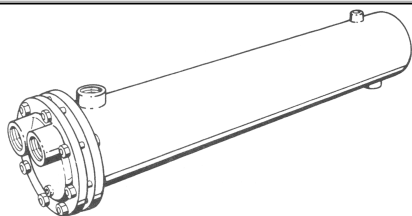


JOB: UNIT TAG: ENGINEER: CONTRACTOR:	REPRESENTATIVE: ORDER NO. SUBMITTED BY: APPROVED BY:	DATE: DATE: DATE:
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14" Series Type "WU" Heat Exchangers "U" Tube Design

DESCRIPTION

B & G Types "WU" Heat Exchangers are of the shell and tube type. The tube bundle is of "U" bend construction with tube ends expanded into a stationary tube sheet. This construction permits ample expansion or contraction for wide temperature variations. A fluid entering the tubes is heated or cooled by a fluid being circulated through a baffled shell. The unit is designed primarily for pumped circulation through the shell.

Standard "WU" Heat Exchangers are constructed according to ASME requirements for pressure and temperatures noted in table on back.

A Manufacturers' Data Report for Pressure Vessels, Form No. U-1, as required by the provisions of the ASME Code Rules, is furnished with each unit upon request. This form is signed by an authorized inspector, holding a national Board Commission, and who is employed by an authorized inspection agency, certifying that construction conforms to the latest ASME code for pressure vessels. The ASME "U" symbol is stamped on each vessel. In addition, each unit is registered with the national Board of Boiler and pressure Vessel Inspectors.

RECOMMENDED "WU" HEAT EXCHANGER

MODEL NO. _____

HEATING SURFACE (SQ. FT.) _____

TUBE SIDE

SHELL SIDE

1. Fluid Circulated.....
2. Total Flow Expressed in GPM, GRH or lbs./hr.....
3. Temperature In/Out.....
4. Transfer BTU/hr.....
5. Pressure Drop.....
6. Fouling Factor or Percentage of Additional Surface.....
- Note:** Following applies only to fluids other than water
7. Specific Gravity.....
8. Specific Heat.....
9. Latent Heat.....
10. Viscosity**.....
11. Thermal Conductivity.....

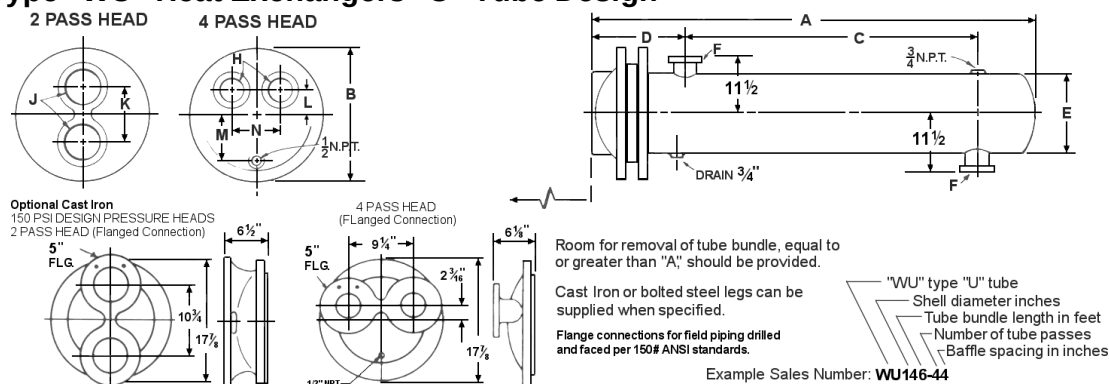
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APPROVALS

**Expressed in Proper Units and Temperature such as centipoises @ °F

14 " Series Type "WU" Heat Exchangers "U" Tube Design

C-131.5B



UNIT NUMBER.	DIMENSIONS IN INCHES								HEATING SURFACE	APPROX. SHIPPING WEIGHT
	2 PASS		2 AND 4 PASS							
	J	K	A	B	C	D	E	F		
WU144-24	6 NPT	8 (203)	57-1/8 (1451)	17-7/8 (454)	36-7/8 (937)	12 (305)	14 (356)	4 FLG	116 (10.8)	625 (284)
WU145-24	6 NPT	8 (203)	69-1/8 (1756)	17-7/8 (454)	48-7/8 (1241)	12 (305)	14 (356)	4 FLG	146 (13.6)	710 (322)
WU146-24	6 NPT	8 (203)	81-1/8 (2061)	17-7/8 (454)	60-7/8 (1546)	12 (305)	14 (356)	4 FLG	175 (16.3)	795 (361)
WU147-24	6 NPT	8 (203)	93-1/8 (2365)	17-7/8 (454)	72-7/8 (1851)	12 (305)	14 (356)	4 FLG	204 (19)	880 (399)
WU148-24	6 NPT	8 (203)	105-1/8 (2670)	17-7/8 (454)	84-7/8 (2156)	12 (305)	14 (356)	4 FLG	234 (21.7)	965 (438)
WU149-24	6 NPT	8 (203)	117-1/8 (2975)	17-7/8 (454)	96-7/8 (2461)	12 (305)	14 (356)	4 FLG	263 (24.4)	1050 (476)
WU144-28	6 NPT	8 (203)	57-1/8 (1451)	17-7/8 (454)	34-7/8 (886)	13 (330)	14 (356)	6 FLG	116 (10.8)	625 (284)
WU145-28	6 NPT	8 (203)	69-1/8 (1756)	17-7/8 (454)	46-7/8 (1191)	13 (330)	14 (356)	6 FLG	146 (13.6)	710 (322)
WU146-28	6 NPT	8 (203)	81-1/8 (2061)	17-7/8 (454)	58-7/8 (1495)	13 (330)	14 (356)	6 FLG	175 (16.3)	795 (361)
WU147-28	6 NPT	8 (203)	93-1/8 (2365)	17-7/8 (454)	70-7/8 (1800)	13 (330)	14 (356)	6 FLG	204 (19)	880 (399)
WU148-28	6 NPT	8 (203)	105-1/8 (2670)	17-7/8 (454)	82-7/8 (2105)	13 (330)	14 (356)	6 FLG	234 (21.7)	965 (438)
WU149-28	6 NPT	8 (203)	117-1/8 (2975)	17-7/8 (454)	94-7/8 (2410)	13 (330)	14 (356)	6 FLG	263 (24.4)	1050 (476)

