & slave above [items 4510 & 4511] (Item No. 4987)	Repaired & Tested	\$13,500
Advanced Energy-MDX IK 1 KW DC magnetron P.S. (Item No. 3710)	Good	\$2,500
Advanced Energy-MDX-5K 5kw DC magnetron for local control (Item No. 3712)	Repaired by Factory	\$6,500

Item	Condition	Price
CVC 280301 K4 magnetron sputtering PS. 230v 3ph 7.5A (Item No. 3754)	Used	\$2,250
EMI Mod EMPH-730-30-0447 magnetron sputtering. 20 KW 208V, 125A, 3Ph (Item No. 3743)	Rebuilt	\$7,000
ERA PPS-7905 MF Magnetron sputtering. 5KW 208V/3ph. 600, 800, 1000 VDC output. (Item No. 3718)	Cleaned & Tested	\$2,750
ERA PPS-7920 MF Magnetron sputtering. 20KW 208V/3ph. 600, 800, 1000 VDC output. (Item No. 3720)	Cleaned & Tested	\$6,000
ERA PPS-7910 MF Magnetron sputtering. 10KW 208V/3ph. 600, 800, 1000 VDC output. (Item No. 3722)	Cleaned & Tested	\$3,500
Eratron PPS-8210 dc sputtering 600,800,1000 vdc, 208 3ph. (Item No. 3729)	Cleaned & Tested	\$3,500
Eratron PPS-8210 10KW DC sputtering P.S. 480/3ph. 600,800,1000 VDC output. Remote control panel (Item No. 3727)	Rebuilt	\$4,000
Hitran DCS-10,000 L, 10kw magnetron sputtering 220v 50/60 Hz 600/1000 vdc output. (Item No. 3735)	Cleaned & Tested	\$5,500
Hitran DCS-3000L magnetron sputtering. 3 KW 600/1000 VDC, current regulated, saturable 3250 reactor controlled. Full floating output, ammeter, voltmeter, & timer. 208/230 V/3. Rack mounted, 19" w x 17 1/2" h x 20" l. (Item No. 3716)	Used	\$3,250
Hitran DCS-10,000 L, 10kw magnetron sputtering 220v 50/60 Hz 600/1000 vdc output, no timer. (Item No. 3733)	Cleaned & Tested	\$4,750
Hitran DCS 5000L Schem BB-0019 , 5.75KVA 3 target o/p w/ SW relays, comm ground 220V 50/60 Hz 3 ph. 600-1000 VDC out. (Item No. 3724)	Cleaned & Tested	\$3,500
Simard TS/2 Trimag gun power supply, 208V 3 ph, -1000V 2A out, mfg. By ERA (Item No. 4825)	As Is	\$1,500
Temescal SP-15C magnetron sputtering 15KW 208/230V/3Ph. with FC-3200 interface and remote control panel. Saturable reactor control. (Item No. 3740)	Unused	\$12,500
Varian 980-2084 S-gun power supply and control module for one gun. 980-2062 DC sputter gun No cables (Item No. 3749)	Repaired & Tested As Is	\$5,000 \$2,000

75) POWER SUPPLIES-Titanium sublimation.

P_E 221-294-300 Boostivac TSP/Ion pump P.S. Kings H.V. conn. Model 224-0635. (Item No. 3867)	Cleaned & Tested	\$1,800
Temescal SS-20 Selectovac 300 W Titanium pump control (EBPS). 3 KV, 100 Ma, Fil. 6 V, 20 A. Operates RFP-1 EB fun. No focus. (Item No. 3861)	Unused	\$950
Ultek 224-0540 Boostivac TSP PS. 8V fil xfmr. (Item No. 3869)	Cleaned & Tested	\$1,850
Ultek 60-656 TSP/ion pump control (Item No. 4767)		\$1,200
Ultek 60-656 TSP/ion pump control 6.5V fil xfmr. (Item No. 4988)	Cleaned & Tested	\$1,200
Ultek 60-655 TSP/ion pump control. 6.5V fil xfmr. (Item No. 3871)	Cleaned & Tested	\$1,150
Varian 922-0032 TSP control L/C gray. (Item No. 3877)	Cleaned & Tested	\$695
Varian 922-0041 Ti-Ball controll 220 V, 5 A, 50/60 Hz. (Item No. 3865)	Cleaned & Tested	\$1,375
Varian 922-0006 TSP control with two #8 welding cables to "old style" TSP cartridge. (Item No. 3875)	Good Used	\$475
Varian 922-0032 TSP control L/C Varian green. (Item No. 3879)	Cleaned & Tested	\$725
Varian 924-0730 10 FT #8-4, TSP conductor cable. (Item No. 3881)	New	\$325
Veeco PS-221 Electron beam sublimator control. (Item No. 3873)	Used	\$495
Veeco-Andar PS-220 Ti Pump control (EBPS) + 6KV,50Ma. 5V, 15A FIL. (Item No. 3863)	Cleaned & Tested	\$1,250

76) POWER SUPPLIES-Under 100 volts.

Airco Temescal CCRS75/3000CI SCR power supply. W/C, for magnet or furnace. 17500 440V/3/60/300KVA. 75V @ 3000 ADC output. (Item No. 3910)	Cleaned & Tested	\$17,500
Battery charger, Selenium Rect. 440V/3/60/50A. 27-32V @ 600 ADC out. On casters. (Item No. 3906)	As Is	\$600
Bucking coil (general duty) DCPS, 0-100 V DC, 15 A, V/A meters, P-Stat 136, 120 V, 20 A. (Item No. 3900)	Used	\$225

Item	Condition	Price
Calco 7V103AF 120V 10ADC reg. 7" x 19" rack (Item No. 4664)	As Is	\$250
Centorr Furnace Power Supply Mfg Walker Power # 60-0031/1985. 208:12V 1 Ph. 12 KVA transformer. Halmar #PAI-2470AD 240V, 70A SCR 75:5 ACT Two 8' W/C furnace leads. Cabinet Nema- 24"W x 40"lx 32"H (Item No. 3914)		\$3,500
DCPS Perkin MR550-50, 5-50 V, 50 A, saturable reactor control, 28 x 19 PNL, 17 1/2 dp. (Item No. 3894)		\$1,750
DCPS Perkin MTR636-15 6-36V @ 15A, transistor control 120V 14A 1ph, 12 1/4" x 19" pnl, 16" dp, s/n 11029 Perkin Engr El Segundo (Item No. 4704)	As Is	\$500
Induction heating/furnace; ECCO M52B, 220 V/1 50 KVA. 7 pos tap swith for 2-5.1 V output. 1350 With meters & size 3 contactor. (Item No. 3904)	Used	\$1,350
Induction heating/furnace. Robicon 50 KVA, 480 V, 1 Ph. SCR, Hunterdon 440/480 V: 4500 60 V W/C transformer, CT & Contactor. Terminal strip for remote meters & controls. (Item No. 3908)	Good Used	\$4,500
Kepeco BOP72-1.5M Bipolar OP Amp +72V@+1.5A output Rack Mtd. (Item No. 3896)		\$1,250
L&N (fincor) #1202-37-13B Furnace Power supply 208-240V, 1 Ph, 130A. Halmar # PA1-24140 (240V 140A) SCR phase angle power controller. 208/240: 60V 25 KVA transformer. (Item No. 3916)	Cleaned & Tested	\$1,750
Silicon rectifier. Christie CX5000-24SC, 220/440 V/3, 12-65 VDC, 45-180, 6 KW. (Item No. 3898)		\$650
Sputter gun bias supply, Varian 980-2082, 208 V/3 in. 25/40 VDC, 10 A output, fixed, unreg., 3 ph F.W. bridge, no filter (Item No. 3912)	Good Used	\$575
Tamura #OVS-15H Modular Switching P.S. 10.62x4.8x 2.6". Remote sensing 115/230V, 47-63 Hz, 4.2/2.1A, 15VDC, 18 A out. (Item No. 3888)		\$250
Varian 7.5 KVA, 240 V/1 furnace control console. Voltmeter, armeter, and wattmeter, P-Stat & 3 circuit breakers. 7.5 KVA XVFR w/7.5/8.0/8.5 V output. (Item No. 3902)	Good	\$1,975
Veeco 50/100/500 A filament current meter. 1/4 panel mounting. (Item No. 3886)	Good Used	\$175
77) <u>PUMPS-Misc.</u>		
Air Compressor. ITT SYCGH5-1. 1/4 HP. (Item No. 825)	Used	\$145
Gas Booster Pump. Leiman 263P 3/4 HP 115/230 V w/gas reg. on top. (Item No. 827)	Unused	\$650
Varian 921-0004. Pos 7.2kv, 235ma, runs 125 l/s pump. (Item No. 3803)	Cleaned & Tested	\$675
78) <u>PUMPS-Water.</u>		
Water pump. B & G 81-T. 1/2 HP 208-220/440 V/3. (Item No. 851)	Used	\$95
Water pump, corrosive. Plastic & cast iron housing with carbon bushings. 3 HP 230/460V, 3 ph 7.8/3.9A, 3475 RPM. (Item No. 860)	New	\$350
Water pump. WWG. 1P836 3/4 HP 208-220/440 V/3. Cast iron. 40 GPM @ 30' head. (Item No. 853)	Used	\$100
Water pump. LFE 2J34F. Eastern 1 1/2 HP 208V 4.6A 3 ph. Bronze pump 1/2" pipe conn. (Item No. 855)	Unused	\$300
Water pump 50CFM. Pacific Pump Co, Oakland. 37-10705-0130001-1821 15 HP 230/460V (Item No. 857)	Used	\$250
Water pump Aurora # CB145ttdR 7913 ACW 3 HP 230/460V Brass 1", 3/4 out (Item No. 849)	Unused	\$750
Master Flex Pumps & Tube. & controls	Call For Specs	
79) <u>RESIDUAL GAS ANALYSIS EQPT.</u>		
Balzer Prisma QME 200 AMU head with RF box, no cables or software. (Item No. 5038)	Good Used	\$3,000
Balzors QMG-064 Partial Pressure gauge, 0-64 AMU, consisting of QMS-064 control unit, QME-064 analyzer electronics, QMA-064 analyzer tube mounted on a 2 3/4 CFF with all cables, with unused tube \$3,500 (Item No. 2976)	As Is	\$2,750
EAI 1210 quadrapole control. (Item No. 2982)	As Is	\$1,000
Inficon Quadrex 200 head. Faraday cup. 019-100-Gi (Item No. 2994)	New In Box	\$2,750
Inficon Quadrex 200 controller 901-002-G1 (Item No. 4744)	Used	\$600
Inficon Quadrex 200 head selector # 902-001-G1. (Item No. 2998)	Used	\$950

Item	Condition	Price
Inficon Quadrex 200 019-100-GI Faraday cup head and 901-200-G4 sensor control. (Item No. 2996)	Used	\$3,500
LH/Inficon OGC-1 Partial Pressure controller for 2 gas reactive coating. Control, RF box & head. IPN 754-004-GI. (Item No. 2990)	Good Used	\$9,500
LH/Inficon OGC-1 Partial Pressure controller for 2 gas reactive coating. IPN 754-004-GI, control & RF box only. No head or cables. (Item No. 2992)	Good Used	\$7,500
UTI 100C Quadrapole Head and cable (Item No. 3012)	As Is	\$2,000
UTI 100 Quadrapole controll, RF box & cables (Item No. 3010)	As Is	\$2,500
UTI 100C 2211 newer model, various assys, parts and inlet manifolds, please call for details and price (Item No. 4877)		
UTI 100C Quadrapole Head, with closed source for high pressure sampling (Item No. 4696)		
UTI 100C Mod 30 amplifier		
UTI 100C Quadrapole Head, RF box & control. 300 AMU, Photomultiplier. (Item No. 3006)		
UTI 2211A RF Generator (Newer 100C) Mounted on Quad probe head (Item No. 3016)	As Is	\$3,500
UTI Spectralink 100 Control (Item No. 3008)	As Is	
UTI-Probe, Model# 03911-3352, 2211-A RF Gen. & control, with Balzers TPU 060 turbo pump, with 3 Nupro air controlled throttle manifold assy. POR (Item No. 4525)	Used	
V.G. Gas Analysis, LTD SX-200, 200 AMU control bot. Model 401 RF bot. & model SX-2-272 faraday head on 2 3/4 CFF, needs 37 wire D-Conn. Cable w/manual (Item No. 4745)	As Is	\$2,000
Varian 974-0036 PPG & Hd. It worked. (Also control parts) (Item No. 3018)	As Is	\$500
Varian 978-1000 (Anelva) Quadrapole power unit only. (Item No. 3000)	Repaired & Tested	\$1,500
Varian 978-1000 (Anelva) head ionizer w/2 fil assy. 07-430285. (Item No. 3002)	New	\$750
Varian 978-1000 (Anelva) head housing. 5 3/4 nipple w/2 3/4 CFF. 1 w/N-CONN. 07-430206-49. (Item No. 3004)	New	\$275

80) RF MATCHING NETWORKS & EQPT.

3 KW Advanced Energy 5031/3155031-004A. 13.56 MHz auto matching network, 120V. Usually run by a remote control but optional hand held manual controls are available. (Item No. 5133)	As Is	\$2,500
1 KW ENI SL-1000 Auto match network (Item No. 4856)	As Is	\$500
1 KW Plasmatherm AM -10, automatch network 16 x 13x 6 1/2 (Item No. 3638)	As Is	\$1,250
1.5 KW Plasmatherm AMN-1500E, Auto match network. 91/2"h x 161/4"w x 19"d. (Item No. 3640)	Used	\$1,500
2 KW Plasmatherm AMN-2001E, Auto match network. W/C 91/2"h x 161/4"w x 19"d. (Item No. 3644)	Used	\$2,000
2 KW Plasmatherm AMN-2000E, Auto match network. W/C 91/2"h x 161/4"w x 19"d. (Item No. 3642)	Good Used	\$1,500
2.5KW Mercator auto match network. No control panel. (Item No. 3646)	As Is	\$1,250
3 KW Plasmotherm RCM-1 Forward & reflected power contol/meter panel. 51/4"h x19"w. W/MS conn. (Item No. 3672)	Used	\$500
5 KW Plasmatherm AMN-5000E, Auto match network. W/C 91/2"h x 161/4"w x 19"d. (Item No. 3652)	Used	\$2,500
5 KW Plasmatherm AMN-5001E, Auto match network. W/C 91/2"h x 161/4"w x 19"d. (Item No. 3654)	Used	\$3,000
500 W Plasmatherm AMNS-500E Auto match network. Needs Vac cap., panels & conn. (Item No. 3636)	Used	\$350
500W Mercator auto match network. No control panel. (Item No. 3630)	As Is	\$750
500W Plasmatherm AMN-501 Auto match network. 3 SPDTair op. Relay. 5 1/4" x 19x 16"Deep (Item No. 3634)	Used	\$1,500
1KW MRC Manual network N-CONN input 16"x 15"x 10" Hi		\$500
William N. Nye Antenna Impedance matching network with inductor and capacitor		\$100

Item	Condition	Price
500W Unk. Mfg. Manual match box Cardwell capacitor & Jennings cap. Bias meter (Item No. 3628)	Used	\$500
Advanced Energy LM-5K 5 KW, 40 KHz 50 ohm match autoformer and 4 pos. sw in box (Item No. 4893)	Used	\$750
BIRD 4715 RF dummy 50 ohm load. 1KW W/C. (Item No. 3679)	Good Used	\$550
P-E 220-967-200 Programmable power stabilizer rev B (Item No. 3683)	Good Used	\$1,200
P-E 221-777-000 R.F. power stabilizer for 4400/10 (Item No. 3681)	Good Used	\$1,500
Plasmatherm AMN PS-2 Auto match network P.S. 7 1/2" h x 19" w panel. (Item No. 3658)	Used	\$1,000
Plasmatherm RCM-1 Forward & reflected power control/meter panel. 7" h x 19" w. W/MS conn (Item No. 3674)	Used	\$500
Plasmatherm APCS automatic power level control. (Item No. 3662)	Used	\$700
Plasmatherm APCS-3 automatic power level control. (Item No. 3664)	Used	\$950
Plasmatherm TARGET & SUBSTRATE voltage control panel. 3 1/2" h x 9" w. (Item No. 3666)	Used	\$450
Plasmatherm SEV-2DC Bias control panel w/ 2 digital meters. 3 1/2" black pul. for Comptech 7010-0015-0. (Item No. 3668)	New	\$1,500
Plasmatherm AMN PS-2A Auto match network P.S. 1 3/4" h x 19" w black panel. (Item No. 3660)	Repaired & Tested	\$1,250
Plasmatherm 15KW remote. 2 analog meters. 3 1/2" Black pul. for Comptech 7010-0015-0. (Item No. 3677)	New	\$1,000
Varian # B675 685A Matching network controller 3 1/2 x 19" (Item No. 3687)	Fair	
81) SEMICONDUCTOR PROCESS EQPT.		
App Materials OZONATOR Ozone Generator S/N 582 P/N 0010-09093 REV. J 7 x 19 x 18 D (Item No. 3105)	Needs Repair	
Zenith G400-80-SS Ultra sonic cleaner w/10x14x10" hi SST tank needs tank plug 110v 15a	repaired & tested	\$1,200
Branson B-125P 22" h x 16" w x 12" dp. Ultrasonic vapor degreaser for freon 120V 10A (Item No. 4600)	Good	\$950
Branson PLD-101 2 R S/N4-6591-3 18x18x19 & 18x18x26 Tanks		POR
GCA 4600 Wafer stepper. 5" wafer stage, assorted plates (Item No. 3107)	Very Good	
Intl. Plasma dual 8" d x 14" lg barrell plasma etcher, 1500 W RF P.S. 208-240V 1ph, 39" h x 37" w x 24" d, needs work, no MP (Item No. 4751)	As Is	\$1,750
Galiso-NUVAC MRP-203 ELC Hot gas Recirculation & Sweep System. Circulates inert gas thru Vacuum chamber system to remove moisture & particulate. 208/230V 3ph 4 wire 12.7A 3HP 3ph 9.2A blower motor. Three KF-40 connections. Requires 18 CFM min. @ 100 millitorr external dry pump. 19" w x 42 L x 45" hi caster cart. With Varian 990-CLD Turbo leak detector attached. With Manual.	Excellent	POR
Iuoraware Systems 8230/116 Wash machine Also available 8221-188 (Item No. 3085)	Used	
MET-ONE, Point 5 particle counter. Digital read out. DBS. No schematic. (Item No. 5114)	As Is	\$450
Modulaire Flow Hood 33" x 33" x 8' L. 2 Blowers (Item No. 3097)	As Is	\$400
Technics 3000-1 Plasma Desmear System. 36" d x 40" lg Alum. chamber. 3" ASA Temescal Poppet Valve. Pump system optional. ENI 3KW RF P.S. Vacuum General 80-4 flow monitors. Vac gauge & control console. 40K Hz-100 Khz (Item No. 3083)	As Is	\$9,000
Temptronic TP37A5-1 Thermal Chuck control unit. No chuck. (Item No. 3099)	Used	\$575
Temptronic TP450A semiconductor heat cycle test system, -60 to +150 C air stream. head, pwr unit, & controls (Item No. 4688)	As Is	\$2,950
Varian A-scope for deposition thickness measurement. Mod 980-4020 (Item No. 3103)		\$3,250
Zylin 4" Wafer dry etcher with three ENI 1600 Power supplies. (Item No. 3081)	Very Good	\$10,000
82) SPUTTERING P.S ACCESSORIES & EQPT.		
Advanced Energy 2189-010-A Ratio transformer & 4 pos tap SW in box (Item No. 3593)	Good Used	\$750
Advanced Energy LM-5K Ratio transformer and 4 position tap SW in box. (Item No. 3591)	Used	\$750

Item	Condition	Price
Eratron QRP remote control panel. 1/4 " wide rack. (Item No. 3731)	As Is	\$500
Varian 980-2084 S-gun remote gun panel (Item No. 3747)	Used	\$1,500
83) SUBSTRATE HEATERS & CONTROLLS.		
Substrate heater control 137-500, also controls motor speed & shutter, POR. (Item No. 4802)	Used	
Substrate heater PS, P-E 791-525-400, 7 x 19 x 12"d. (Item No. 3974)		\$975
Temescal HA-2 Substrate heater array. Two 500 W120V tubes in SST holder w/polished moly reflectors. (Item No. 2432)	Tired	\$150
Varian 901-2080 substrate heater control 208/240 V, 40 A. 2 mode LFE controller w/TC (Item No. 3968)	Cleaned & Tested	\$975
Varian 924-0029 Pump heater control 230 V, 15 A, (Item No. 3966)	Used	\$275
84) SURFACE ANALYSIS & INSPECTION EQUIPMENT.		
3M 520 Ion Scattering spectrometer and secondary ion mass spectrometer (SIMS) with two bay console. Ion beam raster/gate and digital multiplex controls, two channel electron multiplier P.S., Kepco NTC 2000 P.S. prgm. PE 224-0620 ion/TSP control, GP 260-0 (Item No. 178)	As Is	\$9,500
Materials Analysis electron microscope EB gun & focus coil assy. #1144-03. No P.supply (Item No. 3513)	As Is	\$600
Perkins-Elmer Physical Electronics Industries SIMS System Mod 40-300. 15-720 Specimen introduction/reaction chamber. 06-600 Spherical SIMS analyzer. 15-620 Specimen stage (4 Knob manipulator). 04-303 Sputter ion Gun. 7 ea 2 3/4 CFF VP & 1 ea 8" CFF (Item No. 180)	As Is	\$35,000
Elliot rotating anode xray machine GX-21 w// HIRST 1025 camera, for Integrated circuits. 18KW, 60KV,300mA HV PS oil tank. 0.5 x 10 mm spot @ full power, w/ Leybold Turbovac 220 & D8A MP and vacuum controls. (Item No. 4333)	Good Used As Is	\$10,000
Vickers Microscope # M411438, w/ BF/DF, Filter, polarization, Img rev, 4 Objectives , Photoplan Reverse lighting, with 5" wafer stage, XYZ and tilt control , 100w lamp power unit, digital read out bot. Needs minor alingment,. (Item No. 4335)	Very Good	POR
85) TEMPURATURE MONITORS & CONTROLLERS.		
Eurotherm 818S Digital process controller. TC input 4-20 Ma out. (Item No. 3390)	New	\$400
Ircon Modline Infrared radiation thermometer. 7-08C10-200 with head. 300-800o C range. 3 mode 0-5 ma. CAT proportional controller. (Item No. 3412)	As Is	\$500
Ircon Modline Infrared radiation thermometer. 7-08C10-200 with head. 300-800o C range. 3 mode 0-5 ma. CAT proportional controller.w/ 200-550C Digital thermometer 6-99C15-020000/620 (Item No. 3414)	Used	
Leeds & Northrup 8620 series optical pyrometers in cast alum. box, poor to very good cond., \$400 to \$1250. POR. (Item No. 4695)		
Lindbergh 59545-B-C4 Controller Analog 5W 208V w/ L&N trendtrak Prgm controller 100-150C (Item No. 335)	Used	\$700
L & N Electromat III controller. 300- 1300 deg. C (calib 350-1125 deg. C) Range. Type K TC. Cat. No. 6432-6-4017-390-2-20		\$250
L & N LN 1-2450 (HALMAR DPA 1-2450) 50A 240V Phase angle fired SCR power control W/ bias & gain pots. Schem 05D0251	Good	\$475
MKS 272 temp. controll (Item No. 4911)		
Nortec PC 71 Programmable Controller (Item No. 3076)	As Is	\$250
Watlow 360A-5601-3000 0-600F /310C Type J, Iron , const. temp ctrl, 115/230V 5A (Item No.3416)	Checked Out	
86) TEST EQUIPMENT.		
Acromag 160T-K-U-1-C Transmitter Ty K TC Input 4-20/ 10-50 mA DC output (Item No. 3400)	Unused	
Assoc. Research 4050AT 5 KV, 15 mA AC, HY-POTes w/manual (Item No. 4946)	Unused	\$950
Bausch &Lomb tabletop 5" strip chart recorder. 0.1-500V, 1-10e5 Ohm ranges. 0.5-20 in/min chart speed (Item No. 3381)	As Is	\$100
Bird 8329-300 coaxial attenuator, 2000W in 50 ohms 2W out, 1/4 KW w/BA-88 blower off/on (Item No. 4676)	Used	\$1,250
Bird 8890-300 50 ohm 2500W dummy load, 1.25/5KW w/BA-88 blower off/on (Item No. 4754)	Used	\$1,000
Brown 17-I-23 Iron-const. T.C. meter w/12 pos. sw. (Item No. 4729)	Old	\$100
Heath/Schlum, SR-204 11" table top chart recorder, 10mV, 100mV, 1V, 10V range, 0.01-10 in./hr speed (Item No. 4851)	As Is	\$150

Item	Condition	Price
Honeywell Programmable Digital process controller Mod. DCP 7115G WF 15010HO W 5% Re/W 26% Re thermocouple. 4-20 Ma into 600 ohms max. (Item No. 3394)	Unused	\$1,950
Honeywell Digital process controller. Mod UDC40005G LN 2400400. 4-20 MADC signal input. 4-20 MADC output into 600 ohms. 120/240 AC Power. (Item No. 3392)	New	\$400
Houston Inst. Omniscrite chart recorder. Model 5211-1, 2 pen, 15 speeds, 1/16"/min. to 8"/min. w/writing platter. (Item No. 4636)	Pens Chatter	\$200
Houston Inst. Omniscrite chart recorder D. Model D5117, 1 pen. 18 chart speeds. 1-10in/min ÷ 1,10 & 60. 10MV F.S. fixed. (Item No. 3368)	Good	\$300
HP 7004B XY Recorder 10" x14" 17171A preamps, 17172A time base, 17176 scanner 0.5mv to 10V/in (Item No. 3418)	Good Used	
HP 7035B Xy Recorder 7" x 10" travel. 1 mV - 10V range. 10 1/2" x 19" rack mount. (Item No. 3420)	Good Used	
L&N Multi point Recorder 0-600F Type J. 1 chart speed. 6 TC's in EMCORI. 17 1/2 slope, PNL space 51"Hi x 25"dp cabinet w/ electric PS (Item No. 3397)	Used	\$700
L&N Maxiview XL Cat No. 632 - 10" Chart recorder. 2 pen, 1-360 in/hr, 100 mV fixed in 3 1/2" x 19" rack mount. (Item No. 3404)	Used	\$700
L&N 6432-6-4044-470-2-20 E'Max III controller. 0-200o C I/C TC. 0-5 Ma output. (Item No. 3402)	Unused	\$450
L&N 833 speedomax "M" Mark III 3 pen reorder. 4MA, 1V & IV scales, 6in/hr chart, self inked pens (Item No. 3406)	Unused	\$950
L&N S' Max M, bamboo tip ink pens. Red 054323, Blu. 054324, Gr. 054325 (Item No. 3408)	New In Box	\$15
L&N S' Max H Recorder 166-04-000-10-01-0056-6-00000-522-001-056. MULTIPONT, 0-600 C, type J I/C T.C.. (Item No. 3410)	Good Used	\$1,500
L&N's max. w/Multipoint recorder, -100 to 500 F, I/C type JTC, 3 & 12"/hr. w/flexselect in caster cabinet (Item No. 4612)	As Is	\$1,250
L & N S' Max "w" 12 position Recorder. Flexselect w/ AZAR. 0-100 Paper 10" wide.		\$1,000
L&N 8622 Al case, disappearing filament optical pyrometer. Many models. (Item No. 4186)	Used	Call For Info
Linear 6" table top strip chart recorder. 1MV-10V, 1 cm/min- 30 cm/Hr. (Item No. 3377)	Used	\$250
Linear INST 255-14 11" table top chart recorder 1,10,100,1000 mV ranges, several chart speeds (Item No. 4622)	As Is	\$350
Macon (Molytek) chart recorder w/writing platen. Mod. 3501-MS4. W/pen lift, fast fwd & rev.12 ranges 1 MV-10VDC, 12 chart speeds .5 in/hr- 10 in/min. (Item No. 3372)	Good	\$350
Recorder 4", 2-pen, -100 to +250 F type "T" TC. (Item No. 3375)	Used	\$125
RES-NET RFA-500-NFF-7 500W 7db autenuator. Amb. Heatsink. N-conn in & out. (Item No. 5070)	Unused	\$300
Tektronix 5111 storage Oscilloscope 5A15N input amp 5B10N time base/ ampl 5 1/4 x 19" rack mount (Item No. 3422)	Good Used	
Tektronix 564 storage oscilloscope, 3A7 diff. Comp. Input & 3B1 time base table top mtg. (Item No. 4592)		
Tektronix 454 portable oscilloscope (Item No. 4784)		
Tektronix 7844 dual beam oscilloscope 7A19 left vert. Amp. 7A18 dual trace right vert. Amp; 7A17A Horiz. Amp, 7A26B horz. Dual trace amp. (Item No. 4601)		
Tektronix 500/53A model 6 scopemobile w/drawer & 2 plug in housings. (Item No. 4706)		
Tektronix 202-2 model B scopemobile w/drawer & 2 plug-in housings (Item No. 4811)		
Tequipment CT-71 curve tracer (Item No. 4816)		
Visirecorder 1012 oscillograph recorder. (Item No. 3388)	Used	\$800
L&N Speedomax W/recorder 063206 12" wide 0-100 paper. Digital readout.		\$800
Fluke 1752A Data Acquisition system	Per Lot	
Fluke 2400B Intelligent computer front end	Per Lot	
Fluke 1722A Instrument controller	Per Lot	\$250
Linseis Typ 2025 10" folded chart recorder 10mv-50 v input. 2 channels. Many chart speeds	As Is	\$200
L&N Speedo Max W w/ AZAR control & 10 flexselect panel. 3 L&N Elctromax III controls and 3 Halmar LN1-2450 SCR control. Mtd on casters stand.	As Is	\$1,950
Tektronix 7488 Dual beam scope on cart	As Is	\$ 350
Tektronix 454 oscilloscope		\$100
Tetronix 564 storage scope and cart		\$250

