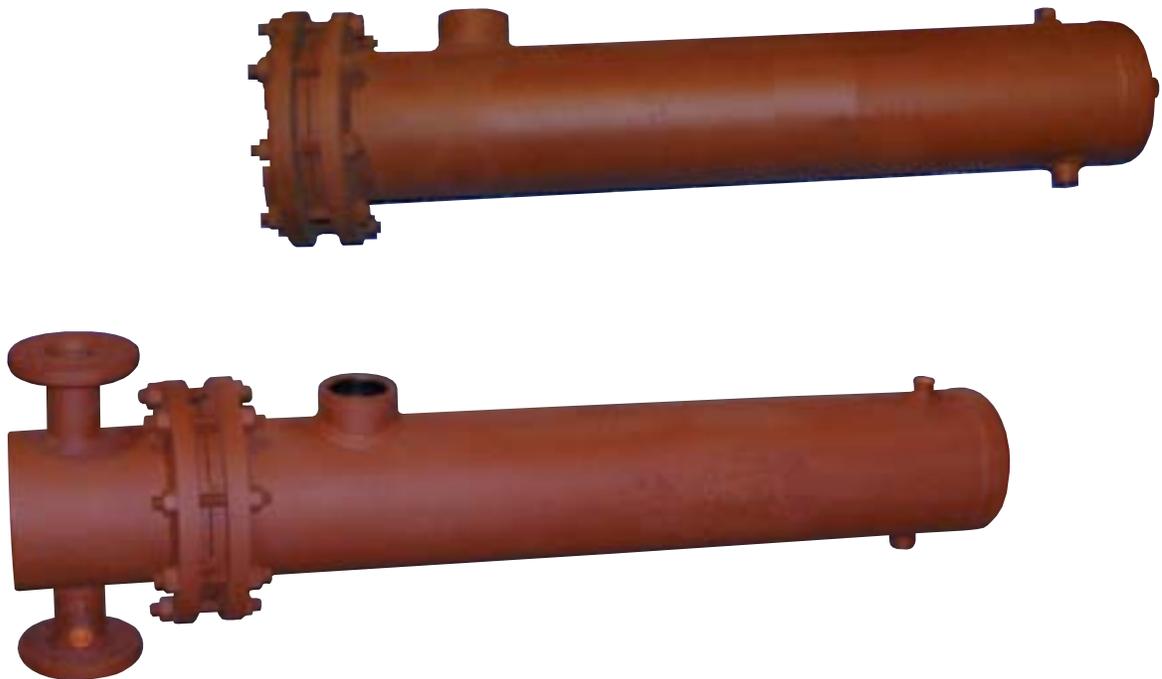


Leak Guard Series Double Wall Steam to Liquid Heat Exchangers

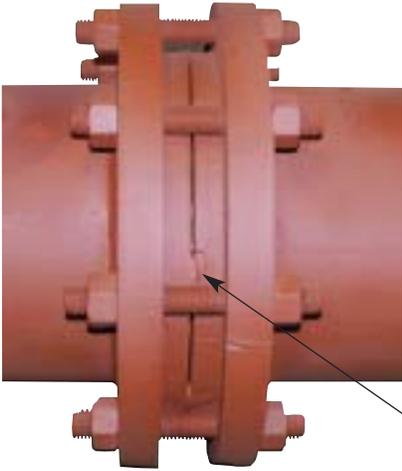
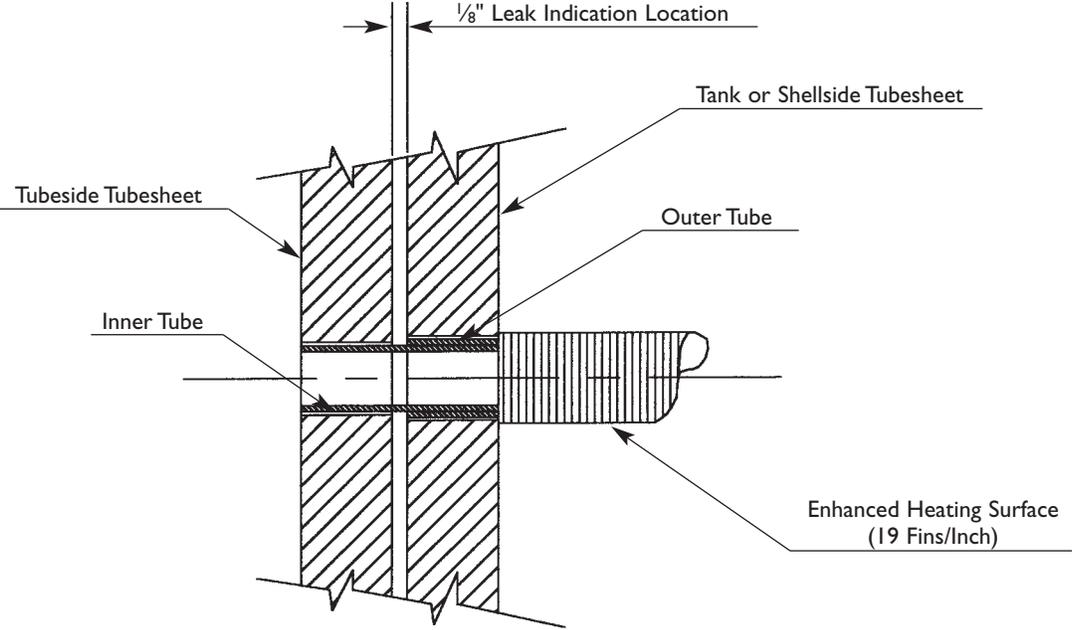


