



Bryan U-Tube Heat Exchangers

Steam to Water

Bryan's steam to water heat exchangers are built to offer long life and maximum performance in all applications, including service water, space heating, radiation, swimming pool heating and various process applications.

These instantaneous heaters operate with steam on the shellside and water on the tubeside. Bryan offers U-tube heat exchangers in sizes ranging from 4" diameter to 12" diameter and lengths up to 10', in both two pass and four pass designs.

Material of construction

Heads: Cast iron
 Tube Sheets: Steel
 Shell: Steel
 Baffles: Steel
 Bolting: Steel
 Tubes: 3/4 " O. D. copper

Units are available with optional materials of construction, such as brass, copper, cupro-nickel or other alloys as specified.

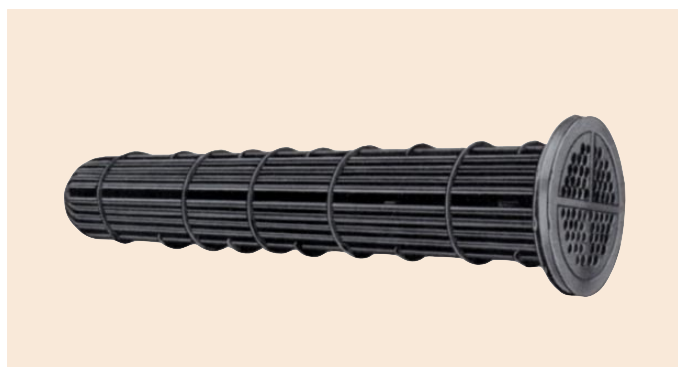
Typical specifications

Furnish and install _____ (quantity) each shell and tube exchanger(s) designed and constructed in accordance with the latest edition of the ASME code for _____ psi maximum working pressure. Each unit shall heat gpm of water from _____°F to _____°F with _____ psig of water cooled from _____°F to _____°F psig with _____ fouling factor.

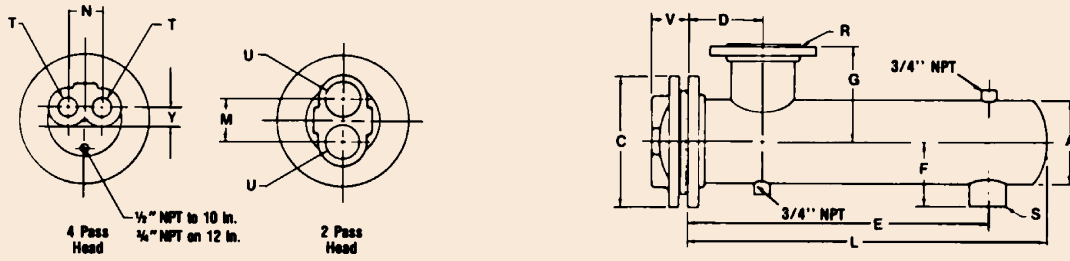
Rating of standard units

Shell Diam.	Maximum Pressure Tubes		Shell	Maximum Operating Temperature
	2 pass	4 pass		
4"	150	150	150	375°
6"	150	150	150	375°
8"	150	150	150	375°
10"	125	150	150	375°
12"	125	150	150	375°

Consult factory for working pressure and temperature higher than standard, as well as changes resulting from differences in optional construction materials.



