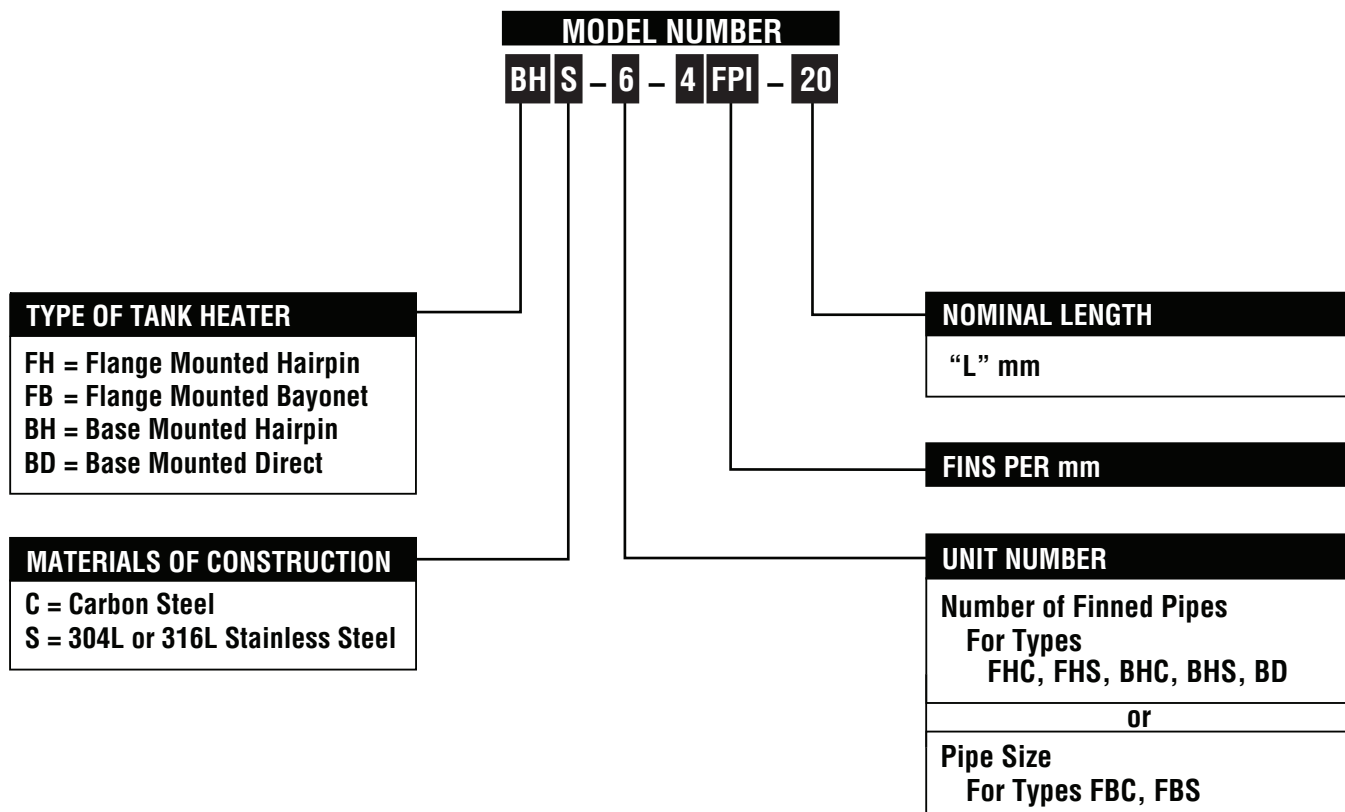
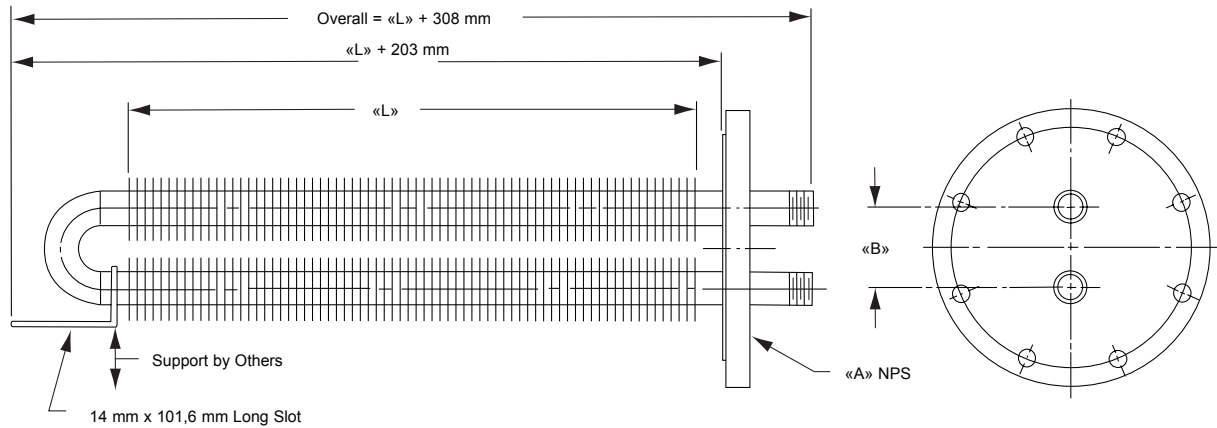