WATER CIRCULATION, FLOW CONTROL, AIR ELIMINATION, FLOW MEASUREMENT/BALANCING, TANKS

Do it once.
Do it right.



Leak Guard Double Tube Plate Construction

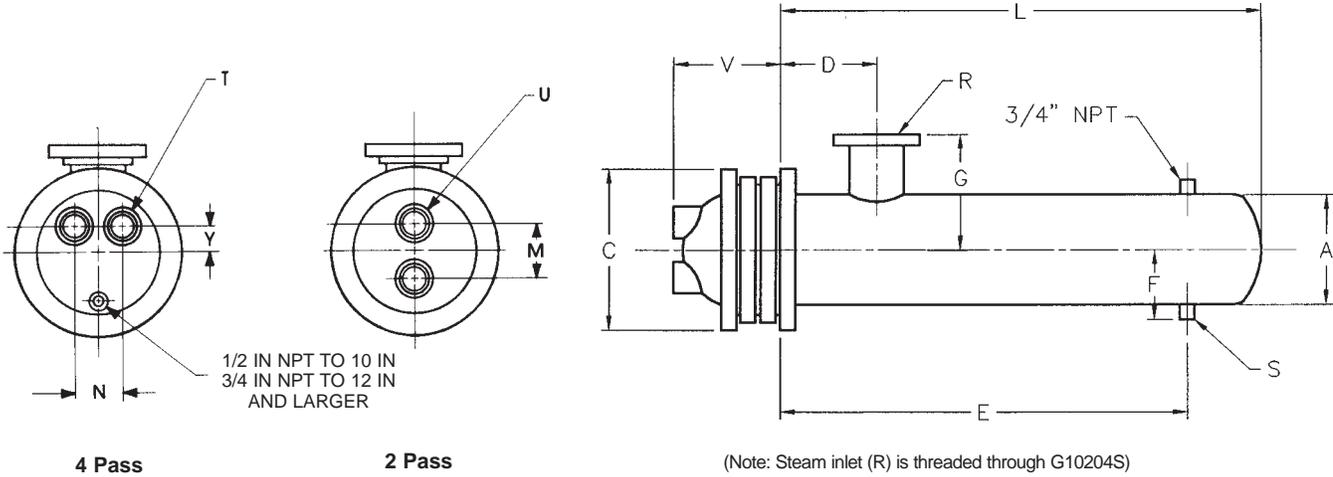


Integral Leak Path Spacers
Positioned for Maximum
Tube to Tubesheet Joint
Protection

