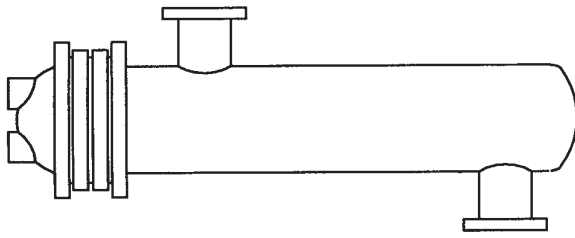


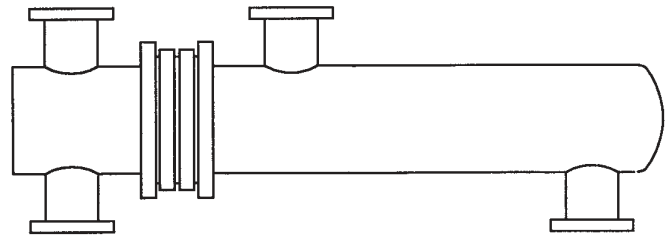
Leak Guard Series Double Wall Steam to Liquid Heat Exchangers



Features



4" - 10"



12" - 30"

Features

- Designed, constructed and tested to ASME Section VIII, Div. 1 requirements
- NSF/ANSI 372 Certified and Listed
- High degree of flexibility in materials to meet varying application requirements
- Available in 2 or 4 pass construction
- All fabrication done in-house
- Computerized selections to ensure fast and easy design
- National Board Registration
- CRN registration (optional)

Performance Data

- Connection sizes: 1-14"
- Diameters: 4-30"
- Max. Length: 10 ft. Standard
- Working Pressure: 150 PSI Standard tube side, 150 PSI shell side, (Optional Higher Pressures)
- Max. Operating Temperature: 375°F
- (Optional Higher Temperatures)



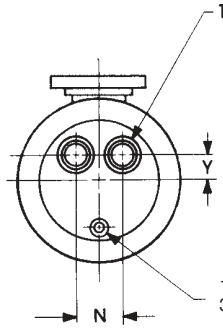
Materials of Construction

	STANDARD	OPTIONAL
Shell	Fabricated Steel	304ss/316ss Duplex 2205
Head 4" - 10"	Cast Iron Threaded Connections	Fabricated Steel, 304ss/316ss, Duplex 2205 Flanged
Head 12" - 30"	Fabricated Steel Flanged	Cast Steel (12"-16") Flanged, 304ss/316ss Duplex 2205 Flanged
Tubes	3/4 OD Double Wall Copper	3/4 OD DW Cupro-Nickel
Tube Sheet	Steel	304ss, 316ss, Duplex 2205
Separators	Steel	304ss, 316ss, Duplex 2205
Tie Rods	Copper	304ss, 316ss
Nuts and Bolts	Steel	Consult Factory

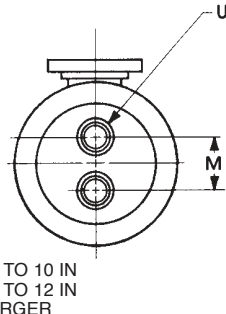
Model Number Key

E/G 8 2 18 SD — Double wall steam to water type (steam in shell)
 Tube bundle length
 (this figure x 6 inches)
 Number of tube passes
 Nominal shell diameter
 U tube

Dimensional Data

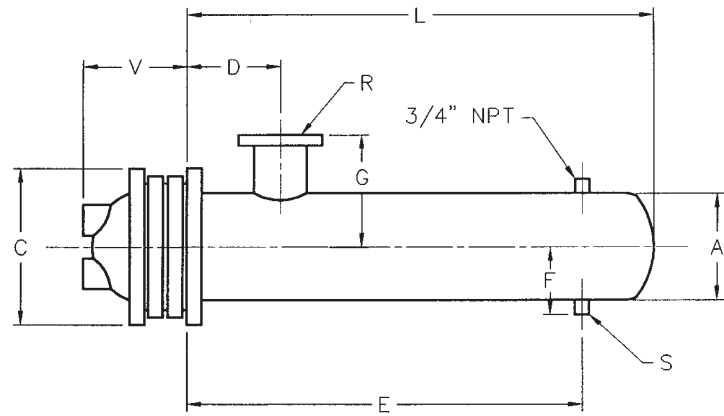


4 Pass



2 Pass

1/2 IN NPT TO 10 IN
 3/4 IN NPT TO 12 IN
 AND LARGER



(Note: Steam inlet (R) is threaded through E10204S)