Model Number Selection





Standard Sizes

Table C-308-1. FHC Carbon Steel Units

Type	A Flange size (mm)	B (mm)	Nominal Length L (mm)	Surface area (m ²)			Weight (kg)					
				3 fpi	4 fpi	5 fpi	3 fpi	4 fpi	5 fpi			
FHC-2	203	95	610	1,08	1,38	1,68	32,23	33,60	34,96			
			915	1,62	2,07	2,53	36,77	39,04	40,86			
			1 220	2,16	2,77	3,37	41,31	44,04	46,76			
			1 525	2,69	3,46	4,22	46,31	49,49	52,66			
			1 830	3,23	4,14	5,05	50,85	54,48	58,57			
			2 135	3,77	4,84	5,90	55,39	59,93	64,47			
			2 440	4,31	5,53	6,74	59,93	65,38	70,37			
			2 745	4,86	6,22	7,58	64,47	70,37	76,27			
			3 050	5,40	6,91	8,43	69,46	75,82	82,17			
			FHC-4	254	134	610	2,03	2,59	3,16	56,30	59,02	61,29
						915	3,10	3,98	4,85	65,38	69,46	73,09
						1 220	4,18	5,36	6,53	74,91	79,90	84,90
1 525	5,26	6,74				8,22	83,99	90,80	96,70			
1 830	6,34	8,12				9,90	93,52	101,24	108,51			
2 135	7,41	9,50				11,58	102,60	11,68	120,31			
2 440	8,49	10,89				13,28	11,68	122,13	132,11			
2 745	9,58	12,27				14,96	121,22	132,57	143,92			
3 050	10,66	13,65				16,65	130,30	143,46	155,72			

