



Heat Exchangers Available

Solutions 4 Manufacturing

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Please visit web site www.s4mEquipment.com for a searchable database of all equipment including photos. We have a photo for Most of these items listed here. Enter the ITEM number in the search box on our web site. Note most of this equipment is Used except as noted.

| ID | Name | Description | Location |
|-----------------------|-------------------------------------|--|----------------------|
| Heat Exchanger | | 88 Items | |
| 6174 | CIP System | Alfa Laval M6-FG CIP system consisting of CIP Tank, pump, filter and (2) Plate & frame alfa Laval M6-FG Heat exchangers with 66 plates each ss316. Last used for CIP system. Part of Evaporator package. For a list of all components, enter "pkevap" in the keyword search terms box. | Saskatchewan, Canada |
| EP-2901 | Condenser | Jogler, LLC Used as Process Building Vent Condenser. Jogler, LLC. SN 1802268-01. MAWP 50 psi at 150F. MDMT -20F at 50 psi. Part of FluidQuip SGT system (See asset FC SGT). Not sold separately at this time. | Vicksburg, MS |
| E-4201 | Condenser, Reflux 3187 sf | DCR Construction BEM 32" OD x 72" OD x 47.3 ft OA 3,187 Sq Ft Condenser. Heat exchanger vertical shell & tube design with skirt. 1 pass. Size 32" OD x 72" OD x 568" OAH (47.3 ft). Skirt height 165". Has 821 tubes ss304 at 0.75" for surface area 3,187 sq ft. sn 4201-7793 ASME NB# 230 MAWP 150 shell/ 75 tube psig at -20/300F. TEMA Design BEM CLASS: C. Material CS Shell/SS304 Tubes. Shell side cooling water, tube side reflux. 47 MMBTU. Used as Reflux Condenser | Vicksburg, MS |
| E-4504 | Evap Condenser shell/tube 12,595 sf | DCR Construction cs/ss 71" dia x 264 inch long 12,595 Sq Ft Evaporative Condenser, mfg by DCR Construction. Horizontal shell & tube heat exchanger, 1 pass.. ASME Nat'l Bd# 238, MAWP shell 150 psi at 200F, tubes 50 psi at 300F. Sn 4504-7793. Size 71" OD x 264 inch long. Has 1785 tubes at 1.25" OD for 12,595 sf area. Built 2008. Mat'l shell cs, tubes ss304. Weight 54108 | Vicksburg, MS |
| ET-4201 | Evaporative Condenser ss | Thermal Kinetics 5.5' dia x 50' tall ss304L 37 MMBTU Evaporative condenser: Evaporator capacity 37.4 MMBTUH, Material 304L SS shell & tube. Mfg by Apache ser num 11032-1, ASME NB# 1581, MAWP shell & tube 25 psi at 200F. Size 5'-6" dia x 50' s/s with an 8 ft cs skirt (OAH approx 60' - tube length 40 ft). See link for drawing and data. Used as Thermal Kinetics 1st and 2nd Stage/First Effect Evaporator | Canton, IL |
| ET-4202 | Evaporative Condenser ss | Thermal Kinetics 4.5' dia x 50' tall ss304L 45 MMBTU Evaporative condenser: Evaporator by Thermal Kinetics. Size 4.5' dia x 50' s/s on 8' cs skirt. OAH approx 60'. Capacity 45.1 MMBTUH, Material ss304L. Design: Tubes FV/25psig, 150F; Shell: FV/75psig, 200F. Used as Thermal Kinetics 3rd and 4th Stage/Second Effect Evaporator | Canton, IL |
| 8068 | Evaporator Condenser 9498sf | Crown Iron Works 56" dia x 24 ft 9,498 Sq Ft Unused Crown Iron Works 9498 sqft (882 sqmt) 304 ss horizontal evaporator condenser. Has (2016) 3/4 inch (19.05 mm) diameter x 24 ft (7315 mm) long 304 stainless steel tubes rated 55 psi (3.70 bar) design pressure at 100 deg.f (38 deg.c). Has 56 inch (1422 mm) diameter x 24 ft (7315 mm) long shell rated +/-15 psi (-1.03/1.03 bar) design pressure at 212 deg.f (100 deg.c). 4 pass tube side, 2 pass shell side. New 2004. Vapor inlet 36". Shell 56" OD x 24 ft. Overall size 6 ft top to bottom x 27ft-2" long, empty weight approx 32,970 pounds | England |
| E-7707 | Heat Exchanger shell & tube | Thermal Transfer Products SSC-1260-6-6-F 6" dia x 6.5 ft long 110 gpm Shell & tube heat exchanger by Thermal Transfer Products. MAWP shell 300 psig at 300F/tubes 150 psig at 300F. Sn 788112. Size 6.25" OD x 66" long. Tube side connections 3" screwed / shell side connections 2.5" NPT. Can handle flows from 20 gpm to 110 gpm. Used as Gluco system Heat Exchanger, | Vicksburg, MS |

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| 31-E-228 | Heat Exchanger, Fin Tube | 162 sf Koch HEx 1 MMBTU 8" dia Fin tube heat exchanger Koch Heat Exchanger - hairpin design, 1 turn u-tube 162 sq ft surface area. Designed for 1.04 MMBTU/hr, Syn Gas 300/110F, Water 90/110F. 0.75/0.083, 2790 #. ASME MAWP shell 800 psig/FV at 350F, tubes 615 psig at 250F, Nat'l Bd# 19197, s/n 12110-09-4-01. Material 8 inch carbon steel. Built by Koch Heat Transfer Company in 2009 - used only 42 days - like new. Used as 4th Stage Booster Spillback Cooler. | 162 Sq Ft Soperton, GA |
| 31-E-104 | Heat Exchanger, Fin Tube | 223 sf Koch Heat Transfer Co. 1.8 MMBTU 8" dia Fin tube heat exchanger, hairpin design, 1 turn u-tube mfg by Koch Heat Transfer Company. Has 223 sq ft heat exchange area. Rated at 1.81 MMBTU/hr, Syn Gas 300/110, Water 90/110F. 0.75/0.065, 2700 #. ASME rated at 215/FV at 350F. Stainless steel 304. Physical size 8" dia sch40. Built in 2009 - ran only 42 days - like new. Used as 1st Stage Booster Intercooler. | 223 Sq Ft Soperton, GA |
| 31-E-208 | Heat Exchanger, Fin Tube | 298 sf Koch 1.8 MMBTU 8" dia Fin tube heat exchanger, hairpin design, 1 turn u-tube built by Koch Heat Transfer Company in 2009 - 298 sq ft heat exchange area. Rated at 1.811.69 MMBTU/hr, ASME MAWP tubes 400 psig/FV at 350F and shell 305 psig at 250F, Nat'l Bd# 19195, s/n 12110-09-2-01. Water 90/110F, Syn Gas 300/110F. 0.75/0.065, 2950 #. Tubes 304SS, shell cs, size 8 in dia, schedule 40. Used as 2nd Stage Booster Intercooler | 298 Sq Ft Soperton, GA |