Item	Condition	Price
87) <u>THICKNESS MONITORS/RATE CONTROLS & PARTS.</u>		
Dyn optics 580D control panel box only. (Item No. 3040)	As Is	\$1,000
Inficon 008-010 Sensor crystals pkg. of 5 (Item No. 3066)	Unused	\$25
Inficon 007-029 10ft lg remote oscillator cable assembly. for 321, XMS, XTM DTM. Used \$150	Unused	\$200
Inficon 013-001 external Oscillator for XTC and IC-6000 (Item No. 3064)	Used	\$150
Inficon 321 digital thickness monitor w/cord and oscillator cable. No head. (Item No. 3046)	Used	\$950
Inficon 333 Deposition Process Controller . Works from 321. (Item No. 3050)	As Is	\$500
Inficon 343-1 single programmer. Works with 321 & 333. (Item No. 3052)	Unused	\$750
Inficon 343-2 dual programmer. (Item No. 3054)	Unused	\$1,250
Inficon I/C 4 DTM & rate control (Item No. 4686)	Unused & Tested	\$3,500
Inficon IC-6000 Digital thickness & rate control. Tested. (Item No. 3048)	Used	\$3,000
Inficon XMS-1. One Film programmable thickness & rate control (Item No. 3056)	Repaired	\$950
Inficon XMS-3. Three film programmable thickness & rate control. (Item No. 3058)	Repaired	\$1,150
Inficon XTM Thickness & rate monitor. (Item No. 3060)	Used	\$950
Inficon XTC thickness & rate monitor w/closed loop control (Item No. 4899)	Repaired & Tested	\$1,200
Kronos ADS-200 (Varian 985-7009) Automatic deposition system. (Item No. 5115)	Repaired & Tested	\$950
Kronos QM-331 Digital thickness monitor w/LED's. Materials & 2 setpoint switches. (Item No. 3042)	Good	\$750
Nortec RM 21 deposition rate monitor (Item No. 3074)	Used	\$400
Temescal 0506-1030-0 Model 8007 Oscillator (Item No. 3070)	Unused	\$150
Temescal 0202-7962-0 dual BNC to microdot conn., 2-1/4" SST tubes in 1" bolt (Item No. 4758)	Unused	\$350
Temescal DTC-10 crystals. Set of 1 Ref. & 10 work, 0306-0562-3. (Item No. 3068)	Unused	\$40
Temescal FDC-8000, six film programmable thickness & rate control. 1 input and 1 I/O module Black or Olive green (Item No. 3044)	Repaired & Tested	\$2,500
Temescal TP-1000 Time power controller (Item No. 3072)	Good Used	\$1,950
Veeco FPP-100 four point probe, thickness/resistivity w/manual (Item No. 4635)	Repaired & Tested	\$1,750
88) <u>TRANSFORMERS & SWITCHGEAR MISC.</u>		
1 KVA Sola CVS 23-25-210, 95-260:118-236V 60 Hz Nema 1 (Item No. 4692)		\$250
1.2 KVA Topaz 70 303. 90-135V 60 Hz 1 ph. 117V?7% 8.5A out (Item No. 4051)	Good	\$175
10 KVA ACME T-1-53516-3. w/taps, 240/480:120/240V, 1 ph, Nema 1, 60 Hz, 115 C (Item No. 4991)		\$300
10 KVA Daytron 240: 4, 8, 12, 20V. Tapped pri. one sec. open. (Item No. 4097)		\$1,000
10 KVA Power Trans. Ltd. 35066. 415: 208V 3 ph 50 HZ. OK for 60HZ. (Item No. 4099)		\$400
100KVA Crittenden style 23422, 480:46/50/54.4V 3ph/60Hz. 150" C rise. Siltec 3000-0490 used on crystal grower. See Sect. 4 for element. (Item No. 4163)	Unused	\$4,500
112.5 KVA FPE Mod 36B 480V Delta: 120/208V Y 7 pri taps, 655 lbs, Nema 1 (Item No. 4165)	Used	\$950
120 VA Sola 23-22-112-2, 115/230:118 V/1 Reg. Nema 1. (Item No. 4025)	New	\$100
145 KVA Electro 12324. 208 Y, 120 V:240/480 VY. 348/374 A, 3 Ph autoformer. Open. Used 2750 (Item No. 4167)		\$2,750
15 KVA Jefferson 221-2164 480: 120/240V 1 ph 60Hz Nema 1. (Item No. 4606)		\$450
15 KVA Jefferson 211-161 240/480: 120/240V 1 ph 60Hz Nema 1. (Item No. 4103)		\$495
15 KVA Matra 7015221. 240:240 V/3 isolation, Nema 1. (Item No. 4109)	New	\$850
15 KVA Wagner 5S25497. 480:35/70 V/1. Furnace, Nema 1. (Item No. 4105)		\$795
15KVA West #325B 00A08 480V Delta: 120/208V WYE 3 Ph (Item No. 4107)	Used	\$750
15KVA: 3 ACME T-1-53014-4 5 KVA 240/480:120/240V Nema 1 Transf mounted in 24"Hx36"Wx 15"D Nema 3R box . 3 taps (Item No. 4101)		\$950
16.5 KVA Olson # 2032-105, 1ph, open, 50/60 Hz, 115 C, pri. 208-480V; sec. 1, 53-37V; sec. 2, 53-37V; sec. 3, 77-57V (Item No. 4993)		\$450
2 KVA est. 1 Ph experimental-wind your own Sec. Open. (Item No. 4057)		\$250

Item	Condition	Price
2 KVA est. 2 Pri & Sec. 104/110/120 V. Isolation Open. (Item No. 4055)		\$150
2 KVA Hevi-duty D-85503. 220:5/10/20/40V w/sec. leads. Open. 50/60 Hz (Item No. 4063)	Used	\$300
2 KVA Sola 23-25-220, 115/230:118/236 V/1 Reg., Nema 1. Type CVS (Item No. 4053)		\$450
5KVA Jefferson 211-111 240/480: 120/240v 1 ph 60 hz class H w/4 wire MS plug & socket	Good Used	\$250
7.5KVA Jefferson 243-456 240/480:120/240v 1ph 50/60hz NEMA 1	Good Used	\$300
225 KVA Acme T-1-53317-3S 480?: 120/208V 3 ph 60Hz. 7 taps 1450 lbs. Nema 1 2500 (Item No. 4169)		\$2,500
23 KVA 3-Gang Powerstat MW1256D-3P-B paralleled, 120/240V in 0-280V out 84A max., 45 sec motor drive 115V (Item No. 4809)	Good	\$2,150
25 KVA GE 9T21B9104. 240/480:120/240 V/1, Nema 1. (Item No. 4115)		\$950
25 KVA GE 95G37 240/480:120/240V 1 ph 60Hz Nema 1. (Item No. 4113)		\$750
25 KVA Sorgel s/n X17975, 480:302-234V@83-64A, 1 ph 60 Hz, Nema 1. (Item No. 5061)	Fair	\$500
25 KVA Valley 440:10 V/1 furnace, Nema 1. (Item No. 4117)		\$1,250
264 VA, D & W 850-019. HV gun fil XFMR, Open.120V Pri; 6.6V CT, 40A Sec. 20KVDC Test. QT & E 1098. (Item No. 4041)	Unused	\$225
3 KVA Acme T-2793. 240/480:120/240V, 1ph, Nema 1, 60 Hz 55 C (Item No. 4990)		\$150
3 KVA SHAPE CTL-3000-CBB Reg. 120/208/240: 120/240V. W/outlets & cord. (Item No. 4065)		\$500
3.36KVA GE 9T92A39G2 Voltpac (Variable autotransformer) 240V 14A (Item No. 4069)	New In Box	\$275
30 KVA Acme T-1A-53312-3S. 480V delta pri w/7 taps. 120/208V. WYE Sec Nema 1. (Item No. 4119)		\$900
300 KVA GTE/SYL 31-0300-H008 208 V delta Pri, 277/480 V WYE sec. +/- 5% taps,3 Ph, Nema 1.1650 lbs (Item No. 4171)	Excellent	\$3,950
36 KVA QT&E 6840 (A-M #0190-35159 rev P3) 200/208V delta:120/208V wye, Pri-Sec shield 3ph, 50/60Hz. Nema 1, 100A 3ph breaker on prim. & second. 32"x 18 1/2" x 31" hi (Item No. 4833)	Unused	\$1,150
37.5 KVA GE 95G38 240/480:120/240V 1 ph 60Hz. (Item No. 4121)		\$750
37.5 KVA Jefferson 221-3205. 240/480:120/240 V/1/4 taps. Nema 1. (Item No. 4127)		\$1,250
37.5 KVA Zinsco 378-415-8H. 480:120/240 V/1/7 taps, Nema 1. (Item No. 4125)		\$1,150
37.5 KVA Zinsco 378-415-7H. 480:120/240 V/1/9 taps, Nema 1. (Item No. 4123)		\$1,150
39.3 KVA Electro E80079. Pv. 380V 47-63 Hz 5 taps,Sec. 9.3/11.5 KV @1.8A 2 taps open. (Item No. 4129)	Unused	\$2,450
4 KVA KYONAN K-0500 230:200V 3 ph. 50/60Hz NEMA 1 with circuit breaker. (Item No. 4071)		\$300
4.4 KVA Coherent/QT&E 2349. 207/225:17.7 KV, .25 A/1. 40 KVDC Test. Open. (Item No. 4073)		\$850
40 KVA Elma 320804. 460:9260 V WYE/3/3 taps. HV epoxy cast. Open. (Item No. 4133)		\$2,450
40 KVA QT & E 5652. 480 V delta: 24V Y @962A 3ph. W/C, 1150C rise, open. (Item No. 4135)	Unused	\$1,750
400 A, 600 V 3 Pol. heavy duty safety switch for above. No Neut. ITE F355, Nema 1. (Item No. 4174)	Excellent	\$575
43 KVA Crittenden 20633. 440:20 V-2150 A/1 furnace. Nema 1. (Item No. 4139)	Used	\$1,795
43 KVA Hill 480:18 V-2390 A/1 furnace. Nema 1. (Item No. 4137)		\$1,495
45 KVA GE 9T23Y3003 480:120/208V WYE 3 ph 60 Hz. (Item No. 4141)		\$850
45 KVA SORGEL TD 3045H4-36 480:240V, 3ph. 7 taps Nema 1 525 lbs Test unit (Item No. 4147)	Cleaned & Tested	
45 KVA SQ-D/Sorgel 45T3H, 480:120/208V, 7 pri. taps, 3ph, 60 Hz, 150 C rise, 359 lbs. (Item No. 4995)		\$600
45KVA GE 9T23B 3873 3 ph 60Hz 150C, 480:120/208V Y. 7 pri taps 325 lbs (Item No. 4145)	Good	\$600
45KVA Square D style 33716-17412-009 Cat # 45T85H1S 5.8% Z@220C INS sys for 150C rise ClassAA 208V Delta C 125A:120/208V Y @125A. 7 Pri taps 3ph Electrostatic shielded (Item No. 4143)		\$450
5 KVA G.E. 9T21B1007. 480:120/240V, 3 taps. 115 C rise, Nema 1. (Item No. 5116)	Good	\$250

Item	Condition	Price
5 KVA Jefferson 221-2112 240/480:120/240V 1 Ph 60 Hz Class H (Item No. 4079)	Good Used	\$250
5 KVA TOPAZ 91005-14 Ultra ioslation. O.005 pF. 120/240: 120/240V 50/60 Hz. (Item No. 4081)	Good	\$600
50 KVA G.E. 9T23B3012. 480 :277 Y480V/3ph 60 Hz 350 lbs (Item No. 4149)	New	\$1,000
50 KVA WEST. V48M28T50G 480 :120Y208V/3ph 60Hz 600 lbs (Item No. 4151)	New	\$1,500
500 VA, RS 207-469, 240:240V/1 ph, 50/60 Hz. Isolation, open. (Item No. 4029)	New	\$60
500 VA, SOLA 20-13-150 Type CV-1 95-130: 118V@ 4.25 A. (Item No. 4033)		\$125
500VA, SOLA 23-22-150 Type CLA 95-190X 130-260V:118V (Item No. 4031)	Used	\$125
5KVA ACME TRM 51889 S/N V66 P/N4 (Item No. 4075)		\$200
6 KVA 1 gang variac W50HBB, 240V 25A open, motor drive & misc relays (Item No. 4595)	As Is	\$250
6 KVA approx. 3 gang Powerstat S334P 240V wye 6 sec. Motor drive - open (Item No. 4865)	As Is	\$375
6.9 KVA Temescal 2F 1373C. 208/240:4700/8150 V wye @ 490 MA. (HV transformer for ES-6 EBPS) Open. (Item No. 4085)	Unused	\$1,950
62 KVA 8-gang Powerstat 1256D-8PS manual, 480V/1/60Hz in, 0-560V 112A out, open fuses (Item No. 4639)	Excellent	\$5,000
7.5 KVA Acme T-I-53515 240/480V w/6 taps to 120/240V/1 Nema 1. Term compartment cut off. (Item No. 4093)	Used	\$250
7.5 KVA Acme TF-2-52794 220/440: 110/220V/1. Pri taps. 50/60 Hz. Nema 1. (Item No. 4089)	New	\$300
7.5 KVA Burton 14760. 220:124 V/1 Furnace, Nema 1. (Item No. 4095)		\$595
7.5 KVA Neeltran type 2902. 208/230:30V, 1ph, open, 60 Hz (Item No. 4992)		\$600
7.5 KVA QT&E 5655 480V:120/240V 60 Hz, 1ph open (Item No. 4700)	Unused	\$350
7.5 KVA Sorgel 751F 120/240:240/480V/1, Nema 1 (Item No. 4599)		
7.5 KVA Sorgel 751F 120/240:480 V/1, Nema 1. (Item No. 4087)		\$400
7.5KVA Acme T-2-53515-3S 240/480:120/240V/1.6 pri taps 60 Hz 110 lbs w/ electrostatic shields (Item No. 4091)	New	\$350
750 VA, Halmar 221 24, Custom Coil spec 66-302C . Control transformer 380-415,440-480,525-575:110-120/120-131V 1 Ph. open. (Item No. 4035)	Unused	\$150
75KVA Jefferson 223-3234 6 taps 480V Delta: 120/208V Y 60 Hz 3 ph 600 lbs Nema 1 (Item No. 4155)	Used	\$750
75KVA Square D style # 14333-06112-001 380V: 110/220V @ 680/340A 1 Ph 50/60 Hz 6 pri taps 640 lbs (Item No. 4159)	Good	\$1,000
75KVA West. Style V48M28T75J 480V Delta: 120/208V Y 8 Pri taps 3 ph 60 Hz 500 lbs Nema 1 (Item No. 4157)	Used	\$650
8 KVA Thermtec 85-51, QT&E 4900, 208V, 1ph 60 Hz prim. 4 sec: 104V @ 9.6A; 52V @ 38A; 12,15,18V @ 167A; 6,7.5,9.7V @ 500A, open frame, 140 lbs. (Item No. 4616)	Used	\$750
80 KVA Superior Electric Stabiline EMT 6475Y voltage regulator 400-520 V inp reg. to 460 V/3 Ph. (Item No. 4161)	Good	\$3,500
840 VA . D & W 850-032. HV gun fil XFMR. Open or Nema 12. QT & E 961 120V Pri; Two 6V,70A.CT Sec 20KVDC Test. (Item No. 4043)	Unused	\$450
Allen-Bradley 709AOD103 motor starter. Size 0, 3 Pole, 3 O.L., 1 N.O Aux contact. Open. 120 VAC coil. (Item No. 4180)	New In Box	\$95
Furnas 18EG32BMDA. Size 1 3/4 combination motor, starter, in NEMA 1 Dustite encl. 40A 240V 30 A motor circuit protector. 120/240V coil (Item No. 4182)	Unused In Box	\$350
GE 9T46Y7517 DC reactor, 0.0018 ohms, 0.0012 Hy.@320ADC, 8.6V RMS@360 Hz, for 125V circuit, Nema 1. (Item No. 4769)	Used	

Item	Condition	Price
Sartron 2868, High reactance. 208/230V/1 3470 VOC. approx .8ASC for Ultek ion pump P.S. (Item No. 4005)		\$350
Varian 921-0066 IPCU. (Item No. 4011)	New	\$700
Varian 921-0062, Ion pump supply xfmr. (Item No. 4009)	New	\$400
Varian 921-0038 IPCU. (Item No. 4007)	New	\$675
Varian 921-0005/18 IPCU, 922-0002 glow disch. (Item No. 4003)	New	\$750
Varian 921-0014 ion pump control unit xfmr. (Item No. 4001)	New	\$295
Varian 921-0006/15 ion pump control unit xfmr. (Item No. 3999)	New	\$195
Westinghouse POW-R-LINE C, PRL-3 distribution panel. 120/208V, 3ph, 250A, 240V main breaker DK3250W, 8 ea. 20A 3P FD 3020 & 6 ea. 20A 3P, 5 ea. 30A 3P and 2 ea. 3P spare spaces in right panelboard. All FD breakers are 65 KA1C@240V and 18 KA1C@600V. GFI sensor, 2 control xfmrs, relays, and IQ data acquisition & display modules in bottom panel. Cabinet dim. 85" h x 48" w x 11" dp. Special for IBM. (Item No. 5134)	Unused In Box	\$6,000
Power Dist. Inc. Mod M2 100kva, 480/120-208v transformer, ③ current trans, M2 control, PC bd/chips. 32x34x61 H cabinet w/4 side panels & casters. Missing all heavy current wire And circuit breakers. 100kva xfmr good.	As-Is	\$1,500
89) <u>TRANSFORMERS-Gun filament.</u>		
420 VA, Temescal 2E0163, 120:6 V CT/70 A/1 HV gun fil. Red epoxy cast. (Item No. 4027)	Used	\$450
750 VA, Temescal 207-6193, 120:6.5/7.5 V CT, 100 A. (Tube fil XFMR for CV-15 . Can be used on CV-10,14) (Item No. 4039)		\$475
750 VA, Temescal 1E1053, 120:7 V CT, 100 A. Open. Core & coil. (Item No. 4037)		\$150
840 VA, Sub for temescal. 120V Pri. Dual 6V/70A/1 Ph Sec. HV gunfil. Red epoxy cast. (Item No.4047)	New	\$875
840 VA, Temescal 2F5443. 120V Pri. Dual 6 V/70 A/1 Ph Sec. HV gun fil. Red epoxy cast. . (Item No. 4045)	Repaired & Tested	\$925
90) <u>TRANSFORMERS-Thermal evaporation.</u>		
2 KVA (for Varian 3117/8 coaters) 208/240:5/10/20/40 V/1 fil. Evap. Open. Burton 13091	Used	\$500
2 KVA (For Veeco VE-775/6 coaters) 240:5/10/20/40 V/1. 20-30" Sec. Copper straps. Fil. Evap. Open. (Item No. 4061)	Cleaned & Tested	\$475
2.5 KVA filament transformer, Burton 11841 (Sloan) 120/240V PRI, two 3V 400A & two 12V (Item No. 3529)	Good	\$575
5 KVA filament transformer, QT&E 1959 208/240 V:5/10/20/40 V, 1ph 50/60 Hz, cont. duty., horiz. open core & coil. Black. (CHA) (Item No. 3525)	New	\$1,600
91) <u>TRAP VALVE COMBINATIONS.</u>		
1 1/2" Varian 956-5023 Cryotrap/Valve with 2 3/4 CFF, LN Dewar, 110 V heater. (Item No. 2061)	Good Used	\$650
10" ASA CPA 8016-A-10 LN trap-valve-water baffle. Solid body, Air, Bellow sealed. (Item No. 4898)	Used	\$4,950
4" ASA CPA 8016-A-4 LN trap-valve-water baffle. Solid body, air bellow sealed. 1 0-R on topflg. (seal side) 14 1/2 OD x 11 1/2 h. w/rough port & 1" ion gauge port. (Item No. 2122)	Good Used	\$1,750
4" ASA NRC SST poppet valve w/thimble LN trap, 4" ASA side port & 6" ASA bottom. 3/4" QC I.G. port (Item No. 4890)	Good Used	\$950
6" ASA CHA 10" Offset Intrap valve- Water baffle assy.. No LN thimble Air op (Item No. 1897)	Good Used	\$1,950
6" ASA CPA 8016-A-6 LN trap-valve-water baffle. Solid body, Air, Bellow sealed. (Item No. 2158)	Used	\$2,500
6" ASA CPA 8016-A-6 LN trap-valve-water baffle. Solid body, Air, Bellow sealed. (Item No. 4773)		
6" ASA CPA 8025-A-6 Alum LN Trap, Valve, water baffle. (Item No. 2183)	Used	\$2,750
6" ASA Varian 951-5212 LN trap-valve for 3118 coater. (Item No. 2197)	Rebuilt	\$3,750
92) <u>TRAPS-Exhaust.</u>		
Alcatel 100210 ADP exhaust silencer for dry pump. (Item No. 4996)	Unused	\$300

Item	Condition	Price
Edwards EMF-10 Oil mist Filter. Plastic NW-25 flgs w/ oil drain for E2M2-E2M8 10 m3/hr (Item No. 776)	New	\$125
Edwards EM F-20 oil mist filter. Plastic NW-25 flgs. W/oil drain for E2M12 -E2M18 20 m3/hr (Item No. 778)	Used	\$125
Edwards MF-100 Outlet Oil Mist Filter, NW-25 (Item No. 4667)	As Is	\$300
Edwards MF-300 Outlet Oil Mist Filter, NW-40 (Item No. 780)	Used	\$600
Kinney (Air maze 201351) 12" d x 12" hi w/removeable lid. 2" FPS half coup on side & 2" x 4" nip on bot. (Item No. 5080)	Used	\$225
Leybold AF8-16A (18910) exhaust filter for D8/16A. NW-25 flgs. For 15 CFM max. (Item No. 795)	Good Used	\$300
Leybold SE8-16 (Cat. No. 99-171-126) Outlet smoke eliminator. NW-25 flg. For D8A-D16A pumps. (Item No. 788)	As Is	\$75
Leybold AF-30-60C Exhaust Filter. Cat. No. 898586. NW-40 flg. For D30AC-D90AC pumps. (Item No. 799)	Good Used	\$450
Leybold AF100-250A Exhaust filter Cat#18945-N, NW-63 flg. for E75, E150 & New DK100 pumps. (Item No. 801)	Good	\$1,350
Leybold AF30-60A (18915) Exhaust Filter for D30A-090A. NW-40 FLGS. FOR 55 CFM Max. (Item No. 797)	Good Used	\$400
Leybold AF2-4A (18905) exhaust trap for D2A-D4A. NW16 Flange (Item No. 793)	Good Used	\$200
Leybold AF40-65 exhaust filter assy. 18916. For D40/65B pumps (Item No. 4689)	Rebuilt	\$300
Leybold ARS16-25 exhaust filter assy. 18956 w/oil feedback for D16/25 B-BCS pumps (Item No. 4929)	Unused	\$650
Leybold AR540-65 exhaust filter assy. 18957 w/oil feedback for D40/65B-BCS pumps.	Rebuilt	\$700
Leybold AS 8-16 Dust separator Cat #18611, NW-25 Flg. Side & bot., NW-40 top for D8-16A pumps . (Item No. 803)	Very Good	\$500
Leybold SE30-60 (cat. no. 99-171-127) Outlet smoke eliminator. NW-40 flg. For D30A-D90A pumps. (Item No. 790)	As Is	\$95
Shrader EF-20. 4" d 11" h SST, NW-25 bot. & side. Removeable lid. 15 PSI gauge. (Item No. 5117)	Good	\$375
Stokes oil mist eliminator model 900-291-25, 3" pipe coupling on side & bot.-sealed, 20" d x 19" hi, for 300 CFM, 412 MP. (Item No. 4584)	Unused	\$700
Stokes oil mist eliminator model 291-21 s/n 86441, 2" pipe coupling on side & bot.-sealed, 14" d x 14" hi for 150 CFM 212 MP (Item No. 4680)	Used	\$250
Stokes oil mist eliminator 900-291-33 for 149 H-11	Used	POR
Welch 1417A Oil mist eliminator for 1402 pump, with cartridge. (Item No. 816)	Used	\$175
Welch 1417B Oil mist eliminator for 1397 pump, with cartridge. (Item No. 818)	Used	\$275
93) TRAPS-Foreline.		
1 1/2 " Leybold NW-40 inlet cyclone dust separator, AS 30-60 #18616 (Item No. 4852)	Used	\$750
1 1/2 MDC MST-152 SST, Mol Sieve with 2 3/4 CFF. (Item No. 2067)	Used	\$175
1 1/2" Copper wool coaxial foreline trap. 4"d x 4 1/2"L huntington CT-153 (Item No. 2077)	Used	\$75
1 1/2" Foreline SST, TLI MT-150. Mol sieve. 1000 W 240V heater, No flanges, (Item No. 2081)	Unused	\$200
1 1/2" Foreline SST, Mol Sieve, NW-40 flanges, heater. (Item No. 2075)	Used	\$175
1 1/2" Foreline alum. Copper wool, NW 40. removeable trap. LH 99-171-137(RST40KF) (Item No. 2073)	Used	\$500
1 1/2" Foreline SST, P-E Model 232-1602, (P/N 310-261-920) Versatrap, Mol Sieve, No flanges. (Item No. 2079)	Used	\$295
1 1/2" NRC Aluminum Foreline with 1 1/2" brass valve on 3" nipple. 375 (Item No. 2069)	Used	\$375
1 1/2" NW-40 sidein, NW-40 bottom, Mass-Vac Positrap 4 copper-wool filters, centerband, 8" d x 7 1/2" h (Item No. 4718)	Used	\$375
1 1/2" Varian 0345-K0118-301 Aluminum Foreline, Mol Sieve. (Item No. 2071)		\$325
1 1/2" Varian 956-5025 Molecular sieve trap/valve with 2 3/4 CFF. 110V 295W heater. Mini CFF fill (Item No. 2065)	Unused	\$575

