

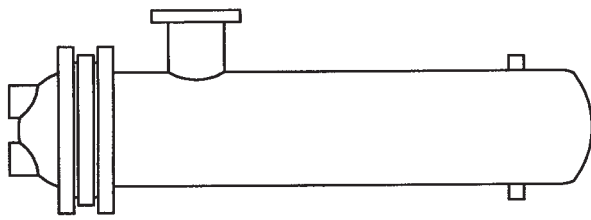
Steam to Liquid Heat Exchangers



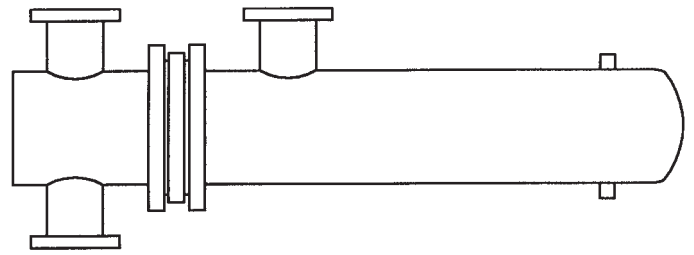
WATER CIRCULATION, FLOW CONTROL, AIR ELIMINATION, FLOW MEASUREMENT/BALANCING, TANKS

**Do it once.
Do it right.**





4" - 10"



12" - 30"

Features

- Constructed in accordance with ASME Section VIII.
- U-Tube construction.
- High degree of flexibility in materials to meet varying conditions.
- Available in 2, 4, or 6 pass construction.
- All fabrication done in-house.
- National board registration
- Designed and constructed to ASME requirements.
- CRN registration (optional).
- Computerized selections.

Pressure Ratings

	STANDARD	OPTIONAL
Tubes	150 psig	400 psig
Shell	150 psig	250 psig
Test Pressure	300 psig	
Max. Temperature	375°F	450°F

Materials of Construction

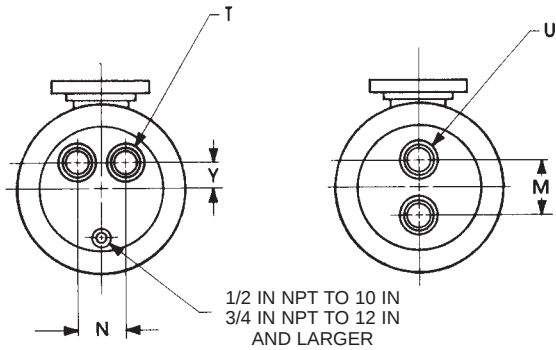
		STANDARD	OPTIONAL
Shell		Steel	304ss, 316ss,
Head	4" - 10"	Cast Iron	Fabricated Steel,
			Cast Bronze,
	12" - 30"	Fabricated Steel	Fabricated 304ss/316ss
Tubes		¾ x 20 BWG Copper	Fabricated 304ss/316ss
			¾ x 18 BWG Copper,
			Steel, 304ss,
			316ss, 90/10 CuNi,
			Admiralty
Tube Sheet		Steel	Bronze, Brass,
			304ss, 316ss,
			90/10 CuNi
Separators		Steel	Bronze, Brass,
			304ss, 316ss,
			90/10 CuNi
Tie Rods		Copper	304ss, 316ss
Nuts and Bolts		Steel	—



Typical Dimensions

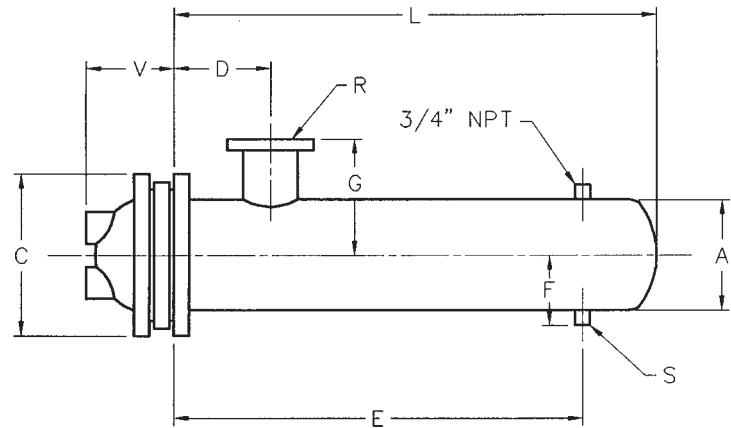
Model Number Key

G 8 2 18 S — Steam to water type
 Tube bundle length
 (this figure x 6 inches)
 Number of tube passes
 Nominal shell diameter
 U tube



