GLOBAL HEAT TRANSFER

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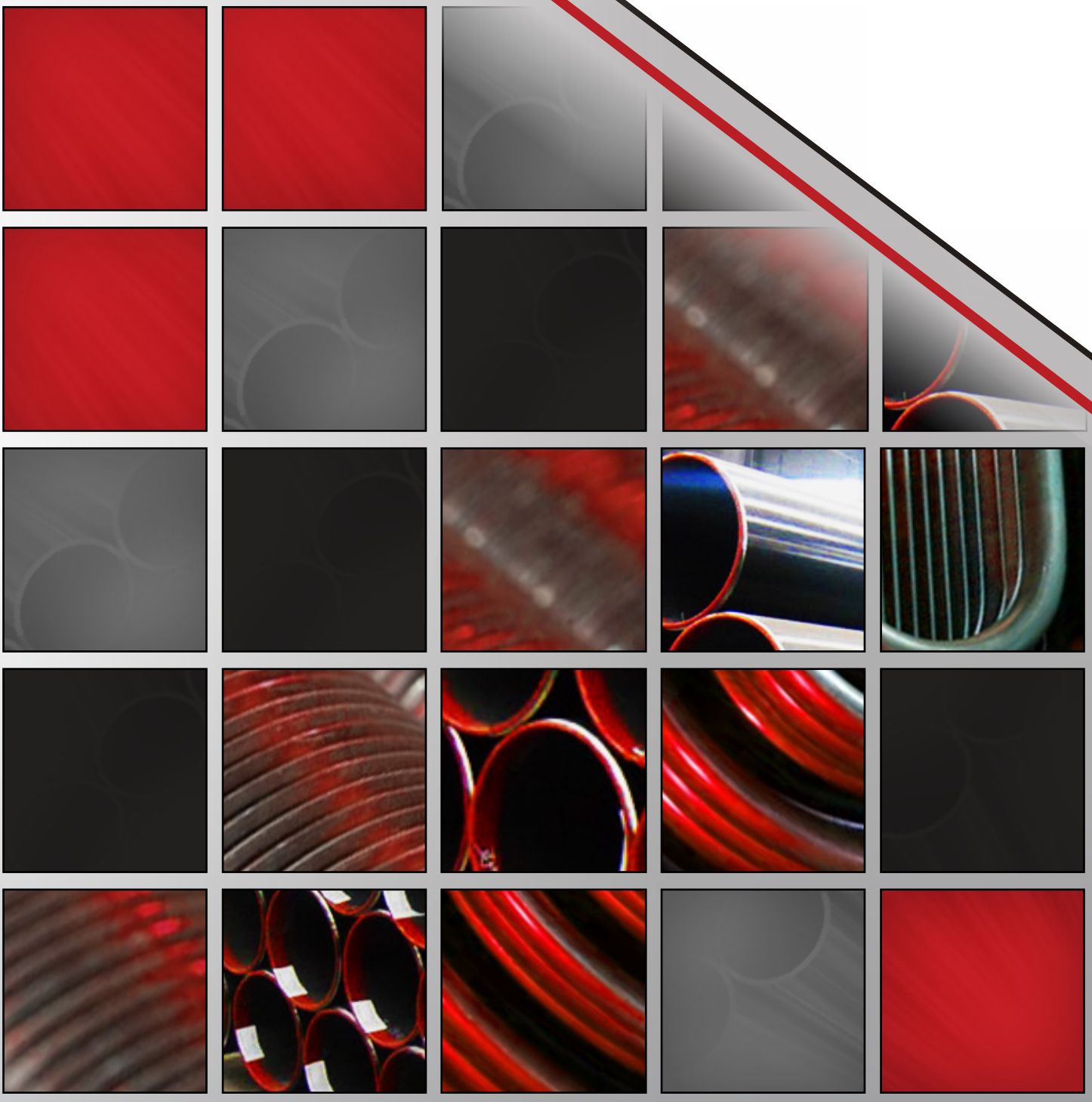
PRODUCT CATALOG