Item	Condition	Price
1 1/2" Varian 956-5019 Molecular sieve trap/valve with 2 3/4" CFF. 110V 295W heater. 3/4 plug fill. (Item No. 2063)	Used	\$450
1" Foreline SST, Mol Sieve, 2 1/8 CVF - 1" el. 1/2" heater. 105 (Item No. 2057)	Good Used	\$105
1" Mol. Sieve Foreline vaersa trap 4 1/2"d x 6" h 1" base side ports o.75W, 115V (Item No. 2055)	Good Used	\$100
2" Foreline SST, MDC KTX200-2. Copper wool. NW-50 flanges. (Item No. 2083)	Unused	\$150
3" - 4 5/8 CVF SST Mol sieve trap. Three 120V 75W heaters. 225 (Item No. 2116)	Used	\$225
3" ASA Foreline SST, metal wool, 6"l. (Item No. 2114)	Used	\$250
3/4" NW-16 NorCal #FCT-4-0752-NWB Vertical Coax flex trap w/ SS wool, green teflon coated (Item No. 2053)	Unused	\$150
4" NW-100 SST Foreline trap 7" L. Copper wool. Temescal 0030-5253-0 (Item No. 2118)	Unused	\$350
Edwards FL-40 90o Foreline Trap. NW-40 flanges (Item No. 774)		\$325
Leybold 85416 Alumina absorbtion trap, NW-40 w/o Al2O3 basket missing. 9 5/16"D x 65/8"H. unused \$550. (Item No. 805)	Good Used	\$400
Leybold 85415 Aluminum absorption trap, NW-25. For Alum. Oxide (Al2 O3). Removeable lid. (Item No. 4997)	Good	\$375
Leybold F-100 inlet filter (w/cat. No. 898528 paper element) for SV-40 to 100 mild steel, removeable top, 1 1/4" FPT side & bot. (Item No. 4703)	Used	\$150
Leybold IF-100 Inlet Filter (Cat No. 98-171-154) Mild steel. NW-40 flg. For D30A-D9A pumps. (Item No. 807)	Used W/New Element	\$475 \$975
Shrader 04112 NW-25 side & top, liq. Nitrogen inlet trap, 7" OD x 7" hi. (Item No. 4859)	New	\$300
94) TRAPS-Liquid nitrogen.		
10" ASA CVC BCN-101B LN trap. (Item No. 2213)	Used	\$3,500
10" ASA Unk. LN trap Stl Flg No O-Ring SST Body, football reservoir 21" odx 10" Hi (Item No. 2221)	As Is	\$1,000
10" ASA Varian 0326-10 SST Long life LN trap with 14 hr. hold time. Removeable LN insert. (Item No. 2223)	New	\$5,500
10" ASA Varian 0316-10 SST LN trap. 19.38"Od. x 11.62h. (Item No. 2219)	Used	\$3,950
10" ASA Varian 0326-10 SST Long life LN trap with 14 hr. hold time. Removeable LN insert. (Item No. 4431)	Good Used	\$4,250
12" NW-250 Alcatel 786533 LN trap approx. 13 1/2" d x 12 1/2" h (Item No. 4762)	New	\$3,000
16"ASA top Steel LN trap, 20" ASA tapped bottom flg Rusty. (Item No. 2239)	Used	\$1,000
18" Body, 23 OD flange/10" ASA side port, 90o SST, LN cold finger. (Item No. 2233)	Used	\$1,150
2" ASA CPA #7065-SA-2 SST Shell LN trap. Aluminum. 10" d x 6 3/4"h. 3 1/2"ID x 1/8" thk O-Ring on top (Item No. 2104)	Good Used	\$950
2" ASA bot. Flg. , No O-R. 4 1/2" - 2 3/4" CFF red. Flg. Welded on 2.5" OD t;ube on top w/tapped 2 3/4" CFF up. [DT] (Item No. 5118)		\$300
2" ASA CPA 7061-A-2 Aluminum LN trap. 10"d x 6 3/4"h. O-R top. (Item No. 2102)	Good Used	\$600
2" ASA Innotec LNB -22 SST LN trap 10"od x 6" h No OR (Item No. 2106)	Used	\$850
2" ASA Varian 0325 LN Trap. 10" OD x 7"h. 460 l/s conductance, 1.5l LN, 7.5 hr. hold. (Item No. 2110)	Used	\$950
2" CVC BCN-20B LN trap. Sm. Flg, six 1/4-20 bolts. (Item No. 2098)	Used	\$975
2" GP #244-2 LN Trap Varian/NRC 15/8" 90 brass knob valve w/ brazed 1 5/8" SS tube, 3/4" QC port on valve (Item No. 2091)	Used	\$650
2" GP 224-2 LN trap 4" OD Small flg. w/ 6ea 1/4bolts on 3 5/16 BC 2 3/8 x 1/8 OR on top. (Item No. 2089)	Used	\$500
4" ASA CVC BCN-41B, LN, aluminum body CON-O-R. (Item No. 2137)	Used	\$900
4" ASA CVC BCN-41B, LN, aluminum body CON-O-R (Item No. 4428)	New	\$1,350
4" ASA D & W LN, SST CON-O-R 13"d x 8"h. (Item No. 2135)	Used	\$600

Item	Condition	Price
4" ASA G-P 250, LN, SST, P/N 250-001-203-206. 1 O-R top. 12"d X 11.3h. 275 L/S COND, 51 LN15 hrs hold, 10 hrs constant temp. hold. (Item No. 2139)	Used	\$850
4" ASA NRC 0315-1-004, LN, SST, 9"d x 5 1/2"h. (Item No. 2142)	Used	\$500
4" ASA top flg.- 4" small flg bottom BRASS LN trap 11" h (Item No. 2120)	As Is	\$250
4" ASA Varian 0362-4 SST LN trap. 14" OD x 8"h. 1100 l/s cond. 4.7l LN 17hr. hold. (Item No.2146)	Good Used	\$1,650
4"ASA NRC 0316-86784-304 LN, SST. 1 12"d x 6 .5" H. 950 l/sec, 925 cc LN, 2 1/2 hr hold (Item No. 2144)	Used	\$750
6" ASA 90deg. SST LN trap. Removeable top LN reservoir. No O-R. (Item No. 2201)	Used	\$1,250
6" ASA bot. flg, 4" ASA side flg. 90o SST LN trap. No LN reservoir. (Item No. 2199)	Used	\$950
6" ASA Bottom - 4" ASA side NRC SST, 90 deg, LN cold finger. (Item No. 2162)	Used	\$600
6" ASA CPA 7416 Aluminum, Turbo LN Trap . 9"h. (Item No. 2185)	Unused	\$1,100
6" ASA CPA 7061-A-6 Alum LN Trap. 15 1/2"d x 11 1/4"h. O-R top. 1200 l/s cond.,6.6 l LN, 25 hr hold. (Item No. 2181)	Used	\$1,075
6" ASA CVC BCN-61A LN Trap. 20.15"l x 13.25"w x 7.62"h. 5.28l LN, 7.75 hrs hold. (Item No.2191)	Used	\$1,500
6" ASA CVC BCN-61 LN Trap. 20.15"l x 13.25"w x 7.62"h. 5.28l LN, 7.75 hrs hold. (Item No.2189)	Used	\$1,250
6" ASA G-P 278-002 SST, LN, 18"d x 9"h. 1300 l/s cond. 7.7 l LN, 19 hr. hold. (Item No. 4429)	Unused	\$1,550
6" ASA G-P 251-6 SST, LN, CON-O-R 14.62 d x 12.45 h. P/N 251-001-276-277.475 l/s cond., 8 l LN, 15 hrs. hold, 10 hrs constant temp. Hold. (Item No. 2164)	Used	\$1,150
6" ASA G-P 278-002 SST, LN, 18" d x 9"h. 1300 l/s cond. 7.7 l LN, 19 hr. hold. (Item No. 2195)	Used	\$1,250
6" ASA Heraeus SST LN trap 14"OD x 10" Hi (Item No. 2167)	Used	\$750
6" ASA Horizontal in-line SST LN trap. Removeable top LN reservoir. No O-R. (Item No. 2205)	Used	\$1,650
6" ASA NRC 0316-6 SST, LN. Football reservoir 13"od x 9 5/16"h. 1800l/s cond., 1.75l LN, 5.5hr. hold. (Item No. 2173)	Used	\$1,250
6" ASA NRC 0315-1-006 SST LN. 11"d x 6"h. 1200 l/s cond. 11 LN.4.5hr. Hold. (Item No. 2171)	Cleaned & Tested	\$950
6" ASA NRC 0326-6 SST Long life LN trap with 20 Hr. hold time. Removeable insert. (Item No.2179)	Used	\$1,750
6" ASA SST LN Cold finger. 5"d X 6"h. No O-R. (Item No. 2203)	Used	\$250
6" ASA Varian 0362-6 LN trap. 16.50 OD. x 10"h. 2000 l/s cond., 8.4 l LN, 17 hr. hold (Item No.2177)	Used	\$2,150
6" ASA Veeco VE-776 LN trap insert. 7.25" h x 15.37" w x 14.3 dp.0 [LHV] (Item No. 5119)	Used	\$275
7" dia. X 23" hi SST LN trap for Welch 1398 M.P. 90 degree elbow & flg on bot. For 1398, NW-40 on side at top, LN thimble (Item No. 4615)	Good	\$975
7"d x 24" aluminum body, 7"OD top flange, 6"OD bottom flange. SST LN cold finger. (Item No.2243)	Good Used	\$750
CEC/Dupont 24-004A external LN trap. 4" ODx 1 3/4id flg w/ 4 holes 7/10 dia on 3 1/8" B.C.. 2.5L LN, 42min hold (Item No. 2926)	As Is	\$750
CHA Mark 50 liquid nitrogen trap insert only. (Item No. 5071)	Good	\$2,500
Fill & vent tube assy for 2" asa varian 0325 Ln2 trap. (Item No. 2112)	Good Used	\$95
Insert Only for CVC 10" ASA BCN-101B LN trap. #270719. (Item No. 2209)	Used	\$2,000
Insert only for 6" ASA CVC BCN-61 LN Trap. (Item No. 2193)	Used	\$850
NRC 925 leak det. SST LN trapfor other uses. 6"d x12"hi w/ thimble. There 1" tubes out. One With bellow valve & 2" ASA 6" OD Flg.		\$200
NW-320 Balzers BFA-320-SU LN trap #BP BO3003/179. SST for DIF-320 DP. (Item No. 2225)	Very Good	\$3,500
95) TRAPS-Misc.		
Alum. in & out filter bottles. Cord and SW. (Item No. 723)	New	\$250
Filter Master Pneumatics 1112-12 8" dia. x 18"h. 6-5/8 dogs. 1 1/2 FPT In & Out. 150 PSI. (Item No. 782)	Unused	\$145

Item	Condition	Price
Leybold MBS 40-65 moisture barrier system 18967. NW-40 flgs. 53 CFM max. Put in exhaust line to keep moisture from backstreaming into pump system. (Item No. 4785)	Unused	\$1,300
Leybold MBS40-65 Moisture Barrier System. NW-40 flgs. For 53 CFM max. Prevents moisture (Item No. 809)	Good Used	\$1,000
NW-400 Al ring baffle, Ambient cooled 18"OD x 8 1/2"h, flgs app 14 1/2" OD x 12 1/2" id (Item No. 2229)	Used	

96) TURBO PUMPS & CONTROLLERS.

Alcatel 1232 turbo pump stand. 5080 80 l/s turbo NW-63 & 56984 control. TA-101 TC gauge, FA-101 Penning (D.G.) gauge. No MP. (Item No. 5098)	As Is	\$1,600
Alcatel 5150 CP turbo W/C. NW-100 Fig. CFF-450 converter WC. 140 lit/sec (Item No. 1345)	Unused	\$4,500
Alcatel 5402CP turbo w/c NW-100 325 l/s. (Item No. 4699)	Rebuilt	\$6,000
Alcatel CCF450 Turbo control D8220 (Item No. 1347)	Rebuilt	\$1,250
Alcatel MDP-5010 Molecular drag pump and CVF-10 converter. NW-63 7.5 l/s. (Item No. 1343)	Rebuilt	\$2,500
Alcatel-5900CP, turbo pump, s/n#D2409, NW-200 inlet flange 880 l/s. for 5900CP ceramic brg. W/C (Item No. 4492)	Unused In Box	\$10,500
Alcatel-CVF 900, turbo pump control for 5900 CP. (Item No. 4690)	Unused & Tested	\$3,000
Balzer TCP 380 frequency converter, POR. (Item No. 5034)	Repaired	
Balzers TCP-040 turbo control for TPH/U-040 to -060 turbos. (Item No. 5000)	Repaired & Tested	\$950
Balzers TCV-102 valve control for turbo system (Item No. 4640)	Very Good	\$1,000
Balzers TCS-100 pump unit control (Item No. 1355)	Used	\$500
Balzers TCP-270 Turbo pump control	Repaired & Tested	\$1,000
Balzers TCP-300 Turbo pump control (Item No. 4828)	Good Used	\$1,250
Balzers TCP-310 Turbo pump control (Item No. 1357)	Repaired & Tested	\$1,350
Balzers TMH-1600 turbo pump, NW-250 (Item No. 4998)	Good Used	\$10,500
Balzers TPH-050 turbo with NW-63. Oil brgs. A/C (Item No. 4999)	Rebuilt	\$2,300
Balzers TPU 510 8" conflat inlet. (Item No. 5030)	Rebuilt	\$8,500
Balzers TPH-170 turbo with NW-100 flg. W/C. TCP-300 converter WC. (Item No. 1351)	Rebuilt	\$4,500
Balzers TPU-060 Turbo pump. 4 1/2"CFF W/C. TCP-040 converter w/cables. (Item No. 4670)	Good Used	\$3,500
Balzers TPH/TPU-330 Turbo oil bearings NW-100 or 6"CFF (Item No. 4928)	Rebuilt	\$5,500
Balzers TPU-170 Turbo pump. 6"CFF W/C. TCP-300 converter w/cables. (Item No. 1349)	Rebuilt	\$4,500
Balzers TPH-1500 turbo pump. Oil bearings. ISO-200 inlet flg.		POR
Balzers TSF-010 vent valve. 24VDC. (Item No. 5001)		\$150
fan to controller cable for Osaka TG-200 compound molecular turbo pump (Item No. 5006)	Rebuilt	\$90
fan to controller cable for Osaka TG-200 compound molecular turbo pump (Item No. 5120)	Good	\$90
fan to controller cable for Osaka TG-200 compound molecular turbo pump (Item No. 4778)	Rebuilt	\$90
HPS 100005987 low power nude I.G. tube NW-40 (Item No. 5007)	Unused	\$125
Leybold 85548 purge/vent valve, 110V 60Hz 8W Alum. NW-10 flgs. (Item No. 4871)	Unused	\$380
Leybold 899838 Turbo Vent Valve Kit, 115 vac (Item No. 4531)		\$125
Leybold NT150/360 Controller for 150 to 360 turbos, #85472. (Item No. 1367)	Repaired & Tested	\$1,250
Leybold NT 1000/1500 VH converter (Item No. 4674)	Good	\$3,000
Leybold NT 340M controller for 270-400 l/sec turbopump w/ magnetic bearings (Item No. 1369)	Repaired & Tested	\$2,250
Leybold NT 1000/1500 converter. (Item No. 1379)	Repaired & Tested	\$3,000
Leybold NT 340MC pump w/340 mag lev control. (Item No. 1371)	Rebuilt	\$11,500
Leybold TMP-1500 turbo w/NW-250 bolted flg., w/NT1000/1500 convertor WC (Item No. 4783)	Rebuilt	\$18,000
Leybold TMP-360CSV, NW-100. (Item No. 5002)	Like New	\$5,000

Item	Condition	Price
Leybold TMP-360CSV, 4" ASA. (Item No. 5004)	Good Used	\$3,000
Leybold TMP-50, 4.5 CFF flange. With fan kit. (Item No. 5005)	Good Used	\$1,500
Leybold TMP-360CSV, NW-100. (Item No. 5003)	Good Used	\$3,000
Leybold TMP-150/360 fan kit 89407 115V (Item No. 4742)	Good	\$250
Leybold TMP-50 fan kit 89406 115V (Item No. 4839)	Good	\$150
Leybold TMP-150 turbo W/C w/ NW-100 flg. . NT 150/360 control, ceramic brgs. (Item No. 1359)	Rebuilt	\$4,500
Leybold TMP-360 turbo pump W/C NW-100 Flg., oil brgs. (Item No. 1363)	Rebuilt	\$4,000
Leybold turbo vent valve, 115VAC no. 899838 (Item No. 4860)	Unused	\$150
Leybold turbovac 410MCT w/NW-160 flg., magnetic bearings w/c & NT-341 M/I control, POR (Item No. 4863)	Rebuilt	
Leybold turbovac 340M w/NW-100 or 160 flg., magnetic bearings w/controls. (Item No. 4798)	Rebuilt	\$9,000
Leybold turbovac 1500 w/NW-250 bolted flg. (Item No. 4806)	Operational	\$10,000
Leybold TurboVac 360CSV W/C 4"ASA flg. NT 150/360 controller. (Item No. 1365)	Rebuilt	\$7,500
Leybold-Heraeus: NT-450 frequency converter. for TMP-450 120V/1Ph. (Item No. 1377)	Repaired & Tested	\$1,800
Leybold-Heraeus: Turbovac 350 Turbo pump. 6" ASA Flg. & converter. (Item No. 1361)	Rebuilt	\$4,750
Leybold-Heraeus: TMP-450 turbo molecular pump W/C. 6" ASA flange (Item No. 1374)	Rebuilt	\$7,500
Osaka TC-200 turbo pump controller (Item No. 4808)	Repaired & Tested	\$900
Osaka TD2000 Magnetic Suspension P.S. 90 hrs (Item No. 4532)	Unused	\$9,750
Osaka TG-200 compound molecular turbo pump air cooled 200 l/s, NW-100 flg. (Item No. 4661)	Rebuilt	\$3,000
Osaka turbo cable for Osaka-TG 550 , compound molecular water cooled turbo pump (Item No. 4645)	Good	\$250
Osaka-TC 550, turbo pump controller. (Item No. 4490)	Rebuilt	\$1,500
Osaka-TG 550, compound molecular water cooled turbo, NW-160 bolted flg. 550 l/s (Item No. 4489)	Repaired & Tested	\$8,000
pump to controller cable for Osaka TG-200 compound molecular turbo pump (Item No. 4747)	Good	\$200
Seiko Seki-STP 300, turbo pump controller, POR. (Item No. 4491)	Rebuilt	
Varian V300HT frequency converter. (Item No. 5032)	Repaired	\$2,000
Varian V300HT macro torr. with NW-100 inlet, Alum. Housing. (Item No. 5031)	As Is	\$3,500
Welch 3134-PS turbo pump controller 115V. (Item No. 5121)	As Is	\$500
Welch 41-6600 turbo pump controller 115V (Item No. 4621)	As Is	\$500
97) <u>VACUUM ACCESORIES/SUPPLIES-Bell jar.</u>		
10" Viton bell jar "L" gasket. (Item No. 4227)	Unused	\$25
12" Viton bell jar "L" gasket. (Item No. 4229)	Unused	\$35
14" Viton bell jar "L" gasket. (Item No. 4231)	Unused	\$40
98) <u>VACUUM GAUGES & CONTROLS-Baratron.</u>		
CMT-02-01 pressure tranducer. .01 Torr range. (Item No. 1395)		
MKS SPMC-R Baratron 390HA-00010-S 10 Torr 1.33 CF (Item No. 1476)	Good Used	\$1,150
MKS 127AA-0000E Baratron Head 1 Torr ½"VCR ±15VDC in 0-10V out (Item No. 3236)	Used	\$550
MKS 127AA-000.1B, 0.1 Torr 1/2" VCR press. Trans. (Item No. 4668)	Unused	
MKS 127AA-0001E, 1.0 Torr 1/2" VCR press. Trans. (Item No. 4834)	Unused	
MKS 128AA-00001B Baratron Head 1 Torr 1/2" VCR female ±15VDC in. 0-10VDC out (Item No.3238)	Used	\$300

Item	Condition	Price
MKS PDR-C1B 1 lead power supply & digital readout. MKS PDR-C1B	Good	\$650
MKS 270 D-4 digital pressure read out signal conditioner (Item No. 4647)		
MKS 270B-4 digital pressure read out signal conditioner (Item No. 4838)		
MKS 390HA-00100SP Baratron Head100 Torr 1/2" VCR female ±15VDC in. 0-10VDC out (Item No. 3240)	Used	\$600
MKS 510 A power supply Readout Digital Pressure gauge (Item No. 1478)	New	\$750
MKS 510A Power supply/ Read out Digital pressure gauge Good looking Needs repair (Item No.3244)	Used	\$750
MKS152 Automatic Pressure controller (Item No. 1466)	Good Used	\$325
Vacuum Gen. CMHT-11 pressure transducer. 10 torr 5/8 VCR. (Item No. 3246)		\$500
99) <u>VACUUM GAUGES & CONTROLS-Discharge.</u>		
CVC GPH-100A discharge gauge control for GPH-001 tube. WC (Item No. 3171)		\$275
CVC GPH-320B discharge gauge control for GPH-001 tube. WC (Item No. 3173)	Cleaned & Tested	\$475
Edwards. CP25-S D145-33-000 discharge gauge tube WC. SC-25 threaded flg. (Item No. 3148)	Cleaned & Tested	\$250
HPS/MKS 421 Discharge gauge control & tube , 1/2" Female VCR w/ CFF (Item No. 3224)	Very Good	\$900
Leybold CC3 850-300-G1 cold cathode Penning gauge, 10-7 to 2 torr., RS232 module is std., 10' CC gauge cable, 850-305-GID, not tubes, optional extra: Pirani, cap man. & I/O modules & cables (Item No. 4935)	Excellent	\$600
Leybold CM31 89689 Combivac gauge, 2 sta. Pirani & 1 CC gauge, three 10V outputs & 6 set pts.,10-9 to 760 torr., 10' CC gauge cable, one 10' 16226 Pirani cable (Item No. 4936)		
Leybold PM410 16278 Penning vac. Cold cathode Penning gauge, 10-9 to 2 torr., rec. output only, 10' CC gauge cable, 16288B2, no tube (Item No. 4937)	Good	\$450
Varian 973-5028 Smart gauge control w/ 973-5025 tube & cable (Item No. 3304)	Used	\$2,250
Varian 973-5028 Smart gauge Residual Nitrogen Analyzer control only. (Item No. 3302)	As Is	\$1,000
Varian 973-5027 Smart gauge anode insulator & seal kit (Item No. 3298)	New	\$250
VEECO /DG-2-2T. AC Discharge gauge & 2 stations TC gauge with tubes & cables (Item No. 3306)	Rebuilt	\$750
100) <u>VACUUM GAUGES & CONTROLS-Gauge Tubes.</u>		
Alcatel CF2P discharge gauge tube. NW-25 flg. (Item No. 3146)	Unused	\$300
Balzers IKR-020 Discharge gauge (Item No. 4534)		\$250
Balzers TPR-010 Pirani Tube (Item No. 4535)		\$125
CHA VG1B/3 1/2" glass. Triode tube. IRR. FIL (Item No. 3123)	Unused	\$25
CVC GTC-036 (Item No. 3117)	New	\$70
CVC # GIC-017-2 (Item No. 3132)	New	\$200
CVC #GIC-017-2. 1" pyrex. Dual tungsten Fil. (Item No. 3124)	New	\$150
CVC #GIC-028-2. 1" pyrex. Dual Irr. Fil. (Item No. 3125)	New	\$125
Edwards Penning 8 spares kit # D043-14800 (Item No. 3134)	New	
Edwards PRH-10K Pirani Head #0021-59-000 NW-10. (Item No. 3138)	New	\$150
Edwards PR 10K Pirani Head D024-22-000 for 11 control 5 to 10-3 Torr (Item No. 3137)	New	\$105
Edwards PRM-10 Pirani Head Do 21-57000 KF-10 SST	Unused	\$105
Edwards PRM-10 Pirani Head Do 21-66000 KF-10 Alum	Used	\$80

Item	Condition	Price
ETI-8130 nude I.G. tube on 2 3/4" CFF 2 Thoriated Fil. EB degas. (Item No. 5075)	New	\$250
Fil-Tech, Ion # 0572-K7360-301 1"Glass, Tungsten Fil (Item No. 3141)	Unused	\$90
G-P #274-022 Nude ion gauge tube on 2 3/4 CFF. Dual tungsten Filaments. E.B. degas only. (Item No. 3126)	New	\$275
G-P #274-023 Nude ion gauge tube on 2 3/4 CFF. Dual irridium filaments. E.B. degas only. New (Item No. 3127)		\$285
G-P #274-043 Nude ion gauge tube on 2 3/4 CFF. One irridium filaments. I2R or E.B. degas . (Item No. 3128)	New	\$325
G-P 27006 (Equal to Hastings DV-6R) (Item No. 3119)	New	\$65
Hastings DV-3M, Ref O (Equal to Veeco DV-IM) (Item No. 3112)	New	\$68
Hastings DV-6M (Item No. 3114)	New	\$55
Hastings DV-23 (Item No. 3115)	New	\$64
HPS 100005987 low power made ion gauge tube. NW-40. (Item No. 5122)	Unused	\$125
HPS/MKS Discharge gauge tube, 1/2" Female VCR w/ CFF (Item No. 3222)	Used	
Hughes TLI Discharge gauge tubes. (Item No. 3139)	Unused	
Leybold 16287B2 cold cathode D.G. tube, NW-40, POR (Item No. 4941)		
Leybold 850-610-G2 cold cathode D.G. tube, NW-25 (Item No. 4938)		\$275
Leybold 89630 TR-901 Pirani, NW-10 (Item No. 4939)	Good	\$100
Leybold 89631 TR-901 Pirani, 1/8" NPT. (Item No. 4940)	Good	\$100
MKS 127AA-000 1B Baratron head 0.1 Torr 1/2" VCR ±15V in 0-10 V out (Item No. 3234)	Unused	\$550
Varian 524-2 discharge gauge tube		
Varian 531 (Item No. 3118)	New	\$50
Varian 971-5007 UHV-24 nude IG. Dual IRR. FIL. (Item No. 3129)	Used	\$200
Varian 971-5009 Nude Millitorr gauge on 2 3/4 CFF. (Item No. 3130)	New	\$400
Varian 971-5009 Nude Millitorr gauge on 2 3/4 CFF. (Item No. 3131)	Used	\$250

101) VACUUM GAUGES & CONTROLS-Ion.