4 Inch Diameter

Model Number		Cast Iron Heads						Dimensions (Inches)										Heating	Shipping
2 Pass	4 Pass	2 Pass		4 Pass				2 and 4 Pass										Surface	Weight
		M	U	N	T	Y	V	A	C*	D	E	F	G	L	R	S	(Sq. Ft.)	(Lbs.)	
G4204SD	G4404SD	2 1/2	1 1/2T	2 3/8	1T	7/8	3 1/2	4 1/2	9	5	19 1/2	4	4	24 1/2	1 1/4T	1T	9.1	76	
G4206SD	G4406SD	2 1/2	1 1/2T	2 3/8	1T	7/8	3 1/2	4 1/2	9	5	31 1/2	4	4	36 1/2	1 1/4T	1T	13.9	86	
G4208SD	G4408SD	2 1/2	1 1/2T	2 3/8	1T	7/8	3 1/2	4 1/2	9	5	43 1/2	4	4	48 1/2	1 1/4T	1T	18.9	95	
G4210SD	G4410SD	2 1/2	1 1/2T	2 3/8	1T	7/8	3 1/2	4 1/2	9	5	55 1/2	4	4	60 1/2	1 1/4T	1T	23.9	105	
G4212SD	G4412SD	2 1/2	1 1/2T	2 3/8	1T	7/8	3 1/2	4 1/2	9	5	67 1/2	4	3 7/8	72 1/2	1 1/2T	1T	28.7	115	
G4214SD	G4414SD	2 1/2	1 1/2T	2 3/8	1T	7/8	3 1/2	4 1/2	9	5	79 1/2	4	3 3/4	84 1/2	1 1/2T	1T	33.7	125	
G4216SD	G4416SD	2 1/2	1 1/2T	2 3/8	1T	7/8	3 1/2	4 1/2	9	5	91 1/2	4	3 3/4	96 1/2	1 1/2T	1T	38.5	135	
G4218SD	G4418SD	2 1/2	1 1/2T	2 3/8	1T	7/8	3 1/2	4 1/2	9	5	103 1/2	4	3 3/4	108 1/2	1 1/2T	1T	45.5	145	
G4220SD	G4420SD	2 1/2	1 1/2T	2 3/8	1T	7/8	3 1/2	4 1/2	9	5	115 1/2	4	3 3/4	120 1/2	1 1/2T	1T	48.3	155	

6 Inch Diameter

E6204SD	G6404SD	4	2T	3 3/4	1 1/2T	1 1/4	3 3/4	6 5/8	11	5	18 1/2	4 7/8	4 7/8	25	1 1/2T	1T	17.7	138
E6206SD	G6406SD	4	2T	3 3/4	1 1/2T	1 1/4	3 3/4	6 5/8	11	5	30 1/2	4 7/8	4 7/8	37	2T	1T	27.4	156
E6208SD	G6408SD	4	2T	3 3/4	1 1/2T	1 1/4	3 3/4	6 5/8	11	5	42 1/2	4 7/8	5 3/4	49	2 1/2	1T	37.2	200
E6210SD	G6410SD	4	2T	3 3/4	1 1/2T	1 1/4	3 3/4	6 5/8	11	5	54 1/2	4 7/8	5 3/4	61	2 1/2	1T	47.0	225
E6212SD	G6412SD	4	2T	3 3/4	1 1/2T	1 1/4	3 3/4	6 5/8	11	5	66 1/2	4 7/8	5 9/16	73	3T	1T	56.8	253
E6214SD	G6414SD	4	2T	3 3/4	1 1/2T	1 1/4	3 3/4	6 5/8	11	5	78 1/2	4 7/8	5 9/16	85	3T	1T	66.8	280
E6216SD	G6416SD	4	2T	3 3/4	1 1/2T	1 1/4	3 3/4	6 5/8	11	5	90 1/2	4 7/8	5 9/16	97	3T	1T	76.6	310
E6218SD	G6418SD	4	2T	3 3/4	1 1/2T	1 1/4	3 3/4	6 5/8	11	5	102 1/2	4 7/8	5 9/16	109	3T	1T	86.4	336
E6220SD	G6420SD	4	2T	3 3/4	1 1/2T	1 1/4	3 3/4	6 5/8	11	5	114 1/2	4 7/8	5 9/16	121	3T	1T	96.2	364