| ET-4113A | Heat Exchanger, frame only | Tranter GFP-167-M-8-HP-5 frame only Tranter Superchanger plate heat exchanger - FRAME ONLY - plate pack gone. Original design: Model GFP-167-M-8-HP-55, capacity 4.47 MMBTUH Material 304 SS Design 50 psig / 220 deg F. 857 sf See link for drawing and U-1. Last used as Beer Preheater No. 1 | . Canton, IL |
| ET-4113B | Heat Exchanger, frame only | Tranter GFP-167-M-8-HP-5 frame only Tranter Superchanger plate heat exchanger - FRAME ONLY - Plate pack missing. (original design was capacity 4.47 MMBTUH Material 304 SS Design 50 psig / 22 °F. See link for drawing and U-1. 857 sf Last used as Beer Preheater No. 2) | . Canton, IL |
| 31-E-220 | Heat Exchanger, Hairpin | 228 sf Koch 1.46 MMBTU HEx 8" dia Koch Heat exchanger, hairpin design 228 sq ft heat exchange area. Rated at 1.46 MMBTU/hr. Water 90/110F, Syn Gas 300/110F. 0.75/0.065, 3170 #. ASME MAWP 800/FV at 350F. Physical size 8 in dia sch 40, tubes 304SS/shell cs. Built by Koch Heat Transfer Company in 2009 - like new. Used as 3rd stage booster intercooler. | 228 Sq Ft Soperton, GA |
| 2415 | Heat Exchanger, Plate | Paul Mueller Company AT40 Paul Mueller Company Accu-Therm Plate Heat Exchanger, Model AT40 B-20. ASME Maximum W. P. 100 psi @ 150F. Previously used with water cooled air compressors. Stored in climate controlled building before and after removal. Approx size 70 1/4" H, 27 " W. Typical max flow GPM H2O: 1150. Two available, priced separately. One National Board # 14553, S/N W-30026-2, 1988. Second one National Board # 38064, S/N 321530, 2004. | . Illinois |
| 7630 | Heat Exchanger, Plate | Sondex, Inc S201S38 Plate Heat Exchanger. Sondex, Inc. S/N 9107. Model # S201S38. ASME Nat'l Bd# 541, MAWP 150 psi at 200F, Design pressure 150 psi. Corrugated herringbon pattern plates - designed for one pass solutions. Built 2007 - removed and ready to load | . Alabama |
| E-4206 | Heat Exchanger, Plate | APV LR4 M-10 Heat exchanger plate APV Paraflow. ASME NB# 12744 MAWP 150 psig at -20 / 320F cold & hot side. Model LR4 M-10, sn G2011000799. Has 29 plates, gap 0.5mm. Used as Sieve Vaporizer | . Vicksburg, MS |
| E-4551 | Heat Exchanger, Plate | Alfa Laval MIDBFM-87 Alfa Laval plate heat exchanger Model MIDBFM-87. Ser # PE-31274. Rated at 150 psig at 300F. Used as Digester cooler | . Vicksburg, MS |
| 380-EX-854 | Heat Exchanger, plate | 1115sf Alfa Laval M15-BFG 168 plates 1115 SqFt, SS, Plate Heat exchanger by Alfa Laval. Serial # 30101-98408, National Board #7742. MAWP 150 psi at 300F, MDMT -5F at 150 psi. Heat exchanger type M15-BFG. "A" closing dimension 20.5 inches based on 168 plates, 0.6mm thick. Capacity 68.71 US Gallons. Plate arrangement 1x20-3x21H. Inlet and outlets on both sides feature 6 inch flanges with titanium sleeved pipes. | 1,115 Sq Ft Saskatchewan, Canada |

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| E-2304 | Heat Exchanger, Plate 114 sf | Alfa Laval M10-MFG Alfa Laval Heat exchanger, plate. Surface area 113.7 sq ft. Plate gap 0.5 mm. MAWP 150 psig at 32/320F. Model M10-MFG. Material ALLOY 316 sn30113-90890. Mash mix side 1/water side 2. Used as beer flash condenser | 113 Sq Ft Vicksburg, MS |
| E-4302 | Heat Exchanger, Plate 134 sf | Alfa Laval TS20-MFG Alfa Laval plate heat exchanger Model TS20-MFG, SN 30110-68352 ASME NB# 25991 MAWP 150 psig at 32 / 200F. Has 46 ss316 plates 0.6mm for 134 sq ft surface area. Design Class TS20-MFG. Material ALLOY 316. Hot side 150 proof ethanol, cold side water. Used as Regen Cooler #2 | 134 Sq Ft Vicksburg, MS |
| 5882 | Heat Exchanger, Plate 1664sf and 1059sf | Tranter GFP-187-M-8-HP-1 Wide Gap design plates Tranter plate heat exchanger - wide gap - lot of 4 heat exchangers --Qty (2) - Model GFP-187-M-8-HP-105 with 105 plates rated at 1664 sq ft and 9 MMBTU. Hot side 3-pass 150 psi, port size 6". Ethanol beer mash on hot side. Co side 3-pass 150 psi, port size 8 inch. Water on cold side. Plates are ss316 with EPDM gaskets. Wide gap 1mm.. Designed for 345,000 lb/hr mash at 135F in, 99F out. Water flow 750,000 lb/hr at 83F in, 95F out. See thermal design spec sheet attached as a link. --Qty (2) - Model GFP-187-M-8-HP-69 with 69 plates rated at 1059 sq ft and 12 MMBTU. Hot side 3-pass 150 psi, port size 6". Ethanol beer mash on hot side. Colc side 3-pass 150 psi, port size 6 inch. Beer on cold side. Plates are ss316 with EPDM gaskets. Wide gap 1mm.. Designed for 345,000 lb/hr mash at 184F in, 135F out. Beer flow 345,000 lb/hr at 92F in, 142F out. See thermal design spec sheet attached as a link. | 1,664 Sq Ft Kansas |
| E-4402 | Heat Exchanger, Plate 168 sf | Alfa Laval Alfa Laval plate heat exchanger Model M10-BFG. Has 67 plates 0.5mm for 167.9 sq ft surface area. Sn 30110-68353, ASME MAWP 150 psig at 32 / 200F. Material ALLOY 316. Hot side 200 proof ethanol/cold side water. Physical size 44.3" long x 18.5" wide x 42.7" tall. Used as Product A cooler | 168 Sq Ft Vicksburg, MS |
| E-4505 | Heat Exchanger, Plate 213 sf | Alfa Laval TS20-MFG Alfa Laval plate heat exchanger Model TS20-MFG. Has 72 plates 0.6 mm for 213.2 sq ft surface area. Sn 30110-68354, ASME NB# 25992, MAWP 150 psig at 32 / 200F. Material ALLOY 316. Hot side water/cold side water. Physical size 58.3" long x 31.5" wide x 55.3" tall. Used as Evap Vacuum Cooler | 213 Sq Ft Vicksburg, MS |