8 CVC GIC-400 2 sta TC gauge control for GTC-036 TC tubes & one IG tube. Cable for 1 TC & 1 GIC-028 tube. (Item No. 3168)		\$875
CVC GIC-110B ion gauge & 2 sta TC gauge control for GTC-004 tubes. TC cables. No IG cable (Item No. 3158)	Cleaned & Tested	\$550
CVC GIC-300A 2 sta TC gauge control for GTC-004 TC tubes & one IG tube. Cable for GIC-028 IG tube. (Item No. 3160)	Cleaned & Tested	\$675
Fredericks 2A Dual meter relays in 5 1/4 h x 19w panel. WC (Item No. 3183)		\$850
G-P 260001-260033 Ion thermogauge (Pirani) control LC. Priced from \$400 to \$700 (Item No. 3191)	Repaired & Tested	\$700
G-P 260032-33, 260022 (CHA 5 1/4 PNC)	Repaired & Tested	\$900-\$1,200
G-P 270001 ion gauge only, No TC or set pt. W.C. (Item No. 3193)	Cleaned & Tested	\$750
G-P 270002 ion gauge with 2 TC gauges. No set points. For Hastings DV-6M tubes. WC. (Item No. 3195)	Repaired & Tested	\$900
G-P 270003 ion gauge only with set points. No TC WC. (Item No. 3197)	Repaired & Tested	\$800
G-P 270004 Ion gauge & 2 sta. TC gauge for Hastings DV-6M tubes. 2 IG & 2 TC setpoints. WC. (Item No. 3199)	Repaired & Tested	\$1,050
G-P 271003 UHV ion gauge - 11 scale, linear analog, EB degas LC. (Item No. 4815)	Repaired & Tested	\$800
G-P 280001 digital ion gauge only, no TC or set pt. WC (Item No. 4736)		\$825
G-P 280002 digital ion gauge with 2 TC gauges. No set points. For Hastings DV-6M tubes. WC. (Item No. 5009)	Repaired & Tested	\$1,200
G-P 280003 digital Ion gauge only. 2 sta 2 IG setpoints. WC. (Item No. 3203)	Repaired	\$1,100
G-P 280004 digital ion gauge & 2 sta. TC gauge for Hastings DV-6M tubes. 2 IG & 2 TC setpoints. WC. (Item No. 5010)	Repaired & Tested	\$1,350
INFICON 1G-3 gage w/ piranni, I/O & CPU PC Cards, LC	Repaired and Tested	\$950

Item	Condition	Price
G-P 280027 digital ion gauge. 2 sta TC gauge for Hastings DV-6M tubes. 2 IG & 2 TC setpoints. LC. Beige OEM panel. (Item No. 3205)	Repaired & Tested	\$1,350
GP 303001 Ion gauge for alternate operation of 2 nude ion gauge tubes. EB degas	Repaired and Tested	\$1,750
G-P 303007 ion gauge for simultaneous op of 2 nude IG tubes, EB degas LC, 2 convectrons, 4 set pts. (Item No. 4660)	Unused & Tested	\$2,950
G-P 303007 Ion gauge for simultaneous op of 2 nude IG tubes. EB degas (Item No. 3207)	Repaired & Tested	\$1,950
G-P 307091 extended capability control for 1 ion gauge tube w/remote I/O & 2 convectrons in L half rack, and 3 convectrons in R half rack. Remote power supply with 307004 EB degas. (Item No. 5138)	Unused & Tested	\$1,650
GP 224-010 Shults Phelps Controls LC. Manual w/ TG (Item No. 3187)	Repaired & Tested	\$500
GP 224-020 Shults Phelps Controls LC. Autorange, Set points, Decade Out. (Item No. 3189)	Repaired & Tested	\$500
HPS 919 hot cathode control. (std I.G.) (Item No. 5011)	Repaired & Tested	\$500
NRC 720 ion/TC gauge control, for 521/531 TC tubes, 507/5631 G tubes LC (Item No. 4750)	As Is	\$250
P-E Monitorr 300 Digital gauge control (Item No. 3338)	Used	
P-E/Ultek 605-0300 Digital ion gauge w/ 4 TC gages w/ 1 IG & 2 TC cables (Item No. 3318)	Good	\$1,250
P-E/Ultek 605-000 Digital ion gauge. (Item No. 3316)	As Is	
Temescal Versavac2, 2 station IG & 2 sta. TC control for DV-6M. Set points on all stations LC (Item No. 3252)	Repaired & Tested	\$1,550
Temescal Versavac 5, 2 sta. IG & 5 sta. TC control. For Hastings DV-6M TC tubes. Setpoints on all stations. WC. w/o RS-232 (Item No. 3250)	Repaired & Tested	\$2,200
Ultek 605-0019 digital ion gauge with 2 setpoints. LC. (Item No. 3322)	As Is	\$350
Varian 840 Ion gauge control w/2 setpoints. 2 TC's w/1 setpoint WC (Item No. 3270)	Cleaned & Tested	\$750
Varian 840 Ion gauge control w/@ TC's. No setpoints WC (Item No. 3268)	Cleaned & Tested	\$650
Varian 842 ion gauge. No TC or setpoints. IG cable, power cord and manual. 0810-F8538-302. (Item No. 3272)	Good	\$650
Varian 842 ion gauge. No TC or setpoints, w/2 Ion gauge setpoints. IG cable, power cord and manual. 0810-F8538-302. (Item No. 3274)	Good	\$750
Varian 843 ion gauge. 2IG's. Two setpoints, 2 TC w/ 1 setpoint. IG cable, power cord and manual. 843-302 Late model, w/ red stripes (Item No. 3280)	Excellent	\$1,350
Varian 843 ion gauge. 2TCs. No setpoints, IG & TC cable, power cord and manual. 843-301 (Item No. 3276)	Good	\$875
Varian 843 ion gauge. 2IG's. Two setpoints, 2 TC w/ 1 setpoint. IG cable, power cord and manual. 843-302 (Item No. 3278)	Good	\$1,025
Varian 844 CVT digital ion gauge. No TC or set points. Power cord & manual. LC. (Item No. 3282)	Cleaned & Tested	\$995
Varian 844 CVT digital ion gauge. #0844-K8844-301. 2 IG setpoints 115V 60 Hz only. No TC, LC (Item No. 3284)	Cleaned & Tested	\$1,195
Varian 845 digital ion gauge. Two TCs & 1 set point. 2 I.G. set points. Power cord & manual. LC (Item No. 3286)	Cleaned & Tested	\$1,850
Varian 845 CVT digital ion gauge. #845-K8845-301. Two TCs & 1 set point. No I.G. set pts. WC & manual. W/o cables R/W color (Item No. 3290)	Like New	\$1,875
Varian 845 CVT digital ion gauge. #845-K8845-301. Two TCs & 1 set point. No I.G. set pts. WC & manual. (Item No. 3288)	Like New	\$2,125
Varian 971-0014 Dual ion gauge Control for millitorr & UHV-24 nude tube. LC. (Item No. 3294)	Cleaned & Tested	\$750
Varian 971-0003 ion gauge Control for UHV-24 nude tube. LC. (Item No. 3292)	Cleaned & Tested	\$500
Varian-880RS L6202-302, ion gauge, 115v, 1ph, 2 IG setpoints, 2 T/C setpoints, WC. (Item No. 4524)	Repaired & Tested	\$1,100
Varian-880RS L6201-301, ion gauge, 115v, 1ph, 2 IG setpoints, WC. No TC. (Item No. 4891)	Repaired & Tested	\$900
Varian Multi-Gauge L 8350-301 S/N CTAf-505 1 cold cath (D.G.) gage & 4 TC gage control w/ L6475-310 cable. No CC gage cable.	Repaired & Tested	\$1,275

Item	Condition	Price
Veeco RG-1000 Digital ion gauge control only. LC (Item No. 3320)	Used	\$750
102) <u>VACUUM GAUGES & CONTROLS-Liquid nitrogen.</u>		
Innovac T-15 Cryomeiser 2-Probe LN control (Item No. 4657)	Good	\$500
Liquid nitrogen control. Varian 972-1200. 1 thermister probe. W/LN 120V solenoid valve. (Item No.2257)	Repaired & Tested	\$800
Liquid Nitrogen control. Johns Cryogenic SNT-61. 1 probe (Item No. 2255)	Repaired & Tested	\$475
Liquid Nitrogen Control, Streco # LLA-450 (Item No. 2259)	Repaired & Tested	\$500
Liquid Nitrogen solenoid valve assy., 37 Flare in & out, safety valve on inlet, 120V ASCO 1/4" Cryo sol. valve, P-E mod. 420-3100 p/n 310-122-0 , 6' cord & plug (Item No. 4650)	Unused	\$175
Liquid nitrogen control. Varian 916-0040. 1 thermister probe. (Item No. 2253)	Repaired & Tested	\$600
Airco TEMESCAL LN2 level control 4 7/32w x 5 7/32 h olive panel x 9"dp. 1 low level probe w/ fill Timer (TORR T11-B)		\$500
Thermionics (TORR) T-11A LN control. (Item No. 2249)	Used	\$250
TORR (Innovac) T-11A LN control. (Item No. 2251)	Unused	\$325
103) <u>VACUUM GAUGES & CONTROLS-Misc.</u>		
Alcatel-Comptech # 0250-3572-0 Circuit Breaker assy. 3 1/2" Black pul. (Item No. 3330)	New	
Alcatel-Comptech # 0250-2022-0 Shutter sub EPO controller. 5 1/2" black panel. (Item No. 3326)	New	
Alcatel-Comptech # 0250-0042-1 Chamber lid control. 3 1/2" black pul. (Item No. 3328)	New	
Balzers PKG-020 Pirani Discharge gauge Control (Item No. 4536)	As Is	\$450
CVC GT-340A-2, 2 sta thermistar gauge for GTC-034 tube. (Item No. 3162)	Used	\$525
Edwards 11-EO85-07-00 Ion beam accessory for Model 306 Coater (Item No. 103)	New	\$3,000
Edwards DO-29-15-000 Adj. Vac switch . VS16K , 30-1000 mBar. (Item No. 3175)	New	\$200
Edwards KDG Vacuum switch ty VSK.1B w/ NW-10 (Item No. 3332)	Used	\$100
Fil-Tech, Ion # G75KT 3/4" Glass-Kovar Tungsten (2) Filament (Item No. 3140)	Unused	\$85
GP 212-020 Capacitance Manometer. 19" x 3/16 x 7"Hi. No sensor W/o cable (Item No. 3185)	As Is	\$300
Hastings 3 wire cable for above. 8 ft. for Hastings VT-6S 5 station TC gauge. (Item No. 3219)	New	\$50
LLNL # LE-9690-21 D.P. system control. 2 (Hughes 6343) TC gauges, Vac map SW (Item No. 3346)	As Is	\$600
PE/Ultek 220-967-200 rev B Programable power stabilizer (Item No. 3334)	As Is	\$975
Varian 664911 Accessory control. Modified D675006 for 3125 vacuum system. (Item No. 3352)	As Is	\$950
Varian 980-6010 I/O Expander for 3125 vacuum system. (Item No. 3356)	Used	\$2,000
Varian 980-6100 Vacuum Process controls for 3120/3125 vacuum systems. (Item No. 3354)	As Is	\$1,250
104) <u>VACUUM GAUGES & CONTROLS-Pirani.</u>		
Balzers TPG-040 Pirani gauge control. 6 station. LC (Item No. 3150)	Used	\$500
Balzers TPG-070 Pirani gauge control. 6 station with 3 setpoints. LC (Item No. 3152)	Unused In Box	\$975
CVC GP-210C 1 sta Pirani gauge control for GP-003 tube. WC. (Item No. 3154)	Cleaned & Tested	\$350
Edwards Series 70, Monitorr 101, 2 position control for PR-10 tubes. 2 set points. LC. (Item No.5140)		\$500
G-P 275 Convectron gauge. Analog or digital, no set points, WC. (Item No. 4435)	Repaired & Tested	\$350
G-P 275 Convectron gauge. Analog or digital, with setpoints. WC (Item No. 3201)	Repaired & Tested	\$600
K Edwards 501 Pirani gauge control # D 39-51-100 5 x 10-3 Torr (Uses PRE-10K head) (Item No.3135)	Unused	\$250
Leybold Heraeus Thermovac TM-220, 2 tube Pirani gauge, uses TR-201 tube, no set pt. or cable (Item No. 4934)	Good	\$250
Leybold Heraeus Thermovac TM-210, 1 tube Pirani gauge, no set pt. or cables (Item No. 4854)	Good	\$200
Leybold-Heraeus TM220S2 Thermovac (Pirani) gauge. For 2 tubes w/1 setpoint each. LC. (Item No.3230)	Used	\$495
Leybold-Heraeus TM201S Thermovac (Pirani) gauge. w/TR201 tube,LC. (Item No. 3228)	Unused	\$450
Leybold-Heraeus TM201S Thermovac (Pirani) gauge. W/ 40' cable. HSD.	Tested	\$300

Item	Condition	Price
105) <u>VACUUM GAUGES & CONTROLS-Thermocouple.</u>		
CVC GTC-100 2 sta TC gauge control for GTC-004 TC tubes. WC (Item No. 3156)	Cleaned & Tested	\$125
CVC GTC-360-4 4 sta TC gauge control for GTC-036 TC tubes (Item No. 3164)	Unused	\$650
CVC GTC-361 TC gauge/setpoint control for GTC-036 TC tube. (Item No. 3166)	Used	\$375
Edwards 507 one TC control in a Din box for TC 1 tube. LC. (Item No. 5139)	Used	\$200
Fredericks 2A one station TC gauge control box. WC (Item No. 3177)	Cleaned & Tested	\$200
Fredericks 2A two station TC gauge control box. WC (Item No. 3179)	Cleaned & Tested	\$250
Fredericks 2A Four station TC gauge control box. WC w/ 2 cables (Item No. 3181)	Cleaned & Tested	\$400
Hastings 3 wire cable for VT-6S. 8 ft. (Item No. 4421)	Used	\$50
Hastings 3 wire cable for VT-6S. 8 ft. (Item No. 3220)	New	\$50
Hastings CVT-14 TC gauge only WC for DV-4D tube. 0-20MM. 1 SPDT meter relay. (Item No.5012)	Unused	\$400
Hastings SP-1 TC gauge in cabinet LC. For DV-4AM tube O-20MM. (Item No. 3209)	Cleaned & Tested	\$175
Hastings VT-6 TC gauge only for DV-6M, DV-6R tube. 0-1000 microns. (Item No. 5047)	Unused	\$200
Hastings VT-4 TC gauge only WC for DV-4D tube. 0-20MM. (Item No. 3211)	Cleaned & Tested	\$145
Hastings VT-5A TC gauge only WC for DV-5M tube 0-100 microns. (Item No. 3213)	Cleaned & Tested	\$200
Hastings VT-6 TC gauge only for DV-6M, DV-6R tube. 0-1000 microns. (Item No. 3215)	Cleaned & Tested	\$145
Hastings VT-6S 5 station TC gauge in box, LC. for DV-6M tube. 0-1000 microns. (Item No. 3217)	Cleaned & Tested	\$250
Hastings VT-5S2 TC Gauge in box w/2 TC sw WC. For DV-5M tube 0-100 microns. (Item No.5013)	Cleaned & Tested	\$495
MDC TCC-210 0-1000 micron TC gauge & 1 set pt. Meter relay, for panel mtg. (Item No. 4947)		
MDC TCC-302 0-1000 micron TC gauge for 2 TC in table top cabinet, LC (Item No. 4948)		
NRC 701 TC gauge control w/ sloping front box for one #501 TC gauge WC (Item No. 3256)	Cleaned & Tested	\$250
Teledyne Hasting RV-8 vacuum strip chart recorder 0-1000 microns (Item No. 4949)		
Varian 801 One station panel mounted TC gauge for 531 tube. Less tube. (Item No. 3258)	Used	\$125
Varian 802A 1 sta TC gauge in box. 0-1000 microns for #531 TC tube WC. less tube. (Item No. 3260)	Cleaned & Tested	\$225
Varian 804A 4 sta TC gauge in box. 0-1000 microns for #531 TC tube LC. less tube.	Cleaned & Tested	\$250
Varian 810-1, 1 setpoint meter relay for #531 TC tube WC. 0-1000 microns. (Item No. 3264)	Used	\$250
Varian 810-2, 2 setpoint meter relay for 531 TC tube WC. 0-1000 microns. (Item No. 3266)	Cleaned & Tested	\$325
Varian/Mikros TC-2 two station TC gauge control for CVC GTC-004 0-1000 microns tube. 5 1/4" x 19" (Item No. 3254)	Cleaned & Tested	\$400
Varian/NCR 803, 1 setpoint GE meter relay for #531 TC tube WC. 0-1000 microns. (Item No. 3262)	Cleaned & Tested	\$300
Veeco GV-3V one station TC gauge control for DV-1M TC tube. WC (Item No. 3308)	Used	\$145
Veeco LRA-1 Rack adapter to mount four TG-70 TC gauges or two RG-81 ion gauge controls 5 1/4"h x 19"w x 17"d. (Item No. 3314)	Good Used	\$100
Veeco TG-70 3 station TC gauge control for 0-1000 microns. L.C. for DV-1M & DV-3M Ref O tubes. (Item No. 3312)	Used	\$300
Veeco TG-7, 3 Station TC gauge control for DV-1M TC tubes. LC (Item No. 3310)	Used	\$250
106) <u>VACUUM GAUGES & CONTROLS-Valve Controllers.</u>		
38 Varian 3120/3125 cryo system control. (Item No. 3360)	Used	\$1,450
Alcatel-Comptech # 0200-29822-1 Auto valve sequencer. (Item No. 3324)	New	
CHA AUTO-TECH 11 Valve control. (Item No. 3340)	Cleaned & Tested	\$1,250
CPA 8750 Auto valve control. 2 TC gauge control. 2 TC gauges & MP monitor (Item No. 3342)		\$1,200
D & W 4035 valve control. (Item No. 3344)	As Is	
P-E 411-3001 auto/manual controller for RCS IP system. (Item No. 3336)	Cleaned & Tested	\$1,150

Item	Condition	Price
Varian 971-1016 auto/manual valve control. Needs external T.C. set point LC. (Item No. 3350)	Rebuilt	\$1,750
Varian 971-1015 NRC 703 Auto/manual valve control, with meter relay for 531 T.C. gauge. LC. (Item No. 3348)	Rebuilt	\$1,250
Varian 980-6011 Programmer for 3125 vacuum system. (Item No. 3358)	Used	\$2,500
107) <u>VACUUM HARDWARE-ISO.</u>		
NW-630 Alum centering ring and Neoprene O-Ring. Balzers BP213-214-T (Item No. 2880)	Unused	\$125
108) <u>VACUUM PUMPS-Dry.</u>		
Dry KNF Neuberger N1400-1ANE Nr 298980 115V/208V 0.9KW 6A (Item No. 739)	Used	\$1,000
Dry, Rietschle SKG200-2V.02 blower 14.7in 0.65KW, 230/460V / 3Ph (Item No. 743)	Unused In Box	\$500
Gast Dry 0440-101A 1/4HP 115V 4 cfm@ 0 in. 20in cont, 24in inter. Direct drive, separate motor (Item No. 722)	New In Box	\$250
Gast Dry. 1023-1010-G274X, 10 CFM, ½ HP 115/230 V	Used	\$275
Gast Dry. 1023-101Q-G608X. 10 CFM 3/4 HP 115/230V (Item No. 5017)	Used	\$300
Gast Dry. 0823-101Q-G274X. 7 CFM 1/2 HP 115/230V. (Item No. 5016)	Good Used	\$275
Gast Dry. 0822-V103-G274X. 7 CFM 1/2 HP 115/230V. (Item No. 5015)	Used	\$250
Gast Dry. 1022-V215-G272X. 8 CFM 1/2 HP 115/230V. (Item No. 5014)	Used	\$275
Gast dry. 0522-V103-G18D. 4 CFM 1/4 HP (Item No. 725)	Used	\$145
Gast Dry. 1531-107-375, 1.5 CFM. 1/15 HP 115/230 V ext. Cap. DBL shaft. 2 filter bottles (Item No. 710)	Unused	\$145
Gast Dry. 0211-103-G8C. 1.1 CFM 1/6 HP (Item No. 712)	Rebuilt	\$175
Gast dry. KNF Neuberger PM-3276-1400.0 Oilless diaphragm pump. 150 L/M (5.3 CFM) at ATM. (Item No. 736)	New In Box	\$2,250
Gast Dry. 0322-V125-G21DX. 2.5 CFM. 1/4 HP 220 V 50 Hz 95 (Item No. 718)	Rebuilt	\$140
Gast dry. 0740-V13B. 5.9 CFM @ ATM, 1.2 CFM @ 20" Hg CONT. 24" Hg intermittent with 1/2" coupling for 1/3 HP 1725 RPM frame 48. (Item No. 731)	Good Used	\$150
Gast Dry. 12X2440-101. 15-25 CFM. Pump Only. Needs 1-2 HP motor. (Item No. 729)	Used	\$150
Gast Dry. 0822-101-G273. 7 CFM, 1/2 HP 208-220/440 V/3. (Item No. 727)	Good Used	\$195
Gast Dry. 0211 - V215 - G132AX 1.1 CFM 1/4 HP 208-220V 3 Ph. (Item No. 714)	Rebuilt	\$175
Gelman 13152 Press/Vac 1/12 HP Diaphragm (Item No. 754)	Used	\$195
Gomco (uses oil-Less GAST) Mod. 791 1/6 HP on cart w/filter bottle for medical use. (Item No. 756)	Used	\$150
Gast 1023-1010-G274X, 10CFM, ½ hp 115/230v	Used	\$275
P-E CFR contaminant free roughing cart. Dry vane roughing pump, LN sorbtion pump, controls & manual valves. (Item No. 1213)	Good Used	\$4,000
PIAB MD63 Art. No. 32.01.004 venturi vacuum pump. POR. (Item No. 5018)	Used	
PIAB Multiejek Tor 250 air ejection vac. Pump, POR. (Item No. 4737)	Used	
Stokes 15240.BC Dry pump pkg. 306-41 3"ASA Inlet Blower. TRB-405 Dry Pump. (Item No.4537)	As Is	\$3,000
Stokes Stealth, Dry Pump 885-15B (SSP-90) w/CAN-301 blower pkg. Filled w/Y25-6 Fomblin on frame w/controls 208V/3 phase, 4" ASA inlet flange water cooled, rebuilt by Stokes. (Item No. 4498)	Rebuilt	\$18,750
Stokes 895-075075 Dry pump pkg w/306-41 3" ASA blower w/water cooled motor and 575-E10 dry pump. Rain damage. Other pumps available Please call.	As Is	\$1,500
Stokes TRB-405 Dry Pumps only. NW-50 Inlet, 5HP 208-230/460V, 2.1 cubic meter/min 74 CFM (Item No. 4538)	As Is	\$1,000
Stokes-1532OBC, s/n#87447, 208v, 3ph, pkg. W/controls. 310-41 blower, w/canned motor and dry pump 895-075, 4" ASA inlet flange. (Item No. 4497)	As Is	\$5,000
Varian DVP-500 oilless piston pump. #4601-L7030-337. 20 millitorr b/p 10 Torr max . 16CFM . 1HP 230V/3ph (Item No. 745)	Used	\$1,500

Item	Condition	Price
109) VACUUM PUMPS-Liquid ring/jet.		
Nash AT-94 Liq ring 94 cfm, 2 stage, Bronze housing, Direct drive. # 81U-5518, 7.5 HP, 2123T frame, 208/230-460V 3 ph, as is \$750. (Item No. 751)	Rebuilt	\$2,750
Nash CL-201 Liq ring pump 200 cfm 1 stg. pump, 1750 RPM B/D. 30 HP 230/460V. (Item No. 5020)	As Is	\$1,000
Nash CL-202 Liq ring pump 200 cfm 2 stg. pump, cast iron, Direct dr. 10 HP # 81U-4734, F 215T frame, 1750 rpm 230/460V 3 ph w/ base. (Item No. 748)	Used	
SiHi LPHA85353 cast iron liquid ring pump. 1375 CFM @ 28" hg, 125 HP & 880 RPM. Pump only. (Item No. 772)	Rebuilt	\$15,000
Shinko 5W-50 AS 2 stage @27"Hg, Liquid ring, stainless, 3HP, 208V 3PH w/tank. Needs Rebuild.	As Is	\$1,000
Shinko 5W-100AS 53 CFM 2 stage @27"Hg., liquid ring, stainless, 7-1/2 HP, 208-3ph, w/tank Needs Rebuild (Item No. 5021)	As Is	\$2,500
Sullair SLFR275-W p/n 8016 vacuum system. Two water liquid ring pumps, one travlini TRH-40-110/C/GH and one Sullair L 321-B-01 each 5HP 230/460v,3PH 35CFM @ 25in/hg. Thermal vacuum sensor on each pump. 2 stage 480v 3ph control pnl. 12"dia x 26" H PVC water Tank. Pumps mounted on 120 gal horiz steel tank.	As-Is	\$4,500
	Rebuilt	\$8,000
110) VACUUM PUMPS-Mechanical 1 stage.		
Alcatel:1030, 17.7cfm, 115/230v, 1ph, 1hp, d/d. (Item No. 540)	Good Used	\$1,250
Becker KVT 3.100.70 CFM, 0.67 Torr. 5 HP 208-230/460V.13/6.5A (Item No. 4889)	Unused	\$3,000
Busch 016-112 8 CFM d/d, 3/4 HP 230-460V, 3ph, 0.5 Torr, 29.9 in. Hg. (Item No. 4714)	Used	\$750
Busch 016-118 8 CFM d/d, 3/4 HP 208/230-460V, 3ph, 15 Torr, 29.3 in. Hg. (Item No. 4789)	Rebuilt	\$1,250
Busch, RA-0100-A005-101,63 CFM, d/d, 5 HP, 208-230/460V, 3ph, 0.5 torr, 29.9 in,Hg	Rebuilt	\$3,250
Busch, RC0100. E506.1001, 63 CFM, d/d, 5HP, 208-230/460V, 3ph. 15 torr, 29.3 in, Hg.	Rebuilt	\$3,250
Busch RC-0025 20 CFM d/d, 1 1/2 HP 208/230-460V, 3ph, 15 Torr, 29.3 in. Hg. (Item No. 4579)	Used \$975	Rebuilt \$1,500
Busch-010-112, 6cfm, 115v,1ph, 3/4hp, d/d. (Item No. 542)	Rebuilt	\$1,650
Busch-063-138, 41cfm, 200/400v, 3ph, 3hp, d/d. 15 torr, 29.3 in Hg. (Item No. 544)	Good Used \$1,500	Rebuilt \$2,750
PVR (Italian-similar to Busch) EU 6 5/8. 41 CFM, d/d, 3HP, 230/480V 3ph 7.5torr, 29.6 in. hg	Excellent	\$2,000
Cenco-Pressovac, 1.2cfm, 115v, 1ph, 1/4hp, b/d. (Item No. 547)	Good Used	\$325
Dresser (Heraeus)-DS-40L, 36cfm, 208-230/460v, 3ph, 3hp, b/d. Piston (Item No. 549)	Good Used	\$1,250
Edwards-1-SC-900, 39.2cfm, 208-220/440v, 3ph, 2hp, b/d. (Item No. 557)	Good Used	\$1,450
Edwards-E1M18, 14.7cfm, 115/230v, 1ph, 3/4hp, d/d. (Item No. 4438)	Rebuilt	\$950
Edwards-E1M40, 30cfm, 230/460v, 3ph, 1.5hp, d/d. (Item No. 555)	Good Used	\$1,950
Edwards-E1M80, 57cfm, 220/380v, 3ph, 3hp, d/d. (Item No. 556)	Good Used	\$3,000
Edwards-ES-35, 1.2cfm, 115v, 1ph, 1/4hp, b/d. (Item No. 552)	Good Used	\$295
Edwards-ES150, 5.3cfm, 115/230v, 1ph, 1/2hp,b/d. (Item No. 553)	Good Used	\$150
Gast oil. 5565-V4. 55 CFM @ ATM.3 HP 230/460V, b/d (Item No. 741)	Used	\$600
Gast Oil. 0321-V23-G21BX, 2.5 CFM, 1/4 HP, 115 V, d/d (Item No. 716)	Rebuilt	\$175
Gast Oil. 0322-V3 2.5CFM 1/4HP 26" Hg vac. (Item No. 720)	New In Box	\$300
Kinney-KS-13, 13cfm, 115/230v, 1ph, 1/2hp, b/d. (Item No. 559)	Rebuilt	\$850
Lammert-0313120, 20cfm, 200-230/460v, 3ph, 1hp, b/d. (Item No. 569)	Used	\$950
Leybold-S-6, 6.8cfm, 220v, 1ph, 1/2hp, b/d. (Item No. 574)	Used	\$495
Leybold-S.6, 3.9cfm, 115v, 1ph, b/d. (Item No. 573)	As Is	\$250
Leybold-SV-25, 17cfm, 115v, 1 ph, d/d. (Item No. 4847)	Good Used	\$1,100
Leybold-SV-65, 46cfm, 208-230/460v, 3 ph, 3hp, d/d. (Item No. 576)	Rebuilt	\$2,250
Leybold SV-100, 70 CFM, 5HP, 208-230/460V 2: FPT inlet & outlet.	Rebuilt	\$2,220
Leybold-S60A 36.7 CFM, 230/460V, 3 ph, 2 HP, d/d. (Item No. 5022)	Rebuilt	\$2,300
Leybold S-160C, 124 CFM, 7.5 HP, 208V, 23A. LF 65 inlet & outlet flg.	Rebuilt	\$4,250
Rietschle DCLF 80 DV [04] , 47 CFM, d/d, 5.5 HP, 230/460V, 3 ph, 24 in, Hg.	Used	\$1,250