Table C-308-2. FHS Stainless Steel Units

Type	A Flange size (mm)	B (mm)	Nominal Length L (mm)	Surface area (m ²)			Weight (kg)					
				3 fpi	4 fpi	5 fpi	3 fpi	4 fpi	5 fpi			
FHS-2	203	95	610	0,82	1,03	1,24	27,24	27,69	28,15			
			915	1,22	1,54	1,87	29,51	60,42	31,33			
			1 220	1,63	2,06	2,50	32,23	33,14	34,05			
			1 525	2,03	2,57	3,12	34,50	35,87	37,23			
			1 830	2,44	3,09	3,74	37,23	38,59	39,95			
			2 135	2,84	3,60	4,37	39,50	41,31	43,13			
			2 440	3,25	4,12	4,99	41,77	44,04	45,85			
			2 745	3,66	4,64	5,61	44,49	46,76	49,03			
			3 050	4,07	5,16	6,24	46,76	49,49	51,76			
			FHS-4	254	134	610	1,63	2,06	2,50	45,40	46,31	47,67
						915	2,44	3,09	3,74	50,39	51,76	53,57
						1 220	3,25	4,12	4,99	55,39	57,20	59,47
1 525	4,07	5,16				6,24	59,93	62,65	65,38			
1 830	4,88	6,19				7,49	64,92	68,10	71,28			
2 135	5,69	7,22				8,73	69,92	73,55	77,18			
2 440	6,50	8,25				9,99	74,91	79,00	83,08			
2 745	7,32	9,28				11,23	79,90	84,44	88,98			
3 050	8,14	10,31				12,48	84,44	89,89	94,89			

Materials of Construction

Pipes: 31,75 mm NPS Sch. 80 Seamless Steel (42 mm OD x 4,85 Wall)

Fins: 0,91 mm Thick Helically Wound Steel «L» Foot

Return Bends: A-234 Long Radius Forged Steel Sch. 80

Mounting Flange: A-105 Forged Steel, 68 kg Raised Face

Mechanical Design: 31 bar, 343 C°, Hydro Test 47,5 bar

Materials of Construction

Pipes: 31,75 mm NPS Sch. 10, 304L SS (42 mm OD x 4,85 mm Wall)

Fins: 0,50 mm Thick Helically Wound 304 SS «L» Foot

Return Bends: A-403 Long Radius 304L SS Sch. 10

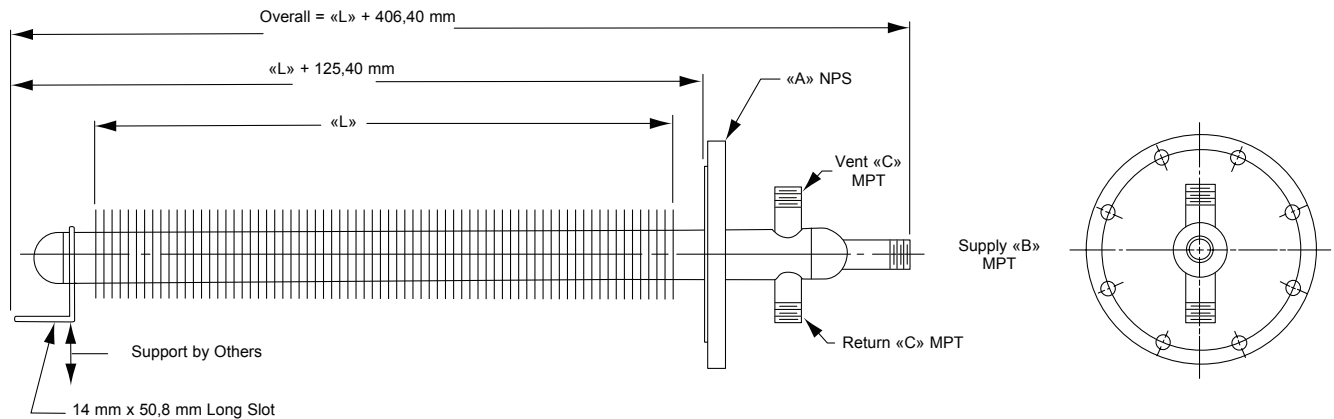
Mounting Flange: A-182 304L SS, 68 kg Raised Face

Mechanical Design: 31 bar, 343 C°, Hydro Test 47,5 bar

NOTE: Type 316L SS Construction is available.

All dimensions and weights are approximate. Use certified print for exact dimensions. Design and materials are subject to change without notice.