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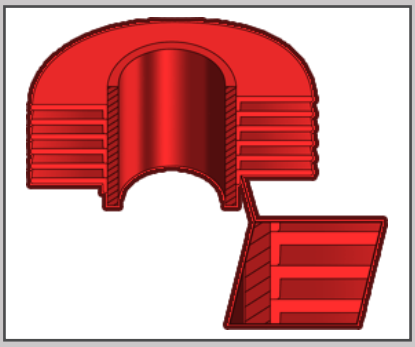
FIN TYPES

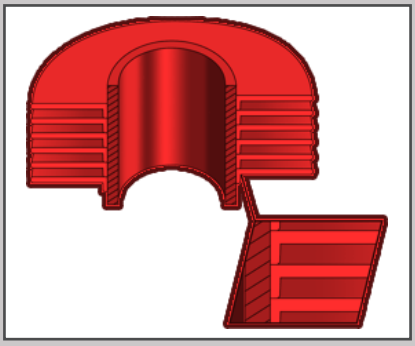
'G' EMBEDDED FINNED TUBE



The fin strip is wound into a machined groove and securely locked into place by back filling with base tube material. This ensures that maximum heat transfer is maintained at high tube metal temperatures.

TUBE	Material	Carbon Steel – Stainless Steel – Nickel Alloy
	Size (OD) (mm)	1" (25.4) – 11/4" (31.75) – 11/2" (38.1) – 2" (50.8)
	Length (mm)	~ 18,500
FIN	Material	AL 1060 – AL 1100 – Copper
	Th'k (mm)	0.35 ~ 0.5
	Height (mm)	9.5 ~ 22
FPI		8, 9, 10, 11, 12
Capacity / year (Meter)		1,080,000

'L' FINNED TUBE

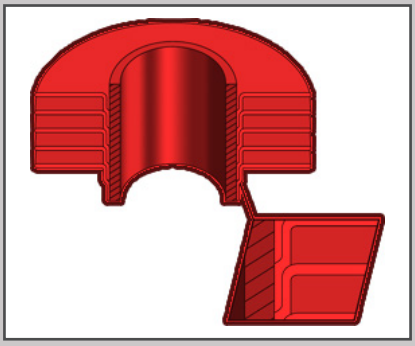


The strip material is subjected to controlled deformation under tension giving the optimum contact pressure of the foot of the fin onto the base tube thus maximising the heat transfer properties.

The foot of the fin considerably enhances the corrosion protection of the base tube

TUBE	Material	Carbon Steel – Stainless Steel – Nickel Alloy – Titanium
	Size (OD) (mm)	5/8" (15.88) – 3/4" (19.05) – 1" (25.4) – 11/4" (31.75) – 11/2" (38.1) – 2" (50.8)
	Length (mm)	~ 18,500
FIN	Material	AL 1060 – AL 1100 – Copper
	Th'k (mm)	0.35 ~ 0.7
	Height (mm)	8 ~ 22
FPI		7, 8, 9, 10, 11
Capacity / year (Meter)		1,080,000

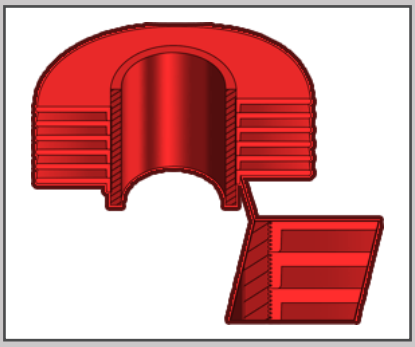
'LL' FINNED TUBE



Manufactured in the same way as the 'L' finned tube type except that the fin foot is overlapped to completely enclose the base tube thereby giving excellent corrosion resistance. This type of finned tube is often used as an alternative to the more expensive extruded type fin in corrosive environments.