Item	Condition	Price
Stokes-146H-11, 30cfm, 208v, 3ph, 1.5hp, b/d. (Item No. 579)	Rebuilt	\$2,500
Stokes-146G, 17cfm, 208-230/460v, 3ph, 1hp, b/d. (Item No. 578)	Used	\$850
Stokes-148H-9, 50cfm, 208-230/460v, 3ph, 3hp, b/d. (Item No. 580)	Rebuilt	\$2,650
Stokes-148H-10, 50cfm, 208-230/460, 3ph, 2hp, b/d. New \$3,950. (Item No. 581)	Rebuilt	\$2,950
Stokes-149H-10, 80cfm, 208-230/460v, 3ph, 3hp, b/d. (Item No. 582)	Rebuilt	\$3,500
Stokes 149H-11, 80 CFM ,3hp,3ph belt drive	Rebuilt	\$4,000
Stokes-212H-11, 150cfm, 208-230/460v, 3ph, 7.5hp, b/d. (Item No. 584)	Rebuilt	\$5,500
Stokes-212H-10, 150cfm, 208-220/440v, 3ph, 5hp, b/d. Old style B.G. (Item No. 583)	Rebuilt	\$4,500
Stokes 412H-11, 300CFM, 4" ASA Flg, Welded oil case, Crankcase frozen and cracked. Cracked oil inlet on dead head, pump pulley, No motor or belt guard. Good for parts. Pump was "On-Line" when frozen.	As Is	\$2,500
Welch-1373, 10.6cfm, b/d, pump only. (Item No. 588)	Rebuilt	\$650
Welch-1399, 1.2cfm, b/d, pump only. (Item No. 587)	Rebuilt	\$375
Welch-1399, 1.2cfm, 115v, 1ph, 1/3hp, b/d. (Item No. 586)	Rebuilt	\$475
Welch-1403, 3.5cfm, 115/230v, 1ph, 1/2hp, b/d. (Item No. 589)	Rebuilt	\$625
111) <u>VACUUM PUMPS-Mechanical 2 stage.</u>		
Alcatel-2033, 27cfm, 208-230/460v, 3ph, 1.5hp, d/d. (Item No. 605)	Rebuilt	\$2,500
Alcatel-2030C, 17cfm, 208-230/460v, 3ph, 1.5hp, d/d. (Item No. 604)	Rebuilt	\$1,300
Alcatel-2008AC, 7 cfm, 115/230V, 1ph, 1/2 hp, d/d. (Item No. 5023)	Rebuilt	\$1,050
Alcatel-2004A, 3.2cfm, 115/230v, 1ph, 1/3hp, d/d. (Item No. 598)	Rebuilt	\$950
Alcatel-2008A, 7cfm, 115/230v, 1ph, 1/2hp, d/d. (Item No. 599)	Rebuilt	\$950
Alcatel-2012, 11cfm, 115/230v, 1ph, 3/4hp, d/d. (Item No. 600)	Rebuilt	\$975
Alcatel-2012A, 11cfm, 115/208-230v, 1ph, 3/4hp, d/d. (Item No. 601)	Rebuilt	\$1,175
Alcatel-2012AC, 11cfm, 230/460v, 3ph, 3/4hp, d/d. (Item No. 602)	Rebuilt	\$1,550
Alcatel-2060 , 30 CFM, 208-230/460 v, 3 ph, 3 ph, 3 hp, d/d	Rebuilt	\$2,000
Alcatel-2060C, 30cfm, 208-230/460v, 3ph, 2hp, d/d. (Item No. 607)	Rebuilt	\$2,250
Alcatel 2021 CP 14.6 CFM, 208-230/460V, 3 PH, ¾ HP, d/d.	Rebuilt	\$1,650
Alcatel 2021 CP 14.6 CFM , prepared for Fomblin, 200-480V, 3 PH, ¾ HP, d/d.	Unused	\$2,850
Alcatel 2033 CP+ 27 CFM 3ph., Fomblin	Rebuilt	\$3,000
Alcatel-2030, 17cfm, 208-230/460v, 3ph, 1.5hp, d/d. (Item No. 603)	Rebuilt	\$1,150
Alcatel-2033C, 27cfm, 200-230/460v, 3ph, 1.5hp, d/d. (Item No. 606)	Rebuilt	\$2,750
Alcatel-2063, 50cfm, 200-220v, 3ph, 3hp, d/d. (Item No. 608)	Rebuilt	\$3,500
Alcatel-2063C, 50cfm, 230/460v, 3ph, 3hp, d/d. (Item No. 609)	Rebuilt	\$4,250
Alcatel-2100, 90 cfm, 3.55 KW, 220/440 V, 60 Hz (Item No. 4888)	Used	\$3,500
Balzers DUO-016B, 12 cfm, d/d 110V. (Item No. 5024)	Rebuilt	\$1,100
Balzers-12 Cu M/hr, 9cfm, 208v, 1 ph, 3/4hp, d/d. (Item No. 614)	Used	\$650
Balzers-DUO-35, 20.6cfm, b/d, pump and base only. (Item No. 615)	As Is	\$600
Balzers-DUO-030A, 26 CFM d/d, 1.1 KW, 220/380V 50/60 Hz (Item No. 4878)	Good	\$1,175
Balzers-DUO-12A, 7cfm, d/d, fomblin. (Item No. 613)	Good Used	\$775
Cenco-Hypervac 25, 9.3cfm, 115/230v, 1ph, 3/4hp, b/d. (Item No. 621)	As Is	\$250
Cenco-HYVAC 28, 9.9cfm, b/d, pump only no pulley. (Item No. 622)	As Is	\$100
Cenco-HYVAC 2, 0.9cfm, 115/230v, 1ph, 1/4hp, b/d. (Item No. 617)	Good Used	\$375
Cenco-HYVAC 7, 2.8cfm, 115/230v, 1ph, 1/3hp, b/d. (Item No. 618)	Rebuilt	\$525
Cenco-HYVAC 14, 5cfm, 115v, 1ph, 1/2hp, b/d. (Item No. 619)	Rebuilt	\$650
Cenco-HYVAC 45, 15.9cfm, b/d, pump and base only. (Item No. 623)	As Is	\$150
Cenco-MEGAVAC, 2cfm, 115/23v, 1ph, 1/3hp, b/d. (Item No. 620)	Rebuilt	\$450
Edwards-E2M8, 6.7cfm, 115/230v, 1ph, 1/2hp, d/d. (Item No. 628)	Rebuilt	\$1,050
Edwards-E2M2, 2cfm, 115/230v, 1ph, 1/2hp, d/d. (Item No. 627)	Rebuilt	\$850
Edwards-E2M80, 57cfm, 208-230/460v, 3ph, 3hp, d/d (Item No. 635)	Rebuilt	\$4,500
Edwards-E2m30, 23 CFM 208-230/460 V , 3ph, 1 1/2hp d/d	Rebuilt	\$1,950
W/ new 208-230v, 1ph 1 ½ hp motor.	Rebuilt	\$2,200

Item	Condition	Price
Edwards-E2M12, 10.2cfm, 115/230v, 1ph, 3/4hp, d/d. (Item No. 629)	Rebuilt	\$1,575
Edwards-E2M18, 14.7cfm, 115/230v, 1ph, 3/4hp, d/d. (Item No. 632)	Rebuilt	\$1,475
Edwards-E2M30, 23CFM, 208-230/460V, 3 PH, 1 ½ HP d/d	Rebuilt	\$1,950
Edwards-E2M30, 23CFM, w/ new 208-230V, 1 PH, 1 ½ HP motor.	Rebuilt	\$2,200
Edwards-E2M40, 30cfm,208v, 3ph, 2hp, d/d (Item No. 634)	Rebuilt	\$2,950
Edwards-ED250, 8.7cfm, 115/230v, 1ph, 3/4hp, b/d. Needs Rebuild. (Item No. 631)	As Is	\$350
Edwards-ED660, 23cfm, 115/230v, 1ph, 1.5hp, b/d. (Item No. 633)	New	\$1,950
Edwards-ED660, 23cfm, 115/230v, 1ph, 1.5hp, b/d. (Item No. 4436)	Rebuilt	\$1,500
Edwards-EDM6, 5cfm, 110-125v, 1ph, 1/2hp, d/d. (Item No. 626)	Rebuilt	\$650
Edwards-EV-3, 115/230v, 1ph, b/d. (Item No. 625)	Good Used	\$425
EdwardsRV-3,2.6CFM, 115-208/230V,1ph, ½ HP, d/d.	Rebuilt	\$1,000
EdwardsRV-5, 4.1CFM, 115-208/230V,1ph, ½ HP, d/d.	Rebuilt	\$1,100
EdwardsRV-8, 6.9CFM, 115-208/230V,1ph, ¾ HP, d/d.	Unused	\$1,400
Fischer Scientific M8C P/N 01-257-8C, 5.6 CFM, 115-200/230V, 1ph, ½ HP, d/d.	New In Box	\$1,450
Kinney-KC-5, 5cfm, 115/230v, 1ph, 1/2hp, b/d. (Item No. 639)	Rebuilt	\$750
Kinney-KC-3, 3cfm, pump and base only. (Item No. 638)	As Is	\$100
Kinney-KD-30, 30cfm, 230/460v, 3ph, 1.5hp, b/d. (Item No. 641)	Good Used	\$1,800
Kinney-KTC-112, 112cfm, 220/440v, 3ph, 7.5hp, b/d. (Item No. 562)	Good Used	\$4,000
Kinney-KTC-21, 21cfm, 115/230v, 1ph, 1.5hp, d/d. (Item No. 640)	Rebuilt	\$1,750
Lammert-10310, 11.3cfm, 115/230v, 1ph, 3/4hp, d/d. (Item No. 4437)	Used	\$600
Lammert-10207, 7.5cfm, 115/230v, 1ph, 3/4hp, d/d. (Item No. 643)	Rebuilt	\$800
Leybold D1.6B 1.2 CFM, 115V. (Item No. 5048)	Good Used	\$750
Leybold D25BCS, 20.9 CFM, 1.5 HP, 200-230V, 1ph, 9-8.7 A, optional:CFS 16/25 oil filter and ARS 16/25 exhaust filter, pump only (Item No. 4694)	Rebuilt	\$2,900
Leybold D4AC 4.5 CFM, 115/230V. (Item No. 5050)	Good Used	\$900
Leybold D4B 3.4 CFM, 115V. (Item No. 5049)	Good Used	\$950
Leybold D65B,53 CFM 3ph	As Is \$2,750	Rebuilt \$4,500
Leybold-D16AC, 14.4cfm,115/230v, 1ph, 1hp d/d. (Item No. 651)	Rebuilt	\$1,500
Leybold-D16A, 14.4cfm, 115/230v, 1ph, 1hp d/d. (Item No. 650)	Rebuilt	\$1,450
Leybold-D16B, 13.4cfm, 115/200-230V1 PH, 1hp, d/d (Item No. 652)	Rebuilt	\$1,600
Leybold-D16BC,5cfm, 115/200-230V1 PH, 1hp, d/d	Rebuilt	\$1,750
Leybold-D2A, 2.2cfm, 115/230v, 1ph, 1/3hp, d/d. (Item No. 646)	Rebuilt	\$875
Leybold-D2AC, 2.2cfm, 115/230v, 1ph, 1/3hp, d/d.	Rebuilt	\$975
Leybold-D30A, 26.8cfm, 115/230v, 1ph, 1 1/2hp d/d, unused in box \$2,750 (Item No. 653)	Rebuilt	\$1,750
Leybold-D30AC, 26.8cfm, 208v, 3ph, 1 1/2hp d/d. (Item No. 654)	Rebuilt	\$1,850
Leybold-D4A, 4.5cfm, 115/230v, 1ph, 1/2hp, d/d. (Item No. 647)	Rebuilt	\$950
Leybold-D25BCS, 20.9cfm, 208/460v, 3ph, 1 1/2hp d/d	Rebuilt	\$2500
Leybold-D40BCS, 200-230/460v, 3ph, 3hp, with fomblin & OF-40-65 filter (Item No. 4482)	Rebuilt	\$5,400
Leybold-D65BCS, 200-230/460v, 3ph, 3hp, with fomblin & OF-40-65 filter (Item No. 4483)	Rebuilt	\$6,660
Leybold-D60A, 36.7cfm, 230/460v, 3ph, 2hp d/d. (Item No. 655)	Rebuilt	\$2,850
Leybold-D60AC, 36.7cfm, 208v, 3ph, 2hp, d/d. (Item No. 656)	Rebuilt	\$3,000
Leybold-D8A, 7cfm, 115/230v, 1ph, 1hp,d/d. (Item No. 648)	Rebuilt	\$1,050
Leybold-D90AC, 55cfm, 230/460v, 3ph, 3hp, d/d. (Item No. 657)	Rebuilt	\$3,250
Leybold-DK-20, 13.3cfm, 208/220/440v, 3ph, 1hp, d/d. (Item No. 649)	Used	\$950
Leybold-DK-90, 61cfm, 208-220/440v, 3ph, 3hp, d/d. (Item No. 658)	Rebuilt	\$5,000
Leybold-DK-180, 120cfm,220/440v, 3ph, 7.5hp, d/d. (Item No. 660)	Used \$4,000	Rebuilt \$6,500
Marvac-5BR-3, 5.5cfm,115/230v, 1ph, 1/2hp, b/d. (Item No. 662)	Rebuilt	\$650
Marvac-B-30, 8.8cfm,115/230v, 1ph, 3/4hp, b/d. (Item No. 663)	Rebuilt	\$750
NRC(Leybold-2D, 1.3cfm, 115v, 1ph, 1/4hp, b/d. (Item No. 666)	Used	\$225
Precision-PS-500, 17.6cfm, 230/460v, 3ph,1hp, b/d. (Item No. 670)	Rebuilt	\$900
Precision-D150, 5.3cfm, b/d, pump and base only. (Item No. 668)	Rebuilt	\$500

Item	Condition	Price	
Precision-PS-300, 10.6cfm, 115/230v, 1ph, 1hp, b/d. (Item No. 669)	Rebuilt	\$575	
Stokes-V-023-2, 55cfm, 208-230/460v, 3ph, 3hp, d/d. (Item No. 672)	Rebuilt	\$3,000	
Stokes-V-017-2, 36.7cfm, 2hp, d/d. (Item No. 674)	Rebuilt	\$2,500	
Varian SD-400, 50 cfm, 200-230/460V, 3 ph, 3 HP d/d (Item No. 4892)	Excellent	\$3,500	
Welch-1374, 23cfm, 155/230, 1ph, 1.15hp, b/d. (Item No. 686)	Rebuilt	\$1,400	
Welch-1375, 35cfm, 208-23/460v, 3ph, 2hp, b/d. (Item No. 688)	Rebuilt	\$2,750	
Welch-1376, 10.6cfm, 115/230v, 1ph, 1hp, b/d. (Item No. 689)	Rebuilt	\$1,050	
Welch-1376, 10.6cfm, b/d, pump only. (Item No. 690)	Rebuilt	\$800	
Welch-1397, 17.7cfm, b/d, pump only. (Item No. 694)	Rebuilt	\$1,025	
Welch-1397, 17.7cfm, 115/230v, 1ph, 1hp, b/d. (Item No. 693)	Rebuilt \$1,350	Unused	\$2,500
Welch-1398, 53cfm, 208-230/460v, 3ph, 3hp, b/d. (Item No. 696)	Rebuilt	\$3,250	
Welch-1400, 0.9cfm, 115v, 1ph, 1/3hp, b/d. (Item No. 677)	Rebuilt	\$650	
Welch-1400B-01, 0.9cfm, 115v, 1ph, 1/3hp, b/d. (Item No. 678)	Unused In Box	\$900	
Welch-1400, 0.9cfm, b/d, pump only. (Item No. 676)	Rebuilt	\$500	
Welch-1402, 5.6cfm, b/d, pump only. (Item No. 680)	Rebuilt	\$700	
Welch-1402, 5.6cfm, 115/230v, 1ph, 1/2hp, b/d. (Item No. 679)	Rebuilt \$950	Unused	\$1350
Welch-1405, 2.1cfm, 115/230v, 1ph, 1/2hp, b/d. (Item No. 684)	Rebuilt	\$625	
Welch-1405, 2.1cfm, b/d, pump only. (Item No. 683)	Rebuilt	\$425	
112) <u>VACUUM PUMPS-Misc.</u>			
Beech-Russ Mod. A 1/3 HP 115/230 V, d/d (Item No. 702)	As Is	\$185	
Bell & Gossett SYC-LV 1/12 HP Diaphragm (Item No. 704)	As Is	\$95	
Gast-oiled. 2565-V2. 21 cfm, 1 1/2 HP, 3ph, 230/460V d/d. (Item No. 5025)	Rebuilt	\$700	
Hetzl 1/4 HP 115 V, d/d (Item No. 706)	As Is	\$250	
Leiman 1 HP. b/d (Item No. 762)	Used	\$850	
Marvac 2AARS 1/4 HP, b/d (Item No. 764)	Used	\$350	
Nelson 911 1/4 HP, b/d (Item No. 766)	Used	\$195	
Redpoint 58 BF, 1/3 HP, b/d (Item No. 768)	Used	\$350	
113) <u>VACUUM PUMPS-Parts.</u>			
Lammert 35900 3/4 HP. Piston, Parts only. (Item No. 760)	As Is	\$95	
114) <u>VACUUM PUMPS-Sorbtion..</u>			
Huntington SP-151 Std size sorb. Pump (Item No. 4587)	Very Good	\$150	
Molecular Sieve. 13X-1/8 d Pellets. For foreline traps. (Item No. 1223)	New		
Molecular Sieve. 5A-1/16 d Pellets. For vacsorbs.Qt. cans ,10 gal drums. (Item No. 1221)	New	\$15	
Portable Vacisorb on 2-wheel cart. Varian 941-6003 aluminum triple size w/bake heater and 944-6013 SST Dewar. MDC 2 3/4 CFF. 1 1/2 Valve, cross, & 3' flex rough line. Varian 951-5096 BTA valve & 531 T.C. on 2 3/4 CFFs (Item No. 1203)	Used	\$1,950	
Ultek SST sorb pumps (Item No. 1195)	Used	\$275	
Varian 931-5010 Megasorb roughing module. Manual valves. Bakeout timer. (Item No. 1211)	Good Used	\$3,500	
Varian 931-5012 Megasorb roughing module. Air operatedl valves. Bakeout timer and dry vane pump (Item No. 4558)	Good Used	\$4,500	
Varian 941-6001 Alum Vacisorb, Std size. New sieve. Earlier model with cork. (Item No. 1187)	Used	\$250	
Varian 941-6501 Alum Vacisorb, Std size. New sieve. Current model with check valve. (Item No. 1189)	Used	\$400	

Item	Condition	Price
Varian 944-0044 bakeout heater. 120V 400W. (Item No. 1193)	Used	\$125
Varian Large SST Vacsorb 12 d x 20 h w/6" d x 6 1/2 1 neck to 8" CFF. (Item No. 1209)	Used	\$475
Varian SST Vacsorb, Std size. 1 1/2 tube. (Item No. 1185)	Used	\$150
Varian SST Vacsorb Dewar, Hook style, triple size, 28" tall. (Item No. 1207)	Used	\$750
Varian SST Vacsorb Dewar, Pin style, std. size. Current model 944-0011. (Item No. 1201)	Used	\$425
Varian SST Vacsorb Dewar, Hook style, std size. (Item No. 1199)	Used	\$350
Varian/Ultek hook-style styrofoam Dewar. (Item No. 1197)	New	\$55
115) <u>VACUUM PUMPS-Titanium sublimation.</u>		
Hughes W/C "TSP Bomb". 3-2 3/4 HUF, 5"d x 10"l. (Item No. 1172)	Used	\$150
P-E/Ultek 210-1560 Combo. Std ion/TSP (missing). 6 3/4 CVF, 3 3/8 CVF TSP port W/C, w/HV FT. (Item No. 1176)	Used	\$1,950
Special 3 Filament. Getter pumps on mini CF 4 pin header. 2 5/8 L (Item No. 1159)	Used	
Temescal SS-3500 E.B P. supply & TSP Rod fed gun on 12 3/8 OD P.C> wire seal flg.SS-300 can be converted to optertion similar to ES-6 @ 6 KW (10KV,0.6A), 208/230V 3 ph (Item No. 1179)	As Is	\$4,500
Ultek 210-1500 Boostvac 25 L/S D-I ion / 500 L/S TSP. 6 3/4 CVF. (Item No. 1157)	Used	\$2,750
Ultek 214-0410 bakeable 4 filament TSP cartridge on 2 3/4 CVF. Includes 214-0500 18".adapter cable with MS conn. (Item No. 1161)	Used	\$550
Ultek 214-0400 Non bakeable 4 Fil. TSP cart on 3 3/8CVF w/ MS 3102A-24-10P (Item No. 1164)	Used	\$250
Varian "old style" 3 filament TSP cartridge on 2 3/4 CFF. For use with 922-0006 power supply. (Item No. 1168)	Used	\$250
Varian 916-0009 Mini Ti-ball mtd. on 6" CFF, W/C 1 1/2" dia substrate-shield. No Ti-ball. (Item No. 1170)	Good Clean	\$550
Varian Q 3500 Ti pump getter array LN insert. 18" top flange with 2 3/4 CFF. (Item No. 1174)	Unused	\$1,475
Varian Q 3500 Ti pump getter array. LN insert. 16"d x 19"h w/18"OD top flange. 2 3/4 CFF/top. (Item No. 1084)	Unused	\$1,475
Varian Special TSP/Ion pump. No W/C 6"d x 12"l 2 3/4 & 8" CFF. Body only. (Item No. 1166)	Used	\$250
116) <u>VACUUM SYSTEM COMPONENTS MISC.</u>		
Edwards EO69-00-209 Top plate for etch accessory on model 306 Coater (Item No. 105)	Used	
117) <u>VACUUM SYSTEMS-Cryo Pumped.</u>		
24" Web Coater tooled for filament evaporation on lead frames. Approx 6' dia x 4' lg. SST chamber for 20" ASA cryopump. Stokes 1721 blower package. Arctic AC-5, 5 ton A/C chiller. (Item No. 174)	Good	\$65,000
MRC-Sputtering system, custom built for seagate for hard disks coating. GP 275 Pirani gauge. CTI-8 cryo pump, 6"VRC main valve, 6" throttling valve, MRC 2kw RF power supply & matching box, 3 target, 19 1/4" id x 6 1/2" horizontal SST chamber, no comp, MP, or I.G. (Item No. 4503)	Good Used	\$9,500
HVEC 38"WX36"DX66"H SST W/C box, front opening door. 20" ASA poppet valve w/baffle In plenum. No pumps or controls. Unit had CTI-500 cryo. Varian HS-20 also available	As-Is	\$30,000
118) <u>VACUUM SYSTEMS – Diffusion Pumped.</u>		
Balzers BAK-760 36"hx 35" w x 37 1 1/2 d , SST w/c box. 2 ea 4" VP in full opening door. ISO-250 port on top w/ rotating planetary FT, 4 ea 32mm ports on top, 2 ea on sides and 27 ea on bottom. 18 blanked off , 3 H.V. FT, 2 water and air FT. One substrate heater on each side. Waterbaffle in pump port. No control console with system but a 2 Bay Balzers cabinet is available. PVA-500-p2 w/c SST Poppet valve. EVA-100 P. Fore and rough valves. BFA- 500 MF water baffle, Diff-500 ISO-500 DP 230/400V. 7200W, 3ph. WKP-500 A blower. 588 m 3/ H 2.2 KW 230/400 V. UNO-100 MP, 100m 3/ H, 4 KW 220/380V 1ea 3KVA and 2 ea 5 KVA transformers. Some control boxes.	As-Is	\$27,000
Balzers BAK-1050 41 1/4" H x 41 1/2 w x 55 " D, SST W/C Box. ISO-320 portin top and 2 in bottom. Each bottom flg has 10 ea 32mm holes in it. Also, there are 36 ea 32 mm holes in bottom. 1 ea ISO-160 Port in each side. 4 ea 32 mm holes in rear. Chamber was stripped for a rebuild. Some rust and rain damage But can be rebuilt. No control console. PVA-630-P2 ISO-630 W/C SST poppet valve with ISO-160 rough Port, 2 ea KF-40 and 1 ea KF-16 ports. PFA-630 A water baffle- No refrig unit, Diff-630 A ISO-630 D.P. 380V 3ph 10,500 VA. WKP-1000 blower 380V. Uno-170 MP. 380V. ISO-160 poppet valve, some piping and control boxes.	As- Is	\$37,500