Flange Mounted Bayonet Type FBC and FBS



Standard Sizes

Table C-309-1. FBC Carbon Steel Units

Type	A Flange size (mm)	B (mm)	C (mm)	Nominal Length L (mm)	Surface area (m ²)			Weight (kg)						
					3 fpi	4 fpi	5 fpi	3 fpi	4 fpi	5 fpi				
FBC-125	102	95	95	610	0,54	0,69	0,85	14,98	15,44	15,89				
				915	0,81	1,04	1,26	17,71	18,61	19,07				
				1 220	1,08	1,38	1,68	20,43	21,34	22,70				
				1 525	1,35	1,73	2,11	23,15	24,52	25,88				
				1 830	1,62	2,07	2,53	25,88	27,24	29,60				
				2 135	1,89	2,42	2,95	28,60	30,42	32,69				
				2 440	2,16	2,77	3,37	31,33	33,60	35,87				
				2 745	2,42	3,11	3,79	34,05	36,32	39,04				
				3 050	2,69	3,46	4,22	36,77	39,50	42,22				
				FBC-200	152	25	25	610	0,73	0,94	1,14	22,70	23,61	24,52
								915	1,10	1,40	1,71	26,79	28,15	29,51
								1 220	1,46	1,88	2,29	30,42	32,23	34,05
1 525	1,83	2,34	2,85					34,50	36,77	39,04				
1 830	2,19	2,81	3,43					38,59	41,31	43,58				
2 135	2,56	3,28	3,99					42,68	45,85	48,58				
2 440	2,93	3,74	4,57					46,31	49,94	53,57				
2 745	3,29	4,22	5,14					50,39	54,48	58,11				
3 050	3,66	4,68	5,71					54,48	59,02	63,11				
FBC-250	152	32	25					610	0,85	1,10	1,33	27,24	28,15	29,51
								915	1,28	1,64	2,00	32,69	34,05	35,87
								1 220	1,71	2,18	2,67	38,14	40,41	42,68
				1 525	2,14	2,73	3,33	44,04	46,31	49,03				
				1 830	2,56	3,28	3,99	49,49	52,21	55,84				
				2 135	2,99	3,83	4,66	54,93	58,57	62,20				
				2 440	3,42	4,38	5,33	60,38	64,47	68,55				
				2 745	3,85	4,92	5,99	65,83	70,37	75,36				
				3 050	4,09	5,47	6,66	71,73	76,27	81,72				

Table C-309-2. FBS Stainless Steel Units

Type	A Flange size (mm)	B (mm)	C (mm)	Nominal Length L (mm)	Surface area (m ²)			Weight (kg)						
					3 fpi	4 fpi	5 fpi	3 fpi	4 fpi	5 fpi				
FBS-125	102	95	95	610	0,41	0,51	0,62	12,26	12,71	13,17				
				915	0,61	0,77	0,94	14,07	14,53	14,98				
				1 220	0,82	1,03	1,24	15,44	16,34	16,80				
				1 525	1,01	1,29	1,56	17,25	17,71	18,61				
				1 830	1,22	1,54	1,87	18,61	19,52	20,43				
				2 135	1,42	1,80	2,18	20,43	21,34	22,70				
				2 440	1,63	2,06	2,50	21,79	23,15	24,52				
				2 745	1,83	2,32	2,81	23,61	24,97	26,33				
				3 050	2,03	2,57	3,12	24,97	26,33	28,15				
				FBS-200	152	25	25	610	0,56	0,70	0,85	18,61	19,07	19,52
								915	0,83	1,05	1,26	20,88	21,79	22,25
								1 220	1,11	1,39	1,69	23,15	24,06	24,97
1 525	1,38	1,75	2,11					25,88	26,79	27,69				
1 830	1,66	2,10	2,54					28,15	29,06	30,42				
2 135	1,93	2,44	2,95					30,42	31,78	33,14				
2 440	2,21	2,80	3,38					32,69	34,50	35,87				
2 745	2,49	3,14	3,80					34,96	36,77	38,59				
3 050	2,77	3,49	4,23					37,68	39,50	41,31				
FBS-250	152	32	25					610	0,64	0,81	0,98	20,88	21,34	21,79
								915	0,97	1,21	1,46	24,06	24,52	25,42
								1 220	1,28	1,62	1,95	26,79	27,69	28,60
				1 525	1,61	2,02	2,43	29,96	31,33	32,23				
				1 830	1,92	2,42	2,93	33,14	34,50	35,41				
				2 135	2,25	2,82	3,41	36,32	37,68	39,04				
				2 440	2,56	3,23	3,90	39,04	40,86	42,68				
				2 745	2,89	3,63	4,38	42,22	44,04	45,85				
				3 050	3,21	4,04	4,88	45,40	47,67	49,49				