TUBE	Material	Carbon Steel – Stainless Steel – Nickel Alloy – Titanium
	Size (OD) (mm)	3/4" (19.05) – 1" (25.4) – 11/4" (31.75) – 11/2" (38.1) 2" (50.8)
	Length (mm)	~ 18,500
FIN	Material	AL 1060 – AL 1100 – Copper
	Th'k (mm)	0.35 ~ 0.5
	Height (mm)	8 ~ 22
FPI		7, 8, 9, 10, 11
Capacity / year (Meter)		1,080,000

'KL' FINNED TUBE



Manufactured exactly as the 'L' finned tube except that the base tube is knurled before application of the fin foot. After application, the fin foot is knurled into the corresponding knurling on the base tube thereby enhancing the bond between the fin and tube, resulting in improved heat transfer characteristics.

TUBE	Material	Carbon Steel – Stainless Steel – Nickel Alloy – Titanium
	Size (OD) (mm)	3/4" (19.05) – 1" (25.4) – 11/4" (31.75) – 11/2" (38.1) 2" (50.8)
	Length (mm)	~ 18,500
FIN	Material	AL 1060 – AL 1100 – Copper
	Th'k (mm)	0.35 ~ 0.5
	Height (mm)	8 ~ 22
FPI		7, 8, 9, 10, 11
Capacity / year (Meter)		1,200,000

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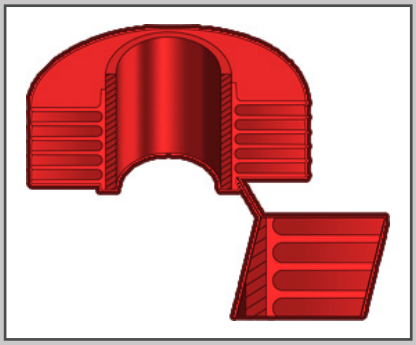
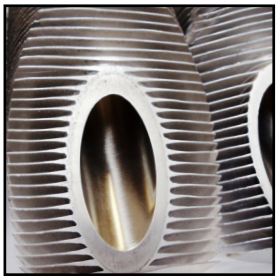
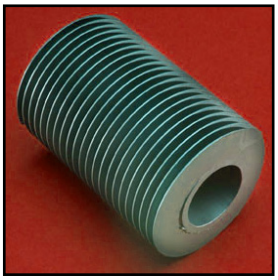
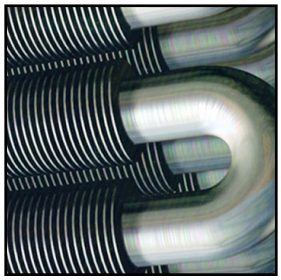
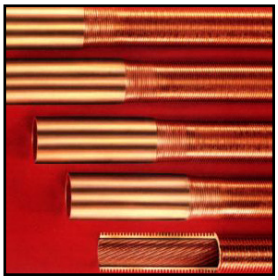
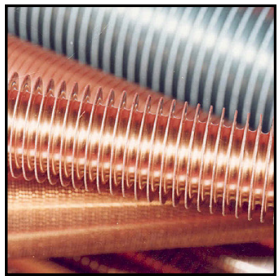
EXTRUDED FINNED TUBE



This fin type is formed from a bi-metallic tube consisting of an aluminium outer tube and an inner tube of almost any material. The fin is formed by rolling material from the outside of the exterior tube to give an integral fin with excellent heat transfer properties and longevity. Extruded fin offers excellent corrosion protection of the base tube.

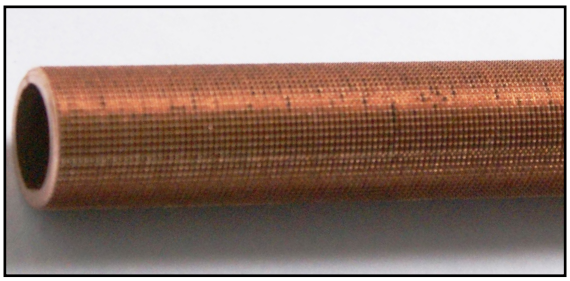
TUBE	Material	Carbon Steel – Stainless Steel – Nickel Alloy – Titanium
	Size (OD) (mm)	1" (25.4) – 11/4" (31.75) – 11/2" (38.1)
	Length (mm)	~ 15,000
FIN	Material	AL 1060 – AL 6060 – AL 6063
	Th'k (mm)	0.4
	Height (mm)	~15.88
FPI		7, 8, 9, 10, 11
Capacity / year (Meter)		1,200,000