Item	Condition	Price
1" CVC-VMF-11, AIR COOLED DP W/ 3/8 STAINLESS quick connects on in & out, 220V (item no. 4450)	As Is	\$350
1" CVC-VMF-10, air cooled dp w/ 1/2 inch foreline valve, w/ a 1" ASA lever valve. (item no. 4449)	As Is	\$275
1" Vacuum B pumping station. CVC VMF-DP A/C W/ fan. Welch 1400 PMBG, VAT NW-25 Al Manual gate valve & ASCO 1/2" sol fore valve (item no. 7)	As Is	\$1,250
Temescal 5' dx 6' lg STL w/c chamber. Two NRC HS-16 DP	As Is	\$37,520
CHA SE600 frame w/ 6" ASA SST valve & LN trap. No pumps, sidepanel, hoist, controls, or gages. 2ea 2kva power stats. Has a special 6" ASA to 20" BP w/ 5" d x 8" hi neck. 1 Rot FT center & small sputter gun.	As Is	\$2,500
10" ASA Pumping Stack. CVC PMC-10B DP, BCN-101B LN Trap. 10" gate valve, 3" Rough & fore valves. Cold cathode gauge. 10" ASA 900 elbow to a 18 x 18 x 30 SST chamber from a Brad Thompson E.B. Welder mounted on a frame. VPE. (Item No. 97)	Very Good	\$11,500
10" CPA 26" SST BP Coater. CPA 10" Aluminum LN trap/valve air, 3" VRC air rough & fore valves. 2 KVA Fil PS & Tap SW, CPA 8750A valve control, CPA 8810 source heater PS & 8701 substrate temp control, CPA shutter control & trap bakeout, GP 260 ion gauge. (Item No. 95)	Good	\$8,450
2" Denton DV-502 manual fil. Evap. 12" x 12" BJ & guard, disch. Gauge, welch 1402 MP, LN trap, 2" W/C D.P. (Item No. 4756)	Rebuilt As Is	\$6,500 \$4,000
2" Key High Vacuum Manual portable pumping station. 2" ASA Varian HSA air cooled DP. 2" Key main valve, LN trap & 3/4" rough & fore valve: Alcatel 2008A 7 CFM MP and G-P 260016 ion/thermogauge. (Item No. 15)	Very Good	\$4,500
2" Key high vacuum, #P2AC-BM Manual, pumping station. 2" asa air cooled dp, 2" main valve, ln trap, 3/4 rough and fore valve. 3/4" IG. (Item No. 4451)	Good	\$2,250
2" ASA Varian pumping stack. M2 DP, 951-5204 SST gate valve, bellow air w/ sol (Item No. 13)	Unused	\$1,500
3" Veeco VS-300 single lever manual pumping station. L N trap. 3" Air cooled DP. Welch 1402 (5.6 CFM) M.P. ION/2 position TC gauge control. 115V, 1 ph, 14 A (Item No. 19)	Good Used	\$5,000
4" ASA CVC PSE-43 Manual Pumping System. VCS-41 main valve. BC-41 multi-coolant baffle, PMC-4B DP, Welch 1397 17 CFM MP. No gaging. Rebuilt by Exolon. (Item No. 23)	As Is	\$2,750
4" Commonwealth scientific, DP stack, 4" ASA pump, butterfly valve, Ln2 trap, 1" IG port, Varian 531 Thermo couple gauge. (Item No. 4518)	Very Good	\$1,350
4" CVC Manual System. 19" SST BP. No FT holes. (3) Eight pin FT soldered in BP; 3/4 IG port. VCS-41A solid body main valve 1 1/8 Fore & Rough valves and 1 1/2" BJ and Gard. Counterbal Hoist but only weight. Circuit breaker panel, No gaging or MP (Item No. 27)	As Is	\$2,750
4" Kinney PW 400 system. 18" SST BP, 15" BJ, Cold trap & 4" DP. 5 H.V. FT. (Item No. 31)	As Is	\$1,500
4" Mfg unknown sputtering system, 4" cvc pmc-4b dp, throttle valve, Cvc bc41 multi cooled baffle, vcs-41 gate valve, 18x18 jar 1397 pump. (Item No. 4453)	As Is	\$4,500
4" Pumping stack, CVC MCF-300 DP. VRC 4" lever valve, water baffle, top spool w/flanges. (Item No. 21)	As Is	\$475
4" Veeco VE-401 manual pumping station in homemade frame. W/controls. 4" SST W/C DP and LN As Is trap. Brass bellow Fore, rough & BTA valves. 38 w x 33d x 35h. (Item No. 40)	As Is	\$1,500
4", Mfg unk, manual, BJ system, no hoist. 24" Sq. Alum BP w/4" pump port. No FT holes. Angle iron/Alum frame. 4" ASA x 8" h SST roughing spool w/ion/TC ports, 4" ASA Temescal split body alum gate valve. 4" ASA D & W SST LN trap. 4" ASA Varian VHS-4 (Item No. 33)	As Is	\$2,750
6" Varian 3117 Auto EB Evap. 24x30 SST B.J. w/ 2" & 5" V.P. 6" ASA FLG on top. Motor Hoist, 27" SST BP, 6" Alum. solid body, Air Gate, 0316-6 Ln Trap & VHS - 6 DP. Manual sw controls, 2KVA Variac. DYN. Optics 580D Optical Monitor w/ head, 2 HV, ROT, w/c F.T. Welch 1397 MP. No EB Gun or P.S. (Item No. 4543)	As Is	\$15,500
6" Veeco 776, 20" BP, 18x29" BJ & Gard w/C Bal Hoist, Ln Trap & DP. 1397 MP. Manual Valves. RG-83 IG & TG-7 TC gauges. 2 KVA Fil PS w/ Variac & 2 FT Patch Cord. (Item No. 4541)	Good Used	\$9,500

Item	Condition	Price
6" ASA manual stack, 22 1/2" OD x 14 1/2" ID SST BP. 14 1/2"d x 9"h sump. w/LN trap & manual poppet valve. (Item No. 83)	As Is	\$495
6" ASA manual system. 20"OD x 7"ID 1"thk SST BP w/ 5 5/8" h centered neck w/ 6" ASA flange. No Ft holes. 1/4 FPT, 3/4 and 1" QC ports on neck. CVC VCS-61 crank gate valve. CVC PMC-6B Diff pump. 1" rough and 1 5/8 foreline valve. Mounted on Aluminum fr (Item No. 48)	As Is	\$1,750
6" CHA SE-600 Frame. 20" SST BP & manual valves. 2 KVA Fil P.S. & Tap SW. 8 hi-current FT. Varian VHS-6 DP. No BJ, Gard, hoist or gauges. (Item No. 58)	As Is	\$4,500
6" CVC 20"dx 30"h SST BJ w/ 6" V.P. Manual System. 24" Ni plated steel BP w/ 1 shutter, 2 HV and 3 Hi current FT. W/C poppet valve baffle. 6"small flange DP 1 5/8 Rough & Fore valves, CB hoist. CVC GP-145 Pirani gauge & old ion gauge. (Item No. 52)	As Is	\$2,950
6" CVC 26" SST BP pumping stack. CVC 6" solid body air valve, 2" air rough & fore valves. D&W SST LN trap. CVC PMCS-6B DP. Perf. Angle Frame. No Controls. (Item No. 85)	Very Good	\$4,950
6" CVC AST-400 Sputtering Module. Previously used for Plasmavac 400 sputtering system. No power supplies or tooling. 15 1/2 ID x 36" LG. (Item No. 50)	As Is	\$6,250
6" CVC Automatic system. 24"dx 32"h SST BJ w/ 2 4" VP (No glass), 26" SST BP w/ 5 FT, 24"d x 6 1/4"H SST collar w/ (10) 4" OD ports. 4 Blanks. VCS-63A main valve, BC-61 multicool baffle. PMC -6B Diff pump. 2" Fore and Rough valves. Innotec Cryomeiser LN (Item No. 63)	As Is	\$9,500
6" CVC CV-18 Coater. 18" Guard & motor hoist. 20" SST B.P. Manual valves. BCN-61 LN trap. PMC-6 D.P. GPH-100 Discharge gauge. 2 KVA Filament P.S. and Dual tap S.W. No B.J., M.P. or main valve operator (Item No. 65)	As Is	\$6,275
6" CVC CV-18 Coater. 18"x 30" BJ with Guard & motor hoist. 20" SST B.P. Auto valves and switch control BCN-61 LN trap. PMC-6B D.P, 2 KVA Filament P.S, with tap sw., 3 400A FT, GICS-110 ion gauge/TC. (Item No. 4454)	As Is	\$7,500
6" CVC CVE-21 Manual 18 x 30 BJ Coater, 20" SST BP, 2 KVA Fil PS. VCS-61B Main Valve and 1 5/8 foreline & rough valves. BC-61 Multicoolant Baffle, PMC-6B DP, GIC-110 A ion/TC gauge. No BJ, gard, hoist or MP. (Item No. 67)	As Is	\$4,900
6" CVC manual coater. 26" SST BP - NO FT holes. Center pump port, PMC-6B DP. LN Trap & 2" Fore & rough valves. HYD hoist. No BJ or MP. Was used with a sputtering module. (Item No. 87)	As Is	\$6,000
6" Edwards MK2 Diffstak 160/700 P Automatic pumping system. Two KF25 4 way collars on blanked off 8 7/8 OD NW-160 inlet. , BRV-25 Backing/Roughing valve. LN baffle w/ side tank, 2011 auto pump cycle control w/2 PRM-10 pirani gages and ion 8 gage w/ CP-256 penning gage tube & vacuum map. Relay control panel and opto input unit. 208V 3 Ph 4 wire Mounted on 4' w x 2'd x 4 "h caster cart. No MP Manuals available. (Item No. 42)	Excellent	\$11,500
6" Pumping Stack, CEC KS-200 DP. Temescal 6" Toggle Valve, CEC baffle WB 10-02, Brass rough valve. (Item No. 46)	As Is	\$595
6" Vactite Belljar system. 24"d x 33"h SST BJ W/2-5" VP & hydraulic hoist. 27" SQ SST BP. Air operated SST 6" poppet valve & 2" foreline & roughing valves. 6" NRC HS-6 SST DP & water baffle. Kinney KC-30, 30 CFM 2 stage MP. 2 CFM holding MP. 73"h x (Item No. 71)	As Is	\$8,500
6" Varian 3117 Auto Fil Evap. 18dx29 Cleaned but scratched BJ & Gard w/ Motor Hoist. 20 " SST BP , Air Gate , 0326-6 Ln Trap & VHS - 6 DP , 703 Valve Control & 831 Ion / TC Gate. 2 KVA Variac Fil P.S. w/ 2 400 A FT. Welch 1397 MP. (Item No. 4542)	As Is	\$12,500
6" Varian 3307-L 5045-303 cart mounted MANUAL pumping assembly. w/ 6" Varian (VRC solid body) #1298-K9938-336 main valve. Varian 0326-6 LN trap. Varian VHS-6 Diff pump. Varian 843 ion/TC control. Varian SD-700 (Alcatel 2033) 27 cfm MP (Item No. 73)	Excellent	\$10,500
6" Veeco 776 Automatic coater, 20" SST BP, 18 x 30 BJ & Gard w/hoist. LN Trap & DP. 2 KVA Fil P.S. & Tap SW. No side panels or MP. (Item No. 81)	As Is	\$7,500
6" Veeco 776 , 20" B P , Motor Hoist 2 KVA Transformer & Dual tap switches. Few controls. No BJ Valves, Trap or pumps Orn Paint w/sidepanels. (Item No. 4540)	As Is	\$2,450
6" Veeco VE-775 20" BP, 18 x 30 BJ gard, DP, trap, valve & hoist. No BJ or MP. (Item No. 77)	As Is	\$4,500
6" Veeco VE-776 20" BP, BJ Gard. Parts missing: No hoist, Pyrex BJ, Panels etc. (Item No. 79)	As Is	\$1,950
CVC filament evaporator, 20" SST baseplate, motor hoist, PMC-6B DP. No bell jar or MP. (Item No. 5041)	As Is	\$2,350

Item	Condition	Price
Ion Plating System for Titanium Nitride. 40"h x 27"w x 28"d SST W/C chamber. 22"h upper differentially pumped chamber. Many ports. 2 Temescal 1" rod fed guns & fil xfms. Cooke 10" DP & Var. VHS-6 DP w/LN Traps. No MP. Temescal CV-14-222 EB PS w (Item No. 93)	As Is	\$27,000
Titanium Nitride Coater. Mfg UKN, SSSt w/c dual chamber 26 3/4 W x 27 1/2 D x 39 5/8 H overall 21 1/4 H x 26 3/4 W x 27 1/2 D top chamber for TiN coating from evap, Tin & RF. 16 3/8 H x 26 3/4 W x 27 1/2 D bottom chamber has 2 Varian 843 ion/tc gage. SRFH-270-1 Ti rod fed gun run by a CV-14A-220 EB PS. No MP or control console. No front door. Cham has two 0-rings	As-Is	\$27,500
Temescal 5' D x 6' Lg Stl w/c chamber, 2 ea NRC HS-16 DP & poppet valves. 3 ea VP 10" bottom port & FT ports. Balzers optical monitoring but no controls, 7.5 KVA fil supply, rotary drive for substrate rotation, substrate heat. Glow discharge PS. 2 bay control console 47"W x 70" H. No MP	Good	\$37,500
Varian 3125 auto sputtering system. Three S-Guns and 2 DCPS & sw. panel. 30"d x 36"lg (29 x 30 ID) SST w/c chamber with two full opening doors. LN Trap-valve and VHS-250 DP. Has RF capability & match network but no RFPS. Substrate heat. IC-6000, Complete (Item No. 189)	As Is	\$35,000
SST 5 way cross 48" Idx 74" deep w/ mild steel flanges, 20" CVC DP w/20" poppet. LN2 trap. 4" poppet foreline, 4" gate roughing valves. Front roll out door, w/o controls or MP, numerous rotary, viewport, KV and cooling feedthrus.	Good	\$25,000

119) VACUUM SYSTEMS-Ion pumped.

P-E/Ultek RCS ion pumped SST sump w/700-055-600, no LN insert . Top flange 21"OD x 14 1/2"ID. 22"h. 8-25 L/S cells, no magnets. (Item No. 4456)	Used	\$1,250
P-E/Ultek RCS ion pumped SST sump w/700-055-600 LN insert only. Top flange 21"OD x 14 1/2"ID. 22"h. 8-25 L/S cells, 13-2 3/4 CFF, 1-2 1/8 CFF. (Item No. 133)	Unused	\$1,950
Perkin Elmer 16001355 tube bakeout station. 80 lit/sec ion pump. VAT 8" CFF manual gate valve Two LN sorbtion pump roughing w/ SST dewars. PE #DGC III ion/TC gauge. Digital 500 ion pump P.S. Eurotherm digital temp control. Power dist. panel. 120/208V 17A (Item No. 155)	Good Used	\$9,750
Ultek 18" dia x 36"h SST chamber w/3 6" CVF VP with wire seal flg on 18" dia x 24" hi sump. 400 l/s ion pump in bottom of sump. 13ea 2 3/4 and one 3 3/8 CVF flg on sump. 60-730 KreiPsman gauge control, 70-805 master power panel W/TC. 70-810 aux. contro (Item No. 147)	As Is	\$8,500
Ultek Bake station. 25 L/S pump, VT-6 TC gauge. Parts missing. (Item No. 129)	As Is	\$450
Ultek sump w/27" legs. 18"d x 17"h. Eight 25 L/S cells w/elements no magnets, 13 CVF ports. 22"OD wire seal flange, Poppet valve. (Item No. 135)	Used	\$1,250
Ultek sump w/27" legs. 18"d x 17"h. Eight 25 L/S cells w/elements & Mag. 13 CVF ports. 22"OD wire seal flange. (Item No. 137)	As Is	\$1,595
Ultek TBK table top sump only. 12"OD x 15"h. 14 1/2"OD wire seal flange. 12 CVF ports. Two 25 L/S IP cells. (Item No. 131)	As Is	\$750
Varian UHV SST bakeable W/C BJ system W/24" Wheeler flgs. 24"d x 36"h BJ w/1-6" CFF VP & 1-6" CFF blank. 24"d x 36"h sump w/20-2 3/4 CFF, 2-10" CFF & 1000 L/S diode ion pump port. 153 No hoist. (Item No. 149)	Very Good	\$22,500
Varian 18"d x 27"h SST Wheeler flange sump w/10" legs, 10 CFF ports, 2 LN shroud FTs 8" CFF pump port with poppet valve seat.w/bakeout. (Item No. 139)	As Is	\$3,500
Varian 36"dia x 24"hi. SST W/C wheeler flg. chamber. 6" hi top cover has two 2 3/4" and four 4 1/2" CFF. 18"hi sump has approx 24 ea 2 3/4 CFF and 8" CFF pump port to 912-7022 400 l/s ion pump. (Item No. 151)	As Is	\$21,000
Varian 931-0003 14" x 24" BJ. Guard, hoist, 400 L/S diode, valves, vacsorbs, 921-0005 CU, TC gauge & cabinet. (Item No. 141)	Very Good	\$5,500
Varian 933-0004A tube bakeout station. 8 lit/sec ion pump and 921-0062 Ion pump control. 1 Vacsorb roughing 90 valve & 90 bakeable valve. 2 3/4 CFF pump port.. 801 TC gauge and BTA valve, timer & control. 19:x 21" cart w/ casters. 14"dx 17"H i.d. oven (Item No. 143)	Very Good	\$4,250

120) VACUUM SYSTEMS-Misc.

Aluminum Test/ Degassing Chamber. 19" ID x 12" hi spool. 22 7/8d x 15/16 thick. Aluminum lid. 24" d x 3/4 thick SST BP w/ 6ea 1/4 ,2ea 1/2 , and 1 ea 3/4 RL fittings brazed on bottom. Welch 1402 5.6 CFM MP, HP 6111 A 20V 1A P.S. and GP 275 convectron gage. Mounted on 24" x 36" x 37" hi 5" caster cart.	Good	\$2,250
20" SST BP w/4" ID centered neck to 4" ASA VRC lever valve. 8 ea. 1" holes in BP. 1 1/8" Temescal air foil & rough valves. 4" ASA G-P 25002 LN trap. No BJ, DP or MP. 24" x 24" x 34" h caster cart (Item No. 5072)	As Is	\$1,650

Item	Condition	Price
6" NRC 3177 30" BP SST, 6" ASA Centered Port, 7 1/8 Neck. 16-1" FT holes on 15 BC.electric hoist, (Item No. 91)	As Is	\$3,000
Balzers BA-350 UV UHV System with 6 " D P & 2" DP on Foreline . No Main Valve? 14 " d x 20 " h sump & 14 " x 15 B.J. No controls Hyd Hoist & DVO-25 MP. Partly rebuilt w/ Manual! (Item No. 4544)	As Is	\$2,000
Comptech in-line sputtering system for 6" dia wafers, with robot elevator (missing) into load lock transport mech. 2 heat stations and four 5" x 12" sputtering targets, Turbovac 360 on load lock and 2 CTI-8 cryopumps on chambers. Each CTI-8 has a 6" VRC valve and a 90 deg. SST 2-stage valve. No comp., or MP. 2 G-P 280 ion gauges, MDX-5K sputtering P.S. and ERA HFP-8000, 500W RF control & matchbox - no RF P.S. 64" h x 92" w x 38" d. (Item No. 4731)	As Is	\$24,000
COMPTECH SST Five 141/2 x 18" Chamber In Line Sputtering system. 1 1/2Hx 143/4"W Loadlocks Four slit valves. Two Plasmatherm HFS-2500 RF power supplies w/ Comptech match boxes. GP-307 & 280 004 ion/TC gauge w/ (2) GP-275 pirani gauge. Varian VHS6 DP and L-H TMP-450 turbo & control. Temescal rotary cathode & ERA 20 KW P.S. (Item No. 183)	As Is	\$70,000
LLL. 6 " Vac Syst w/o Pumps 26 " OD x 6 " ID Alum BP w/ 6 " ASA Center Prst. 6 " ASA Manual Split valve w/ rough port. 16 ea 1 " holes in BP. Motor Hoist , No BJ on Gard. Back heater & Source powerstat pnls . Kronos @ QM331 DTM, FT & HD. W/ rate option . LEA 85-2807 20 ch status chassis. Circuit brkr. dist pnl. (Item No. 4545)	As Is	\$2,500
Perkin-Elmer 3400. Load-Lock In-Line 14" Sputtering. Pumps & parts missing. (Item No. 199)	As Is	\$4,500
Seagate custom inline sputtering systems, Designed to sputter coat 3.75" d hard drive magnetic disks, 2 CTI 8 cryo pumps, 1 Osaka 550 turbo, 2 Osaka 200 Turbo pumps on load locks. Ten 6.75" d target rotating magnet guns, 10 MDX 5kw magnetron PS in racks. 2 Edwards E2M40 MP, 8"x17"x9' chamber, Six two sided sputtering stations, substrate heat, G-P 303 ion gauge pneumatically operated, computer controlled user interface. System could be converted to other uses. (Item No. 4512)	As Is	\$55,000
Vacuum/Nitrogen Backfill Cart. Welch 1400 (.9 CFM) MP. 30 IN-0-30 PSI gauge, Reg. press tank & valves. (Item No. 207)	Good	\$750
LBL Homemade sputtering system w/US Gun, 14"dx15"hi SST sputtering ring w/l gaskets. 18" SST BP. Huntington 10" CFF Manul valve. 10" CFF top& 6"ASA bot. G.P. LN Trap. Varian VHS-6 DP. Some controls and 5CFM Precision MP, 49lx28Dx37H wooden caster frame.	As Is	\$4,950
Varian special plasma chamber. 30dx3/4 thick alum top and bot plates. 28"dx 10" hi SST ring w/L-gaskets and 2 ea. 6"CFF ports. No pumps, some controls. w/hoist. 28x 36x 36 hi caster cabinet	As Is	\$3,500
Denton Desk 1 table top sputtering for microscopic slides etc. 6" dia. X 3 1/2 H BJ. Etch & sputter sw. 50Ma.meter & timer w/ mech pump	As Is \$1,500	Rebuilt \$2,750
Denton carbon Accessory for above 0-50A PS	Good	POR
Techics Planar Etch II. 12"Dia x 4" H SST chamber that hinges off BP 1 1/2" VP. Vac gage, Temp ind & timer, controls missing from bottom.		POR
Varian MDP-1000 Inline sputtering system for 100 & 130 mm discs. 6 positions for, etch, heat, chrome, Colbalt , carbon & carbon. Disc turn around at end of chamber. 8 disc positioning valves, 6 gen VC2-21 MFCs. 16 Varian KF-40 valves. 7 Varian CS-8V Cryopumps w/band clamps & w/6" ASA flg. 115" Lg x 50" W x 72" H on casters. No side panels or MP. 4 Bay control console. Call for a more complete eqpt list		POR
121) VACUUM SYSTEMS-Thermal vac test.		
23 3/4" ID x 26 " lg SST 4 " Diff pumped space chamber . Full opening door w / STL Flags . 18 " ID x 24 " lg SST shroud. 4" ASA Pump port on bottom with water baffles & Varian M.4 D.P. No main valve or M.P. Ln - Heat exch. W / coolant pump . Vac map & some controls . 40 1/4 x 59 1/2 x 37 " hi Cabinet (74 " top) (Item No. 4546)	Good	\$9,500
6" Tenny 32" dia x 28" h SST BJ w/ spare test chamber. 6" Hi sump w/ 4" ports. Air/Hyd hoist CVC PMC-6B DP. Welch 1375 MP, Refrig comp for shrouds. tenny valve control. (Item No. 89)	As Is	\$14,500
BEMCO space chamber SST 30" id x 42" L + dished heads w/ stl flgs., Full opening door. 26 1/2 " id x 42"L SST coldshroud, w/ shelf 17 1/2 below top. 10" ASA ports on top & side, 3" ASA on rear. 10" ASA temescal main valve, 1 1/2" rough foreline valves. LN trap and CVC PMC-10 DP on bot., Welch 1402 holding pump, vac map & controls, -60 to 120 F Honeywell 10" circle recorder, 50" x 73" x 55 hi cabinet (Item No. 115)	As Is	\$13,000

Item	Condition	Price
NRC 44" ID x 6'1 SST water cooled space chamber, water baffle & 16" VRC SST Gate Valve. With shroud. 2 bay control console. Needs work. (Item No. 125)	As Is	\$16,500
122) <u>VACUUM SYSTEMS-Turbo pumped.</u>		
Balzers-turbo pumping stand, TPU-110 pump, TCP-270 controller, G-P 260016 ion gauge, manually operated valves, 14" SST baseplate, 5 ports no MP, 40" x 24" caster cart (Item No. 4502)	Good Used	\$6,500
Danielson Vector lock box VBL-12 AL. Turbo Pumped ALUM chamber. 18" H X 12" W X 13" D. LF-100 Port out back with L-H TMP-150 Turbo and NT 150/360 control. 6" wafer load lock. 9 ea 1" F.T. Holes. Varian 801 T.C gauge. (Item No. 185)	Excellent	\$7,500
Varian Turbo Cart Pumping Station. TV301-NAV, 969-8919 Turbo w/6" CFF and V301 Control. SH-100 Scroll Pump, ¾ HP, 115, 1 PH. KF-25 Alum 120V Valave. Multi Gage L8350-301 with MBA-100 Ion Gage and two 531 TC Tubes. 31"lg x 17"w x 30"hi Cart with Casters.	Excellent	\$9,850
123) <u>VALVES VACUUM ALUMINUM-Air operated.</u>		
1 1/2" NW-40 Varian L6281-303 rt. Angle air (Item No. 4776)	New	
1 1/2" NW-40 VAT F62-79289/0015 rt. Angle air, no sol. 3 pos. for soft pump down. (Item No. 4581)	Good Used	\$600
1 1/2" NW-40 VAT F62-73153-02 rt. Angle, no sol. (Item No. 4843)		
1 1/2" NW-40, L-H 281-23B2, SST Bellow, 90o, solenoid 115V 50/60 60Hz (Item No. 1547)	New	\$550
1 1/2" NW-40 VAT 46510-15 gate. 110V/60Hz. Sol. Air. (Item No. 1551)	Unused	\$325
1 1/2" NW-40 Varian 1243-L6281-303, rt. angle block valve, air oper., no sol. (Item No. 5063)	Used	\$200
1 1/2" NW-40 Varian 1291-L6126-301 SST Bellow; stem, seal disc, bellow out & O-R kit for H/O valves. (Item No. 5065)		
1 1/2" NW-40 HPS rt. angle ALUM Vacuum Sentry. 24VDC. (Item No. 2018)	New	\$275
1 1/4" x 8 3/4" slit VAT F02-68657-02, 2 3/4" thk, air 10-R, no sol. (Item No. 4705)	Unused	
1 1/4" x 8 3/4" slit VAT F02-57454-01, 2 3/4" thk, air 24 VDC w/Sol on/off 10-R (Item No. 4777)		
1 3/4" x 9 1/4" slit VAT F02-74897-02, 2 3/4" thk, air 2 O-R (Item No. 4791)	Unused	
1" NW-25 Varian 1243-L6281-302, rt. angle block valve, air oper., no sol. (Item No. 5064)	Used	\$185
10" ASA VRC Solid gate, Air, 120V solenoid, w/ No O-rings (Item No. 1692)	Rebuilt	\$1,850
10" CFF VAT 4082650 air 8" ID gate w/sol. (Item No. 4867)	Unused	\$2,450
10" CFF VAT F-10-48989-07 150 MM ID air, no sol. (Item No. 4629)		
10" NW-250 HVA 21211-1003R, 10" ID x 3 1/8" thk., air no sol. (Item No. 4800)		
2 1/2" NW-63. VAT F20-78311-06 Vatterfly. 2 3/4" ID x 5 1/8" OD x 1 1/4" thk., air w/24VDC sol., 4 bolts on 4 1/4" BC (Item No. 4665)		
2 1/2" NW-63 VAT F1Z-89844/0001 gate. 4 bolt flg., 4 5/16 B.C., 2 3/8" FF. Air, pos. ind., no sol. (Item No. 5123)		
2" ASA VRC split gate. 3 1/4 F-F. 2 OR 2 3/4" idx 0.19". 4ea 5/8-11 holes on 4.75"BC , Air (Item No. 1586)	Unused	\$400
2" ASA VRC, solid body gate valve, 3 3/8" id, 5 1/8" FF. 2 ea 3 5/8 x 1/8 Oring Air op (Item No. 1595)	Good	\$550
2" ASA VRC split gate. 6" OD x 2" id x 3 1/4 F-F. 2 OR 3.5 idx 0.19". 6ea 1/2-13 holes on 5"BC , Air (Item No. 1584)	Used	\$350
2" ASA VRC split gate., 2" small flg on seal side. 2" ASA opp. 2 OR Air (Item No. 1588)	Used	\$500
2" ASA, Temescal 2" Fig. 2532, 90o, 2 O-R, Air. (Item No. 1582)	Rebuilt	\$500
2" ASA, Temescal 2" Fig. 5130, solid gate, 2 O-R, Air. (Item No. 1577)	Rebuilt	\$475
2" ASA, Temescal 2" Fig. 5030, solid gate, 1 O-R, Air. (Item No. 1575)	Rebuilt	\$475
2" ASA, Temescal, split gate, 2 O-R, Air. (Item No. 1573)	Rebuilt	\$400
2" small flange, VRC, split gate, Air. 5 1/4 OD flange w/8 -1/4" bolts. (Item No. 1563)	Used	\$275
2" small flange, Temescal 2" STL-2", split gate, 2 O-R, air. (Item No. 1561)	Unused	\$325
2" small flange, CVC VCS-23A solid gate, CON-O-RING Air. (Item No. 1559)	Rebuilt	\$750
2" small flange, CVC VCS-23 solid gate, 1 O-R, Air. (Item No. 1557)	Rebuilt	\$650
3" ASA, 6 1/2" F-F, VRC, Solid gate, Air, 2 O-R. (Item No. 1615)	Unused	\$550

