



Bryan U-Tube Heat Exchangers

Water to Water

Bryan's water 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 water 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 exchange'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 _____ gpm of water cooled from _____ °F to _____ °F with _____ fouling factor.

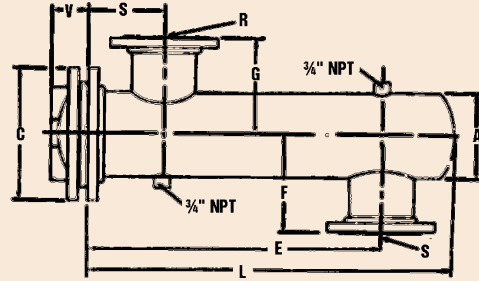
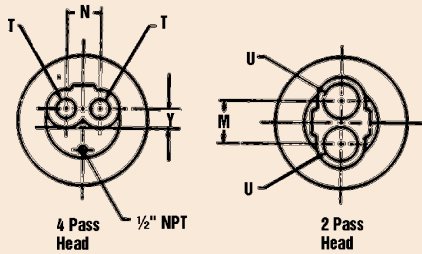
Rating of standard units				
Shell Diam.	Maximum Pressure Tubes		Shell	Maximum Operating Temperature
	2 pass	4 pass		
4"	150	150	150	375°
6"	150	150	150	375°
8"	150	150	150	375°
10"	125	150	150	375°
12"	125	150	150	375°