High Finned Tube

Item	Fins/ inch	Nominal dimensions mm Finned section dimensions (mm)		Finned section dimensions (mm)				Out surface area (mm)	Out surface area (mm)	Out surface area (mm)
		Inside Diameter	Wall Thickness	Actual inside diameter	Wall thickness (Min)	Fin Diameter (Min)	Root Diameter (Min)			
High Finned Tube	7	15.88	1.651	16.03	88	1.549	19.05	0.536	10.62	201.7
		22.23	1.651	22.38	88	1.549	25.40	0.713	10.13	393.5
	8	22.23	1.651	22.38	88	1.549	25.40	0.790	11.24	393.2
	9	15.88	1.651	16.03	88	1.549	19.05	0.664	13.18	201.7

Low Finned Tube



No	Standards	Material	Application
1	ASTM A498	Carbon & Carbon alloy	Heat exchanger for Oil refinery and Petrochemical plants
2	ASTM A1012	Stainless & Duplex alloy	Condensor and Heat exchanger Petrochemical & Power plants
3	ASTM B359 / ASME SB359	Copper & Copper alloy	Heat exchanger for Petrochemical plants, Condensor & Evaporator for Power plants
4	ASTM B891	Titanium & Titanium alloy	Condensor and Heat exchanger for Steam & Nuclear power plants
5	ASTM B924	Nickel alloy	Condensor and Heat exchanger for Chemical plants

Plain Heat Exchanger Tubes

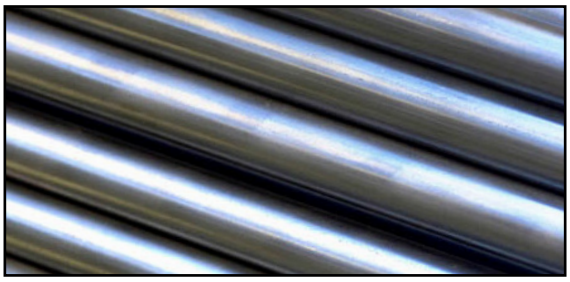
We stock approximately 1000 tonnes of high quality certified heat exchanger tube in numerous sizes and materials which can be packed and shipped to any destination in Latin America.

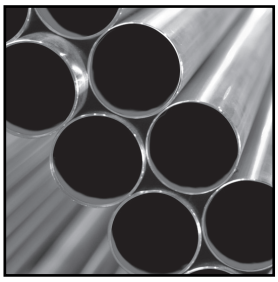
Stock Tube

Global Heat Transfer's experience, location and flexibility ensures fast and efficient execution of all stock tube inventories.

Special Alloys

Global Heat Transfer is able to supply a wide range of corrosion-resistant alloys to suit emergency and planned maintenance requirements. Tubes can be supplied in welded, welded and cold-reduced or seamless form. Materials include, but are not limited to, 31803 Duplex, 904L, Nickel 200, 201, C276, Alloy 400/600/800 series, Titanium Grade 2/12 and others.






Carbon	Chromiun	Stainless Steel	Copper & Bronze	Titanium	Alloy
SA-179	SA-213-T2	SA-213	SB-111 C70600	SB-338 G1	B-163 UNS825
SA-192	SA-213-T5	SA-249	SB-111 C71500	SB-388 G2	B-163 UNS800
SA-178 A	SA-213-T9	SA-269	SB-111 C44300	SB-388 G3	B-444 UNS625
SA-178 C	SA-213-T11	SA-268	SB-111 C68700	SB-388 G4	B-163 UNS400
SA-210 C	SA-213-T12	SA-376		SB-388 G5	
SA-210 A1	SA-213-T22	SA-789		SB-388 G7	
SA-214	SA-213-T91	TP 304		SB-388 G9	
		TP 304L		SB-388 G11	
		TP 304H		SB-388 G12	
		TP 316		SB-388 G16	
		TP 316L			
		TP 321			
		TP 321H			
		TP 317			
		TP 317L			
		TP347			
		TP 347H			
		TP 310S			
		TP 310H			
		TP904L			
		S32304			
		S31803			
		S31803			
		S32205			