Item	Condition	Price
3" ASA, 6" F-F, VRC, split gate, Air, 2 O-R. (Item No. 1613)	Unused	\$550
3" ASA, Temescal 3" Fig. 5030 solid gate, 1 O-R oposite seal, air. (Item No. 1603)	Rebuilt	\$650
3" Spl. flange. VRC, split gate, Air, Viton. (Item No. 1607)	Unused	\$295
3/4"-Mini CFF, MDC 1V-075 M-P, viton seal, bellow air, metal/bonnet seal, no sol. (Item No. 4717)	Unused In Box	\$275
4" ASA CPA 7804, solid gate. 1 O-R seal side. Air. Bellow seal (Item No. 1623)	Unused	\$1,250
4" ASA CVC VCSP-43 A w/rough port, solid gate, CON-O-R, Air, w/sol. (Item No. 1625)	Rebuilt	\$900
4" ASA CVC VCSP-43, solid gate CON-O-R, Air with sol. (Item No. 1627)	Rebuilt	\$850
4" ASA Indust. Vac. Welded aluminum, 5" ID x 3 3/4" F-F, no O-R air, 120VAC (Item No. 4580)	Cleaned	\$600
4" ASA Temescal 4" Fig 2532, (0024-7371-0) 90o, 2 O-R, Air, 24VDC Sol. (Item No. 1647)	New	\$750
4" ASA Temescal 4" Fig 2532, 90o, 2 O-R, Air. 120 VAC sol(Item No. 1645)	Rebuilt	\$600
4" ASA Temescal 4" Fig. 5130 solid gate, 2 O-R, Air, 115 VAC. (Item No. 1641)	Rebuilt	\$750
4" ASA Temescal 4" Fig. 5030 solid gate, 1 O-R., opp seal side Air, 115 VAC. (Item No. 1639)	Rebuilt	\$750
4" ASA VRC, solid gate, air, 1 O-R on seal plate side and 2 O-R. Make choice. (Item No. 1651)	Rebuilt	\$650
4" ASA VRC , solid gate, 1 OR on 2" neck on seal plate side 6 1/8FF. 115V sol (Item No. 1649)	Rebuilt	\$650
4" ASA, NRC 1278-4, solid gate, 1 O-R oposite seal, air. (Item No. 1655)	Rebuilt	\$600
4" NW-100 VAT 08040-fA44 insertable gate. Air. Sol. (Item No. 1611)	Unused In Box	\$750
4" NW-100. VAT F20-77627-22 butterfly, 4" ID x 6 1/2" OD x 2 3/4" thk, air w/Sol, 3 bolts on 5 3/4" BC (Item No. 4633)		POR
6" ASA CPA-7806 Solid body gate. Bellow side operator. Air. 7 3/4" I.D 1 O-R on seal side. (Item No. 1659)	Rebuilt	\$1,500
6" ASA CVC # VCS-63A, Solid gate, Con-O-Ring, Air, 120VAC sole., 2" small flg., (Item No. 1663)		\$950
6" ASA CVC # VCS-63A, Solid Gate, Con-o-ring, air, 7 3/4 I.D 1 O-R on seal side.Rough port (Bottom), 3/4 " i.g port for D.P (Item No. 1664)	Rebuilt	\$1,300
6" ASA CVC VCS-63A, solid gate, con-O-R, air. (Item No. 1661)	Rebuilt	\$950
6" ASA Lesker Solid gate. # VRL 0610PV000 Air. 1 ORing on seal plate. (Item No. 1670)	Rebuilt	\$1,000
6" ASA VRC Solid gate. Air. 1 ORing on seal plate w/ 3/4 IG port (Item No. 1668)	Rebuilt	\$1,000
6" ASA VRC Solid gate. Air. 1 O-R on seal plate side, 120V sol. (Item No. 4904)	Very Good	\$1,000
6" ASA, Temescal, 6" Fig. 5030, Solid gate, 1 O-R opp.seal plate, Air, 120 VAC solenoid (Item No.1678)	New	\$1,500
6" ASA, Temescal, 6" Fig. 2530, 90o, 2 O-R, Air, 115 VAC. (Item No. 1676)	Rebuilt	\$900
6" ASA, VRC, solid body, air . roughing port, Varian 1299-K9939-336 (Item No. 1686)	Excellent	\$1,500
6" NW-160 VAT F-60089-18, rt. Angle, air oper., 24V sol. (Item No. 5062)	Fair	
6" small flange CEC STV6-1 split gate. 2 O-R, air. (Item No. 1657)	Rebuilt	\$600
8" ASA Temescal 8" Fig. 5130 split gate, 2 O-R, Air, 120 VAC soleroid. (Item No. 1690)	Rebuilt	\$1,800
8" Varian Q1089-307 8" ID x 8 5/8" OD air gate, 120V sol. (Item No. 4830)		
8"-10" CFF MDC GV-800M-P no sol., 8" ID (Item No. 4844)	Unused	\$2,250
HVA slit valve 1 3/4" x 9 1/2" #922-9109, w/air cyl. & 24VDC sol. (Item No. 4895)		
IS0-100 Flanges. VRC Solid gate. Air. 3 3/4 F-F (Item No. 1609)	Rebuilt	\$725
NW-160 VAT, F14-50253-02. (Item No. 5055)	Used	\$1,000
NW-50 VAT VE-50F 90 air, no sol. (Item No. 4772)	As Is	\$150
VAT NW-100 shaft sealed. (Item No. 5043)	New	\$850

Item	Condition	Price
124) VALVES VACUUM ALUMINUM-Manual.		
1" Kf-25 Edwards Diaphragm valve Maunual (Item No. 1545)	Unused	\$115
10" ASA, Temescal, split gate, 2 O-R, crank. (Item No. 1688)	Rebuilt	\$1,950
150MM Leybold 27501B4 Alum. Lever swing gate, 8 bolts on 200MM B.C. 130MM F-F. (Item No. 2022)	Unused	\$350
2" ASA, Stokes 2 ST-1B, split gate, 2 O-R, crank. (Item No. 1565)	Rebuilt	\$350
2" ASA, Temescal, split gate, 2 O-R. Crank (Item No. 1569)	Rebuilt	\$350
2" ASA, Temescal, solid gate, 2 O-R. Toggle. Figure 5120. (Item No. 1571)	Rebuilt	\$350
2" ASA, Temescal 2" Fig. 2520, rt. Angle O-R, toggle (Item No. 4910)	Used	\$400
2" ASA, Temescal, split gate, 2 O-R. Toggle. (Item No. 1567)	Rebuilt	\$350
2" small flange, CVC VST-22A split gate, 2 O-R, toggle lever. (Item No. 1555)	Used	\$250
2" small flange, CVC VCS-21 A solid gate, CON-O-R, crank. (Item No. 1553)	Used	\$400
3" ASA Temescal split gate. Cranks. (Item No. 1597)	Rebuilt	\$400
3" ASA, Temescal, 3" Fig. 5021 solid gate, 1 O-R opposite seal, lever. (Item No. 1599)	New	\$550
3" ASA, Temescal, 3" Fig. 5121 solid gate, 2 O-R, lever. (Item No. 1601)	Very Good	\$400
3" ASA, Temescal 3" Fig. 5710 solid gate, 1 O-R opposite seal, Crank w/ side rough port (Item No.1605)	Rebuilt	\$500
4" ASA CVC VCS-41B solid gate con O-R, crank 5 1/4" ID (Item No. 4887)		\$650
4" ASA CVC VCSP-41 A w/rough port, solid gate, CON-O-R, crank. (Item No. 1629)	Rebuilt	\$750
4" ASA CVS-42, solid gate, CON-O-R, Lever. (Item No. 1631)	Rebuilt	\$600
4" ASA Temescal 4" split gate, 2 O-R, Lever. (Item No. 1635)	Rebuilt	\$475
4" ASA Temescal Fig 5010 Solid Gate, 1 OR opp seal plate, Crank (Item No. 1637)	Rebuilt	\$650
4" ASA Temescal 4" split gate, 2 O-R, crank. (Item No. 1633)	Rebuilt	\$500
4" ASA Temescal 4" Fig. 5010 solid gate, 1 O-R, opp seal Crank. (Item No. 1643)	Rebuilt	\$650
4" small flange, VCR, Split gate, 4" I.D. 7 1/4" O.D. Six 5/16-18 bolts on 5 1/2" B.C. Lever. (Item No. 1619)	Rebuilt	\$450
4" small flange, Temescal, split gate, 1 O-R opposite seal. Built-in foreline & rough valve. Crank. (Item No. 1617)	Excellent	\$750
4" small flange, VCR, Split gate, 4" I.D. 7 1/4" O.D. Six 3/8-16 bolts on 5 1/4" B.C. Lever. 2 OR (Item No. 1621)	Rebuilt	\$450
6" ASA CVC w/rough port, solid gate, CON-O-R, crank. (Item No. 1666)	Rebuilt	\$1,000
6" ASA Temescal split gate. Crank, 1 or 2 O-R. (Item No. 1672)	Rebuilt	\$700
6" ASA Temescal split gate. Lever 2 O-R. (Item No. 1674)	Rebuilt	\$600
6" ASA, Temescal, 6" Fig. 5010. Solid gate. 1 O-R opposite seal, handwheel. (Item No. 1680)	Rebuilt	\$800
6" ASA, Temescal, 6" Fig. 5010. Solid gate. 1 O-R opposite seal plate w/ 5/16 throttle hole , handwheel. (Item No. 1682)	Rebuilt	\$800
125) VALVES VACUUM ALUMINUM-Misc.		
1 1/2" NW-40 VAT F (Item No. 5124)		\$0
1" NW-25 MKS vacuum sentry, POR. (Item No. 5045)	Cleaned	
1/2" NW-10 Leybold #855 48B2 Vent valve, 110V 60 Hz coil (Item No. 1537)	Unused	\$375
1/2" NW-25 Leybold #297-22-P1 90 valve, 110V 60 Hz coil (Item No. 1539)	Used	\$250
126) VALVES VACUUM BRASS-Air operated.		
1 1/2 FPT Temescal 1030 90o air 115 V Solenoid. (Item No. 1992)	Used	\$200
1 1/8 Temescal 90 deg Fig 1130 120V coil. (Item No. 1980)		\$200

Item	Condition	Price
1 1/8 Varian 1252 90o air #1252-85264-318. (Item No. 1990)	Unused	\$250
1 1/8" Temescal in-line fig. 1330 120V sol. #0724-8101-0 (Item No. 4835)	New	\$200
1 1/8" Varian 1254 in-line air, soft soldered (Item No. 4589)	Used	
1 5/8 Key Vac # BL 162 In Line air 120V sol. (Item No. 1994)	Unused	\$250
1 5/8 Temescal FIG 1130.90o air 115 V Sol (Item No. 1996)	New	\$375
1 5/8 Varian 1252 90o air W/NW-40 flg on side & 1 1/2 ASA on end. For VHS-6 DP. (Item No.2004)	New	\$375
1 5/8 Varian 1252 90o air W/NW-40 flg on side & 1 1/2 ASA on end. For VHS-6 DP. (Item No.2002)	Used	\$225
1 5/8 Varian 1252 90o air W/NW-40 flgs. 115 V sol. (Item No. 2000)	Used	\$220
1 5/8" Varian 1252 90 Air w/ NW-32 flgs. 120V sol (Item No. 1998)	Used	\$200
1/2" FPT Key BLP-50 in-line, air no sol., flat seal 3/8" FPT in bottom (Item No. 4864)	Unused	\$85
1/2" Temescal Fig. 1230 1/2" female pipe thread, air in-line 120V sol (Item No. 4869)	New	\$150
1/2" Temescal Fig 1030 1/2" Female pipe thread, Air (Item No. 1968)	New	\$150
1/2" Varian 1252-85262-308 90o Air. (Item No. 1966)	New	\$225
1/4" FPT key BAP-25 rt angle, air no sol., flat seal (Item No. 4855)	Unused	\$75
3/4" Varian 1252 90o Air #1252-852653-312 (Item No. 1976)	Unused	\$200
3/8" Temescal fig. 1130 rt angle air, 115V (Item No. 4617)	Unused	
127) VALVES VACUUM BRASS-Manual.		
1 1/8 Key BA-112-OR. 90o knob. O ring (Item No. 1984)	New	\$115
1 1/8 Varian 1253 180 deg knob #1253-85147-318. (Item No. 1988)	Unused	\$175
1 1/8" Key BA-112-KO rt. angle knob O-R NW-25 flg. (Item No. 4583)	Unused	\$300
1 1/8" Key BL-112-OR, in line, Knob, Oring (Item No. 1986)	Unused	\$125
1 1/8" Varian 1251, 90o knob. #1251-85266-318. (Item No. 1982)	Unused	\$175
1" Temescal rt angle fig. 1010 knob pipe thread (Item No. 4644)	Unused	
1" Veeco FR-100P 1" FPT 90 knob, flat seal (Item No. 1978)	Unused	\$75
1/2" CHA RA-35 rt angle knob, O-R (Item No. 4814)	Unused	
1/2" Temescal 1010 female pipe thread, knob (Item No. 4693)	Unused	
1/2" Veeco SL-50S, knob O-R in-line (Item No. 4721)	Unused	
1/2" Veeco SR-50-S rt angle knob O-R (Item No. 4916)	Unused	
3/4 Key BA-75-OR. 90o knob. (Item No. 1974)	New	\$95
3/4" CHA St-5, inline, knob, O-ring (Item No. 1972)	Unused	\$95
3/4" Veeco FR-62S rt. angle knob (Item No. 4734)	Unused	
5/8 Temescal Fig. 1110 90o Knob. (Item No. 1970)	New	\$95
128) VALVES VACUUM BRASS-Misc.		
1/2" CHA St-3S, inline, knob, O-ring (Item No. 1964)	Unused	\$75
3/8" TLI inline, knob, O-ring (Item No. 1962)	Good Used	\$40
3/8" Vaco A FO38 90, knob, O ring (Item No. 1960)	Good Used	\$25
Edwards LB1B SST needle valve, brass body & bellow, Viton sealed, 18 turns 100 div. Dial. (Item No 4722)	Used	\$80
New & Rebuilt brass bellows are available. (Item No. 2006)		
129) VALVES VACUUM STAINLESS-Air operated.		
1 " NW-25, Huntington # PV-100, in-line. 1" QC, air. (Item No. 5125)	Good	\$200
1 1/2" NW-40 Special bellow, 90 Air, 1/4 x 1" tube on side port. 1/2x 13/4" tube on bottom port. No spring/seal (Item No. 1787)	Unused	\$250

Item	Condition	Price
1 1/2 " NW-40, Norcal ESVP-1502-SPL, SST bellow, 90o air. Spring closed. No sol. (Item No. 1783)	Good Used	\$200
1 1/2 - 2 3/4 CFF, Varian 951-5010. Inconel bellow, 90o Air w/120V sol. Spring closed. Metal (Item No. 1795)	Used	\$425
1 1/2 - 2 3/4 CFF Huntington EVKM-150. SST bellow, 90o knob. Viton bonnet seal. (Item No.1800)	Good Used	\$200
1 1/2 - 2 3/4 CFF MDC IV-150M-P. SST bellow, 180o air. Metal bonnet seal. Spring closed. (Item No. 1806)	Good Used	\$300
1 1/2 - 2 3/4 CFF MDC AV-150M-SP. SST bellow, rt. angle manual, metal bonnet seal, side flg taped 1/4-28 (Item No. 4671)	New	\$250
1 1/2 - 2 3/4 CFF MDC AV-150M-P. SST bellow, 90o air. Metal bonnet seal. (Item No. 1804)	New	\$275
1 1/2 NW-40, Norcal ILVP-1502-NWB, SST bellow, 180o, spring closed. Air w/sol. (Item No. 1781)	Used	\$300
1 1/2 Temescal 2030 (0024-5771-1) SST bellow, 90o air, 24 VDC Sol. Viton bonnet seal (Item No.1756)	New	\$350
1 1/2" - 2 3/4 CFF, Norcal STVP-1502-CF, SST bellow, straight thru. Air w/120V sol. (Item No.1820)	Very Good	\$375
1 1/2" -2 3/4" CFF Varian 951-5090, air rt. Angle, bellow Viton, 120V sol. (Item No. 4906)	Good Used	\$300
1 1/2" -2 3/4" CFF Huntington PLS-160 SST inline-visual, bellow air metal bonnet seal, no sol. (Item No. 4709)		
1 1/2" -2 3/4" CFF MDC GV-1500 V-P bellow, gate, air, Viton seals, 24VDC sol., slight discolor (Item No. 4795)		
1 1/2" NW-40, Norcal ESVP-1502-NWB, 2.4" C.L. to F-F. Bellow 90o Air, viton spring closed. No sol. (Item No. 1785)	Good Used	\$200
1 1/2" NW-40, MDC KAV-150-P, SST bellow, rt. Angle knob air, no sol. (Item No. 4598)	Good Used	\$300
1 1/2" NW-40 VAT FO1-51867-06 Gate valve. Air, metal bonnet seal. (Item No. 1791)	As Is	\$400
1 1/2" NW-40 VAT 26332-KE21 cast SST, rt. Angle, air oper., pos. ind., no sol. (Item No. 5066)	New In Box	
1 1/2" NW-40 Varian # 851-5090 Air, 90 deg bellow, No solenoid (Item No. 1789)	Used	\$200
1 1/2" NW-40 HPS/MKS # 162-0040K, Inline, Bellow, Air, No solenoid (Item No. 1779)	Good Used	\$225
1 1/2" NW-40, HPS 153-0040K, SST Bellow, 90o air w/24 VDC sol. Spring closed. (Item No. 1777)	Used	\$250
1 1/2" NW-40, GNB AN40-PSBX, SST Bellow 90o air, no sol. (Item No. 1773)	Fair	\$325
1 1/2" NW-40 GNB # 401-S0PX SST O-Ring seal, Air, Pos. indicator, no sole (Item No. 1771)	Used	\$250
1 1/2" NW-40, L-H 281-93BI, SST Bellow, 90o, solenoid. 220V 50/60Hz (Item No. 1549)	Used	\$400
1 1/2" temescal 2030 SST Bellow 90 Deg air, 120VAC sole, 1 1/2" tri-Clover flg. and 1/2" R/L on 6" long tube. (Item No. 1758)	Unused	\$300
1 1/2"-2 3/4 CFF VAT F-0104 9676-02 gate valve. Air Sol. (Item No. 1816)	New	\$750
1 1/2"-2 3/4" CFF Temescal 1630 GV gate (HVA) air 120V sol. (Item No. 4771)	Good	
1 1/2"-2 3/4 CFF VAT F-OI04 9676-02 gate valve, air,sol. (Item No. 1818)	Used	\$600
1 1/2"-NW-40, NorCal # ESVP-1502-NWB. Bellow, 90deg, Spring closed, 24V Sol (Item No. 1767)	New	\$240
1 1/2"-NW-40 MDC KIV-150-P-opt-02 Inline, air oper., 120V sol. Pos. ind. (Item No. 5046)	New	\$400
1 1/2-2 3/4 CFF TORR SVB-1.52VA. SST bellow, gate. Viton bonnet seal. Air w/120V Sol. (Item No. 1802)	Very Good	\$500
1 1/2-NW-40F, Norcal ESVP-1502-NW. Bellow, 90o air. Viton, spring closed. (Item No. 1769)	New	\$240
1 1/8 Temescal 2130 (0824-0561-0) SST bellow, Inline air. 120VAC Sol. Viton bonnet seal. (Item No 1752)	New	\$345
1 1/8 Temescal 2030 (0024-5521-1) SST bellow, 90o air. 24 VDC Sol. Viton bonnet seal (Item No. 1750)	New	\$285

Item	Condition	Price
1 3/4" x 9 1/2" HVA slit valve 922-9109. Air cyl. & 24V sol. (Item No. 5130)		
1" - 2 3/4" CFF MDC IV-100P-S air spring closed, no sol. In-line (Item No. 4619)		\$200
1" NW-25 MDC KAV-100-P, air bellow, no sol. (Item No. 4827)	Good Used	\$200
1" NW-25 Norcal 3870-01161, 90o Air bellow. No sol. (Item No. 1740)	Good Used	\$200
1" NW-25 Norcal 05-8218300, In-line, Air bellow. 1" CAJON QC. (Item No. 1742)	Good Used	\$200
1" x 10 3/8" VAT slit valve 3 3/8" thk, air, w/o sol, w/pos. ind., POR. (Item No. 4593)	Good	
1" x 20" VAT Slit valve # 0200X-ZE24-1009 Made in 1995, 2 7/8 FF Air, pos. indicator, 2 OR w/ bolt threads inside OR. Special for Varian (Item No. 1950)	Unused	\$6,500
1"-2 1/8" CFF, MDC IV-100-M, In-line, viton seal, bellow air spring closed, viton seals. (Item No.4739)	Very Good	\$275
1"-2 3/4" CFF, Huntington # PV-100, 2 1/8" CFF Side port, 90 deg Air (Item No. 1746)	Used	\$150
1.328" ID -2 3/4" OD CAJON flg., Nupro 304-24VFBG butterfly valve, knob 1" thk. Bellow sealed stem. (Item No. 5132)	Good	\$175
1/2" -NW10B, NORCAL ESVP-0502-NWB, Bellows 90o air. Viton, spring closed. (Item No. 1710)	New	\$225
10 1/4" ID, NW-250 bolted. 13.18" OD, VATF31152-02 gate valve. bellow, air 24VDC sol. (Item No. 5128)	Unused	\$3,000
10" ASA MDC GV-12,000V-ASA-P. 11 1/2" ID, 4" F-F., No O-R, air oper. (Item No. 5053)	Good Used	\$3,500
10" ASA TORR 5V B-102-12A		
10" ASA, CVC VCS-103. 12" ID. gate. 5" F-F. O-R sealed shaft. CON-O-R. Air. (Item No. 1940)	Good Used	\$1,750
10" CFF HVA # 126-0800. Air, No Sol., Pos. Sws. (Item No. 1934)	Rebuilt	\$2,150
10" CFF MDC GV-8000M-P air (Item No. 4836)	Unused	\$2,500
10" CFF VAT 4082650, 8" ID gate, air, w/sol. (Item No. 5127)	Unused	\$2,450
10" CFF VAT Air. No sol. 8" ID gate. (Item No. 1936)	Rebuilt	\$2,150
10" CFF VAT F10-48989-07. 150 MM ID. Air, No sol. (Item No. 4565)		
10" NW-250 VAT F14-50253-01, bolted SST gate air w/pos. ind., w/o sol., rack and pinion gear. (Item No. 4618)	Good	\$2,500
10" NW-250, HVA model # 21211-1003R. Bolted SST gate, air, No sol. 10" ID, 3 1/8" F-F. (Item No. 5051)	As Is	\$2,500
10"ASA Millane. 10" ID, 5 3/4" F-F, Bellow sealed, Air, Position indicator switches. (Item No.1938)	Good Used	\$2,100
12 1/2" ID, NW-320 bolted. 17" OD, VAT. Bellow, Air. Gate Valve. (Item No. 1948)	Rebuilt	\$3,000
12" NW-250. HVA 21211-1003R gate, air oper. 13.18" OD x 9.87" ID flg., 12 tap holes on 12.18" BC., POR. (Item No. 5056)	Used	
2 1/2" x 10 7/16" VAT slit valve 0260X-ZE24-X 3.37" thk., air w/o sol, w/pos. ind. (Item No. 4840)	Good Used	\$5,000
2 3/4"-5.06 od Flg Edwards #QSB-63 Butterfly, Rotary air, (4) 3/8 bolt welded in holes (Item No.1857)	Unused	\$300
2" - 3 3/8 CFF MDC IV-200M-P Inline, bellow, metal bonnet seal. No sol. (Item No. 1853)	Unused	\$450
2" ASA GNB # G2PSOP Gate, Air 120V Sol, 3 3/8" FF. 1 OR opp seal plate. Open beveled, pos switch (Item No. 1836)	Good Used	\$550
2" ASA GNB G3 PSO, O-R stem. 1 O-R, Solid gate. Air w/sol. (Item No. 1845)	Good	\$550
2" ASA HVA 11212-9259 gate bellow, Viton, air, 2 1/2" id, 2 3/8" F-F, 2 O-R, no sol., 4 ea. 3/8-16 on 4 3/4" BC (Item No. 4730)		\$750