| EP-2101 | Heat Exchanger, Plate 336sf | Tranter GXD-042-L-5-UP-7 3.9 MMBTU 73 plates Plate heat exchanger mfg by Tranter capacity 3.907 MMBTUH size 336.26 SF Material 316 SS/EPDM Model GXD-042-L-5-UP-73. MAWP 150 psi at 300F. 73 plates for 336 sf heat transfer area. Original design water to water heater. See link for data and drawing. This heat exchanger is open - some plates out - but plates and gaskets look good. Last used as Cook Water Pre-Heater | 336 Sq Ft Canton, IL |
| 2402 | Heat Exchanger, Plate 355sf MA30 | Alfa Laval MA30 29 plates Wide Gap Alfa Laval Plate & Frame Heat Exchanger, Model MA30-SMFG with 316ss wide gap plates. Surface area 355.08 sq ft. 29 plates. Rated at 150 psi @ 285F. Serial : 30105-70598. 1998 | 468 Sq Ft Kansas |
| 2404 | Heat Exchanger, Plate 355sf MA30 | Alfa Laval MA30 29 plates Wide Gap Alfa Laval Plate & Frame Heat Exchanger, Model MA30-SMFG with 316ss wide gap plates. Surface area 355.08 sq ft. 29 plates. Rated at 150 psi @ 285F. Serial : 30105-70599. 1998 | 468 Sq Ft Kansas |
| 2401 | Heat Exchanger, Plate 403sf MA30 | Alfa Laval MA30 26 plates Wide Gap Alfa Laval Plate & Frame Heat Exchanger, Model MA30-SFG with wide gap plates. Surface area 403.6 sq ft. 26 plates. Rated at 100 psi @ 200F. Serial # 30105-67392. 2002 | 403 Sq Ft Kansas |
| EP-4108 | Heat Exchanger, Plate 8 sf | APV Paraflow SRI M-11 51 plates APV Paraflow heat exchanger capacity 0.1 MMBTUH Material ss316 Plate. Design: 100 psi at 275F. Heat transfer area 8.3 sf. 51 plates. See link for drawing. Las used as Fusel Oil Exchanger | 8 Sq Ft Canton, IL |

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|---------|---------------------------------------|---|---------------|
| EP-2102 | Heat Exchanger, Plate 84 sf | Tranter GCP-026-L-5-UJ-3 5.279 MMBTU 32 plates Tranter plate heat exchanger, capacity 5.279 MMBTUH size 83.96 SF Material 316 SS/EPDM Model GCP-026-L-5-UJ-32. Original design was water heater - stem c one side, water on other side. MAWP 150 psi at 300F. 32 plates for 83.96 sf heat transfer area. See link for data and drawings. Last used as Cook Water Trim Heater | Canton, IL |
| 5777 | Heat Exchanger, Plate 84sf | Superchanger 41 plates Plate & Frame Heat Exchanger, Superchanger, 84.5 sq ft, Model S-3-HJ-27, S/N P21326H, 1980, 41 plates | Kansas |
| E-3103 | Heat Exchanger, Plate 934 sf | 934 Sq Ft Heat exchanger not found - may not exist. Alfa Laval Plate heat exchanger Model 350S-FG. Has 50 plates at 0.6 mm gap for 934.8 sq ft surface area. SN 30110-68346. ASME NB# 26344, MAWP 150 psig at 32 / 266F. Material alloy 316. Hot side corn mash 310,300 #/hr/cold side water 271,700 #/hr. 3 pass. Material stainless steel 316. Used as Yeast Prop Cooler #1 | Vicksburg, MS |
| EP-2302 | Heat Exchanger, Plate Widegap 2772 sf | Tranter GFP-187-M-8-HP-7 Wide gap 316ss 175 plates Tranter plate heat exchanger, capacity 11.725 MMBTUH size 2772 SF heat transfer area. 175 plates. MAWP 150 psi at 300F. Material 316 SS/EPDM Wide gap plate 0.8mm exchanger Model GFP-187-M-8-HP-75. Designed to cool cooked Mash using water. Last used as Mash Cooler | Canton, IL |
| E-4306 | Heat Exchanger, Plate Widegap 1600 sf | Alfa Laval 350S-FG Widegap 1,600 Sq Ft Alfa Laval Plate heat exchanger Widegap w/0.8mm plates Model 350S-FG. Size is 110" long x 45" wide x 126" tall. Has 1,600 sq ft surface area. Sn 30113-90891. ASME NB# 31400, MAWP 100 psig at 250F. Material alloy 316. Hot side ethanol 53,000 lb/hr/cold side water 125,000 lb/hr. Physical size 110.4" long x 45.4" wide x 126.4" tall. mUsed as Condensate Heater | Vicksburg, MS |
| E-2305A | Heat Exchanger, Plate Widegap 2451 sf | Alfa Laval 350X-FG wide gap 2,451 Sq Ft Alfa Laval Plate heat exchanger Widegap 1mm Model 350X-FG. Has 129 plates for 2,451 sq ft surface area. sn 30110-68343. ASME NB# 26371, MAWP 150 psig at 32 / 266F. material alloy 316. sn 30110-68343. Heat transfer 16 MMBTU. Hot side Beer bottoms 600 gpm 10 pass/cold side AMG beer feed 600 gpm 10 pass. Used as Beer Bottoms Exchanger #1 | Vicksburg, MS |
| E-2305B | Heat Exchanger, Plate Widegap 2451 sf | Alfa Laval 350X-FG wide gap 2,451 Sq Ft Alfa Laval Plate heat exchanger Widegap 1mm Model 350X-FG. Has 129 plates for 2,451 sq ft surface area. sn 30110-68344. ASME NB# 26370, MAWP 150 psig at 32 / 266F. material alloy 316. sn 30110-68343. Heat transfer 16 MMBTU. Hot side Beer bottoms 600 gpm 10 pass/cold side AMG beer feed 600 gpm 10 pass. Used as Beer Bottoms Exchanger #2 | Vicksburg, MS |
| E-3104 | Heat Exchanger, Plate Widegap 3116 sf | Alfa Laval 350S-FG wide gap 3,116 Sq Ft Alfa Laval Plate heat exchanger Widegap w/0.6mm plates Model 350S-FG. Has 153 plates for 3,116 sq ft surface area. sn 30110-68348. ASME NB# 26374, MAWP 150 psig at 200F. Material alloy 316. Heat transfer 13.8 MMBTU. Hot side Beer mash 2 pass 1,548,000 lb/hr/cold side water 2 pass 917,000 lb/hr. Used as Fermentation Cooler #1 | Vicksburg, MS |
| E-3105 | Heat Exchanger, Plate Widegap 3116 sf | Alfa Laval 350S-FG wide gap 3,116 Sq Ft Alfa Laval Plate heat exchanger Widegap w/0.6mm plates Model 350S-FG. Has 153 plates for 3,116 sq ft surface area. sn 30110-68349. ASME NB# 26391, MAWP 150 psig at 200F. Material alloy 316. Heat transfer 13.8 MMBTU. Hot side Beer mash 2 pass 1,548,000 lb/hr/cold side water 2 pass 917,000 lb/hr. Used as Fermentation Cooler #2 | Vicksburg, MS |