Bryan Steam to Water Heat Exchanger



Model Number		Cast Iron Heads						Dimensions (inches)										Heating Surface (sq ft)	Shipping Weight (lbs)
2 Pass	4 Pass	2 Pass		4 Pass				2 and 4 Pass											
4 Inch Diameter		M	U	N	T	Y	V	A	C	D	E	F	G	L	R	S			
US4-2-2	US4-2-4	2½	1¼T	2 ³ / ₈	1T	7 ⁷ / ₈	2 ⁷ / ₈	4½	9	5	19½	4 ⁵ / ₈	4¾	24½	1¼T	1T	4.6	65	
US4-3-2	US4-3-4	2½	1¼T	2 ³ / ₈	1T	7 ⁷ / ₈	2 ⁷ / ₈	4½	9	5	31½	4 ⁵ / ₈	4¾	36½	1¼T	1T	7.0	75	
US4-4-2	US4-4-4	2½	1¼T	2 ³ / ₈	1T	7 ⁷ / ₈	2 ⁷ / ₈	4½	9	5	43½	4 ⁵ / ₈	4¾	48½	1¼T	1T	9.3	84	
US4-5-2	US4-5-4	2½	1¼T	2 ³ / ₈	1T	7 ⁷ / ₈	2 ⁷ / ₈	4½	9	5	55½	4 ⁵ / ₈	4¾	60½	1¼T	1T	11.7	94	
US4-6-2	US4-6-4	2½	1¼T	2 ³ / ₈	1T	7 ⁷ / ₈	2 ⁷ / ₈	4½	9	5	67½	4 ⁵ / ₈	4¾	72½	1½T	1T	14.1	104	
US4-7-2	US4-7-4	2½	1¼T	2 ³ / ₈	1T	7 ⁷ / ₈	2 ⁷ / ₈	4½	9	5	79½	4 ⁵ / ₈	4¾	84½	1½T	1T	16.4	114	
6 Inch Diameter																			
US6-2-2	US6-2-4	4T	2T	3¾	1½T	1¼	3 ⁷ / ₁₆	6 ⁵ / ₈	11	5	18½	5 ⁵ / ₈	6	25	1½T	1T	9.1	120	
US6-3-2	US6-3-4	4	2T	3¾	1½T	1¼	3 ⁷ / ₁₆	6 ⁵ / ₈	11	5	30½	5 ⁵ / ₈	6	37	2T	1T	13.8	148	
US6-4-2	US6-4-4	4	2T	3¾	1½T	1¼	3 ⁷ / ₁₆	6 ⁵ / ₈	11	5	42½	5 ⁵ / ₈	5	49	2½T	1T	18.5	182	
US6-5-2	US6-5-4	4	2T	3¾	1½T	1¼	3 ⁷ / ₁₆	6 ⁵ / ₈	11	5	54½	5 ⁵ / ₈	5	61	2½T	1T	23.2	207	
US6-6-2	US6-6-4	4	2T	3¾	1½T	1¼	3 ⁷ / ₁₆	6 ⁵ / ₈	11	5	66½	5 ⁵ / ₈	6 ⁷ / ₈	73	3T	1T	27.9	235	
US6-7-2	US6-7-4	4	2T	3¾	1½T	1¼	3 ⁷ / ₁₆	6 ⁵ / ₈	11	5	78½	5 ⁵ / ₈	6 ⁷ / ₈	85	3T	1T	32.6	262	
US6-8-2	US6-8-4	4	2T	3¾	1½T	1¼	3 ⁷ / ₁₆	6 ⁵ / ₈	11	5	90½	5 ⁵ / ₈	6 ⁷ / ₈	97	3T	1T	37.3	290	
8 Inch Diameter																			
US8-2-2	US8-2-4	4½	3T	4½	2T	1½	3 ⁷ / ₈	8 ⁵ / ₈	13½	7	18	6 ⁷ / ₈	9 ⁵ / ₁₆	26¼	4F	1½T	16.5	192	
US8-3-2	US8-3-4	4½	3T	4½	2T	1½	3 ⁷ / ₈	8 ⁵ / ₈	13½	7	30	6 ⁷ / ₈	9 ⁵ / ₁₆	38¼	4F	1½T	25.1	234	
US8-4-2	US8-4-4	4½	3T	4½	2T	1½	3 ⁷ / ₈	8 ⁵ / ₈	13½	7	42	6 ⁷ / ₈	9 ⁵ / ₁₆	50¼	4F	1½T	33.7	283	
US8-5-2	US8-5-4	4½	3T	4½	2T	1½	3 ⁷ / ₈	8 ⁵ / ₈	13½	8	54	6 ⁷ / ₈	9 ⁵ / ₁₆	62¼	6F	2T	42.4	326	
US8-6-2	US8-6-4	4½	3T	4½	2T	1½	3 ⁷ / ₈	8 ⁵ / ₈	13½	8	66	6 ⁷ / ₈	9 ⁵ / ₁₆	74¼	6F	2T	51.0	369	