4 Pass

2 Pass



(Note: Steam inlet (R) is threaded through G10204S)

4 Inch Diameter

Model Number		Cast Iron Heads						Dimensions (Inches)									G Code Heating Surface (Sq. Ft.)**	Shipping Weight (Lbs.)
2 Pass	4 Pass	2 Pass		4 Pass				2 and 4 Pass										
		M	U	N	T	Y	V	A	C*	D	E	F	G	L	R	S		
E4204S	G4404S	2 1/2	1 1/2T	2 3/8	1T	7/8	2 5/8	4 1/2	9	5	19 1/2	4	4	24 1/2	1 1/4T	1T	4.6	65
E4206S	G4406S	2 1/2	1 1/2T	2 3/8	1T	7/8	2 5/8	4 1/2	9	5	31 1/2	4	4	36 1/2	1 1/4T	1T	7.0	75
E4208S	G4408S	2 1/2	1 1/2T	2 3/8	1T	7/8	2 5/8	4 1/2	9	5	43 1/2	4	4	48 1/2	1 1/4T	1T	9.3	84
E4210S	G4410S	2 1/2	1 1/2T	2 3/8	1T	7/8	2 5/8	4 1/2	9	5	55 1/2	4	4	60 1/2	1 1/4T	1T	11.7	94
E4212S	G4412S	2 1/2	1 1/2T	2 3/8	1T	7/8	2 5/8	4 1/2	9	5	67 1/2	4	3 7/8	72 1/2	1 1/2T	1T	14.1	104
E4214S	G4414S	2 1/2	1 1/2T	2 3/8	1T	7/8	2 5/8	4 1/2	9	5	79 1/2	4	3 3/4	84 1/2	1 1/2T	1T	16.4	114
E4216S	G4416S	2 1/2	1 1/2T	2 3/8	1T	7/8	2 5/8	4 1/2	9	5	91 1/2	4	3 3/4	96 1/2	1 1/2T	1T	18.8	124
E4218S	G4418S	2 1/2	1 1/2T	2 3/8	1T	7/8	2 5/8	4 1/2	9	5	103 1/2	4	3 3/4	108 1/2	1 1/2T	1T	21.1	134
E4220S	G4420S	2 1/2	1 1/2T	2 3/8	1T	7/8	2 5/8	4 1/2	9	5	115 1/2	4	3 3/4	120 1/2	1 1/2T	1T	23.5	144

6 Inch Diameter

E6204S	G6404S	4	2 T	3 3/4	1 1/2 T	1 1/4	2 7/8	6 5/8	11	5	18 1/2	4 7/8	4 7/8	25	1 1/2 T	1 T	9.1	120
E6206S	G6406S	4	2 T	3 3/4	1 1/2 T	1 1/4	2 7/8	6 5/8	11	5	30 1/2	4 7/8	4 7/8	37	2 T	1 T	13.8	148
E6208S	G6408S	4	2 T	3 3/4	1 1/2 T	1 1/4	2 7/8	6 5/8	11	5	42 1/2	4 7/8	5 3/4	49	2 1/2	1 T	18.5	182
E6210S	G6410S	4	2 T	3 3/4	1 1/2 T	1 1/4	2 7/8	6 5/8	11	5	54 1/2	4 7/8	5 3/4	61	2 1/2	1 T	23.2	207
E6212S	G6412S	4	2 T	3 3/4	1 1/2 T	1 1/4	2 7/8	6 5/8	11	5	66 1/2	4 7/8	5 9/16	73	3 T	1 T	27.9	235
E6214S	G6414S	4	2 T	3 3/4	1 1/2 T	1 1/4	2 7/8	6 5/8	11	5	78 1/2	4 7/8	5 9/16	85	3 T	1 T	32.6	262
E6216S	G6416S	4	2 T	3 3/4	1 1/2 T	1 1/4	2 7/8	6 5/8	11	5	90 1/2	4 7/8	5 9/16	97	3 T	1 T	37.3	290
E6218S	G6418S	4	2 T	3 3/4	1 1/2 T	1 1/4	2 7/8	6 5/8	11	5	102 1/2	4 7/8	5 9/16	109	3 T	1 T	42.1	318
E6220S	G6420S	4	2 T	3 3/4	1 1/2 T	1 1/4	2 7/8	6 5/8	11	5	114 1/2	4 7/8	5 9/16	121	3 T	1 T	46.8	346