Typical Dimensions

Model Number Key

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



4 Inch Diameter

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

6 Inch Diameter

G6204SD	G6404SD	4	2 T	3 3/4	1 1/2 T	1 1/4	3 3/4	6 5/8	11	5	18 1/2	4 7/8	4 7/8	25	1 1/2 T	1 T	17.7	138
G6206SD	G6406SD	4	2 T	3 3/4	1 1/2 T	1 1/4	3 3/4	6 5/8	11	5	30 1/2	4 7/8	4 7/8	37	2 T	1 T	27.4	156
G6208SD	G6408SD	4	2 T	3 3/4	1 1/2 T	1 1/4	3 3/4	6 5/8	11	5	42 1/2	4 7/8	5 3/4	49	2 1/2	1 T	37.2	200
G6210SD	G6410SD	4	2 T	3 3/4	1 1/2 T	1 1/4	3 3/4	6 5/8	11	5	54 1/2	4 7/8	5 3/4	61	2 1/2	1 T	47.0	225
G6212SD	G6412SD	4	2 T	3 3/4	1 1/2 T	1 1/4	3 3/4	6 5/8	11	5	66 1/2	4 7/8	5 9/16	73	3 T	1 T	56.8	253
G6214SD	G6414SD	4	2 T	3 3/4	1 1/2 T	1 1/4	3 3/4	6 5/8	11	5	78 1/2	4 7/8	5 9/16	85	3 T	1 T	66.8	280
G6216SD	G6416SD	4	2 T	3 3/4	1 1/2 T	1 1/4	3 3/4	6 5/8	11	5	90 1/2	4 7/8	5 9/16	97	3 T	1 T	76.6	310
G6218SD	G6418SD	4	2 T	3 3/4	1 1/2 T	1 1/4	3 3/4	6 5/8	11	5	102 1/2	4 7/8	5 9/16	109	3 T	1 T	86.4	336
G6220SD	G6420SD	4	2 T	3 3/4	1 1/2 T	1 1/4	3 3/4	6 5/8	11	5	114 1/2	4 7/8	5 9/16	121	3 T	1 T	96.2	364