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



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Bryan Water 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		
UW4-2-2	UW4-2-4	2½	1¼T	2⅝	1T	⅞	2⅞	4½	9	5	19½	4¾	4¾	24½	1½T	1½T	4.6	65
UW4-3-2	UW4-3-4	2½	1¼T	2⅝	1T	⅞	2⅞	4½	9	5	31½	4¾	4¾	36½	1½T	1½T	7.0	75
UW4-4-2	UW4-4-4	2½	1¼T	2⅝	1T	⅞	2⅞	4½	9	5	43½	4¾	4¾	48½	1½T	1½T	9.3	84
UW4-5-2	UW4-5-4	2½	1¼T	2⅝	1T	⅞	2⅞	4½	9	5	55½	4¾	4¾	60½	1½T	1½T	11.7	94
UW4-6-2	UW4-6-4	2½	1¼T	2⅝	1T	⅞	2⅞	4½	9	5	67½	4¾	4¾	72½	1½T	1½T	14.1	104
UW4-7-2	UW4-7-4	2½	1¼T	2⅝	1T	⅞	2⅞	4½	9	5	79½	4¾	4¾	84½	1½T	1½T	16.4	114
UW4-8-2	UW4-8-4	2½	1¼T	2⅝	1T	⅞	2⅞	4½	9	5	91½	4¾	4¾	96½	1½T	1½T	18.8	124
UW4-9-2	UW4-9-4	2½	1¼T	2⅝	1T	⅞	2⅞	4½	9	5	103½	4¾	4¾	108½	1½T	1½T	21.1	134
UW4-10-2	UW4-10-4	2½	1¼T	2⅝	1T	⅞	2⅞	4½	9	5	115½	4¾	4¾	120½	1½T	1½T	23.5	144
6 Inch Diameter																		
UW6-2-2	UW6-2-4	4	2T	3¾	1½T	1¼	3⅞	6⅝	11	5	18½	4⅞	4⅞	25	2½T	2½T	9.1	120
UW6-3-2	UW6-3-4	4	2T	3¾	1½T	1¼	3⅞	6⅝	11	5	30½	4⅞	4⅞	37	2½T	2½T	13.8	148
UW6-4-2	UW6-4-4	4	2T	3¾	1½T	1¼	3⅞	6⅝	11	5	42½	4⅞	4⅞	49	2½T	2½T	18.5	182
UW6-5-2	UW6-5-4	4	2T	3¾	1½T	1¼	3⅞	6⅝	11	5	54½	4⅞	4⅞	61	2½T	2½T	23.2	207
UW6-6-2	UW6-6-4	4	2T	3¾	1½T	1¼	3⅞	6⅝	11	5	66½	4⅞	4⅞	73	2½T	2½T	27.9	235
UW6-7-2	UW6-7-4	4	2T	3¾	1½T	1¼	3⅞	6⅝	11	5	78½	4⅞	4⅞	85	2½T	2½T	32.6	262
UW6-8-2	UW6-8-4	4	2T	3¾	1½T	1¼	3⅞	6⅝	11	5	90½	4⅞	4⅞	97	2½T	2½T	37.3	290
UW6-9-2	UW6-9-4	4	2T	3¾	1½T	1¼	3⅞	6⅝	11	5	102½	4⅞	4⅞	109	2½T	2½T	42.1	318
UW6-10-2	UW6-10-4	4	2T	3¾	1½T	1¼	3⅞	6⅝	11	5	114½	4⅞	4⅞	121	2½T	2½T	46.8	346
8 Inch Diameter																		
UW8-2-2	UW8-2-4	4½	3T	4½	2T	1½	3⅞	8⅝	13½	7	18	8⅞	8⅞	26¼	3T	3T	16.5	192
UW8-3-2	UW8-3-4	4½	3T	4½	2T	1½	3⅞	8⅝	13½	7	30	8⅞	8⅞	38¼	3T	3T	25.1	234
UW8-4-2	UW8-4-4	4½	3T	4½	2T	1½	3⅞	8⅝	13½	7	42	8⅞	8⅞	50¼	3T	3T	33.7	283
UW8-5-2	UW8-5-4	4½	3T	4½	2T	1½	3⅞	8⅝	13½	7	54	8⅞	8⅞	62¼	3T	3T	42.4	326
UW8-6-2	UW8-6-4	4½	3T	4½	2T	1½	3⅞	8⅝	13½	7	66	8⅞	8⅞	74¼	3T	3T	51.0	369
UW8-7-2	UW8-7-4	4½	3T	4½	2T	1½	3⅞	8⅝	13½	7	78	8⅞	8⅞	86¼	3T	3T	59.7	390
UW8-8-2	UW8-8-4	4½	3T	4½	2T	1½	3⅞	8⅝	13½	7	90	8⅞	8⅞	98¼	3T	3T	68.3	453
UW8-9-2	UW8-9-4	4½	3T	4½	2T	1½	3⅞	8⅝	13½	7	102	8⅞	8⅞	110¼	3T	3T	76.9	496
UW8-10-2	UW8-10-4	4½	3T	4½	2T	1½	3⅞	8⅝	13½	7	114	8⅞	8⅞	122¼	3T	3T	85.6	540
10 Inch Diameter																		
UW10-2-2	UW10-2-4	6¼	4T	5¼	3T	2	5⅞	10¾	16	7	18	10⅜	10⅜	27¼	4F	4F	26.8	300
UW10-3-2	UW10-3-4	6¼	4T	5¼	3T	2	5⅞	10¾	16	7	29	10⅜	10⅜	38¼	4F	4F	40.9	353
UW10-4-2	UW10-4-4	6¼	4T	5¼	3T	2	5⅞	10¾	16	7	40	10⅜	10⅜	49¼	4F	4F	55.0	415
UW10-5-2	UW10-5-4	6¼	4T	5¼	3T	2	5⅞	10¾	16	7	53	10⅜	10⅜	62¼	4F	4F	69.2	476
UW10-6-2	UW10-6-4	6¼	4T	5¼	3T	2	5⅞	10¾	16	7	65	10⅜	10⅜	74¼	4F	4F	83.3	537
UW10-7-2	UW10-7-4	6¼	4T	5¼	3T	2	5⅞	10¾	16	7	76	10⅜	10⅜	85¼	4F	4F	97.5	598
UW10-8-2	UW10-8-4	6¼	4T	5¼	3T	2	5⅞	10¾	16	7	89	10⅜	10⅜	98¼	4F	4F	111.6	660
UW10-9-2	UW10-9-4	6¼	4T	5¼	3T	2	5⅞	10¾	16	7	101	10⅜	10⅜	110¼	4F	4F	125.7	721
UW10-10-2	UW10-10-4	6¼	4T	5¼	3T	2	5⅞	10¾	16	7	113	10⅜	10⅜	122¼	4F	4F	139.9	782
12 Inch Diameter																		
UW12-3-2	UW12-3-4	8	4T	5⅞	3T	2½	5⅞	12¾	19	8	38¼	11⅜	11⅜	48¼	5F	5F	58.6	510
UW12-4-2	UW12-4-4	8	4T	5⅞	3T	2½	5⅞	12¾	19	8	50¼	11⅜	11⅜	60¼	5F	5F	79.0	596
UW12-5-2	UW12-5-4	8	4T	5⅞	3T	2½	5⅞	12¾	19	8	62¼	11⅜	11⅜	72¼	5F	5F	99.5	681
UW12-6-2	UW12-6-4	8	4T	5⅞	3T	2½	5⅞	12¾	19	8	74¼	11⅜	11⅜	84¼	5F	5F	119.9	772
UW12-7-2	UW12-7-4	8	4T	5⅞	3T	2½	5⅞	12¾	19	8	86¼	11⅜	11⅜	96¼	5F	5F	140.3	857
UW12-8-2	UW12-8-4	8	4T	5⅞	3T	2½	5⅞	12¾	19	8	98¼	11⅜	11⅜	108¼	5F	5F	160.8	941
UW12-9-2	UW12-9-4	8	4T	5⅞	3T	2½	5⅞	12¾	19	8	110¼	11⅜	11⅜	120¼	5F	5F	181.2	1027
UW12-10-2	UW12-10-4	8	4T	5⅞	3T	2½	5⅞	12¾	19	8	122¼	11⅜	11⅜	132¼	5F	5F	201.6	1111

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