8 Inch Diameter

E8204S	G8404S	5	3 T	4	2 T	2	3 3/8	8 5/8	13 1/2	8	18	6	6	24	2 T	1 T	16.5	192
E8206S	G8406S	5	3 T	4	2 T	2	3 3/8	8 5/8	13 1/2	8	30	6	6 7/8	36	2 1/2 T	1 T	25.1	234
E8208S	G8408S	5	3 T	4	2 T	2	3 3/8	8 5/8	13 1/2	8	42	6	6 13/16	48	3 T	1 T	33.7	283
E8210S	G8410S	5	3 T	4	2 T	2	3 3/8	8 5/8	13 1/2	8	54	6	9 1/16	60	4 F	1 T	42.4	326
E8212S	G8412S	5	3 T	4	2 T	2	3 3/8	8 5/8	13 1/2	8	66	6	9 1/16	72	4 F	1 1/4 T	51.0	369
E8214S	G8414S	5	3 T	4	2 T	2	3 3/8	8 5/8	13 1/2	8	78	6	9 1/16	84	4 F	1 1/4 T	59.7	390
E8216S	G8416S	5	3 T	4	2 T	2	3 3/8	8 5/8	13 1/2	8	90	6	9 1/16	96	6 F	1 1/4 T	68.3	453
E8218S	G8418S	5	3 T	4	2 T	2	3 3/8	8 5/8	13 1/2	8	102	6	9 1/16	108	6 F	1 1/4 T	76.9	496
E8220S	G8420S	5	3 T	4	2 T	2	3 3/8	8 5/8	13 1/2	8	114	6	9 1/16	120	6 F	1 1/4 T	85.6	540

* Dimensions are ANSI. For TEMA, consult factory.

** E Code heating surfaces are equal or greater. Please consult submittals for actual heating surfaces.

30 Inch Diameter

Model Number		Fabricated Steel Heads								Dimensions (Inches)									G Code Heating Surface (Sq. Ft.)**	Shipping Weight (Lbs.)
2 Pass	4 Pass	2 Pass				4 Pass				2 and 4 Pass										
		P	U	V	Z	N	T	V	Z	A	C*	D	E	F	G	L	R	S		
E30206S	G30406S	42	14F	31 ⁷ / ₈	21 ¹ / ₈	20 ³ / ₄	10F	31 ⁷ / ₈	19 ⁵ / ₈	30	38 ³ / ₄	16	23	21 ¹ / ₂	22	38	16F	6F	377.6	2567
E30208S	G30408S	42	14F	31 ⁷ / ₈	21 ¹ / ₈	20 ³ / ₄	10F	31 ⁷ / ₈	19 ⁵ / ₈	30	38 ³ / ₄	16	35	21 ¹ / ₂	22	50	16F	6F	520.5	2886
E30210S	G30410S	42	14F	31 ⁷ / ₈	21 ¹ / ₈	20 ³ / ₄	10F	31 ⁷ / ₈	19 ⁵ / ₈	30	38 ³ / ₄	16	47	21 ¹ / ₂	22	62	16F	6F	663.4	3205
E30212S	G30412S	42	14F	31 ⁷ / ₈	21 ¹ / ₈	20 ³ / ₄	10F	31 ⁷ / ₈	19 ⁵ / ₈	30	38 ³ / ₄	16	59	21 ¹ / ₂	22	74	16F	6F	806.3	3524
E30214S	G30414S	42	14F	31 ⁷ / ₈	21 ¹ / ₈	20 ³ / ₄	10F	31 ⁷ / ₈	19 ⁵ / ₈	30	38 ³ / ₄	16	71	21 ¹ / ₂	22	86	16F	6F	949.2	3843
E30216S	G30416S	42	14F	31 ⁷ / ₈	21 ¹ / ₈	20 ³ / ₄	10F	31 ⁷ / ₈	19 ⁵ / ₈	30	38 ³ / ₄	16	83	21 ¹ / ₂	22	98	16F	6F	1092.0	4162
E30218S	G30418S	42	14F	31 ⁷ / ₈	21 ¹ / ₈	20 ³ / ₄	10F	31 ⁷ / ₈	19 ⁵ / ₈	30	38 ³ / ₄	17	95	21 ¹ / ₂	22	110	18F	8F	1235.0	4481
E30220S	G30420S	42	14F	31 ⁷ / ₈	21 ¹ / ₈	20 ³ / ₄	10F	31 ⁷ / ₈	19 ⁵ / ₈	30	38 ³ / ₄	17	107	21 ¹ / ₂	22	122	18F	8F	1378.0	4800