8 Inch Diameter

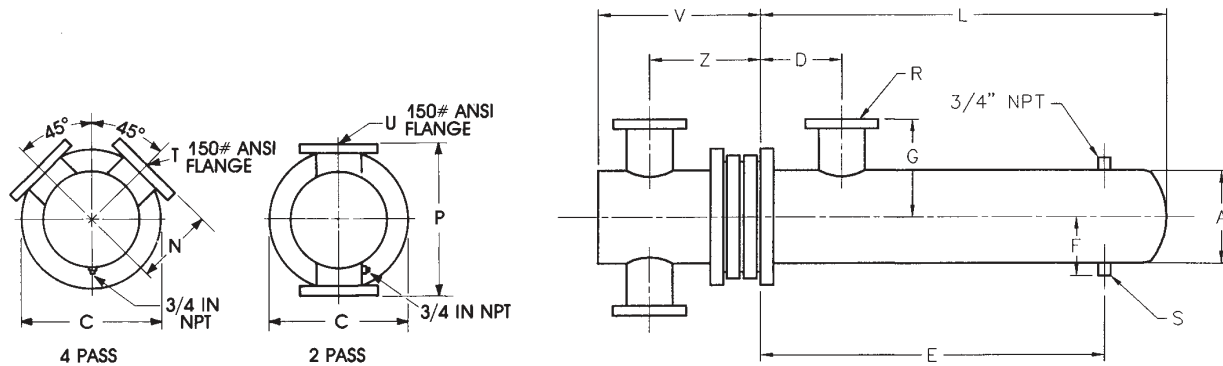
E8204SD	G8404SD	5	3T	4	2T	2	4 1/4	8 5/8	13 1/2	8	18	6	6	24	2T	1T	31.4	220
E8206SD	G8406SD	5	3T	4	2T	2	4 1/4	8 5/8	13 1/2	8	30	6	6 7/8	36	2 1/2T	1T	49.5	262
E8208SD	G8408SD	5	3T	4	2T	2	4 1/4	8 5/8	13 1/2	8	42	6	6 13/16	48	3T	1T	67.4	311
E8210SD	G8410SD	5	3T	4	2T	2	4 1/4	8 5/8	13 1/2	8	54	6	8 7/8	60	4F	1T	85.4	354
E8212SD	G8412SD	5	3T	4	2T	2	4 1/4	8 5/8	13 1/2	8	66	6	8 7/8	72	4F	1 1/4T	103.5	397
E8214SD	G8414SD	5	3T	4	2T	2	4 1/4	8 5/8	13 1/2	8	78	6	8 7/8	84	4F	1 1/4T	121.4	418
E8216SD	G8416SD	5	3T	4	2T	2	4 1/4	8 5/8	13 1/2	8	90	6	8 7/8	96	6F	1 1/4T	139.4	481
E8218SD	G8418SD	5	3T	4	2T	2	4 1/4	8 5/8	13 1/2	8	102	6	8 7/8	108	6F	1 1/4T	157.4	524
E8220SD	G8420SD	5	3T	4	2T	2	4 1/4	8 5/8	13 1/2	8	114	6	8 7/8	120	6F	1 1/4T	175.3	568

(* Dimensions are ANSI. For TEMA, consult factory.)

