

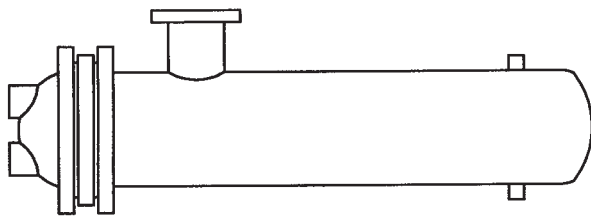
Steam to Liquid Heat Exchangers



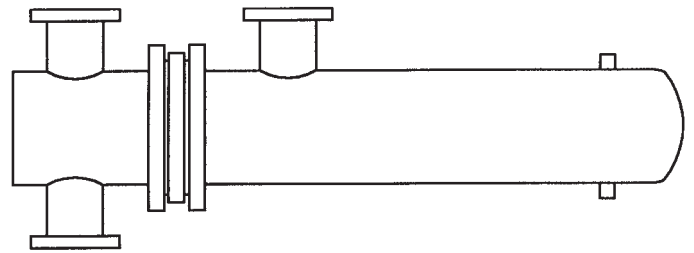
WATER CIRCULATION, FLOW CONTROL, AIR ELIMINATION, FLOW MEASUREMENT/BALANCING, TANKS

**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	—

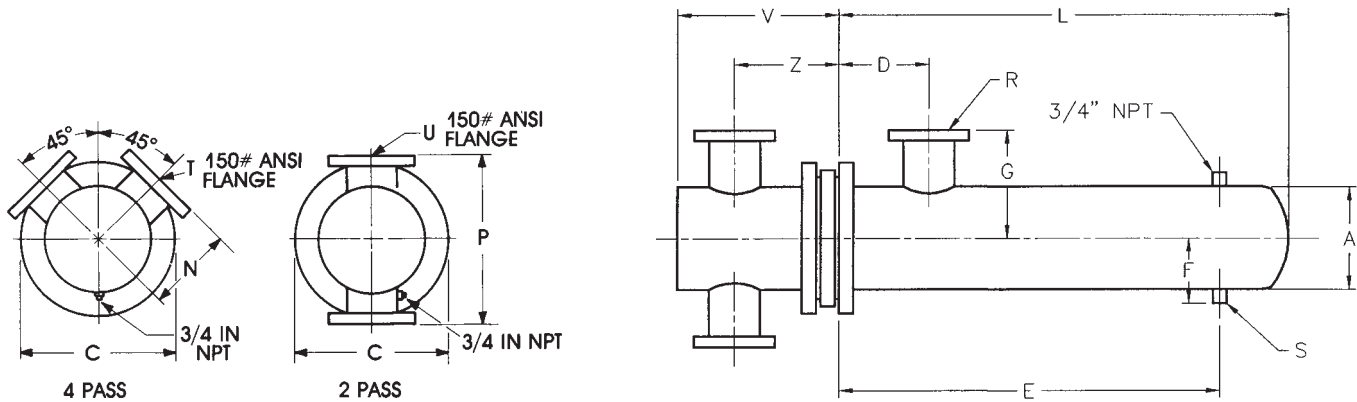


10 Inch Diameter

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			
E10204S	G10404S	6 ¹ / ₄	3T	5 ¹ / ₂	3T	2 ¹ / ₄	4	10 ³ / ₄	16	8	17	7 ¹ / ₈	7 ¹⁵ / ₁₆	24	3T	1T	26.8	300	
E10206S	G10406S	6 ¹ / ₄	3T	5 ¹ / ₂	3T	2 ¹ / ₄	4	10 ³ / ₄	16	8	29	7 ¹ / ₈	10 ³ / ₈	36	4F	1T	40.9	353	
E10208S	G10408S	6 ¹ / ₄	3T	5 ¹ / ₂	3T	2 ¹ / ₄	4	10 ³ / ₄	16	8	41	7 ¹ / ₈	10 ³ / ₈	48	4F	1 ¹ / ₄ T	55.0	415	
E10210S	G10410S	6 ¹ / ₄	3T	5 ¹ / ₂	3T	2 ¹ / ₄	4	10 ³ / ₄	16	8	53	7 ¹ / ₈	10 ³ / ₈	60	6F	1 ¹ / ₄ T	69.2	476	
E10212S	G10412S	6 ¹ / ₄	3T	5 ¹ / ₂	3T	2 ¹ / ₄	4	10 ³ / ₄	16	8	65	7 ¹ / ₈	10 ³ / ₈	72	6F	1 ¹ / ₂ T	83.3	537	
E10214S	G10414S	6 ¹ / ₄	3T	5 ¹ / ₂	3T	2 ¹ / ₄	4	10 ³ / ₄	16	8	77	7 ¹ / ₈	10 ³ / ₈	84	6F	1 ¹ / ₂ T	97.5	598	
E10216S	G10416S	6 ¹ / ₄	3T	5 ¹ / ₂	3T	2 ¹ / ₄	4	10 ³ / ₄	16	8	88 ¹ / ₂	7 ¹ / ₈	10 ³ / ₈	96	6F	2T	111.6	660	
E10218S	G10418S	6 ¹ / ₄	3T	5 ¹ / ₂	3T	2 ¹ / ₄	4	10 ³ / ₄	16	8	100 ¹ / ₂	7 ¹ / ₈	10 ³ / ₈	108	6F	2T	125.7	721	
E10220S	G10420S	6 ¹ / ₄	3T	5 ¹ / ₂	3T	2 ¹ / ₄	4	10 ³ / ₄	16	8	112 ¹ / ₂	7 ¹ / ₈	10 ³ / ₈	120	6F	2T	139.9	782	

* Dimensions are ANSI. For TEMA, consult factory.

