

New Un-used Xchanger Inc. Heat Exchangers

Mfg: Xchanger Inc.

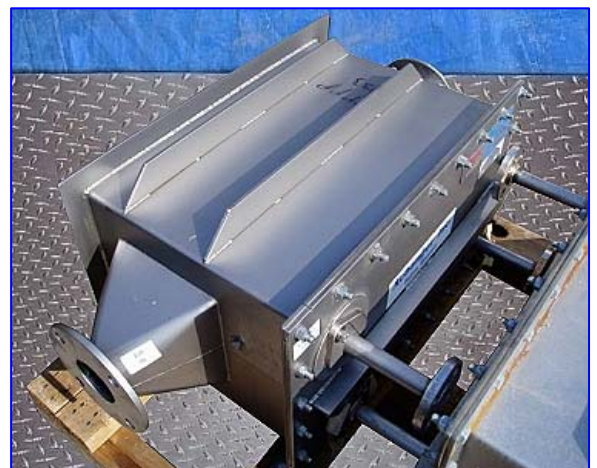
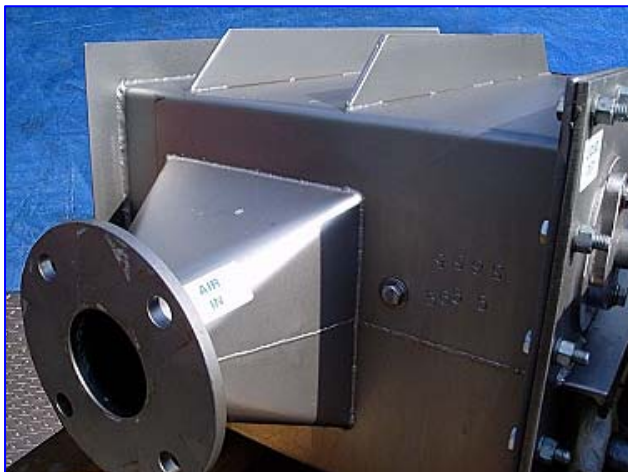
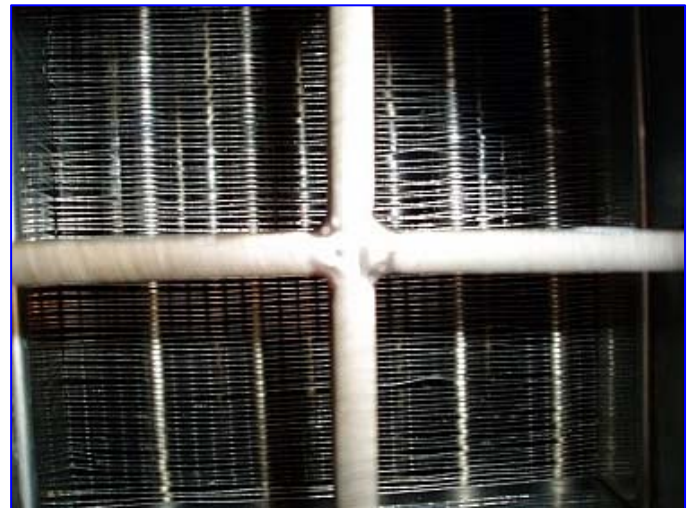
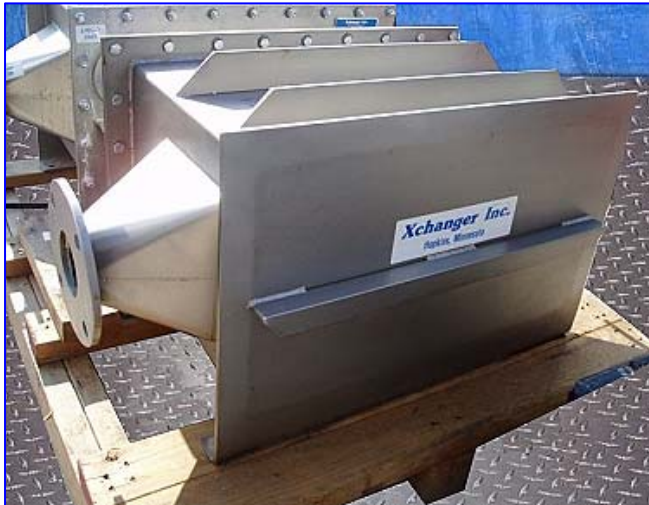
Model: C-075