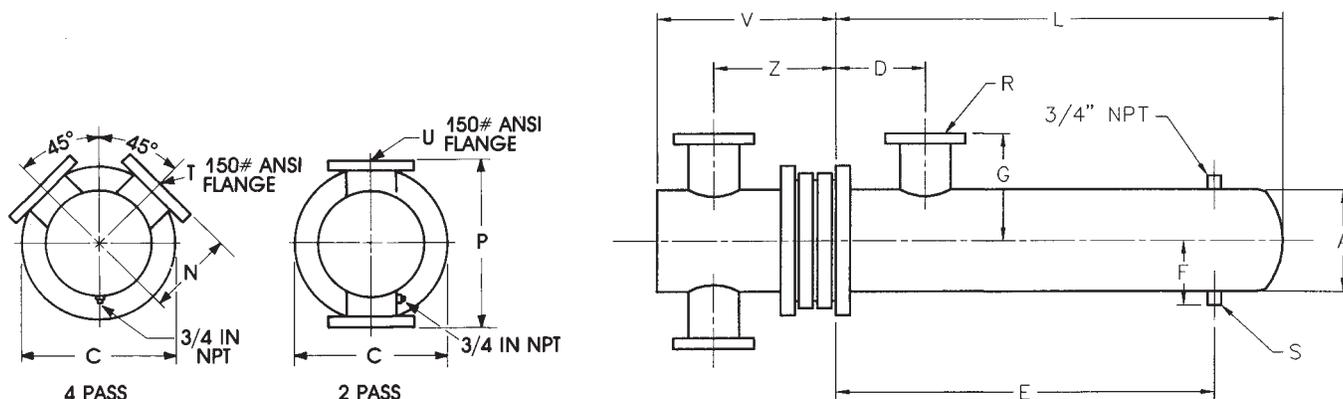
8 Inch Diameter

G8204SD	G8404SD	5	3 T	4	2 T	2	4 1/4	8 5/8	13 1/2	8	18	6	6	24	2 T	1 T	31.4	220
G8206SD	G8406SD	5	3 T	4	2 T	2	4 1/4	8 5/8	13 1/2	8	30	6	6 7/8	36	2 1/2 T	1 T	49.5	262
G8208SD	G8408SD	5	3 T	4	2 T	2	4 1/4	8 5/8	13 1/2	8	42	6	6 13/16	48	3 T	1 T	67.4	311
G8210SD	G8410SD	5	3 T	4	2 T	2	4 1/4	8 5/8	13 1/2	8	54	6	8 7/8	60	4 F	1 T	85.4	354
G8212SD	G8412SD	5	3 T	4	2 T	2	4 1/4	8 5/8	13 1/2	8	66	6	8 7/8	72	4 F	1 1/4 T	103.5	397
G8214SD	G8414SD	5	3 T	4	2 T	2	4 1/4	8 5/8	13 1/2	8	78	6	8 7/8	84	4 F	1 1/4 T	121.4	418
G8216SD	G8416SD	5	3 T	4	2 T	2	4 1/4	8 5/8	13 1/2	8	90	6	8 7/8	96	6 F	1 1/4 T	139.4	481
G8218SD	G8418SD	5	3 T	4	2 T	2	4 1/4	8 5/8	13 1/2	8	102	6	8 7/8	108	6 F	1 1/4 T	157.4	524
G8220SD	G8420SD	5	3 T	4	2 T	2	4 1/4	8 5/8	13 1/2	8	114	6	8 7/8	120	6 F	1 1/4 T	175.3	568

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

10 Inch Diameter

G10204SD	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
G10206SD	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
G10208SD	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 / ₄ T	109.3	471
G10210SD	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 / ₄ T	138.7	532
G10212SD	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 / ₂ T	167.2	593
G10214SD	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 / ₂ T	197.2	654
G10216SD	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
G10218SD	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
G10220SD	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 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		
G12206SD	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 / ₄ T	113.1	589
G12208SD	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 / ₄ T	155.6	675
G12210SD	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 / ₂ T	198.0	760
G12212SD	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
G12214SD	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
G12216SD	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 / ₂ T	325.7	1020
G12218SD	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 / ₂ T	368.2	1106
G12220SD	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 / ₂ T	410.7	1190

14 Inch Diameter

G14206SD	G14406SD	26	6F	19	13	13	4F	19	12 ³ / ₄	14	21	10	29	8 ³ / ₄	12	37 ¹ / ₄	6F	1 ¹ / ₄ T	157.6	787
G14208SD	G14408SD	26	6F	19	13	13	4F	19	12 ³ / ₄	14	21	10	40 ¹ / ₂	8 ³ / ₄	12	49 ¹ / ₄	6F	2T	213.2	956
G14210SD	G14410SD	26	6F	19	13	13	4F	19	12 ³ / ₄	14	21	10	52 ¹ / ₂	8 ³ / ₄	12	61 ¹ / ₄	6F	2T	268.8	1122
G14212SD	G14412SD	26	6F	19	13	13	4F	19	12 ³ / ₄	14	21	10	64 ¹ / ₂	8 ³ / ₄	12	73 ¹ / ₄	8F	2T	324.5	1286
G14214SD	G14414SD	26	6F	19	13	13	4F	19	12 ³ / ₄	14	21	10	76	9 ⁵ / ₈	12	85 ¹ / ₄	8F	2 ¹ / ₂ T	380.0	1449
G14216SD	G14416SD	26	6F	19	13	13	4F	19	12 ³ / ₄	14	21	10	88	9 ⁵ / ₈	12	97 ¹ / ₄	8F	2 ¹ / ₂ T	435.7	1586
G14218SD	G14418SD	26	6F	19	13	13	4F	19	12 ³ / ₄	14	21	10	100	9 ⁵ / ₈	12	109 ¹ / ₄	10F	2 ¹ / ₂ T	491.5	1778
G14220SD	G14420SD	26	6F	19	13	13	4F	19	12 ³ / ₄	14	21	10	112	9 ⁵ / ₈	12	121 ¹ / ₄	10F	3T	547.0	1943

16 Inch Diameter

G16206SD	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 / ₂ T	217.6	1042
G16208SD	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
G16210SD	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 / ₂ T	371.5	1476
G16212SD	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 / ₂ T	448.4	1698
G16214SD	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 / ₂ T	525.2	1879
G16216SD	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
G16218SD	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
G16220SD	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