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Materials Available

Carbon Steel, Austenitic/Ferritic, Stainless, Duplex/Super Duplex, All Nickel Alloys Titanium, Copper Nickel and Aluminium Brass.

Testing

All materials are hydro-tested as standard. Stress relieving is carried out in a gas-fired furnace or solution annealed using an induction heat process. We can offer a range of additional testing on request, including dye penetrant and PMI testing.

Packing

Global Heat Transfer packs all U Tube bundles in bespoke wooden boxes and separate all U Tubes of different radii using finger pallets to facilitate easy assembly of bundles on receipt.

Carbon	Chromiun	Stainless Steel	Copper & Bronze	Titanium	Alloy
SA-179	SA-213-T2	SA-213	SB-111 C70600	SB-338 G1	B-163 UNS825
SA-192	SA-213-T5	SA-249	SB-111 C71500	SB-388 G2	B-163 UNS800
SA-178 A	SA-213-T9	SA-269	SB-111 C44300	SB-388 G3	B-444 UNS625
SA-178 C	SA-213-T11	SA-268	SB-111 C68700	SB-388 G4	B-163 UNS400
SA-210 C	SA-213-T12	SA-376		SB-388 G5	
SA-210 A1	SA-213-T22	SA-789		SB-388 G7	
SA-214	SA-213-T91	TP 304		SB-388 G9	
		TP 304L		SB-388 G11	
		TP 304H		SB-388 G12	
		TP 316		SB-388 G16	
		TP 316L			
		TP 321			
		TP 321H			
		TP 317			
		TP 317L			
		TP347			
		TP 347H			
		TP 310S			
		TP 310H			
		TP904L			
		S32304			
		S31803			
		S31803			
		S32205			

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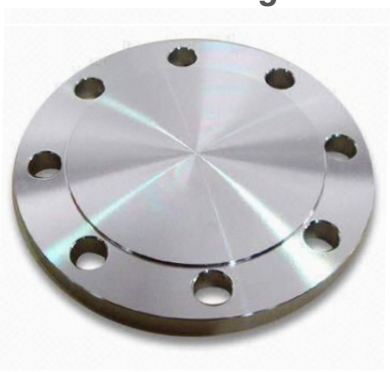
Flanges

Blind Flange



Welding Neck

Welding Neck Flange

Material: ASTM A-105, ASTM A-694, GR F 42 TO F70, ASTM A-350 GR LF2

Standards	Material	Nominal Size		
		WN	SO	
AISI / ASME B16.5	150 - 300	6-24	6-24	6-24
	400	4-24	4-24	4-24
	600	6-24	6-24	6-24
	900	4-24	4-24	4-24
	1500	4-24	4-24	4-24
	2500	3-12	3-12	3-12
BS 3293	150	26-48	26-48	
	300 - 400 - 600	26-36		
ASME B16.47SERIE A (MSS SP 44)	150 - 300 - 600	26-60		26-60
	900	26-48		26-48
ASME B16.47SERIE B (AP1 605)	150 - 300	26-60		26-60
	400 - 600 - 900	26-48		26-48
AWW C207	B, D & E		26-72	24-72

Products: Disks Forge, Rings Forge, Flanges Forge, Weld neck Flanges, Long Weld neck and Nozzles, TEMA Flanges/Tube Sheets, Spectacle/Paddle/Spacer, Ferrules, and Heat Exchanger Components