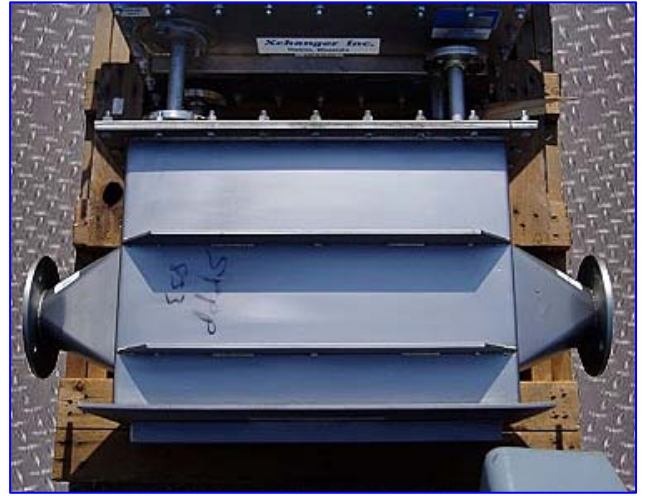
Stock No. SPPP833.3a

Serial No. 0298-B5655-1 and 0298-B5655-2

(2) New Un-used Xchanger Inc. Heat Exchangers. Model: C-075. S/N: 0298-B5655-1 and 0298-B5655-2. 304 stainless steel construction. Heat exchange capacity: 17,034 Btu/hr. Process media side (Nitrogen): volumetric flow rate: 315 cu. ft/min., temperature in/out: 120/70 °F, inlet pressure (absolute): 24.696 psi, velocity: 806.4 ft/min. Service media side (50% Ethylene Glycol): volumetric flow rate: 4.2 gpm, temperature in/out: 25/35 °F, velocity: 60 ft/min. Maximum pressure: 50 psi. Inlets: (1) 1 in. dia. coolant port with a 4 in. dia. flange and (4) 1/2 in. dia. thru holes at a center-to-center distance of 2-1/2 in., (1) 3 in. dia. air port with a 7-1/2 in. dia. flange and (4) 3/4 in. dia. thru holes at a center-to-center distance of 4-1/4 in. Outlets: (1) 1 in. dia. coolant port with a 4 in. dia. flange and (4) 1/2 in. dia. thru holes at a center-to-center distance of 2-1/2 in., (1) 3 in. dia. air port with a 7-1/2 in. dia. flange and (4) 3/4 in. dia. thru holes at a center-to-center distance of 4-1/4 in. Overall dimensions: 24 in. L x 17-1/2 in. W x 35 in. H. ACN77

C-Series heat exchangers heat and cool low pressure gas streams. Internal cores are removable through the front and back sides of housing with no need for disassembly. Fin-tube core. The fluid circuit consists of several parallel tube circuits which are designed to work "down hill" to prevent trapping.