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| E-3106 | Heat Exchanger, Plate Widegap 3116 sf | Alfa Laval 350S-FG wide gap Alfa Laval Plate heat exchanger Widegap w/0.6mm plates Model 350S-FG. Has 153 plates for 3,116 sq ft surface area. sn 30110-68350. ASME NB# 26392, MAWP 150 psig at 200F. Material alloy 316. Heat transfer 13.8 MMBTU. Hot side Beer mash 2 pass 1,548,000 lb/hr/cold side water 2 pass 917,000 lb/hr. Used as Fermentation Cooler #3 | 3,116 Sq Ft Vicksburg, MS |
| E-3107 | Heat Exchanger, Plate Widegap 3116 sf | Alfa Laval 350S-FG wide gap Alfa Laval Plate heat exchanger Widegap w/0.6mm plates Model 350S-FG. Has 153 plates for 3,116 sq ft surface area. sn 30110-68351. ASME NB# 26393, MAWP 150 psig at 200F. Material alloy 316. Heat transfer 13.8 MMBTU. Hot side Beer mash 2 pass 1,548,000 lb/hr/cold side water 2 pass 917,000 lb/hr. Used as Fermentation Cooler #4 | 3,116 Sq Ft Vicksburg, MS |
| E-2302A | Heat Exchanger, Plate Widegap 4093 sf | Alfa Laval WideGap 350S-FG 110 plates Wide Gap Alfa Laval plate heat exchanger, wide gap model 350S-FG Mash-473,500 lb/h, Water 1,188,000 lb/h. Has 110 plates (1755mm w/210mm) for 4090 sf. Mat'l ss316. Serial number 30110-68345. ASME Nat'l Bd # 26343. MAWP 150 psig at 32 / 266F. Used as Liq Cooler #1 | 4,093 Sq Ft Vicksburg, MS |
| E-2301A | Heat Exchanger, Plate Widegap 5511 sf | Tranter GFP-187-M-8-UR-3 344 plates Wide Gap Tranter plate heat exchanger Model GFP-187-M-8-UR-344, Widegap. sn SW483 MAWP 150 psig at 300F. Mash liquefaction hot side 447,853 lb/hr, Beer cold side 378,530 lb/hr. Has 344 plates for 5511.94 sf area. Mat'l ss316. Used as Beer Mash Heat Exchanger Cooler #1 | 5,511 Sq Ft Vicksburg, MS |
| E-2301B | Heat Exchanger, Plate Widegap 5511 sf | Tranter GFP-187-M-8-UR-3 344 plates Wide Gap Tranter plater heat exchanger Model GFP-187-M-8-UR-344, Widegap. sn SW484 Mash liquefaction hot side 447,853 lb/hr, Beer cold side 378,530 lb/hr. Has 344 plates for 6318 sf area. MAWP 150 psig at 300F. Mat'l ss316. Used as Beer Mash Heat Exchanger Cooler #2 | 5,511 Sq Ft Vicksburg, MS |
| E-2302B | Heat Exchanger, Plate Widegap 934 sf | Alfa Laval Wide Gap 350S-FG 52 plates Wide Gap Alfa Laval wide gap model 350S-FG Service: Mash-473,500 lb/h, Water-1,188,000 lb/h. Has 52 plates at 0.6 mm for 934.4 sq ft surface area. Mat'l ss316. Serial number 30110-68347. ASME Nat'l Bd # 26373. MAWP 100 psi at 200F. Used as Mash Cooler #2 | 934 Sq Ft Vicksburg, MS |
| E-3102 | Heat Exchanger, Plate Widegap 934 sf | Alfa Laval Widegap 350S-FG Alfa Laval Plate heat exchanger Model Widegap 350S-FG. Has 50 plates at 0.6 mm for 934.8 sq ft surface area. Sn 30110-68346. ASME NB# 26344, MAWP 150 psig at 32 / 266F. Material alloy 316. Hot side corn mash 310,300 #/hr/cold side water 271,700 #/hr. 3 pass. Material stainless steel 316. Physical size 108" long x 46.6" wide x 126.4" tall. Used as Yeast Prop Cooler #1 | 934 Sq Ft Vicksburg, MS |
| 5833 | Heat Exchanger, Shell & Tube Shell & Tube Exchanger, 10 ft Long, 6" pipe | 6" dia x 10 ft | Kansas |
| 330-EX-467 | Heat Exchanger, Shell & Tube Shell & tube Heat Exchanger. KHS Ziemann-Liess Shell and Tube Heat Exchanger. S/N: 270132. 304 stainless steel construction. Shell side MAWP: 230 psi. Tube side MAWP: 100 psi. MDMT:24.8 F. Refrigerant Receiver Tank- 450 Gallon. Inlets: (1) 3 in. dia. Threaded fitting (product), (1) 6 in. Dia. Media port with a 12 in. dia. Flange and (8) 1 in. dia. Thru holes at a center-to-center distance of 3-3/4 in. Outlets: (2) 1 in. dia. Media discharge ports each with a 2-bolt flange with 1/2 in. dia. Th holes at a center-to-center distance of 2-3/4 in., (1) 1-1/2 in. dia. Media discharge port with a 4 in. L x 4 in. W flange and (4) 1/2 in. dia. Thru holes at a center-to-cent distance of 2-1/2 in., (1) 3 in. dia. Threaded fitting (product). Overall dimensions: 16 ft. 2 in. L x 56 in. W x 10 ft. 2 in. H | KHS Ziemann-Liess | Saskatchewan, Canada |

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| 41-E-108 | Heat Exchanger, Shell & Tube 203 sf | HED 8.8 MMBTU HEx 13" dia x12 ft Heat exchanger designed for 8.8 MMBTU/hr, Stm 487/487F, Syn Gas 120/360F. Shell & Tube TEMA design NEU, 203 sq ft, 1"/0.109, 3550 #. ASME MAWP tube: 1650/FV at 550F and shell 1750 psig at 550F, physical size 13" dia X 12 ' for a capacity of 83 gallons. Shell / tube Material carbon steel. Built by Heat Exchanger Design (HED) in 2009 - like new. Nat'l Bd# 2231, sn 4017B. Last used as Syngas Preheater. (Part of module fp413) | Soperton, GA |
| 41-E-112 | Heat Exchanger, Shell & Tube 2151sf | HED 98 MMBTU HEx 25" dia x 20 ft Heat exchanger loop condenser designed for 98 MMBTU/hr, Water 90/110F, Reactor Effluent 300/105F. Shell & Tube design - TEMA design AEU. U-tube Heat transfer area 2151 sq ft, ASME MAWP tubes 1650 psig/FV at 385F, shell 150 psig at 250F. Nat'l Bd # 2932, serial# 4017C. Material 304LSS tubes/CS shell. There are 325 tubes sized 5/8" OD with 0.065" wall, Tubes are 304L stainless, Physical size 25" dia x 20 ft. Manufactured by Heat Exchanger Design (HED) in 2009. Physical weight 16,620 pounds. Ran 42 days - like new. (Part of module fp413) | Soperton, GA |