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



12 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	
E12206S	G12406S	24	4F	14 ⁷ / ₈	10 ¹ / ₈	12	3F	14 ⁷ / ₈	10 ³ / ₈	12 ³ / ₄	19	10	29	8 ¹ / ₈	11 ⁷ / ₈	36 ¹ / ₄	4F	1 ¹ / ₄ T	58.6
E12208S	G12408S	24	4F	14 ⁷ / ₈	10 ¹ / ₈	12	3F	14 ⁷ / ₈	10 ³ / ₈	12 ³ / ₄	19	10	41	8 ¹ / ₈	11 ⁷ / ₈	48 ¹ / ₄	6F	1 ¹ / ₄ T	79.0
E12210S	G12410S	24	4F	14 ⁷ / ₈	10 ¹ / ₈	12	3F	14 ⁷ / ₈	10 ³ / ₈	12 ³ / ₄	19	10	53	8 ¹ / ₈	11 ⁷ / ₈	60 ¹ / ₄	6F	1 ¹ / ₂ T	99.5
E12212S	G12412S	24	4F	14 ⁷ / ₈	10 ¹ / ₈	12	3F	14 ⁷ / ₈	10 ³ / ₈	12 ³ / ₄	19	10	65	8 ¹ / ₈	11 ⁷ / ₈	72 ¹ / ₄	6F	2T	119.9
E12214S	G12414S	24	4F	14 ⁷ / ₈	10 ¹ / ₈	12	3F	14 ⁷ / ₈	10 ³ / ₈	12 ³ / ₄	19	10	77	8 ¹ / ₈	11 ¹⁵ / ₁₆	84 ¹ / ₄	8F	2T	140.3
E12216S	G12416S	24	4F	14 ⁷ / ₈	10 ¹ / ₈	12	3F	14 ⁷ / ₈	10 ³ / ₈	12 ³ / ₄	19	10	88	9	11 ¹⁵ / ₁₆	96 ¹ / ₄	8F	2 ¹ / ₂ T	160.8
E12218S	G12418S	24	4F	14 ⁷ / ₈	10 ¹ / ₈	12	3F	14 ⁷ / ₈	10 ³ / ₈	12 ³ / ₄	19	10	100	9	11 ¹⁵ / ₁₆	108 ¹ / ₄	8F	2 ¹ / ₂ T	181.2
E12220S	G12420S	24	4F	14 ⁷ / ₈	10 ¹ / ₈	12	3F	14 ⁷ / ₈	10 ³ / ₈	12 ³ / ₄	19	10	112	9	11 ¹⁵ / ₁₆	120 ¹ / ₄	8F	2 ¹ / ₂ T	201.6

14 Inch Diameter

E14206S	G14406S	26	6F	18 ³ / ₈	12 ³ / ₈	13	4F	18 ³ / ₈	11 ⁵ / ₈	14	21	10 ¹ / ₂	29	8 ³ / ₄	12 ⁷ / ₈	37 ¹ / ₄	6F	1 ¹ / ₄ T	75.7	568
E14208S	G14408S	26	6F	18 ³ / ₈	12 ³ / ₈	13	4F	18 ³ / ₈	11 ⁵ / ₈	14	21	10 ¹ / ₂	40 ¹ / ₂	8 ³ / ₄	12 ⁷ / ₈	49 ¹ / ₄	6F	2T	102.4	664
E14210S	G14410S	26	6F	18 ³ / ₈	12 ³ / ₈	13	4F	18 ³ / ₈	11 ⁵ / ₈	14	21	10 ¹ / ₂	52 ¹ / ₂	8 ³ / ₄	12 ⁷ / ₈	61 ¹ / ₄	6F	2T	129.1	756
E14212S	G14412S	26	6F	18 ³ / ₈	12 ³ / ₈	13	4F	18 ³ / ₈	11 ⁵ / ₈	14	21	10 ¹ / ₂	64 ¹ / ₂	8 ³ / ₄	12 ¹⁵ / ₁₆	73 ¹ / ₄	8F	2T	155.8	847
E14214S	G14414S	26	6F	18 ³ / ₈	12 ³ / ₈	13	4F	18 ³ / ₈	11 ⁵ / ₈	14	21	10 ¹ / ₂	76	9 ⁵ / ₈	12 ¹⁵ / ₁₆	85 ¹ / ₄	8F	2 ¹ / ₂ T	182.5	937
E14216S	G14416S	26	6F	18 ³ / ₈	12 ³ / ₈	13	4F	18 ³ / ₈	11 ⁵ / ₈	14	21	10 ¹ / ₂	88	9 ⁵ / ₈	12 ¹⁵ / ₁₆	97 ¹ / ₄	8F	2 ¹ / ₂ T	209.2	1029
E14218S	G14418S	26	6F	18 ³ / ₈	12 ³ / ₈	13	4F	18 ³ / ₈	11 ⁵ / ₈	14	21	10 ¹ / ₂	100	9 ⁵ / ₈	13	109 ¹ / ₄	10F	2 ¹ / ₂ T	236.0	1120
E14220S	G14420S	26	6F	18 ³ / ₈	12 ³ / ₈	13	4F	18 ³ / ₈	11 ⁵ / ₈	14	21	10 ¹ / ₂	112	9 ⁵ / ₈	13	121 ¹ / ₄	10F	3T	262.7	1212