Dimensional Data

10 Inch Diameter

E10204SD	G10404SD	6 1/4	3T	5 1/2	3T	2 1/4	5 1/8	10 3/4	16	8	17	7 1/8	7 15/16	24	3T	1T	50.4	356
E10206SD	G10406SD	6 1/4	3T	5 1/2	3T	2 1/4	5 1/8	10 3/4	16	8	29	7 1/8	10	36	4F	1T	79.9	409
E10208SD	G10408SD	6 1/4	3T	5 1/2	3T	2 1/4	5 1/8	10 3/4	16	8	41	7 1/8	10	48	4F	1 1/4T	109.3	471
E10210SD	G10410SD	6 1/4	3T	5 1/2	3T	2 1/4	5 1/8	10 3/4	16	8	53	7 1/8	10	60	6F	1 1/4T	138.7	532
E10212SD	G10412SD	6 1/4	3T	5 1/2	3T	2 1/4	5 1/8	10 3/4	16	8	65	7 1/8	10	72	6F	1 1/2T	167.2	593
E10214SD	G10414SD	6 1/4	3T	5 1/2	3T	2 1/4	5 1/8	10 3/4	16	8	77	7 1/8	10	84	6F	1 1/2T	197.2	654
E10216SD	G10416SD	6 1/4	3T	5 1/2	3T	2 1/4	5 1/8	10 3/4	16	8	88 1/2	7 1/8	10	96	6F	2T	227.0	716
E10218SD	G10418SD	6 1/4	3T	5 1/2	3T	2 1/4	5 1/8	10 3/4	16	8	100 1/2	7 1/8	10	108	6F	2T	256.6	777
E10220SD	G10420SD	6 1/4	3T	5 1/2	3T	2 1/4	5 1/8	10 3/4	16	8	112 1/2	7 1/8	10	120	6F	2T	285.9	838



12 Inch Diameter

Model Number		Fabricated Steel Heads								Dimensions (Inches)										Heating	Shipping
2 Pass	4 Pass	2 Pass				4 Pass				2 and 4 Pass										Surface Weight (Sq. Ft.)	(Lbs.)
		P	U	V	Z	N	T	V	Z	A	C*	D	E	F	G	L	R	S			
E12206SD	G12406SD	24	4F	16	11 1/2	12	3F	15 3/4	11 1/4	12 3/4	19	10	29	8 1/8	11	36 1/4	4F	1 1/4T	113.1	589	
E12208SD	G12408SD	24	4F	16	11 1/2	12	3F	15 3/4	11 1/4	12 3/4	19	10	41	8 1/8	11	48 1/4	6F	1 1/4T	155.6	675	
E12210SD	G12410SD	24	4F	16	11 1/2	12	3F	15 3/4	11 1/4	12 3/4	19	10	53	8 1/8	11	60 1/4	6F	1 1/2T	198.0	760	
E12212SD	G12412SD	24	4F	16	11 1/2	12	3F	15 3/4	11 1/4	12 3/4	19	10	65	8 1/8	11	72 1/4	6F	2T	240.7	851	
E12214SD	G12414SD	24	4F	16	11 1/2	12	3F	15 3/4	11 1/4	12 3/4	19	10	77	8 1/8	11	84 1/4	8F	2T	283.2	936	
E12216SD	G12416SD	24	4F	16	11 1/2	12	3F	15 3/4	11 1/4	12 3/4	19	10	88	9	11	96 1/4	8F	2 1/2T	325.7	1020	
E12218SD	G12418SD	24	4F	16	11 1/2	12	3F	15 3/4	11 1/4	12 3/4	19	10	100	9	11	108 1/4	8F	2 1/2T	368.2	1106	
E12220SD	G12420SD	24	4F	16	11 1/2	12	3F	15 3/4	11 1/4	12 3/4	19	10	112	9	11	120 1/4	8F	2 1/2T	410.7	1190	