| E-2101 | Heat Exchanger, shell & tube 408 sf | DCR Construction BEM 15" dia x 10 ft long Condenser. Heat exchanger Shell & Tube. Vertical. Size approx 15" dia x 120" long, heat transfer area 408 sq ft. ASME MAWP 150 shell / 75 tube psig at -20/300F Design Class BEM CLASS: C. Material CS Shell/SS304 Tubes. Sn 2101-7793. Cooling water on shell side and ethanol/air/water on tube side. Used as vent condenser for slurry mix tank. | Vicksburg, MS |
| 5844 | Heat Exchanger, Shell & Tube 722sf | Mason Mfg 722 Sq Ft Heat Exchanger, tube & shell, 4-pass, Mason Mfg, 2002, S/N 02-3880, 722 sq ft | Kansas |
| 41-E-104 | Heat Exchanger, Shell & Tube 829sf | HED 7.1 MMBTU HEx 16" dia x 20 ft-11" long Shell & Tube Heat exchanger manufactured by Heat Exchanger Design (HED) in 2009. Designed for 7.1 MMBTU/hr, Syn Gas 360/550F, Reactor Effluent 650/463F. Tema design NEN, 829 sq ft, 0.625/0.082, 10250 #. ASME MAWP tubes 1650 psig/Fv at 700F, and shell 1650 psig at 650F. Serial number 4017A, Nat'l Bd# 2930. Material Low Alloy: Shell A333 GR 11 high nickel content, tubes stainless steel A-213 Gr T11. Physical size approx 16" dia x 20 ft 11 in long. Tubes straight, 259 tubes at 5/8 in OD. Shell inlet/outlet 8 inch. Tube inlet/outlet 6 inch. Last used as Feed/Effluent Exchanger. See U-1 form in links. (Part of fp413 SynGas conditioning) | Soperton, GA |
| T637 | Heat Exchanger, Shell & Tube SS 109sf | Doyle & Roth SS 10.8" x 9.5 ft Doyle & Roth Stainless steel shell & tube heat exchanger. Built 1992. ASME NB# 16051, Serial no. J7042-1. Material 304SS tube and shell. MAWP shell is 150 psi @ 400F, tube side is 250 psi @ 400F. TEMA Type BEU. "U" design, 2 pass tube. Surface area 109 sq. ft. Drawing #B9064, PO 31941. Oil on tube side, steam on shell side. Used as edible oil deodorizer trim heater operating at 70 gpm. Could also be used as a cooler. Physical size is 10.75" dia x 9.5' long. Total weight: 925 l each. See drawing for details. Photos show heat exchangers in As Is condition - we can recondition this for you. | Ft Worth, TX |
| E-7601 | Heat Exchanger, shell & tube 1018 sf | DCR Construction BEM 2 ft dia x 21.75 ft long Heat exchanger shell & tube by DCR. Size 24 OD" x 261" long, horizontal on saddles. Has 216 ss304 tubs at 1" OD for surface area of 1,018 sq ft. sn 7601-7793 ASMA NB# T008 MAWP 150 shell/ 150 tube psig at -20/400F. TEMA Design BEM CLASS: C. Material CS Shell/SS304 Tubes. Shell side steam/tube side beer Heat exprocess concentrate Used as Process Condensate Heater | Vicksburg, MS |
| E-4102 | Heat Exchanger, shell & tube 1035 sf | DCR Construction BEM 32" dia x 7.5 ft long Condenser. Heat exchanger shell & tube mfg by DCR. 1 pass. Size 32" ID x 89.5" long. Vertical with dome top/flat bottom with flange. Has lifting lugs. Has 914 tube ss304 at 3/4" for surface area of 1035.7 sq ft. Sn 4102-7793, ASME NB# 213 MAWP shell 150 psig/FV at 300F/tubes 75 psig/FV at 300F. TEMA design BEM CLASS: C. Material CS Shell/SS304 Tubes. Shell cooling water, tubes CO2/ethanol. Used as Beer Column Vent Condenser | Vicksburg, MS |

| ID | Name | Description | Location |
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| E-7201 | Heat Exchanger, shell & tube 1181 sf | DCR Construction BEM 28" OD x 159" long 1,181 Sq Ft | Vicksburg, MS |
| | | Heat exchanger shell & tube by DCR. Size 28 OD" x 159" long, horizontal on saddles, insulated. Has 615 ss304 tubes at 0.75" OD for surface area of 1,181.1 sq ft. sn 7201-7793 ASMA NB# 214 MAWP 150 shell/ 150 tube psig at -20/400F. TEMA Design BEM CLASS: C. Material CS Shell/SS304 Tubes. Shell side steam/tube side beer Used as Flash Recovery Condenser | |
| ET-4114 | Heat Exchanger, shell & tube 1190 sf | Yula WC-1L-168BBS 24" x 206" BEM 1,190 Sq Ft | Canton, IL |
| | | [PRELIM - Seller may want to keep - make OFFER]. Yula Corporation shell and tube heat exchanger, capacity 1.8 MMBTUH Model WC-1L-168BBS. Sn 20085. Mfg by Yula ser num 20085, ASME Nat'l Bd# 12472, MAWP shell 170 psi at 360F, tubes 80 psi at 350F Material shell cs, tubes ss 304L. 377 tubes 7/8" dia materi ss304L. TEMA type BEM Size 24" OD x 206: OAL - expansion joint in middle. Heat exchange area 1190 sf. Last used as 92% Vapor Superheater. | |
| E-4202 | Heat Exchanger, shell & tube 1301 sf | DCR Construction BEM 26" dia x 17 ft tall 1,301 Sq Ft | Vicksburg, MS |
| | | Condensing heat exchanger shell & tube vertical mount on lugs mfg by DCR. 1 pass. Size approx 26" dia x 204" long. Has 552 ss304 tubes 0.75" OD for surface ar 1,301 sq ft. ASME NB# T003, MAWP shell 150 psig/FV at 400F & tubes 75 psig/FV at 400F. TEMA design BEM CLASS C. Material CS Shell/SS304 Tubes. Shell side steam/tube side ethanol & water. Used as Stripper Reboiler Column/Condenser sn 4202-7793 | |
| 31-E-236 | Heat Exchanger, Shell & Tube 135 sf | Precision Pipe & Vessel 1.44 MMBTU HEx 10" dia x 8.5 ft 135 Sq Ft | Soperton, GA |
| | | Shell & tube heat exchanger, Rated at 1.44 MMBTU/hr, operating pressure 80 psig. Shell side Steam 324psi/307F, tube side HP Solvent 102psi/125F. Shell & tube TEMA Design NEN, 135 sq ft surface area, has 81 tubes 3/4" 14 gage tubing, 0.75/0.083, empty weight 1913 #. Manufactured by Precision Pipe & Vessel in 2009 - ran only 42 days - like new. ASME rated at shell 150 psi at 400F, tube 200 psi at 250F. Physical size 10 in dia x 8.5 ft long. Material: shell is seamless pipe carbon steel SA-106 grade B, tubes are carbon steel 14 gage. Used as High Pressure Liquid Heater on fp311 | |
| E-4305 | Heat Exchanger, shell & tube 1533 sf | DCR Construction BEM 2 19.5 ft longft dia x 1,533 Sq Ft | Vicksburg, MS |