UNIT NUMBER.	DIMENSIONS IN INCHES										HEATING SURFACE	APPROX. SHIPPING WEIGHT
	4 PASS				2 AND 4 PASS							
	H	L	M	N	A	B	C	D	E	F		
WU144-44	4 NPT	3-5/16 (84)	6-9/16 (167)	5-7/8 (149)	57-1/8 (1451)	17-7/8 (454)	36-7/8 (937)	12 (305)	14 (356)	4 FLG	111 (10.3)	625 (284)
WU145-44	4 NPT	3-5/16 (84)	6-9/16 (167)	5-7/8 (149)	69-1/8 (1756)	17-7/8 (454)	48-7/8 (1241)	12 (305)	14 (356)	4 FLG	139 (12.9)	710 (322)
WU146-44	4 NPT	3-5/16 (84)	6-9/16 (167)	5-7/8 (149)	81-1/8 (2061)	17-7/8 (454)	60-7/8 (1546)	12 (305)	14 (356)	4 FLG	167 (15.5)	795 (361)
WU147-44	4 NPT	3-5/16 (84)	6-9/16 (167)	5-7/8 (149)	93-1/8 (2365)	17-7/8 (454)	72-7/8 (1851)	12 (305)	14 (356)	4 FLG	196 (18.2)	880 (399)
WU148-44	4 NPT	3-5/16 (84)	6-9/16 (167)	5-7/8 (149)	105-1/8 (2670)	17-7/8 (454)	84-7/8 (2156)	12 (305)	14 (356)	4 FLG	224 (20.8)	965 (438)
WU149-44	4 NPT	3-5/16 (84)	6-9/16 (167)	5-7/8 (149)	117-1/8 (2975)	17-7/8 (454)	96-7/8 (2461)	12 (305)	14 (356)	4 FLG	252 (23.4)	1050 (476)
WU144-48	4 NPT	3-5/16 (84)	6-9/16 (167)	5-7/8 (149)	57-1/8 (1451)	17-7/8 (454)	34-7/8 (886)	13 (330)	14 (356)	6 FLG	111 (10.3)	626 (284)
WU145-48	4 NPT	3-5/16 (84)	6-9/16 (167)	5-7/8 (149)	69-1/8 (1756)	17-7/8 (454)	46-7/8 (1191)	13 (330)	14 (356)	6 FLG	139 (12.9)	710 (322)
WU146-48	4 NPT	3-5/16 (84)	6-9/16 (167)	5-7/8 (149)	81-1/8 (2061)	17-7/8 (454)	58-7/8 (1495)	13 (330)	14 (356)	6 FLG	167 (15.5)	795 (361)
WU147-48	4 NPT	3-5/16 (84)	6-9/16 (167)	5-7/8 (149)	93-1/8 (2365)	17-7/8 (454)	70-7/8 (1800)	13 (330)	14 (356)	6 FLG	196 (18.2)	880 (399)
WU148-48	4 NPT	3-5/16 (84)	6-9/16 (167)	5-7/8 (149)	105-1/8 (2670)	17-7/8 (454)	82-7/8 (2105)	13 (330)	14 (356)	6 FLG	224 (20.8)	965 (438)
WU149-48	4 NPT	3-5/16 (84)	6-9/16 (167)	5-7/8 (149)	117-1/8 (2975)	17-7/8 (454)	94-7/8 (2410)	13 (330)	14 (356)	6 FLG	252 (23.4)	1050 (476)

Dimensions are subject to change. If exact dimensions are needed for layout, write for certified prints.

DESIGN PRESSURES				DESIGN TEMPERATURES* TUBE & SHELL SIDE	
TUBE SIDE		SHELL SIDE			
DESIGN	TEST	DESIGN	TEST	CAST IRON	BRASS
125 psi	250 psi	150 psi	300 psi	375 °F	300 °F
2 & 4 Pass Head (Flanged Connections) Cast Only					
150 psi	300 psi	150 psi	300 psi	375 °F	-

*For design pressures and temperatures higher than shown, consult B & G Representative for specifications and dimensions.

PART	STANDARD CAST IRON UNIT	BRASS UNIT
	2 & 4	2 & 4 Pass
Shell	Steel	Steel
Head	Cast Iron	Cast Brass
Tubes 3/4" O.D.	Cooper	Cooper
Tubesheets	Steel	Royal Naval Brass
Baffles	Steel	Steel
Nuts & Bolts	Steel	Steel

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