Materials of Construction

FBC-125 Pipes:

31,75 mm NPS Sch. 40 Seamless Steel (42 mm OD x 3,55 mm Wall)

FBC-200 Pipes:

50,80 mm NPS Sch. 40 Seamless Steel (60,32 mm OD x 3,91 mm Wall)

FBC-250 Pipes:

63,50 mm NPS Sch. 40 Seamless Steel (73 mm OD x 5,15 mm Wall)

Fins: 0,91 mm Thick Helically Wound Steel «L» Foot

Inner Distributing Pipe: Sch. 80A-53F Steel

End Caps: A-234 Forged Steel Sch. 40

Mounting Flange: A-105 Forged Steel, 68 kg Raised Face

Mechanical Design: 31 bar, 343 C°, Hydro Test 47,5 bar

NOTE: Sch. 80 Construction is available.

Materials of Construction

FBS-125 Pipes:

31,75 mm NPS Sch. Sch. 10, 304L SS (42 mm OD x 2,76 mm Wall)

FBS-200 Pipes:

50,80 mm NPS Sch. Sch. 10, 304L SS (60,32 mm OD x 2,76 mm Wall)

FBS-250 Pipes:

63,50 mm NPS Sch. 10, 304L SS (73 mm OD x 3 mm Wall)

Fins: 0,50 mm Thick Helically Wound 304L SS «L» Foot

Inner Distributing Pipe: Sch. 10, 304L SS

End Caps: A-403, 304L SS, Sch. 10

Mounting Flange: A-182, 304L SS 68 kg Raised Face

Mechanical Design: 31 bar, 343 C°, Hydro Test 47,5 bar

NOTE: Type 316L SS Construction is available.

All dimensions and weights are approximate. Use certified print for exact dimensions. Design and materials are subject to change without notice.



Tank Heater Selection Work Sheet

Tank Information

Tank Reference Number.....
 Tank Type.....
 Tank Material.....
 Dimensions mm
 Insulated? If yes, how thick? mm
 Open Top?.....
 Tank Level (% full) or Fluid Volume.....
 Design Ambient Air Temperature °C
 Design Wind Velocity (if outside and not insulated)..... m/S

Steam Information

Steam Pressure bar
 Saturated? If not, what temperature? °C

Fluid Information

Type of Fluid.....
 Properties (not required for water).....
 1. Specific Gravity at °C
 or Density kg/m³ at °C
 2. Specific Heat KJ/Kg x °C at °C
 3. Viscosity (at least one value required, preferably two)
 units
 at °C
 at °C

Heating Requirements

A. Through Load m³/h at °C not applicable
 B. Heat-Up Load from °C to °C in hours not applicable
 C. Maintenance Load to Hold °C
 D. Total Heat Load (if known) KJ/h

Tank Heater Requirements

1. Materials of Construction
 A. Carbon Steel.....
 B. Type 304L Stainless Steel.....
 C. Type 316L Stainless Steel.....
 2. Type of Unit
 A. Flange Mounted (preference? Hairpin Bayonet)
 B. Base Mounted (preference? Hairpin Direct)
 If flange mounted, is std. flange size OK? If not, specify size

Other Information

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Unit & Tank Heaters