| | | Heat exchanger, shell and tube 1 pass. Size 24" OD x 234" long. Horizontal on saddles. sn 4305-7793 ASME NB# T007 MAWP shell 105/FV at 300F, tube 75/FV at 500F. Has 488 tubes at 3/4" OD for 1,533 sq ft surface area. Design TEMA BEM CLASS: C. Material SS304 Shell & Tubes. Nozzles Vapor in/out 14", water in/ou 6". Used as DDE Process Condensate heater | |
| 6208 | Heat Exchanger, Shell & Tube 165sf | Chester-Jensen SV-1 1/2 - 15-28 165 Sq Ft | Saskatchewan, Canada |
| | | Shell and tube heat exchanger - designed such that there are 10 heads - ss tube "u" back external. Insulated. Mfg by Chester-Jensen Model SV-1 1/2-15-28 . Serial 7402-e. Tubes 1 1/2 inch OD ss304,shell carbon steel. Has 28 tubes for 165 sq ft heating surface. Steam heating unit. Unit is sanitary and set up for CIP. Built 1974. See link for brochure. | |
| E-4103 | Heat Exchanger, shell & tube 2225 sf | DCR Construction NEM 3 ft dia x26.5 ft long 2,225 Sq Ft | Vicksburg, MS |
| | | Heat exchanger shell & tube 8 pass by DCR. Horizontal on saddles. Size 36" ID x 317.6" long. Has 309 tubes at 1.25" OD for surface area of 2,225 sq ft. sn4103-7793 ASME NB# T002 MAWP shell 150 psig/FV at 400F/tubes 150 psig/FV at 400F. TEMA Design NEM CLASS C. Material CS Shell/SS304 Tubes. Shell side steam, tube side beer. Used as Beer Column Feed Heater | |
| E-4203 | Heat Exchanger, shell & tube 242 sf | DCR Construction BEM 16" dia x 9.4 ft tall 242 Sq Ft | Vicksburg, MS |
| | | Condensing Heat exchanger shell & tube mfg by DCR. 1 pass. Size 16" ID x 112.8" long. Vertical with lugs. Has 2124 tubes ss304 at 3/4" for surface area of 242 sq ft. ASME MAWP shell 150 psig/FV at 200F/tubes 150 psig/FV at 200F. TEMA design BEM CLASS C. Material CS Shell/SS304 Tubes. Shell cooling water, tubes CO2/ethanol. Used as reflux vent condenser | |

| ID | Name | Description | Location |
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| 31-E-234 | Heat Exchanger, Shell & Tube 280sf | Precision Pipe & Vessel 0.36 MMBTU 10" x 23.4 ft 280 Sq Ft Shell & Tube heat exchanger, Rated at 0.364 MMBTU/hr, Treated Gas 21/100F, Raw Syn Gas 110/64F. Shell & tube, TEMA design NEN, 280 sq ft, 0.75/0.065, 3237 #. Physical size 10 in dia x 23 ft 5 1/8 inch long. ASME MAWP 800/Fv at 350F shell, 800/fv at 250F tubes. Manufactured by Precision Pipe & Vessel (PPV) ir 2009. Material tubes 304L Stainless/shell CS. Used for Gas Clean-up Feed/Effluent Exchanger. Part of fp311 | Soperton, GA |
| ET-9501 | Heat Exchanger, shell & tube 285sf | Protherm 13" dia x 120" long BEM 285 285 Sq Ft [PRELIM - Seller may want to keep - make OFFER]. Shell & tube heat exchanger mfg by Heat Transfer Systems. Size 14" dia x 13'-11" OAL. Type BEM. Heat Transfer ser num 12910, ASME NB# 1777, MAWP shell 150 psi at 350F/tubes 125 psi at 350F. Material shell cs/tubes ss316. Capacity 5.137 MMBTU. Has 145 tubes at 3/4" OD for 285 sf heat transfer area. See links for drawing and U-1 form. Last used as CIP Heater | Canton, IL |
| E-4205 | Heat Exchanger, shell & tube 3322 sf | Harris Thermal Transfer BEM 32" dia x 20.9 ft tall 3,322 Sq Ft Condenser Heat exchanger shell & tube, Size approx 32" ID x 251" long with expansion joint. Hung vertical with lugs. Has 940 ss316 tubes 3/4" OD x216" long for heat transfer area of 3322 sq ft. MAWP 100 psia & FV shell/ 35 psig & FV tube 6t -20/320F. Heat exchanged 25.5 MMBTU. TEMA Class BEM CLASS: C. Material Shell CS SA-516 Gr 70/Tubes SS316. Sieve feed 12" nozzle & 4" low proof out on tube side (190 proof ethanol). Steam on shell side 8" steam in/4" steam out. Usec as Mole Sieve Vaporizer Condenser sn 25944 | Vicksburg, MS |
| E-4401 | Heat Exchanger, shell & tube 3483 sf | DCR Construction 3,483 Sq Ft Condenser. Heat exchanger vertical shell & tube design with skirt. 1 pass. Size 36" OD x 257" long with 48" cs skirt for approx 305" OAH (25.4 ft). Skirt height 48". Has 1127 tubes ss304 at 0.75" for surface area 3,482.9 sq ft. sn 4401-7793 ASME NB# 223 MAWP shell 75 psig/FV at 300F/tubes 150 psi/FV at 300F. TEMA Design BEM CLASS: C. Material SS 304 Shell/SS304 Tubes. Shell side final product vapor, tube side cooling water. Used as final product condenser | Vicksburg, MS |
| E-7602 | Heat Exchanger, shell & tube 361 sf | DCR Construction BEM 1.3 ft dia x 14.5 ft long 361 Sq Ft Heat exchanger shell & tube by DCR. Size 16 OD" x 174" long, horizontal on saddles. Has 184 ss304 tubes at 0.75" OD for surface area of 354.5 sq ft. sn 7602-7793, ASME NB# T009 MAWP shell 150 psig/FV at 400F/tube 200 psig/FV at 400F. TEMA Design BEM CLASS: C. Material CS Shell/SS304 Tubes. Shell side steam/tube side 5% caustic. Used as dilute caustic heater | Vicksburg, MS |
| 31-E-188 | Heat Exchanger, Shell & Tube 5861 sf | Heat Exchanger Design Inc. 38" dia x 28 ft 5,861 Sq Ft Shell & tube heat exchanger, Rated at 4.02 MMBTU/hr, HP Solvent 36/102, Lean Solvent 121/46F. Shell & tube, TEMA type BFU, 5861 sq ft, 0.75/0.083", 38250 #. Manufactured by Heat Exchanger Design in 2009 - ran only 42 days - like new. ASME MAWP 450/FV at 350F, Nat'l Bd# 2891, s/n 4015. Physical size 38" dia X 28'. Material KCS (killed carbon steel). Used as Solvent / High Pressure Liquid Exchanger on fp311. | Soperton, GA |