14 Inch Diameter

E14206SD	G14406SD	26	6F	19	13	13	4F	19	12 1/4	14	21	10	29	8 3/4	12	37 1/4	6F	1 1/4T	157.6	787
E14208SD	G14408SD	26	6F	19	13	13	4F	19	12 1/4	14	21	10	40 1/2	8 3/4	12	49 1/4	6F	2T	213.2	956
E14210SD	G14410SD	26	6F	19	13	13	4F	19	12 1/4	14	21	10	52 1/2	8 3/4	12	61 1/4	6F	2T	268.8	1122
E14212SD	G14412SD	26	6F	19	13	13	4F	19	12 1/4	14	21	10	64 1/2	8 3/4	12	73 1/4	8F	2T	324.5	1286
E14214SD	G14414SD	26	6F	19	13	13	4F	19	12 1/4	14	21	10	76	9 5/8	12	85 1/4	8F	2 1/2T	380.0	1449
E14216SD	G14416SD	26	6F	19	13	13	4F	19	12 1/4	14	21	10	88	9 5/8	12	97 1/4	8F	2 1/2T	435.7	1586
E14218SD	G14418SD	26	6F	19	13	13	4F	19	12 1/4	14	21	10	100	9 5/8	12	109 1/4	10F	2 1/2T	491.5	1778
E14220SD	G14420SD	26	6F	19	13	13	4F	19	12 1/4	14	21	10	112	9 5/8	12	121 1/4	10F	3T	547.0	1943

(* Dimensions are ANSI. For TEMA, consult factory.)

Dimensional Data

16 Inch Diameter

Model Number		Fabricated Steel Heads								Dimensions (Inches)										Heating	Shipping
2 Pass	4 Pass	2 Pass				4 Pass				2 and 4 Pass										Surface	Weight
		P	U	V	Z	N	T	V	Z	A	C*	D	E	F	G	L	R	S		(Sq. Ft.)	(Lbs.)
E16206SD	G16406SD	28 1/2	6F	20 1/4	14	14 1/4	4F	20 1/4	12 3/4	16	23 1/2	11	28 1/2	9 3/4	13	37	6F	1 1/2T		217.6	1042
E16208SD	G16408SD	28 1/2	6F	20 1/4	14	14 1/4	4F	20 1/4	12 3/4	16	23 1/2	11	40	9 3/4	13	49	6F	2T		294.5	1259
E16210SD	G16410SD	28 1/2	6F	20 1/4	14	14 1/4	4F	20 1/4	12 3/4	16	23 1/2	11	52	10 5/8	13	61	8F	2 1/2T		371.5	1476
E16212SD	G16412SD	28 1/2	6F	20 1/4	14	14 1/4	4F	20 1/4	12 3/4	16	23 1/2	11	64	10 5/8	13	73	8F	2 1/2T		448.4	1698
E16214SD	G16414SD	28 1/2	6F	20 1/4	14	14 1/4	4F	20 1/4	12 3/4	16	23 1/2	11	76	10 5/8	13	85	10F	2 1/2T		525.2	1879
E16216SD	G16416SD	28 1/2	6F	20 1/4	14	14 1/4	4F	20 1/4	12 3/4	16	23 1/2	11	87 1/2	10 5/8	13	97	10F	3T		602.0	2096
E16218SD	G16418SD	28 1/2	6F	20 1/4	14	14 1/4	4F	20 1/4	12 3/4	16	23 1/2	11	99 1/2	10 5/8	13	109	10F	3T		678.9	2314
E16220SD	G16420SD	28 1/2	6F	20 1/4	14	14 1/4	4F	20 1/4	12 3/4	16	23 1/2	11	111 1/2	10 5/8	13	121	10F	3T		755.9	2530