* Dimensions are ANSI. For TEMA, consult factory.

** E Code heating surfaces are equal or greater. Please consult submittals for actual heating surfaces.

Sizing and Selection

Refer to Selection Guide 200-1A for manual selection procedure.

Computer selections available through TACO Representatives.

Following data is required:

1. Steam pressure at heat exchanger.
2. Flow in tubes (GPM).
3. Type of fluid in tubes.
4. Properties of fluids (if other than water).
5. Temperature in.
6. Temperature out.
7. Fouling factor.

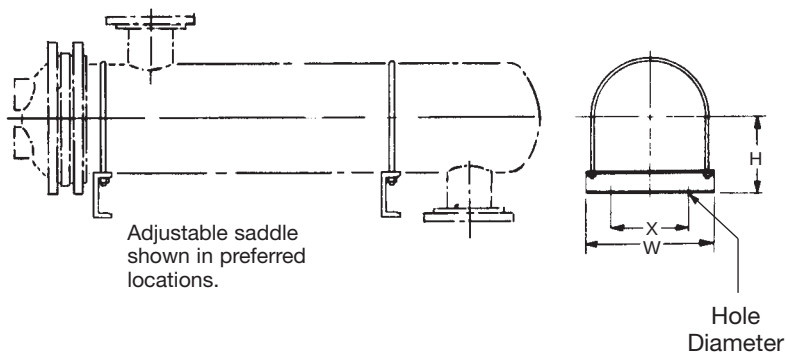
Requests for sizing and design of custom/industrial heat exchangers may be submitted directly to our Engineering Office. Simply select the Process Heat Transfer Icon at our Internet home page (taco-hvac.com).



TACO's Product Selection Software "TACONET" supports sizing and selection of shell and tube Heat Exchangers, Pumps and Expansion Tanks. This software is available from your local representative or may also be downloaded from our website at taco-hvac.com.

Typical Saddle Dimensions (Optional)

Unit Size	Dimensions (inches)			
	H	W	X	Hole Dia.
4	5 ¹ / ₄	6 ¹⁵ / ₁₆	5 ¹ / ₂	5 ⁵ / ₈
6	6 ⁵ / ₁₆	9 ¹ / ₄	7 ¹ / ₂	5 ⁵ / ₈
8	7 ⁵ / ₁₆	11 ¹ / ₄	9	5 ⁵ / ₈
10	8 ³ / ₈	13 ⁵ / ₈	10	5 ⁵ / ₈
12	9 ³ / ₈	15 ⁵ / ₈	11	5 ⁵ / ₈
14	10	17	12	3 ³ / ₄
16	12	19	13	3 ³ / ₄
18	13	21	14	3 ³ / ₄
20	14	23	14	3 ³ / ₄
22	17	25	18	3 ³ / ₄
24	18	27	19	3 ³ / ₄
26	19	30	20	3 ³ / ₄
30	21	33	22	3 ³ / ₄



Note: Two adjustable U-bolt type saddles furnished when specified only.