Material: A-516 GR 70, A-105/A-105-N, A-350 LF2, LF3, A-266, A-688 all classes, A350-LF3, A-707 L5 CL.3405, 410, 416, 420, 430, 304H, 304/304ELC, 310, 316H, 316/316ELC, 317ELC, 321, 347Alloy 20CB, 630 (17-4), Duplex SS 2205 (F-51), Nitronic 50 (XM-19), and Nitronic 60, Ferralium 255Monel 400, Monel 500, Inconel 600, 625, 718, Incoloy 800 H/HT Our materials are to meet ASTM, ASME, ABS

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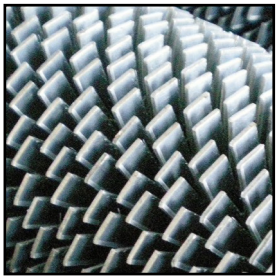

Surface area of spiral solid finned tube

Standard	Metric	0.8			1.2			1.5			1.9			2.60			Fin Height h (mm)
		3	5	7	3	5	7	2	4	6	1.5	3	4	1.5	3	4	
1”	25.4mm	0.44	0.68	0.92	0.44	0.68	0.92	0.32	0.58	0.8	0.26	0.44	0.68	0.32	0.44	0.58	12.7
1 1/4”	31.8mm	0.67	1.05	1.42	0.67	1.05	1.42	0.47	0.85	1.23	0.38	0.67	1.05	0.47	0.67	0.85	16
1 1/2”	38.1mm	0.92	1.46	1.99	0.92	1.46	1.99	0.65	1.19	1.73	0.52	0.92	1.46	0.65	0.92	1.19	19
2”	50.8mm	1.35	2.14	2.93	1.35	2.14	2.93	0.95	1.74	2.54	0.75	1.35	2.14	0.95	1.35	1.74	22
2 1/2”	63.5mm	1.60	2.53	3.46	1.60	2.53	3.46	1.13	2.06	2.99	0.09	1.60	2.53	1.13	1.60	2.06	22
3	76.2mm	1.84	2.91	3.98	1.84	2.91	3.98	1.31	2.38	3.45	1.04	1.84	2.91	1.31	1.84	2.38	22
3 1/2”	88.9mm	2.40	3.80	5.21	2.40	3.80	5.21	1.67	3.10	4.51	1.34	2.40	3.80	1.67	2.40	3.10	25
4”	101.6mm	2.67	4.23	5.80	2.67	4.23	5.80	1.89	3.45	5.02	1.50	2.67	4.23	1.89	2.67	3.45	25
5”	127mm	3.22	5.10	6.98	3.22	5.10	6.98	2.28	4.16	6.04	1.81	3.22	5.10	2.28	3.22	4.16	25
6”	152.4mm	4.54	7.25	9.95	4.54	7.25	9.95	3.19	5.89	8.60	2.51	4.54	7.25	3.19	4.54	5.89	30

Surface area of spiral serrated finned tube

Standard	FPI	0.8			1.2			1.5			1.9			Fin Height h (mm)
		3	5	7	3	5	7	2	4	6	1.5	3	4	
1”	3.96/4.38	0.49	0.77	1.04	0.37	0.65	0.94							1.59
1 1/4”	3.96/4.38	0.70	1.10	1.50	0.52	0.94	1.37							19.1
1 1/2”	3.96/4.38	0.82	1.29	1.76	0.62	1.10	1.60							19.1
1 3/4”	3.96/4.38	1.09	1.72	2.35	0.80	1.47	2.13							22.2
2”	3.96/4.38	1.23	1.94	2.66	0.91	1.66	2.41	0.94	1.71	2.48	1.12	1.62	1.99	22.2
2 1/4”	3.96/4.38	1.46	2.32	3.17	1.06	1.94	2.83	1.08	1.98	2.89	1.19	2.05	2.51	25.4
2 1/2”	3.96/4.38	1.61	2.55	3.50	1.17	2.15	3.12	1.19	2.19	3.18	1.23	2.26	2.77	25.4
3”	3.96/4.38	2.34	3.75	5.15	1.69	3.14	4.58	1.72	3.20	4.68	1.78	3.31	4.08	31.8

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