18 Inch Diameter

E18206SD	G18406SD	30	6F	20 3/4	14 1/2	15	4F	20 3/4	13 1/4	18	25	13	27 1/2	10 3/4	14	36 1/2	6F	2T		272.2	1283
E18208SD	G18408SD	30	6F	20 3/4	14 1/2	15	4F	20 3/4	13 1/4	18	25	13	39 1/2	10 3/4	14	48 1/2	8F	2T		268.6	1551
E18210SD	G18410SD	30	6F	20 3/4	14 1/2	15	4F	20 3/4	13 1/4	18	25	13	51	11 5/8	14	60 1/2	8F	2 1/2T		465.2	1817
E18212SD	G18412SD	30	6F	20 3/4	14 1/2	15	4F	20 3/4	13 1/4	18	25	13	62 1/2	11 5/8	14	72 1/2	10F	3T		561.6	2087
E18214SD	G18414SD	30	6F	20 3/4	14 1/2	15	4F	20 3/4	13 1/4	18	25	13	74 1/2	11 5/8	14	84 1/2	10F	3T		658.3	2333
E18216SD	G18416SD	30	6F	20 3/4	14 1/2	15	4F	20 3/4	13 1/4	18	25	13	86 1/2	11 5/8	14	96 1/2	10F	3T		754.7	2601
E18218SD	G18418SD	30	6F	20 3/4	14 1/2	15	4F	20 3/4	13 1/4	18	25	13	98 1/2	11 5/8	14	108 1/2	12F	3T		851.3	2874
E18220SD	G18420SD	30	6F	20 3/4	14 1/2	15	4F	20 3/4	13 1/4	18	25	13	110 1/2	12	14	120 1/2	12F	4F		947.7	3140

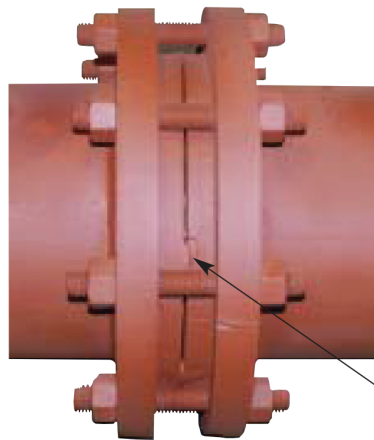
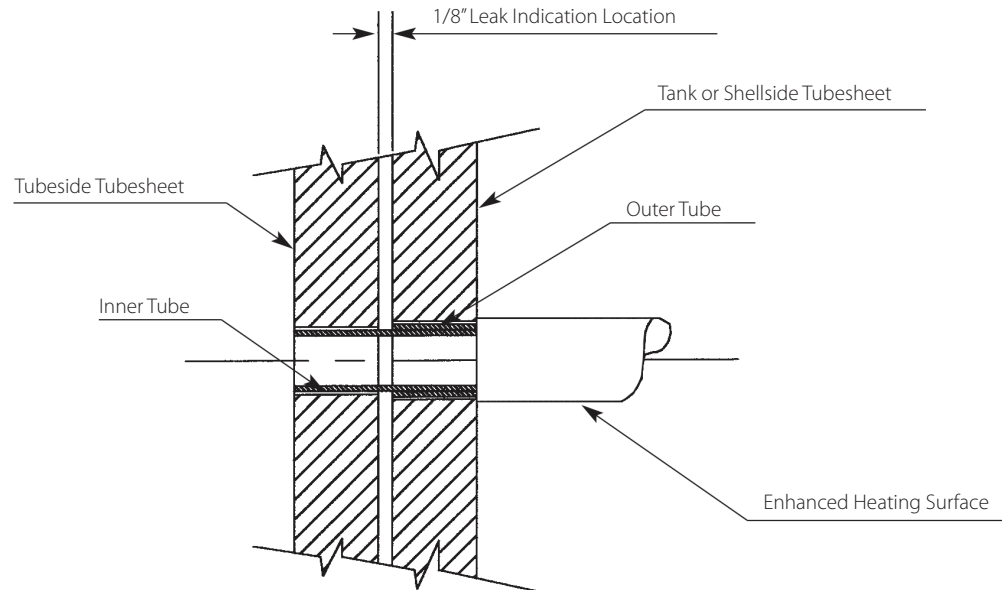
20 Inch Diameter

