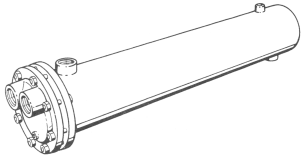


JOB:	REPRESENTATIVE:	
UNIT TAG:	ORDER NO.	DATE:
ENGINEER:	SUBMITTED BY:	DATE:
CONTRACTOR:	APPROVED BY:	DATE:



16" 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 the 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

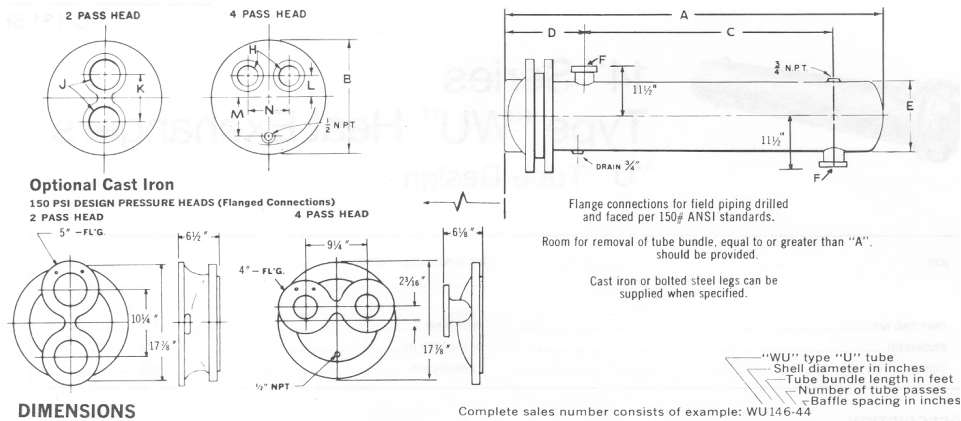
MODEL NO. _____

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	_____	_____

APPROVALS

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



UNIT NUMBER.	DIMENSIONS IN INCHES								HEATING SURFACE	APPROX. SHIPPING WEIGHT
	2 PASS		2 AND 4 PASS							
	J	K	A	B	C	D	E	F		
WU164-25	6 NPT	9-1/8(232)	57-3/4(1467)	19-7/8(505)	34(864)	14(356)	16(406)	6 FLG	150 (13.9)	775 (352)
WU165-25	6 NPT	9-1/8(232)	69-3/4(1772)	19-7/8(505)	46(1168)	14(356)	16(406)	6 FLG	188 (17.5)	880 (399)
WU166-25	6 NPT	9-1/8(232)	81-3/4(2076)	19-7/8(505)	58(1473)	14(356)	16(406)	6 FLG	227 (21.1)	985 (447)
WU167-25	6 NPT	9-1/8(232)	93-3/4(2381)	19-7/8(505)	70(1778)	14(356)	16(406)	6 FLG	265 (24.6)	1090 (494)
WU168-25	6 NPT	9-1/8(232)	105-3/4(2686)	19-7/8(505)	82(2083)	14(356)	16(406)	6 FLG	304 (28.2)	1195 (542)
WU169-25	6 NPT	9-1/8(232)	117-3/4(2991)	19-7/8(505)	94(2388)	14(356)	16(406)	6 FLG	342 (31.8)	1300 (590)
WU164-210	6 NPT	9-1/8(232)	57-3/4(1467)	19-7/8(505)	31-3/4(806)	16(406)	16(406)	8 FLG	150 (13.9)	775 (352)
WU165-210	6 NPT	9-1/8(232)	69-3/4(1772)	19-7/8(505)	43-3/4(1111)	16(406)	16(406)	8 FLG	188 (17.5)	880 (399)
WU166-210	6 NPT	9-1/8(232)	81-3/4(2076)	19-7/8(505)	55-3/4(1416)	16(406)	16(406)	8 FLG	227 (21.1)	985 (447)
WU167-210	6 NPT	9-1/8(232)	93-3/4(2381)	19-7/8(505)	67-3/4(1721)	16(406)	16(406)	8 FLG	265 (24.6)	1090 (494)
WU168-210	6 NPT	9-1/8(232)	105-3/4(2686)	19-7/8(505)	79-3/4(2026)	16(406)	16(406)	8 FLG	304 (28.2)	1195 (542)
WU169-210	6 NPT	9-1/8(232)	117-3/4(2991)	19-7/8(505)	91-3/4(2330)	16(406)	16(406)	8 FLG	342 (31.8)	1300 (590)

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		
WU164-45	4 NPT	4(102)	7-9/16(192)	8(203)	57-3/4(1467)	19-7/8(505)	34(864)	14(356)	16(406)	6 FLG	143 (13.3)	775 (352)
WU165-45	4 NPT	4(102)	7-9/16(192)	8(203)	69-3/4(1772)	19-7/8(505)	46(1168)	14(356)	16(406)	6 FLG	180 (16.7)	880 (399)
WU166-45	4 NPT	4(102)	7-9/16(192)	8(203)	81-3/4(2076)	19-7/8(505)	58(1473)	14(356)	16(406)	6 FLG	218 (20.3)	985 (447)
WU167-45	4 NPT	4(102)	7-9/16(192)	8(203)	93-3/4(2381)	19-7/8(505)	70(1778)	14(356)	16(406)	6 FLG	254 (23.6)	1090 (494)
WU168-45	4 NPT	4(102)	7-9/16(192)	8(203)	105-3/4(2686)	19-7/8(505)	82(2083)	14(356)	16(406)	6 FLG	291 (27)	1195 (542)
WU169-45	4 NPT	4(102)	7-9/16(192)	8(203)	117-3/4(2991)	19-7/8(505)	94(2388)	14(356)	16(406)	6 FLG	327 (30.4)	1300 (590)
WU164-410	4 NPT	4(102)	7-9/16(192)	8(203)	57-3/4(1467)	19-7/8(505)	31-3/4(806)	16(406)	16(406)	8 FLG	143 (13.3)	775 (352)
WU165-410	4 NPT	4(102)	7-9/16(192)	8(203)	69-3/4(1772)	19-7/8(505)	43-3/4(1111)	16(406)	16(406)	8 FLG	180 (16.7)	880 (399)
WU166-410	4 NPT	4(102)	7-9/16(192)	8(203)	81-3/4(2076)	19-7/8(505)	55-3/4(1416)	16(406)	16(406)	8 FLG	218 (20.3)	985 (447)
WU167-410	4 NPT	4(102)	7-9/16(192)	8(203)	93-3/4(2381)	19-7/8(505)	67-3/4(1721)	16(406)	16(406)	8 FLG	254 (23.6)	1090 (494)
WU168-410	4 NPT	4(102)	7-9/16(192)	8(203)	105-3/4(2686)	19-7/8(505)	79-3/4(2026)	16(406)	16(406)	8 FLG	291 (27)	1195 (542)
WU169-410	4 NPT	4(102)	7-9/16(192)	8(203)	117-3/4(2991)	19-7/8(505)	91-3/4(2330)	16(406)	16(406)	8 FLG	327 (30.4)	1300 (590)

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

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

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

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

Caution:
A properly sized relief valve must be installed on the heated water side to protect heat exchangers from

possible damage due to volumetric expansion.

Xylem Inc.
8200 N. Austin Avenue
Morton Grove, IL 60053
Phone: (847)966-3700
Fax: (847)965-8379
www.bellgossett.com



Bell & Gossett is a trademark of Xylem Inc. or one of its subsidiaries.
© 2013 Xylem Inc.