US8-7-2	US8-7-4	4½	3T	4½	2T	1½	3 ⁷ / ₈	8 ⁵ / ₈	13½	8	78	6 ⁷ / ₈	9 ⁵ / ₁₆	86¼	6F	2T	59.7	390	
US8-8-2	US8-8-4	4½	3T	4½	2T	1½	3 ⁷ / ₈	8 ⁵ / ₈	13½	8	90	6 ⁷ / ₈	9 ⁵ / ₁₆	98¼	6F	2T	68.3	453	
US8-9-2	US8-9-4	4½	3T	4½	2T	1½	3 ⁷ / ₈	8 ⁵ / ₈	13½	8	102	6 ⁷ / ₈	9 ⁵ / ₁₆	110¼	6F	2T	76.9	496	
10 Inch Diameter																			
US10-2-2	US10-2-4	6¼	4T	5¼	3T	2	5 ¹ / ₁₆	10¾	16	7	18	8	10 ³ / ₈	27¼	4F	1½T	26.8	300	
US10-3-2	US10-3-4	6¼	4T	5¼	3T	2	5 ¹ / ₁₆	10¾	16	7	29	8	10 ³ / ₈	38¼	4F	1½T	40.9	353	
US10-4-2	US10-4-4	6¼	4T	5¼	3T	2	5 ¹ / ₁₆	10¾	16	8	40	8	10 ³ / ₈	49¼	6F	2T	55.0	415	
US10-5-2	US10-5-4	6¼	4T	5¼	3T	2	5 ¹ / ₁₆	10¾	16	8	53	8	10 ³ / ₈	62¼	6F	2T	69.2	476	
US10-6-2	US10-6-4	6¼	4T	5¼	3T	2	5 ¹ / ₁₆	10¾	16	8	65	8	10 ³ / ₈	74¼	6F	2T	83.3	537	
US10-7-2	US10-7-4	6¼	4T	5¼	3T	2	5 ¹ / ₁₆	10¾	16	8	76	8	10 ³ / ₈	85¼	6F	2T	97.5	598	
US10-8-2	US10-8-4	6¼	4T	5¼	3T	2	5 ¹ / ₁₆	10¾	16	8	89	8	10 ³ / ₈	98¼	6F	2T	111.6	660	
US10-9-2	US10-9-4	6¼	4T	5¼	3T	2	5 ¹ / ₁₆	10¾	16	8	101	8	10 ³ / ₈	110¼	6F	2T	125.7	721	
US10-10-2	US10-10-4	6¼	4T	5¼	3T	2	5 ¹ / ₁₆	10¾	16	8	113	8	10 ³ / ₈	122¼	6F	2T	139.9	782	
12 Inch Diameter																			
US12-3-2	US12-3-4	8	4T	5 ⁷ / ₈	3T	2½	5 ⁵ / ₁₆	12¾	19	10	28¼	9	11 ³ / ₈	36¼	4F	1¼T	58.6	510	
US12-4-2	US12-4-4	8	4T	5 ⁷ / ₈	3T	2½	5 ⁵ / ₁₆	12¾	19	10	40¼	9	11 ³ / ₈	48¼	6F	1¼T	79.0	596	
US12-5-2	US12-5-4	8	4T	5 ⁷ / ₈	3T	2½	5 ⁵ / ₁₆	12¾	19	10	52¼	9	11 ³ / ₈	60¼	6F	1½T	99.5	681	
US12-6-2	US12-6-4	8	4T	5 ⁷ / ₈	3T	2½	5 ⁵ / ₁₆	12¾	19	10	64¼	9	11 ³ / ₈	72¼	6F	2T	119.9	772	
US12-7-2	US12-7-4	8	4T	5 ⁷ / ₈	3T	2½	5 ⁵ / ₁₆	12¾	19	10	76¼	9	11 ³ / ₈	84¼	8F	2T	140.3	857	
US12-8-2	US12-8-4	8	4T	5 ⁷ / ₈	3T	2½	5 ⁵ / ₁₆	12¾	19	10	88¼	8 ¹ / ₈	11 ³ / ₈	96¼	8F	2½T	160.8	941	
US12-9-2	US12-9-4	8	4T	5 ⁷ / ₈	3T	2½	5 ⁵ / ₁₆	12¾	19	10	99¼	8 ¹ / ₈	11 ³ / ₈	108¼	8F	2½T	181.2	1027	
US12-10-2	US12-10-4	8	4T	5 ⁷ / ₈	3T	2½	5 ⁵ / ₁₆	12¾	19	10	111¼	8 ¹ / ₈	11 ³ / ₈	120¼	8F	2½T	201.6	1111	

Note: Dimensions are subject to change without notice. Consult factory for certified dimensions.



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