Item	Condition	Price
2" ASA HVA 122-0251 gate bellow, Viton, Air, 2 1/2" id, 2 3/8FF. No ORing o sol. 4 ea 3/8-16 on 4 3/4 B.C. (Item No. 1849)	Good Used	\$750
2" ASA MDC GV-3000V-ASAP, air 120V sol., 3" ID, 2" thk (Item No. 4743)	Good Used	\$850
2" ASA Varian 951-5204 Gate, bellow, Air w/sol. 120V (Item No. 1847)	Unused	\$800
2" NW-50 Huntington # GVAP-200-V-SF-Mod. Gate, Air, 24V solenoid (Item No. 1834)	Good Used	\$700
2" NW-50 HVA 122-0203 gate, air no sol., needs repair (Item No. 4678)		
2" NW-50 Innotec(Torr Vac) # SVB-22A-Nw50. Gate, Air, Bad Flg on seal side (Item No. 1826)	As Is	\$350
2" NW-50, Norcal 3870-01162, welded bellow 90o Air, viton. No spring or sol. (Item No. 1832)	Unused	\$300
2" NW-50, Norcal ESVP-2002-NW, 4" C.L. to F-F. Bellow 90o Air, viton spring closed. No sol. (Item No. 1830)	Good Used	\$275
2" NW-50, Norcal ESVP-2002-NWB, 3.4" C.L. to F-F. Bellow 90o Air, viton spring closed. No sol. (Item No. 1828)	Good Used	\$275
2" NW-50, TORR SVB-22A-NW50, gate, air w/sol. (Item No. 1838)	Rebuilt	\$900
2"ASA GNB G2PSOP gate, Air 120V solenoid, 3 3/8"FF, 1 OR opp seal plate 2 5/8" id x 3/16thk position ind. (Item No. 1842)	Very Good	\$500
3" ASA HVA bellow 2 O-R gate, air, no sol. 3/8"-16 tapped holes (Item No. 4781)		
3" ASA, GNB A-3-PSO, O-R stem, 2 O-R, 90o, air w/sol. (Item No. 1867)	Good Used	\$500
3" NW-80 90 deg air 24V sole, Mfg Unk (Item No. 1861)	Unused	\$525
3" NW-80 (5.71 od Bolted) Huntington # GVAP-300V-Mod, HVA Gate, Air, no solenoid, w/ pos. indicator (Item No. 1865)	Good Used	\$750
3" NW-80 (4.33 od Clamped) Edwards HVA# 122-0306 Gate, Air, no solenoid, w/ pos. indicator (Item No. 1863)	Unused	\$1,000
3/4" NW-16, HPS In line, Green Teflon coated, Air, no Solenoid (Item No. 1722)	Dirty	\$100
3/4" mini CFF, VAT Rt. angle, Air 220V sol. (Item No. 1732)	Good Used	\$200
3/4" mini CFF, MDC IV-075M-P in-line, viton seal, bellow, air, No sol., metal bonnet seal. (Item No. 5129)	Unused	\$275
3/4"-Mini CFF, MDC AV-075MP, Rt angle, viton seal, bellow air. Metal bonnet seal. W/solenoid (Item No. 1726)	Unused	\$250
3/4"-NW16F, Huntington PV-075-SK. Bellow, 90o air. Viton, spring closed. 115V Sol. (Item No. 1720)	New	\$225
3/8" Key PCA-37 SST bellow, 900 Air 120V/60 sol. (Item No. 1706)	New	\$175
4" ASA - 3/8 bolts, GNB G4PSOX, 2 O-R, gate, air no sol. 5 1/4" ID. (Item No. 1873)	Fair	\$700
4" ASA GNB, 1 O-R solid gate. Air. 5 1/4 I.D. O-R on carriage side. O-R sealed stem. (Item No. 1875)	Fair	\$650
4" ASA Jamesbury, ball valve 4" 5150-31-6600 MT, 316 SST 275 PSI@100 F, air cyl., ST200B, pos. ind., no O-R gasket face (Item No. 4804)	Unused	
4" NW-100 HVA 122-0403. Gate, Aair. No sol. (Item No. 1869)	Rebuilt	\$1,100
4" NW-100 HPS 90 air. No sol. (Item No. 1871)	Rebuilt	\$600
4" NW-100 VAT, F-60021-37. (Item No. 5054)	Used	\$750
5/8 " TLI # L-625-P SST bellow, Inline, Air, 115VAC Sole, Viton Seal (Item No. 1718)	Unused	\$250
5/8" Temescal 2030 (0024-5271-2) SST bellow,90o air. 24VDC Sol. Viton bonnet seal (Item No. 1716)	New	\$215
6" ASA VAT F14-53903-04 (#14046-TE44) 7 7/8" ID , 3 1/8" FF. No ORing (Item No. 1926)	Unused	\$2,150
6" - 8" CFF HVA. Bellow, metal bonet, air, no sol. (Item No. 1891)	Rebuilt	\$1,600
6" ASA HVA 101-8000 ASA. 8" ID bellow, gate, Air. 1 O-R opposite seal side. (Item No. 1919)	Rebuilt	\$1,600
6" ASA, GNB, 1 O-R, gate, air. (Item No. 1907)		\$1,200
6" ASA, GNB A6PSO, O-R stem, 2 O-R, rt. angle air, 7.8" ID. (Item No. 1905)	Good Used	\$1,750

Item	Condition	Price
6" ASA, HVA 101-6000 ASA. 6" ID, bellow, gate. 1 O-R on seal side. Air w/sol. (Item No. 1911)	Rebuilt	\$1,250
6" ASA, HVA 121-0601, 6" ID, bellow, gate. 6 1/4" ID O-R opp seal plate. Air no sol. (Item No. 1913)	Unused	\$1,875
6" ASA, HVA 122-0600, 6" ID, bellow, gate. 6 1/4" ID O-R on seal plate. Air no sol. (Item No. 1915)	Rebuilt	\$1,375
6" ASA, TORR SVB-82A (special). 11" OD X 8" ID FLGS 2 3/4" F-F, 8 ea 3/8-16 holes on 9 1/2 B.C.Bellow, gate, 2 O-R. Air w/sol. Temescal 1/5/8 roughing valve on seal side, air. (Item No. 1921)	Rebuilt	\$2,250
6" ASA, Veeco (for VE-776) air. Butterfly. (Item No. 1903)		\$375
6" NW-160 VAT F14-50253-02 bolted SST gate air w/pos. ind., w/o sol., rack and pinion gear (Item No. 4682)	Used	\$1,000
6" P-E Hi-Vac valve for P-E4410 sputtering system (Item No. 1930)	Unused	\$3,500
6" x 14 1/2" HVA Slit valve # 422-9614 3 7/8 FF Air & pos indicator, 2 OR w/ bolt thread inward.Special for Varian (List price 12,270) (Item No. 1953)	Unused	\$7,500
6"-* CFF Varian 951-5219 gate, bellow, air/ 120V sol. Viton seals Rebuilt (Item No. 1889)	Rebuilt	\$1,300
64 x 265 MM (2 1/2 " x 10 7/16") VAT slit valve , Dbl. actuator, w/o sol valve, w/pos. ind., code 0260X-ZE24-X, per dwg. 84494, Fabr Nr F02-83316/1, mfg 8-95, as is cost \$2,500. (Item No. 4684)	New In Box	\$5,000
6" ASA, TORR SVB-62-8A, 7 3/4 ID, 3 1/4 FF. 8 ea 5/8 -11 holes, bellow, gate. 1 O-R opp gate. KF -40 rough port opp o-r. 3/4 QC. No sol.	As Is	\$2,500
64 x 265 MM (2 1/2 " x 10 7/16") VAT slit valve, F-41970-16, rack and pinion gear, w/o sol valve, O-R on operator side (Item No. 4643)	As Is	\$2,500
8" NW-200 VAT 13.19" OD bolted series 14 SST gate w/2 Pos. air, rack & pinion. As is \$1250. VAT position indicators are available. (Item No. 5158)	Rebuilt	\$1,950
8" NW-200 VAT, F41970-21. (Item No. 5057)	Used	\$1,500
8" NW-200 VAT 13.19" OD bolted series 64 SST gate w/3 Pos. air, rack & pinion. As is \$1750. VAT position indicators are available. (Item No. 5159)	Rebuilt	\$3,000
8" Varian Q1089-307 gate. 8" ID x 8 5/8" OD, 120V sol. (Item No. 5126)		\$0
8"ASA HVA 422-9110(Varian) 1 x 10" rect SST, bellow, air. 2 OR (Item No. 2026)	Good Used	
Edwards NW-400 SST poppet valve for FLC-700 coater. (Item No. 101)	Unused	\$3,000
Perkins-Elmer 500-585-400 bellow & air cylinder for 1 1/2" SST Valves. (Item No. 1763)	New	\$275
VAT 6" conflat rt. angle UHV air operated valve, model #F26-90364/2. (Item No. 5036)	Unused In Box	\$1,500
VAT NW-100 gate. SST bellows seal air operated, model #10840-PE24-0004. (Item No. 5035)	Unused In Box	\$1,500
VAT NW-100 gate air operated shaft seal, model #F1410510215. (Item No. 5037)	Used	\$1,000
VAT NW-250 bellows sealed. (Item No. 5052)	Like New	\$3,000
ISO-500 Balzers TR angle valve. 21 5/8 OD claw clamp flgs. ISO-100 rough port and one KF-10 and 2 KF-40 ports. From BAK-760 bot.	Good	\$5,000

130) VALVES VACUUM STAINLESS-Manual.

1 1/2 - 2 3/4 CFF, Varian 951-5027 Rt. Angle bakeable. 1/2 SQ drive & crank. (Item No. 1810)	Good Used	\$475
1 1/2 - 2 3/4 CFF VAT F01-60346-152. SST bellow, Gate, knob. Viton seals. (Item No. 1814)	Like New	\$550
1 1/2 - 2 3/4 CFF MDC GV-1500 V SST bellow, Gate, knob. Viton seals. (Item No. 1812)	Rebuilt	\$425
1 1/2 - 2 3/4 CFF, Varian 951-5017 Rt. Angle bakeable. 1/2 SQ drive & crank. (Item No. 1808)	New	\$500
1 1/2 - 2 3/4 CVF Ultek 252-1510 SST bellow, 90o knob. Viton seals. (Item No. 1761)	New	\$285
1 1/2 - 2 3/4 CFF, Varian 951-5091. SST bellow, 90o knob. Viton bonnet seal. (Item No. 1798)	Like New	\$300
1 1/2 - 2 3/4 CFF, Norcal ESV-1502-CF, SST bellow, 90o knob. Viton sealed. (Item No. 1793)	New	\$285
1 1/2" - 2 3/4 CFF, VAT , SST bellow, straight thru. Manual (Item No. 1824)	Unused	\$450
1 1/2" - 2 3/4 CFF,MDC GV-1500M-SP, SST bellow, Manual gate w/ pos. ind.. (Item No. 1822)	Very Good	\$600
1 1/2" - NW-40 , MDC # KAV-150 , SST Bellow, 90 deg knob (Item No. 1775)	Good Used	\$275
1 1/2" -2 3/4" CFF MDC AV-150M, SST bellow rt. Angle knob, metal bonnet seal. (Item No. 4912)		\$295
1 1/2" -2 3/4" CFF MDC AV-150M-1042, SST bellow rt. Angle knob, metal bonnet seal, tapped side port CFF (Item No. 4590)	Unused	\$295

Item	Condition	Price
1 1/2" -2 3/4" CFF Huntington EV-150 SST bellow rt. Angle knob, Viton seal (Item No. 4648)		
1 1/2" -2 3/4" CFF, SST bellow, knob, gate, metal bonnet seal (Item No. 4637)	Good Used	\$400
1 1/2" -2 3/4" CFF Varian 951-5072, SST bellow rt. Angle, knob, Viton seal (Item No. 4652)		\$250
1 1/2" -2 3/4" & 4 1/2" (on bottom) CFF Huntington MS-150 SPL. st. thru all metal bakeable 2-1/4" VCR fittings (Item No. 4857)	Good	\$800
1 1/2" -2 3/4" CFF Huntington, MS-150 ST thru bakeable 3/4" hex dr. (Item No. 4930)		
1 1/2" Huntington E_-153 SST Bellow, 90 knob, Viton bonnet seal (Item No. 1765)	Very Good	\$200
1 1/2"-2 3/4" CFF gate, red knob (Item No. 4894)	Good Used	
1 1/4" ID x 2 3/4" CFF x 1 3/8" thk. Hunt BFC-275 butterfly valve, knob (Item No. 4917)	Good	
1" - 2 3/4 CFF G.P. 204 Gold seal bakeable . 90o crank. (Item No. 1748)	Used	\$375
1" -2 3/4" CFF Vac. Gen. CSD-25 inline-visual, bakeable (Item No. 4611)	Unused	
1" -2 3/4" CVF Ultek rt. Angle Viton knob (Item No. 4605)		\$125
1" -2 3/4" CFF bellow gate knob, block type w/removeable flgs. (Item No. 4662)	As Is	\$100
1" NW-25 HPS/MKS Inline, Bellow, Knob (Item No. 1738)	New	\$180
1" NW-25 HVA 161-0103-2, 90o knob bellow. (Item No. 1736)		\$175
1" NW-25 Huntington # EV-100-SF , 90 knob, Bellow (Item No. 1734)	Used	\$160
1" TLI knob, rt. Angle, 1" Varian QC, 1" A&N QC needs nuts (Item No. 4733)	Good	\$200
1"-2 1/8" CFF, MDC IV-100-M, In-line, viton seal, bellow knob. Metal bonnet seal. (Item No. 1744)	Used	\$250
1.328" -2 3/4" OD CAJON flgs., Nupro 304-24VFO butterfly valve, knob 1" thk. O-R sealed stem. (Item No. 4796)	Good Used	\$125
1/2" - 2 3/4" CFF G-P "C" valves, bake, wrench. (Item No. 1712)	Used	\$150
1/2" G-P series 202 low torque valve. Metal sealed. (Item No. 1714)	Unused	\$350
2 1/2 - 4 1/2 CFF, Varian 951-5032 Rt. angle bakeable. 1/2" SQ drive. (Item No. 1859)	Good Used	\$1,295
2 1/2 -4 1/2 Step seal, Varian, Viton, bellow, 90o, knob. (Item No. 1855)	Good Used	\$300
2 1/8"-4 1/2" CFF Varian 951-5081 (TL1) gate, bellow, Viton bonnet & seat seal KNOB (Item No. 4841)	Dirty	
2" - 3 3/8 CVF, Ultek, Viton, SST bellow, 90o, knob. (Item No. 1851)	Used	\$275
2" NW-50 Worcester #466 RV SWO, # 316SSt, Ball valve. (Item No. 1840)	Good Used	\$250
2" NW-50 Worcester A743-CF8M, ball valve, 10" F-F (Item No. 4763)		
3" ASA VAT series 10 manual gate, no O-R, 4 ea 3/8-16" on 6" BC, 4" ID, 2 3/4" F-F, metal bonnet seal (Item No. 4727)	Used	\$995
3/4" mini CFF, Varian 951-5014 Rt. angle bakeable. 1/4 SQ drive. (Item No. 1730)	Used	\$325
3/4" NW-16 NOR-CAL bellow rt. angle knob (Item No. 4812)	Very Good	
3/4"-Mini CFF, MDC AV-075M, Rt angle, viton seal, bellow knob. Metal bonnet seal. (Item No. 1724)	Good Used	\$200
3/4"-Mini CFF, MDC IV-075M, In-line, viton seal, bellow knob. Metal \bonnet seal. (Item No. 1728)	Used	\$225
3/8" Varian #951-5099, 90 manual. VCO fittings, Elastomer seals (Item No. 1708)	New	\$240
4" ASA TL1 G-4000-H. Manual gate. 5.25" ID, 2.87 F-F., No O-R, Viton seals. (Item No. 5058)	Rebuilt	\$1,100
4" ASAVarian 951-5027 Swing gate, Manual (Item No. 1877)	Rebuilt	\$1,200
4" Spl. step seal flange. SST formed bellow, 90o hand wheel. (Item No. 1879)	Fair	\$375
6" - 8" CVF Ultek 40-406, SST bellow, gate, crank. (Item No. 1883)	Rebuilt	\$1,500
6" - 8" CFF G-P 62400 Rt angle bakeable bellow. All metal seals. (Item No. 1881)	Old but Excellent	\$2,250
6" - 8" CFF Whittaker SMT-42 gate, Crank. 8" CFF welded on old step seal flgs. (Item No. 1885)		\$1,150
6" ASA Edwards QV-6 Manual butterfly 6" id x 1 5/8" thk. One 7 1/4 id x 1/4 OR (Item No. 1899)	Used	\$600

Item	Condition	Price
6" ASA HVA 101-8000 ASA. 8" Id. bellow. gate, crank. 1 O-Ring on seal side (Item No. 1917)	Rebuilt	\$1,600
6"-8" CFF HVA Bellow, O-Ring, Bonnett, Crank, Viton Seals (Item No. 1887)	Used	\$1,250
6"ASA Edwards QV6 manual butterfly 1 5/8 thk, 6" id. One 7 1/2 id x 1/4 OR (Item No. 1901)	Used	\$600
6"ASA VAT F-37699-06, 5 7/8 i.d., 4" FF. 2 O-rings 7 1/2" id x 1/8. Side Lever (Item No. 1924)	Very Good	\$1,750
GP 8" CFF Mod 265-02 Manual swing gate valve Gold sealed. No Controller (Item No. 1932)	As Is	\$750
131) VALVES VACUUM STAINLESS-Misc.		
6 " ASA butterfly throttle valve 6" ID, 6 3/4" lg., SST 1 O-R Slo-syn motor, POR (Item No. 4685)	Used	
MRC micrometer valve on 2 3/4" flg., w/6 #10 holes manual (Item No. 4760)		\$150
NW-25 Edwards B517-02-930 cryopump nitrogen purge accessory PA-10 w/ tube 220V 50 Hz sol. (Item No. 1403)	Unused	\$250
NW-25 Edwards B517-01-988 cryopump nitrogen purge accesory PA-10 w/tube 110V 50 Hz 8W sol. (Item No. 1401)	Unused	\$250
Temescal D203-8304-0 main gate air actuator, 1/2" Ferrofluidic, A2106 51A103165, w/skinner V935L x 18C 120V sol and position sws. (Item No. 4683)	Unused	\$1,950
132) VALVES VACUUM THROTTLING & CONTROLLERS.		
3" ASA Vacuum General MDVX-030 SST teflon coated butterfly control valve. (Item No. 1409)	Very Good	\$600
6" ASA VAT F14-53903-04 (#14046-TE44) 7 7/8" ID , 3 1/8" FF. No Oring, motor driven. (Item No. 1928)	Unused	\$2,000
6" ASA Vacuum General MDVX-060 SST Butterfly control valve. 6" I.D. x 1" thk. Teflon (Item No. 1418)	Very Good	\$1,250
6" ASA, GNB G6ESO. 1 O-R, motor op. 7" ID, gate can be throttled. (Item No. 1909)	Used	\$1,500
10" throttling SST poppet. You can adjust nuts on top of cylinder to set stroke for intermediate positions. 10" ASA bottom flg. Tap 3/4-10 . No o-ring. 400mm side port- no o-ring. 121/2 ID 15.75 OD 12 holes. .59 ID on 14.567 BC. J15 flg valve made in Japan.	As-Is	\$1,500
Alcatel/Comptech VQ-4-ASA-U-PA 4"ASA Alum radial throttle valve (Item No. 2031)	Used	\$1,500
Alcatel/Comptech VQ-10-ASA-U-PA VARI-Q 10" ASA Aluminum radial throttle valve , W/servo drive motor. (Item No. 2037)	Used	\$1,800
Alcatel/Comptech VQ-10-ASA-U-PA VARI-Q 10" ASA Aluminum radial throttle valve , micrometer stop with 24vdc sol. Not coated (Item No. 2036)	Used Needs Rebuild	\$1,200
Meivac (ALC-Comp) CVQ-250-ISO-U-SM Vari-Q ISO-250 Alum radial vane throttle valve-NOT Coated. Vane isolation for cryopumps. w/ MKS 153E servo drive	Unused	POR
MKS 253A-6-6-2 6" ASA (149 MM) SST butterfly valve. (Item No. 1456)	Used	\$1,200
MKS 170M-44A Baratron valve control (Item No. 4793)		
MKS 170M-6C Baratron range multiplier (Item No. 4922)		
MKS 180-44-A2 Baratron valve control (Item No. 4596)		
MKS 250 C-1-D Valve Controller Black panel mounting (Item No. 1430)		\$1,100
MKS 250B valve controller (Item No. 1474)	Good Used	\$550
MKS 250B-1-A valve controller, black panel mounting. 1 set pt analog (Item No. 4842) \$650		Good
MKS 250B-1-D Press/Flow valve controller, blue case tabletop. 1 set pt digital (Item No. 4829) \$800		Good
MKS 250Sp Press/Flow valve controller blue case tabletop (Item No. 1428)	As Is	\$250
MKS 250B-1-D SP 202-83 Press/flow valve controller. 1 set pt. Digital	HSD Tested	\$950
GP 216020-1 Servo valve control	Good	\$750
GP 216049 #7737 valve w/ 1.33 CFF & style 04 tubes.	New	\$800
VAT Pm-5 Adaptive Pressure control for series 64 valves	Good	\$1,500

Item	Condition	Price
MKS 252 D-PO throttle valve control	Good	\$700
MKS 252 A-1 Exhaust valve controller Black panel mounting (Item No. 1432)	Used	\$900
MKS 252C-1 Valve controller, Black panel mounting (Item No. 1434)	Unused	\$900
MKS 252C-1-VPO Valve controller, Black panel mounting (Item No. 1436)	Unused	\$1,250
MKS 253-2 2" ASA SST butterfly valve. 2 SCCM. (Item No. 1440)	Used	
MKS 653B-4-6CF-2, 6" CFF throttling valve (Item No. 4902)	Used	
MKS-253A-1-40-2-S- 021-84, 32.3 mm, Servo butterfly (Item No. 1448)	Unused	\$750
MKS-253A-1-40-2 , NW 40 SST, 33.7 mm,Servo Butterfly valve (Item No. 1450)	Good Used	\$700
MKS-253A-20-40-1 , NW 40 SST, 20 mm,Servo Butterfly valve (Item No. 1452)	Unused	\$750
MKS-253A-2-50-26P89-84, NW50, SST, 50mm, servo butterfly valve (Item No. 1454)	Needs Repair	\$600
MKS-253A-3-2-2 (77mm) 2" ASA Operator missing (Item No. 1444)	Unused	\$600
MKS-253A-4-100-1S-073-90 (100 mm) dirty needs repair NW-100 (Item No. 1446)	Used	\$600
MKS-253A-6-160-2 NW-160. 8 bolts on 7.87BC SST Butterfly valve. (Item No. 1442)	Unused	\$1,050
MKS-653B-4-6CF-2. 6" CFF throttle valve, motor op. w/pos. ind. (Item No. 5059)	As Is	\$600
NW-50 Vacuum General MDVX-018 SST teflon coated butterfly valve. (Item No. 1407)	Very Good	\$500
Plasma-Therm PVC-3 (Vacuum General 78-2S03) Throttle Valve Control. (Item No. 1397)	As Is	\$250
Universal flow controls # WB30GM-10-1NU-15D 0-30 gpm 1 1/4ft bronze (Item No. 1488)	Used	\$150
Vacuum General 80-2 Valve controller. (Item No. 1500)	As Is	\$650
Vacuum General 79-3 Piezo electric Valve. 2 1/2 x 3 x 4 w/ BNC conn. (Item No. 1498)	As Is	\$275
Vacuum Gneral MDV-018 SST Servo Butterfly Valve NW 50 (Item No. 1502)	Unused	\$750
133) VALVES VACUUM VARIABLE LEAK.		
Alcatel 85815 (7270) NW-40 SST Butterfly Gross leak valve. (Item No. 2906)	Good	\$300
G-P Series 203 Variable Leak Valve #203019. 1/4" 304 SST tube, bend style O2. (Item No. 2010)	Unused	\$650
Inficon Quadrex 200 IPC-2 manual pressure conversion valve with 10 millitonrr orifice, Bakeout . muff and Quad Tee with 2 3/4 & 4 1/2 CFF. (Item No. 2986)	Used	\$1,350
LH/Inficon IPC-2 pressure conversion valve. 2 3/4 CFF Manual. 150 millitorr. (Item No. 2988)	Good	\$1,250
NW-10 L-H 283-37B2 Alum Leak valve. 1 X 10-4 - 100 Torr L/S. W/shutoff 250 (Item No. 2016)		\$25
Vac. Gen. 77-1 Piezo valve control. (Item No. 1390)	Used	\$375
Vacuum General 77-10M Piezo electric Valve. BNC conn. (Item No. 1496)	Used	\$275
Varian 951-5100 SST bakeable leak valve w/2 3/4 CFF. 1/4" 37o flare inlet. (Item No. 2020)	Rebuilt	\$700
134) VALVES VACUUM-Misc.		
8" ASA CVC Right angle steel poppet valve. Air. (Item No. 2024)	Rebuilt	\$1,250
10" ASA #217-24 90deg valve w/6" rough port steel. O-R on sideport. Stokes 217-24 steel O-ring on sideport	As Is	\$1,500
Stokes 16" ASA #900-217-1 90deg. valve, 6"ASA rough port. Steel (Item No. 2039)	Good	\$3,500
16" ASA 90 ⁰ valve NRC 1188, STL, air 23 3/4 side port	As-Is	\$2,700
32"ASA 90 ⁰ valve NRC 1259-32 STL, air 38 1/8 side port	As-Is	\$3,500
32" CVC Steel Poppet valve. O-R on side port, 6" ASA rough port opp to32" side port. (Item No.2046)	Used	\$5,000
35" ASA 90 ⁰ valve, CVC STL, air 41 3/4 sideport w/6" ASA roughport	As-Is	\$4,000
35" ASA 90 ⁰ valve, NRC 1259-320 STL, air 46" side port	As-Is	\$4,500
HVA #922-9109 (Advantage) 1 3/4x 9 1/2 rect SST, Bellow Air, w/ sole ISO clamp mtg ,mounted on	Used	
12" od Loadlock w/ MDC NW -16 linear feed thru'. (Item No. 2028)		
NW-10 Balzers/Pfeiffer TVF-001. P/N PM-Z01-000. Turbo Vent. 6VDC (Item No. 2012)	Good Used	\$125

Item	Condition	Price
135) VALVES-Misc.		
1" NW-25 Edwards PV-25EKA # C413-01-000 90Deg , 240V Solenoid (Item No. 1541)	New	\$450
1" NW-25 Edwards #PV-25EK, 200-240V sol. No air (Item No. 1543)	New	\$450
NW-10 Balzers/Pfeiffer TCW-001. P/N PM-C00-001. 220V 50/60 Hz 100 (Item No. 2014)	Used	\$100
136) VALVES-Specialty gas.		
1 1/4 I.D. x 2 3/4 CFF x 1" thk NUPRO 304-24VFO butterfly valve. Knob. (Item No. 1754)	Good	\$95
1/4" SWAGELOCK, NUPRO SS B-4SA Metering Valve. (Item No. 1702)	New	\$25
1/4" SWAGELOCK, NUPRO SS-4BMG V 51, Micrometer Valve. (Item No. 1700)	New	\$100
1/4" SWAGELOCK, NUPRO SS-4BK-IC, Bellow seal, Air. No solenoid. (Item No. 1698)	New	\$75
1/4" Swagelok NUPRO B-45A (New#B-SS4-A) 90 de metering (39) avail (Item No. 1958)	New	\$25
3/8" SWAGELOCK, WHITEY SS-1KM4-S6. 1/4" male pipe, 316SST. (Item No. 1704)	New	\$40
137) VIEWPORTS & SHUTTERS.		
1 1/2" zero length VP on 2 3/4 CFF. 7056 Glass. MDC VP-150 (Item No. 2548)	New	\$85
1" zero length VP on 2 3/4 CFF. Flat sapphire (Item No. 2546)	Used	\$250
3/4" zero length VP on 1.33" CFF. (Item No. 5079)	New	\$80
6" dbl. CFF shutter, 2 1/4" x 3 3/4", flag operated by Varian 954-5151 Rot. FT (Item No. 4866)	Used	\$350
Shrader VP/shutter CV400-01, 4 3/4" flange for Varian w/teflon tape & polarizer (Item No. 2556)	Rebuilt	\$600
Shrader VP/shutter CV-500-01 polarizer, teflon tape & wide aperature for varian (Item No. 4905)	New	\$1,250
Temescal 0418-1772-0 4" Viewport w/ weld flange. (Item No. 2558)	New	\$250
Temescal 0502-3164-0 PA-1 4" shutter assy 120V solenoid Air op 1" Ft R/L fitt. Cu tube (Item No.2537)	New	\$1,200
Temescal 0502-4664-0, PA-2 4" shutter assy 120V sol Air op 2 3/4 CFF VCR fitt, SSt tube (Item No. 2539)	New	\$1,500
Temescal VV-400 viewvac 6" OD. 4 7/8" x 1/8" O-R. (Item No. 2560)	Unused	\$750
Temescal VV-400 6" OD V.P. w/Teflon tape & polarizer (Item No. 4708)	Rebuilt	\$600



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