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

Typical Dimensions

18 Inch Diameter

Model Number		Fabricated Steel Heads								Dimensions (Inches)										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			
G18206SD	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	
G18208SD	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	
G18210SD	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 / ₂ T	465.2	1817	
G18212SD	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	
G18214SD	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	
G18216SD	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	
G18218SD	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	
G18220SD	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

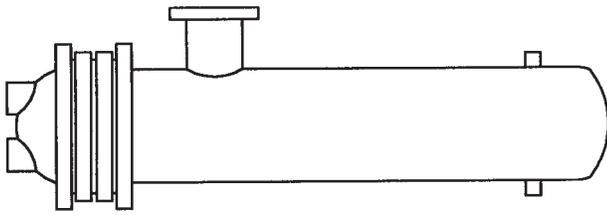
G20206SD	G20406SD	32 ¹ / ₂	6F	22	15 ¹ / ₂	16 ¹ / ₄	4F	22	17 ¹ / ₄	20	27 ¹ / ₂	13	27 ¹ / ₂	11 ³ / ₄	15	36 ³ / ₄	8F	2T	341.3	1550
G20208SD	G20408SD	32 ¹ / ₂	6F	22	15 ¹ / ₂	16 ¹ / ₄	4F	22	17 ¹ / ₄	20	27 ¹ / ₂	13	39	12 ¹¹ / ₁₆	15	48 ³ / ₄	8F	2 ¹ / ₂ T	456.6	1880
G20210SD	G20410SD	32 ¹ / ₂	6F	22	15 ¹ / ₂	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
G20212SD	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
G20214SD	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
G20216SD	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
G20218SD	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
G20220SD	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.)

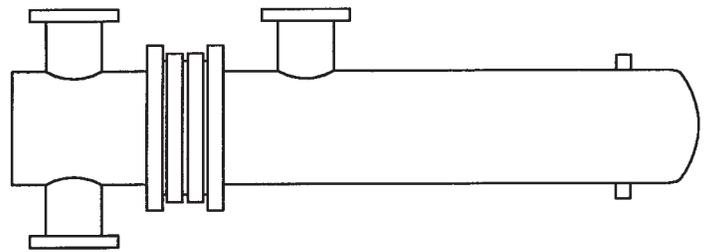


Cu-Cu CuNi-CuNi Cu-CuNi





4" - 10"



12" - 20"

Features

- Constructed in accordance with ASME Section VIII.
- 3/4" double wall copper enhanced heating surface
- High degree of flexibility in materials to meet varying conditions.
- Available in 2, 4, or 6 pass construction.
- All fabrication done in-house.
- Computerized selections.
- National board registration

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, Fabricated 304ss/316ss
	12" - 20"	Fabricated Steel	Fabricated 304ss/316ss
Tubes		3/4 x 18 BWG Double Wall Copper	3/4 x 18 BWG Double Wall Copper/CuNi 3/4 x 18 BWG Double Wall CuNi/CuNi
Tube Sheet		Steel	304ss, 316ss
Separators		Steel	Brass, 304ss, 316ss, 90/10 CuNi
Tie Rods		Copper	304ss, 316ss, steel
Nuts and Bolts		Steel	—



Sizing and Selection

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

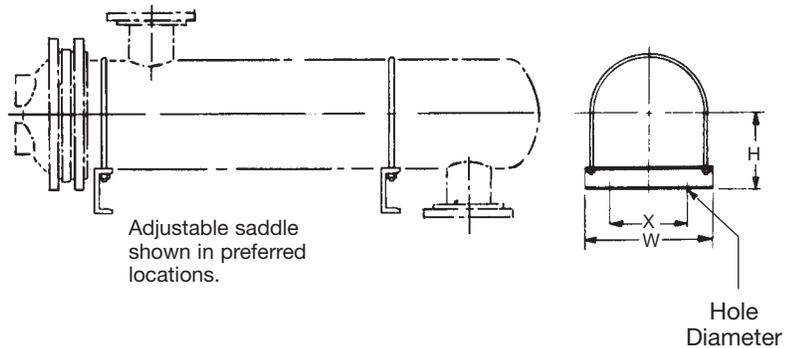
Computer selections available through TACO Representatives.

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.

Typical Saddle Dimensions (Optional)

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



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

Do it Once. Do it Right.

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