	1998 Vilter Shell and Tube 18	ft. Ammonia Heat Exchanger
Mfg: Vilter		Model:
	Stock No. HDCD367.7	Serial No <u>.</u> H73946-1

1998 Vilter Shell and Tube 18 ft. Ammonia Heat Exchanger. S/N: H73946-1. Nat'l Bd: 41337. Number of passes: 4. Number of tubes: 121. Tube material: SA-124 carbon steel. Tube dimensions: 1-1/4 in. dia. x 18 ft. Heat transfer surface area: approx. 712 sq. ft. Shell side MAWP @ 400 °F: 300 psig. Shell side MDMT @ 300 psig: -20 °F. Tube side MAWP @ 200 °F: 75 psig. Tube side MDMT @ 75 psig: -20 °F. Heat exchanger is equipped with Hansen pressure relief valves. Inlets: (1) 3-1/2 in. dia. pipe (media), (1) 4 in. dia. pipe (product) with an 8-1/2 in. dia. flange and (8) 3/4 in. dia. attachment holes at a center-to-center distance of 6-1/2 in. Outlets: (1) 2 in. dia. Pipe (media), (1) 4 in. dia. pipe (product) with an 8-1/2 in. dia. flange at a center-to-center distance of 6-1/2 in. dia. attachment holes at a center-to-center distance of 6-1/2 in. dia. attachment holes at a center-to-center distance of 6-1/2 in. dia. attachment holes at a center-to-center distance of 6-1/2 in. dia. attachment holes at a center-to-center distance of 6-1/2 in. dia. attachment holes at a center-to-center distance of 6-1/2 in. dia. attachment holes at a center-to-center distance of 6-1/2 in. Shell: 20 in. dia. x 18 ft. L. Overall dimensions: 19 ft. L x 28 in. W x 70 in. H.

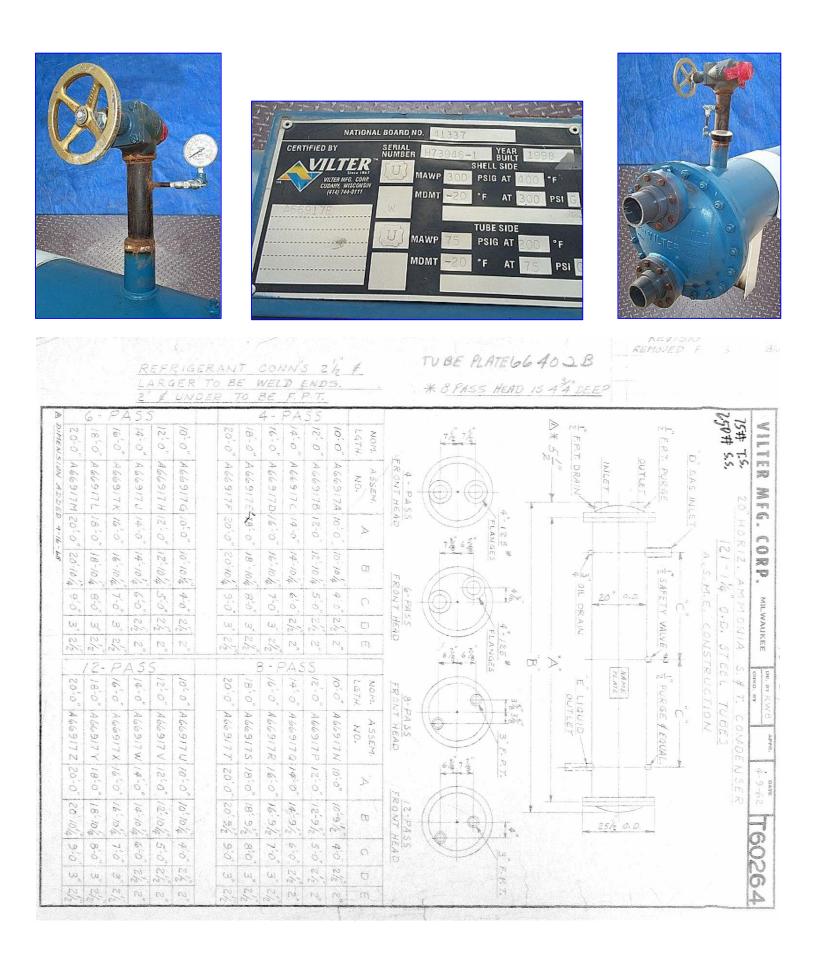












November 1977 Supersedes All Previous Issues

VILTER MANUFACTURING CORPORATION

SECTION 130-A PAGE 5

HORIZONTAL CLOSED SHELL AND TUBE TYPE AMMONIA CONDENSIES WITH $1\frac{1}{4}$, $0_{\circ}D_{\circ}$ TUBES

TABLE	5	GPM	AND	CONDENSER	RATTING	TABLE

Nominal Size	Total GPM based on 13 GPM/Tube/Pass — (300 FPM)			Tons Capacity 175 psig Condensing, 20 psig Suction, 13 GPM 75° Water/Tube/Pass (300 FPM)				
	4-Pass	6-Pass	8-Pass	12-Pass	4-Pass	6-Pass	8-Pass	12-Pass
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	136.5	91.	68	45,5	18.5 23.5 28.5 32.5 37.0 41.0 43.5 46.5	17.5 22.0 26.0 29.5 33.0 35.5 38.0 40.0	16.5 20.5 24.0 27.0 29.0 31.0 32.5 34.0	15.0 17.5 20.0 22.0 23.0 24.0 25.0 25.5
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	247	164	124	82	43.5 52.5 60.0 67.0 74.0 80.5 86.0	40.0 47.0 53.5 59.0 64.0 69.0 72.0	37.0 43.5 48.0 52.5 56.0 59.0 61.0	32.0 36.5 39.5 42.0 44.0 45.5 46.5
20 [#] x 10 [†] 20 [#] x 12 [†] 20 [#] x 14 [†] 20 [#] x 16 [†] 20 [#] x 18 [†] 20 [#] x 20 [†]	394	262	196	131	83.0 96.0 108 118 130 138	75.5 85.5 95.0 102 109 115	68,5 78,0 83,0 88,5 94,0 98,0	58.0 62.5 67.0 69.5 72.5 74.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	588	392	294	196	144 161 177 190 207	128 141 155 163 172	115 125 134 140 148	94.0 100 105 108 110
30 [#] x 12 [†] 30 [#] x 14 [†] 30 [#] x 16 [†] 30 [#] x 18 [†] 30 [#] x 20 [†]	946	630	473	315	230 259 285 310 330	207 228 245 265 277	1.85 202 214 226 236	151 160 167 173 178
36" x 12" 36" x 14" 36" x 16" 36" x 18" 36" x 18" 36" x 20"	1492	994	746	497	364 409 450 487 520	326 360 390 417 440	293 31.8 340 358 374	239 254 266 274 281
42" x 12" 42" x 14" 42" x 16" 42" x 16" 42" x 18" 42" x 20"	2070	1,380	1035	690	505 568 625 677 725	451, 499 541 575 606	405 440 470 496 51.8	332 352 370 380 390
48" x 12" 48" x 14" 48" x 16" 48" x 16" 48" x 18" 48" x 20"	2700	<i>1800</i>	1.350	900	660 743 815 885 947	590 651 705 750 793	527 575 617 646 675	431 458 480 497 511

PRINTED IN U. S. A.