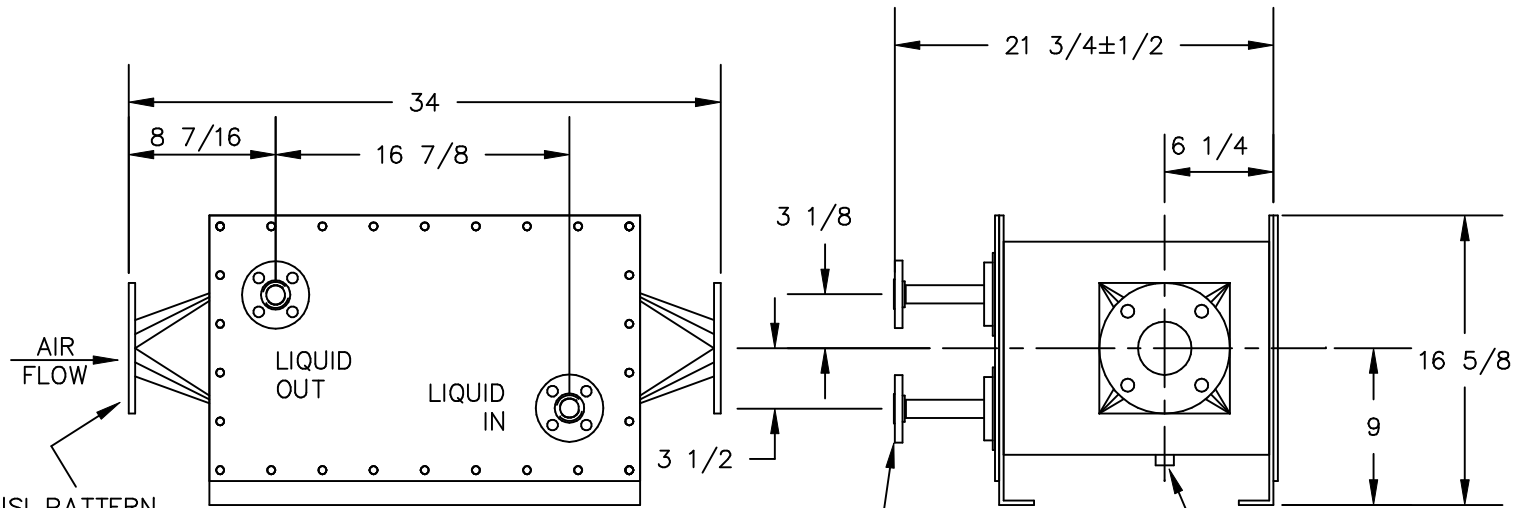


CERTIFIED

By MJR Date 12-7-95

XCHANGER INC.

24729



3" 150# ANSI PATTERN
PLATE FLANGE, 3/8 THK.
BOTH SIDES

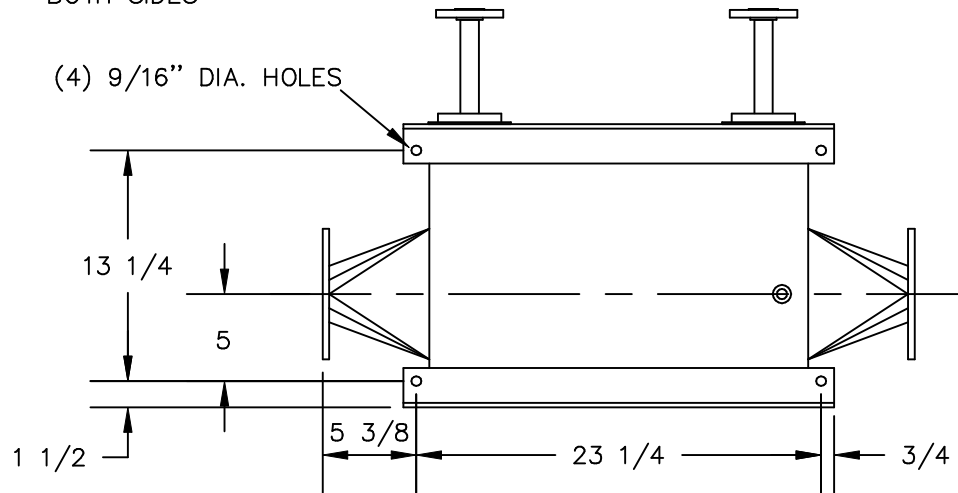
(2) 3/4" X 150# ANSI
R.F. FLANGE (THREADED
STAINLESS STEEL)

3/4 NPT HOUSING DRAIN

(4) 9/16" DIA. HOLES



BEST ENGINEERING
P.O.: 29843-168
FOUR (4) REQUIRED



BOTTOM VIEW

1. FASTENERS NOT IN PROCESS GAS CONTACT WILL BE ZINC PLATED STEEL, OTHERS WILL BE STAINLESS STEEL
2. AIR & LIQUID CONNECTIONS MUST BE AS SHOWN
3. PERFORMANCE AND CONSTRUCTION PER DATA SHEET DATED DECEMBER 5, 1995 REF. #19973
4. **CAUTION: This coil not drainable - protect from freezing**

TOLERANCES (UNLESS OTHERWISE NOTED)		Xchanger Inc. 1401 SOUTH 7TH ST HOPKINS, MN 55343			MODEL C-075 HEAT EXCHANGER ASSEMBLY			
DECIMAL ± .13	FRACTIONAL ± 1/8	DRAWN BY: MJR APPROVED BY:	SCALE: 1" = 1'-0" DATE: 12-7-95	JOB NUMBER B4456	SHEET 1 OF 1	DRAWING NUMBER 24729	REV. A	