E20206SD	G20406SD	32 1/2	6F	22	15 1/2	16 1/4	4F	22	17 1/4	20	27 1/2	13	27 1/2	11 3/4	15	36 3/4	8F	2T		341.3	1550
E20208SD	G20408SD	32 1/2	6F	22	15 1/2	16 1/4	4F	22	17 1/4	20	27 1/2	13	39	12 11/16	15	48 3/4	8F	2 1/2T		456.6	1880
E20210SD	G20410SD	32 1/2	6F	22	15 1/2	16 1/4	4F	22	17 1/4	20	27 1/2	13	50 1/2	12 11/16	15	60 3/4	10F	3T		589.9	2203
E20212SD	G20412SD	32 1/2	6F	22	15 1/2	16 1/4	4F	22	17 1/4	20	27 1/2	13	62 1/2	12 11/16	15	72 3/4	10F	3T		714.3	2527
E20214SD	G20414SD	32 1/2	6F	22	15 1/2	16 1/4	4F	22	17 1/4	20	27 1/2	13	74 1/2	12 11/16	15	84 3/4	12F	3T		838.6	2850
E20216SD	G20416SD	32 1/2	6F	22	15 1/2	16 1/4	4F	22	17 1/4	20	27 1/2	13	86 1/2	13	15	96 3/4	12F	4F		962.9	3174
E20218SD	G20418SD	32 1/2	6F	22	15 1/2	16 1/4	4F	22	17 1/4	20	27 1/2	13	98 1/2	13	15	108 3/4	12F	4F		1087.5	3512
E20220SD	G20420SD	32 1/2	6F	22	15 1/2	16 1/4	4F	22	17 1/4	20	27 1/2	13	110 1/2	13	17	120 3/4	14F	4F		1211.8	3836

(* Dimensions are ANSI. For TEMA, consult factory.)

Construction

Leak Guard Double Tube Plate Construction



Integral Leak Path Spacers
Positioned for Maximum
Tube to Tubesheet Joint
Protection

Sizing, Selection & Saddle

Sizing and Selection

Refer to Selection Guide 200-2A for manual selection procedure.

Computer selections available through TACO Representatives.

Following data is required:

1. Flow in tubes (GPM).
2. Entering liquid temperature in tubes (°F).
3. Leaving liquid temperature in tubes (°F).
4. Flow in shell (GPM).
5. Entering liquid temperature in shell (°F).
6. Leaving liquid temperature in shell (°F).
7. Fouling factors.
8. Properties of fluids (If other than water).

If using fluid not available in the selection tool please contact your local Taco Representative.

<https://www.tacomfort.com/rep-locator/>

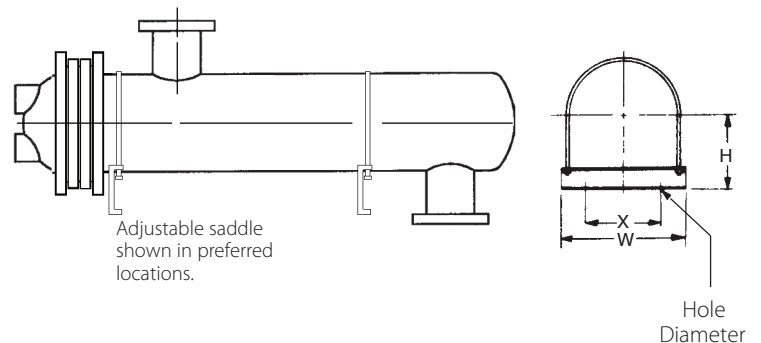
Taco's Product Selection Tools include Expansion Tank Sizing, Air/Dirt Separators, Buffer Tanks, Multi-Purpose Tanks, Shell and Tube Heat Exchangers, and Brazen Plate Heat Exchangers which can be found at:

<https://apps.tacomfort.com/>

For Plate and Frame Selections please contact your local Taco Representative

Typical Saddle Dimensions (Optional)

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



Note:

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

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

