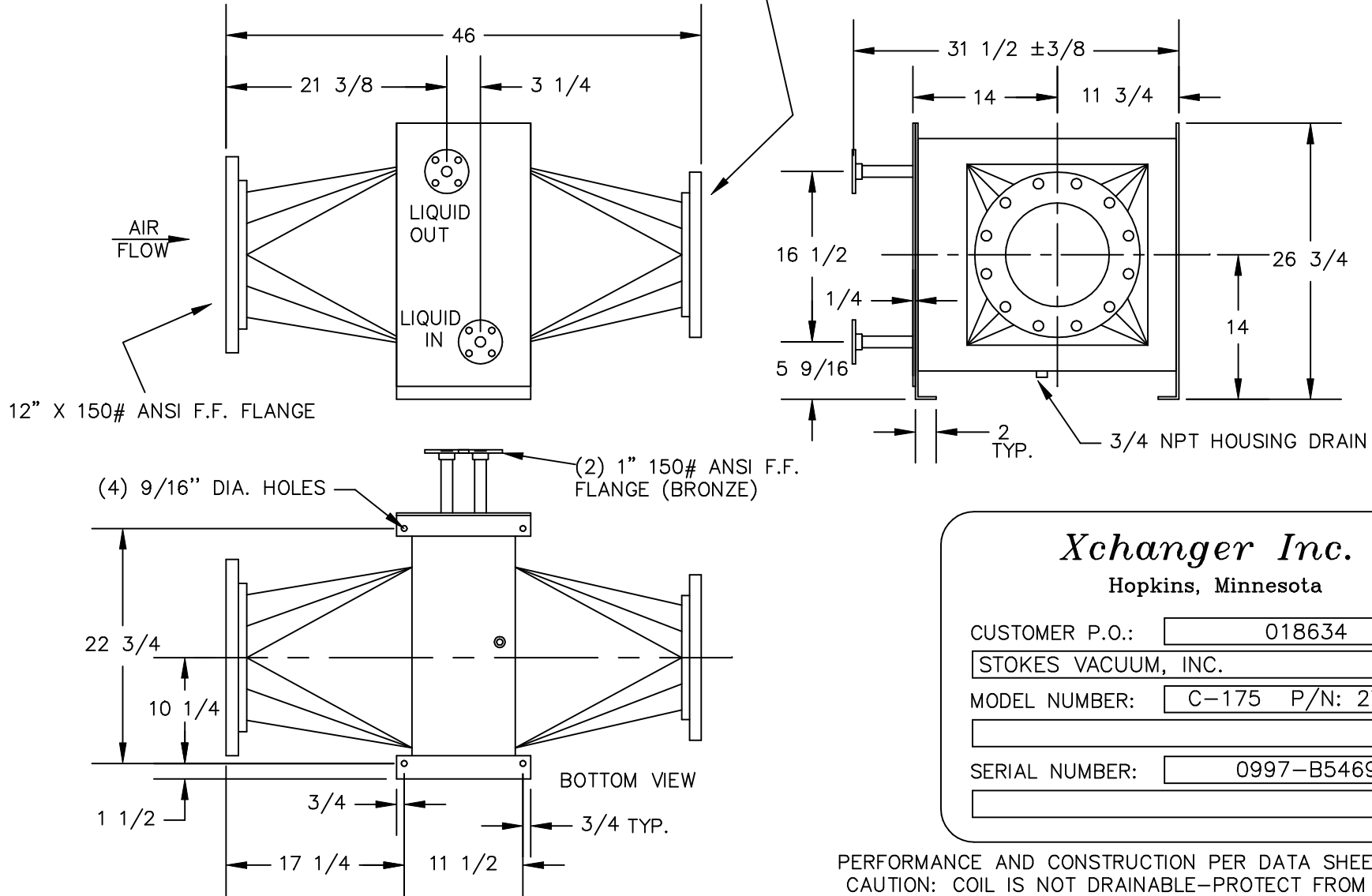


27748

10" X 150# ANSI F.F. FLANGE



Xchanger Inc.
Hopkins, Minnesota

CUSTOMER P.O.:

MODEL NUMBER:

SERIAL NUMBER:

PERFORMANCE AND CONSTRUCTION PER DATA SHEET #34985
CAUTION: COIL IS NOT DRAINABLE-PROTECT FROM FREEZING

TOLERANCES (UNLESS OTHERWISE NOTED)		Xchanger Inc. 1401 SOUTH 7TH ST HOPKINS, MN 55343		MODEL C-175 HEAT EXCHANGER ASSEMBLY		
DECIMAL ± .13	FRACTIONAL ± 1/8	DRAWN BY: MJR APPROVED BY: .	SCALE: NONE DATE: 04/16/98	JOB NUMBER B5469-1	SHEET 1 OF 1	DRAWING NUMBER 27748
				REV. B		

1	Xchanger, Inc. Rating for Model C-175 ref #34985		Page 1 of 1
2	Engineer: Aaron Groh		September 19, 1997
3	Prepared for:		
4	Stokes Vacuum, Inc.		
5	Rob Battalini		
6	PH: 215-831-5400, FAX: 215-831-5570		
7			
8	PERFORMANCE	PROCESS MEDIA SIDE	SERVICE MEDIA SIDE
9	Fluid Circulated	Air	Water
10	Volumetric Flow Rate	520.0 Std. ft ³ /min	7.0 gal/min
11	Total Fluid Entering	2,340.0 lb/hr	3,494.3 lb/hr
12	Liquid		3,494.3 lb/hr
13	Vapor		
14	Non-Condensibles	2,340.0 lb/hr	
15	Vaporized or (Cond.)		
16	Temperature In	265.0 °F	85.0 °F
17	Temperature Out	110.0 °F	110.0 °F
18	Inlet Pressure (Absolute)	50.008 mm Hg	
19	Velocity (Standard)	244.5 ft/min	2.0 ft/sec
20	Pressure Loss	2.9 in. water	0.5 lb/in ²
21	Fouling Factor	0.00010 ft ² -°F-hr/BTU	0.00100 ft ² -°F-hr/BTU
22	Total Heat Exchanged: 87,145 BTU/hr		
23			
24	AVERAGE MEDIA PROPERTIES		
25	Thermal Conductivity	0.01755 BTU/hr-ft-°F	0.35902 BTU/hr-ft-°F
26	Specific Heat	0.24027 BTU/lb-°F	0.99750 BTU/lb-°F
27	Absolute Viscosity	0.05140 lb/ft-hr	1.75949 lb/ft-hr
28	Density	0.00404 lb/ft ³	61.93893 lb/ft ³
29	Latent Heat of Vapor		
30			
31	CONSTRUCTION		
32	Design Temperature	0 to 300 °F	-70 to 400 °F
33	Design Pressure (Gauge)	-15.0 to 15.0 lb/in ²	-15.0 to 150.0 lb/in ²
34	Test Pressure (Gauge)	22.5 lb/in ²	300.0 lb/in ²
35	Cyclic Pressure	No	Not Applicable
36	Test Procedure	Bubble Test	Bubble Test
37	Design Calculations	Not Supplied	Not Supplied
38	ASME Code Stamp	Not Applicable	Not Applicable
39			
40	Tube Material : Copper	Housing Material : Carbon Steel	
41	Fin Material : Aluminum	Casing Material : Galvanized Steel	
42	Sealant Material : None	Phenolic Coating : None	
43	Removable core : No	Mist Eliminator : None	
44	Tube Circuit Type: Nontrapped	Gas Flow Dir. : Horizontal	
45	Drawing Number : 10746	Weight (Dry/Wet) : 314 / 321 lb	
46			
47	CONNECTIONS		
48	Process Inlet : 12" ANSI 150 lb RFF		
49	Process Outlet : 10" ANSI 150 lb RFF		
50	Service Inlet : 1 1/8" Tube with 1" Bronze ANSI 150 lb FFF		
51	Service Outlet : 1 1/8" Tube with 1" Bronze ANSI 150 lb FFF		
52			
53	NOTES		
54	Construction material suitability must be determined by customer.		
55	Rotary lobe blower type pulsation must be dampened by a chambered silencer.		
56	This unit must be protected from freezing.		
57	This unit is not designed for cycling process gas pressure.		
58			
59			
60			
61			
62			