| E-4304 | Heat Exchanger, shell & tube 613 sf | DCR Construction BEM 2 ft dia x 10.2 ft long 613 Sq Ft Heat exchanger shell & tube. Size 24" ID x 122" long OAL. Horizontal on saddles. 1 pass. Has 520 tubes at 0.75" OD for 613 sq ft surface area. Shell side is regen liquid, tube side product vapor. sn 4304-7793 ASME NB# T006 MAWP shell 150 psig/FV at 300F/tube 75 psig/FV at 500F. TEMA Design BEM CLASS: C. Insulated Material CS Shell/SS304 Tubes. Used as Regen Preheater | Vicksburg, MS |
| ET-4205 | Heat Exchanger, shell & tube 63sf | Yula WC-1E-48CS 12.75" x 82" BEM 63sf 0 MMBTU Yula shell & tube heat exchanger Model WC-1E-48CS. TEMA Type BEM. Mfg by Yula ser num 20083, ASME NB# 12470 MAWP shell 100 psi at 250F/tubes FV/100 psi at 250F. Capacity 0.1 MMBTUH Material shell cs/ tubes ss 304L Size 12.75 inches OD x 48 inch tube length x 82 inches OAL. Heat exchange area 63 ; Lugs for vertical hanging. See links for drawings and U-1 form. Last used as First Effect Vent Condenser. | Canton, IL |
| 5885 | Heat Exchanger, Shell & Tube 70sf | Doyle & Roth 8" dia x 12 ft 70 Sq Ft Used Doyle & Roth 70 square foot stainless steel heat exchanger. 316 stainless steel 8" diameter x 12 ft. long. Rated 150 psi @ 350°F shell and tube side. Built 20 | New Jersey |

| ID | Name | Description | Location |
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| E-4303 | Heat Exchanger, shell & tube 7848 sf | DCR Construction BEM 4 ft dia x 24 ft tall 7,848 Sq Ft Heat exchanger shell & tube. Size 49" OD x 288" long. Vertical on lugs. Has 1248 tubes at 1" OD for 7,848 sq ft surface area. Shell side water, tube side regen vapo Sn 4303-7793 ASME NB# 219 MAWP shell 150 psig/FV at 200F/tube 75 psig/FV at 500F. TEMA Design BEM CLASS: C. Material CS Shell/SS304 Tubes. Used as Regen Vacuum Condenser | Vicksburg, MS |
| E-4301 | Heat Exchanger, shell & tube 844 sf | DCR Construction BEM 23" dia x 184" lomg 844 Sq Ft Heat exchanger shell & tube by DCR. Size 23" x 184" long, horizontal on saddles. Has 273 ss304 tubs at 1" OD for surface area of 844.3 sq ft. Sn 4301-7793. ASME NB# T005 MAWP shell 150 psig at 400F/tubes 75 psig at 300F. TEMA Design BEM CLASS C. Material CS Shell/SS304 Tubes. Shell side steam/tube side ethanol. Used as SuperHeater | Vicksburg, MS |
| ET-4105 | Heat Exchanger, Shell & Tubee 126sf | Yula WC-1F-72CS 14" x 122" BEM 126 Sq Ft Condenser heat exchanger, shell & tube, Yula model WC-1F-72cs. TEMA type BEM. Capacity 0.35 MMBTUH. Material 304 SS/CS Mfg by Yula ser num 20086, ASME NB# 12473 MAWP shell 100 psi at 250F/tunes FV/100 psi at 250F. Size 14" OD x 122" OAL. TEMA type BEM. Heat exchange area 126 sf. One pass shell cs, 80 tubes 1" dia ss304L. U-1 form and drawing available - see link attachments. Last used as CO2 Flash Reflux Condenser | Canton, IL |
| 320-EX-360 | Heat Exchanger, Spiral | Alfa Laval Alfa Laval spiral heat exchanger surface area 172 sq ft, ASME Nat'l Bd # 16360 MAWP 150 psi at 500F. Mfg by Alfa Laval ser no. 23265 in 1998. Material: Head SA-70 cs / shell ss316 stainless steel. Purchased used in 2008, operated about 9 months, then idled in heated process area. Last used as Clean Oil Spiral Heat Exchanger. Part of Crush package. For a list of all components, enter "pkcrush" in the keyword search terms box. | Saskatchewan, Canada |
| 5847 | Heat Exchanger, Spiral 405sf | Alfa Laval 405 Sq Ft Heat Exchangers, Spiral wound Alfa Laval Qty. 4 (1) 405 sq ft, 1983, MFG # 15832 (2) 410 sq ft, 1983, MFG # 15829 (3) 410 sq ft, 1983, MFG # 15830 (4) 410 sq ft, 1983, MFG # 15827 | Kansas |
| 2040 | Heat Transfer Plates (4) | Heat transfer plates. Used as heat for barge hold tanks. Set of 4 - priced for the lot. MAWP 65 psi at 320 F. Stainless steel | Staten Island, NY |
| 6018 | Plate Heat Exchanger 6,313sf | Alfa Laval AX35-FG 4'7"W X 11'5"H X 12'6"L 6,313 Sq Ft Alfa Laval Plate heat exchanger. Model AX35-FG. 6313 SF. A series of vertical corrugated heat exchange plates are held together between the end plates of a horizontal screw compression type frame. The plates are separated by flexible, O-ring type, gaskets. Process fluid and heat exchange. Model AX35-FG. 6313 SF. PLATES:316SS, FRAME:CS, PLATES:295 @ 0.5 mm thick plates approx., FRAME CAPACITY:Pack length min. 45.5" approx., 150# MAWP @ 225°F. ASME N.Bd., 14" in/out. 1-pass., PRIOR SVC:Cooling water vs vessel jacket water | Texas |
| ET-4104 | Reboiler condenser ss 4712 sf | pache Stainless Products 4,712 sf 3.75" dia x 50 ft tall ss304L 11 MMBTU Reboiler, vertical on skirt.. Shell & tubes ss304L, skirt cs. Capacity 11.4 MMBTUH. Mfg by Apache ser num 11031-3, ASME NB# 1524, MAWP shell 75 psi at 250F, tubes 25 psi @ 220F. Size 3'-8" dia x 50 ft s/s with 8 ft cs skirt. Has 300 tubes 1.5" dia x Tube length 40 ft. = 4,712 sq ft heat exchange area. See link for drawings. Last used as Thermal Kinetics Stripper Reboiler/Anhydr. Reflux Condenser | Canton, IL |
| ET-4103 | Reboiler Condenser ss 9424sf | ache Stainless Equipment 9,424 sf 4.5 dia x 50 ft ss316 25 MMBTU Reboiler, vertical - materials shell & tube ss316/cs skirt. Capacity 25.3 MMBTUH. Size 4'-6" dia x 50 ft s/s . Has 8 ft cs skirt. Mfg by Apache ser num 11031-2 , ASME Nat'l Bd# 1528,MAWP shell 75 psi at 250F, tubes 25 psi at 250F. Has 600 tubes 1.5" dia x 40 ft long = approx 9,424 sq ft heat exchange area. Last used as Thermal Kinetics Stripper Reboiler/Alc. Reflux Condenser | Canton, IL |