16 Inch Diameter

E16206S	G16406S	28 ¹ / ₂	6F	19 ⁵ / ₈	13 ⁵ / ₈	14 ¹ / ₄	4F	19 ⁵ / ₈	12 ¹ / ₈	16	23 ¹ / ₂	11	28 ¹ / ₂	9 ³ / ₄	14 ¹ / ₄	37	6F	1 ¹ / ₂ T	104.5	745
E16208S	G16408S	28 ¹ / ₂	6F	19 ⁵ / ₈	13 ⁵ / ₈	14 ¹ / ₄	4F	19 ⁵ / ₈	12 ¹ / ₈	16	23 ¹ / ₂	11	40	9 ³ / ₄	14 ¹ / ₄	49	6F	2T	141.4	863
E16210S	G16410S	28 ¹ / ₂	6F	19 ⁵ / ₈	13 ⁵ / ₈	14 ¹ / ₄	4F	19 ⁵ / ₈	12 ¹ / ₈	16	23 ¹ / ₂	11	52	10 ⁵ / ₈	14 ⁵ / ₁₆	61	8F	2 ¹ / ₂ T	178.4	981
E16212S	G16412S	28 ¹ / ₂	6F	19 ⁵ / ₈	13 ⁵ / ₈	14 ¹ / ₄	4F	19 ⁵ / ₈	12 ¹ / ₈	16	23 ¹ / ₂	11	64	10 ⁵ / ₈	14 ⁵ / ₁₆	73	8F	2 ¹ / ₂ T	215.3	1105
E16214S	G16414S	28 ¹ / ₂	6F	19 ⁵ / ₈	13 ⁵ / ₈	14 ¹ / ₄	4F	19 ⁵ / ₈	12 ¹ / ₈	16	23 ¹ / ₂	11	76	10 ⁵ / ₈	14 ³ / ₈	85	10F	2 ¹ / ₂ T	252.2	1187
E16216S	G16416S	28 ¹ / ₂	6F	19 ⁵ / ₈	13 ⁵ / ₈	14 ¹ / ₄	4F	19 ⁵ / ₈	12 ¹ / ₈	16	23 ¹ / ₂	11	87 ¹ / ₂	10 ⁵ / ₈	14 ³ / ₈	97	10F	3T	289.1	1305
E16218S	G16418S	28 ¹ / ₂	6F	19 ⁵ / ₈	13 ⁵ / ₈	14 ¹ / ₄	4F	19 ⁵ / ₈	12 ¹ / ₈	16	23 ¹ / ₂	11	99 ¹ / ₂	10 ⁵ / ₈	14 ³ / ₈	109	10F	3T	326.0	1424
E16220S	G16420S	28 ¹ / ₂	6F	19 ⁵ / ₈	13 ⁵ / ₈	14 ¹ / ₄	4F	19 ⁵ / ₈	12 ¹ / ₈	16	23 ¹ / ₂	11	111 ¹ / ₂	10 ⁵ / ₈	14 ³ / ₈	121	10F	3T	363.0	1541

* 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.

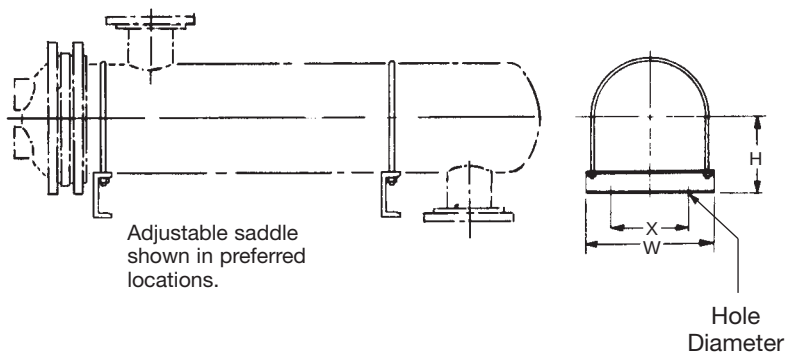
Requests for sizing and design of custom/industrial heat exchangers may be submitted directly to our Engineering Office. Simply select the Process Heat Transfer Icon at our Internet home page (taco-hvac.com).



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.