1401 South 7th Street, Hopkins, MN 55343 Tel: (612) 933-2559, FAX: (612) 933-5647

1	Computer Sizing		DATE: December 5, 1995
2	Best Engineering		
3	Nick Kourassis		
4	PH: 714.288.8000, FAX: 714.288.3788		
5			
6	XCHANGER, INC. MODEL: C-075		ENGINEER: Paul Boedecker REF #: 19973
7			
8	PERFORMANCE	PROCESS MEDIA SIDE	SERVICE MEDIA SIDE
9	FLUID CIRCULATED	Nitrogen	Ethylene Glycol 50%
10	VOLUMETRIC FLOW RATE	315.0 Std. ft ³ /min	4.2 gal/min
11	TOTAL FLUID ENTERING	1,371.5 lb/hr	2,253.5 lb/hr
12	LIQUID		2,253.5 lb/hr
13	VAPOR		
14	NON-CONDENSIBLES	1,371.5 lb/hr	
15	VAPORIZED OR (COND.)		
16	TEMPERATURE IN	120.0 °F	25.0 °F
17	TEMPERATURE OUT	70.0 °F	35.0 °F
18	INLET PRESSURE (ABSOLUTE)	24.696 lb/in ²	
19	VELOCITY (STANDARD)	806.4 ft/min	1.0 ft/sec
20	PRESSURE LOSS	3.6 in. water	0.7 lb/in ²
21	FOULING FACTOR	0.00010 ft ² -°F-hr/BTU	0.00100 ft ² -°F-hr/BTU
22	TOTAL HEAT EXCHANGED: 17,034 BTU/hr		
23			
24	AVERAGE MEDIA PROPERTIES		
25	THERMAL CONDUCTIVITY	0.01502 BTU/hr-ft-°F	0.19067 BTU/hr-ft-°F
26	SPECIFIC HEAT	0.24840 BTU/lb-°F	0.75583 BTU/lb-°F
27	ABSOLUTE VISCOSITY	0.04406 lb/ft-hr	22.95083 lb/ft-hr
28	DENSITY	0.11652 lb/ft ³	67.03653 lb/ft ³
29	LATENT HEAT OF VAPOR		
30			
31	CONSTRUCTION		
32	DESIGN TEMPERATURE	-70 to 200 °F	-70 to 400 °F
33	DESIGN PRESSURE (GAUGE)	-5.5 to 11.0 lb/in ²	-15.0 to 200.0 lb/in ²
34	TEST PRESSURE (GAUGE)	16.5 lb/in ²	300.0 lb/in ²
35	CYCLIC PRESSURE	No	Not Applicable
36	TEST PROCEDURE	Hydro Test	Bubble Test
37	DESIGN CALCULATIONS	Not Supplied	Not Supplied
38	ASME CODE STAMP	Not Applicable	Not Applicable
39	TUBE MATERIAL : 304L Stainless Steel	HOUSING MATERIAL : 304 Stainless Steel	
40	FIN MATERIAL : 304 Stainless Steel	CASING MATERIAL : 304 Stainless Steel	
41	SEALANT MATERIAL : Silicone	PHENOLIC COATING : None	
42	REMOVABLE CORE : Yes, Front Only	MIST ELIMINATOR : None	
43	TUBE CIRCUIT TYPE: Trapped	WEIGHT (DRY/WET) : 221 / 227 lb	
44	ASM. DRAWING NO. : 10746	GAS FLOW DIR. : Horizontal	
45			
46	CONNECTIONS		
47	PROCESS INLET : 3" ANSI 150 lb pattern FFF, 3/8" thick		
48	PROCESS OUTLET : 3" ANSI 150 lb pattern FFF, 3/8" thick		
49	SERVICE INLET : 3/4" Pipe with 3/4" C.S. ANSI 150 lb RFF		
50	SERVICE OUTLET : 3/4" Pipe with 3/4" C.S. ANSI 150 lb RFF		
51			
52	NOTES		
53	Construction material suitability must be determined by customer.		
54	Rotary lobe blower type pulsation must be dampened by a chambered silencer.		
55	This unit is not designed for cycling process gas pressure.		
56			
57			
58			