| ET-4102 | Reboiler Alcohol Condenser 1400sf | Thermal Kinetics 1400 sf 3.5' dia x 15.8' tall 43 MMBTU Thermal Kinetics Alcohol Column Reboiler capacity 43 MMBTUH Material 304L tubes/cs Shell. shell and Tube; TS: 75psig, 300F; 150psig, 300F. Size 3'-6" dia x 15 10" s/s with side. Tubes 12 ft long. - approx 300 tubes for approx 1400 sq ft heat transfer surface area. (No drawing - surface area estimated). Support lugs. Used as reboiler for alcohol column | Canton, IL |

| ID | Name | Description | Location |
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| E-4101 | Reboiler Condenser 11,050 sf | DCR Construction NEM 5 ft dia x 35.4 ft loing 11,050 Sq Ft Reboiler, condensing heat exchanger horizontal shell & tube on saddles mfg by DCR. Size approx 60" dia x 425" long. Has 1141 ss304 tubes 1.25" OD for surface area 11,050 sq ft. ASME NB# 233, MAWP shell 150 psig/FV at 400F & tubes 150 psig/FV at 300F. TEMA design NEM CLASS C. Material CS Shell/SS304 Tubes. Shell side saturated steam/tube side beer. Used as Beer Column Reboiler sn 4101-7793 | Vicksburg, MS |
| 7107 | Scraped Surface Heat Exchanger | Cherry Burrell Votator 6x72 0 . Cherry Burrell Votator Scraped Surface Heat Exchanger 6x72 single barrel. Used. Model 1C672L, S/N 35464VA. Driven by 20HP motor, 1755 rpm/230 rpm out. All wetted surfaces are stainless steel 304, barrel is Chromium plated Nickel. Has 4 rows of ss blades (24 total). MAWP shell 250 psig at 375F/-20F, jacket 150 psig at 375F/-20F. Heat exchange surface area 9 sq ft. Gear reducer Reynold ser No. 3455353, size 5. ratio 7.63:1, output 230 rpm. Volume in tube (product) 880 cu in, volume in jacket 1080 cu in. Physical weight of cylinder & tube is 1100 pounds. Total weight with frame & motor is approx 2500 pounds. Sold As Is - we can recondition for you for additional. Price includes removal & loading on your truck Sold As Is Where Is however, this unit can be reconditioned for additional cost. Cleaned, painted, inspected, new seal, new bearings - 3 month guarantee material and workmanship. New blades and barrel re-chrome are extra options | Ft Worth, TX |
| 7108 | Scraped Surface Heat Exchanger | Votator 6x72 0 . Votator Scraped Surface Heat Exchanger 6x72 single barrel. Model 6SSHE, S/N 90294EC, Mfg Number 00-17418, A5136. All wetted surfaces are stainless steel 304, barrel is Chromium plated Nickel. Has fours rows of ss blades (24 total). MAWP tube 400 psi at 375F/-20F, jacket 150 psig at 375F/-20F. Heat exchange surface area 9 cu ft. Volume in tube (product) 910 cu in, volume in jacket 2,000 cu in. Driven by 20HP motor 1755 rpm/222 rpm out Physical weight of cylinder & tube is 1150 pounds. Total weight with frame & motor is approx 2500 pounds. RD-?. Price includes removal & loading on your truck Sold As Is Where Is however, this unit can be reconditioned for additional cost. Cleaned, painted, inspected, new seal, new bearings - 3 month guarantee material and workmanship. New blades and barrel re-chrome are extra options | Ft Worth, TX |
| EP-2801 | Tank Heater | Enerquip . Polisher Feed Tank heater. Enerquip SN 18303. Shell side max. 75/FV psig @ 212F. Min. -20F @ 75 psig. Part of FluidQuip BOS system (See asset FQ-BOS). Nc sold separately at this time. | Vicksburg, MS |
| ET-4301 | Vapor Condenser ss 3769 sf | JD Cousins . 66" x 66" x 480" long 3,769 Sq Ft JD Cousins Vapor Condenser - Tube bundle in rectangular case for use in tower with 2-75HP fans. Capacity 4.8 MMBTUH Material tubes ss304L/CS. 180 tubes @ 2" OD each x 480 in long = approx 3,769 sq ft heat exchange area. - rectangular size approx 66" x 66" x 480" long. Heat exchange area 2160 sf. Mfg by JD Cousin ser num 606-6, ASME NB# 7996 MAWP tubes FV/35psig at 250F; See link for drawings and U-1 form. Last used for Vapor Condenser for regenerated material at DDE cooling tower. | Canton, IL |
| ET-4204 | Vapor Condenser ss 8377 sf | JD Cousins . 24" OD x 480" ss304L 46 MMBTU Vapor Condenser - Tube bundle in rectangular case for use in tower with 2-100HP fans. Capacity 45.7 MMBTUH Material ss304L tubes - 400 tubes at 2" OD x 480 long = approx 8,377 sq ft heat transfer area. Mfg by JD Cousins ser num 606-5A, ASME NB# 7997 MAWP Design: FV/25 psig at 250F. There are 2 sets of these tube like condensers priced separately - sn 606-5A and sn 606-5B. See links for drawings and U-1A forms. Last used as open style vapor condenser on DDE coolii tower. | Canton, IL |

Terms: All equipment is sold As Is Where Is, Subject to prior sale and availability. The equipment could be withdrawn from the market at any time with no prior notice. All quotes are in US Dollars unless specifically noted otherwise. Quotes are good for 30 days. Description of the equipment - especially those relating to capacity, size, or condition - are stated as clearly as possible for information to the buyer or observer. The descriptions and representations cannot be taken as accurate. The buyer has the sole responsibility to determine size, capacity, capability, suitability, condition, or any other attribute pertaining to the piece of equipment represented or purchased. The assets are sold "As Is", "Where Is" and "with all faults" and except as explicitly stated in the Bill of Sale. All warranties, including, without limitation, the warranties of merchantability, quality, and fitness for a particular purpose are hereby expressly excluded. Seller makes no representations or warranties as to design, condition, capacity, performance, or any other aspect of the asset.