



GENERAL
tech

PANCAKE COIL

Used in civil and industrial piping system in air-conditioners.

Features: bright surface finish with high-precision size easy for installation.

Suitable for use with R410A, R32 refrigerants with high pressure.

Providing all requirements in a variety of diameters, thicknesses and lengths.

Production Range of Pancake Coil Φ 4.00~25.00 x 0.30~1.50mm

W.T O.D	mm	0.30	0.35	0.40	0.45	0.50	0.55	0.60	0.63	0.65	0.70	0.75	0.80	0.90	1.0	1.20	1.50	
		mm	in	0.012	0.014	0.016	0.018	0.020	0.022	0.024	0.025	0.026	0.028	0.030	0.031	0.035	0.039	0.047
4.00																		
4.76	3/16																	
6.00																		
6.35	1/4																	
7.94	5/16																	
8.00																		
9.52	3/8																	
12.70	1/2																	
15.88	5/8																	
16.00																		
19.05	3/4																	
22.00																		
22.22	7/8																	
25.00																		

Pancake Coil Packing

Dimensions (mm)	Weight kg/m	Pancake coils per box		Pancake coils box per pallet	Weight of pallet	Pancake coils I.D	Pancake coils O.D
4.76 x 0.50	0.06	14x15m	7x30m	60 pcs	≤1000 kg	260	400
6.00 x 1	0.14	12x15m	6x30m	60 pcs	≤1000 kg	270	440
6.35 x 1	0.15	12x15m	6x30m	60 pcs	≤1000 kg	270	450
7.94 x 1	0.19	10x15m	5x30m	52 pcs	≤1000 kg	280	480
8.00 x 1	0.20	10x15m	5x30m	52 pcs	≤1000 kg	280	490
9.52 x 1	0.24	8x15m	4x30m	64 pcs	≤1000 kg	280	520
12.70 x 1	0.33	5x15m	2x30m	76 pcs	≤1000 kg	295	580
15.88 x 1	0.42	5x15m	2x30m	64 pcs	≤1000 kg	310	640
16.00 x 1	0.422	5x15m	2x30m	64 pcs	≤1000 kg	310	650
19.05 x 1	0.51	4x15m	2x30m	16 pcs	≤ 500 kg	440	750
22.22 x 1	0.59	3x15m	1x30m	18 pcs	≤ 500 kg	510	820

LEVEL WOUND COIL (LWC)

Used in air-conditioners, heat exchangers and freezers.

Providing all requirements in a variety of diameters, thicknesses and lengths.

Production Range of Level Wound Coil Φ 3.00~19.05 x 0.30~1.50mm

W.T O.D	mm	0.30	0.35	0.40	0.45	0.50	0.55	0.60	0.63	0.65	0.70	0.75	0.80	0.90	1.0	1.20	1.50	
	mm	in	0.012	0.014	0.016	0.018	0.020	0.022	0.024	0.025	0.026	0.028	0.030	0.031	0.035	0.039	0.047	0.06
3.00																		
4.00																		
4.76	3/16																	
5.00																		
6.00																		
6.35	1/4																	
7.94	5/16																	
8.00																		
9.52	3/8																	
10.00																		
12.70	1/2																	
15.88	5/8																	
16.00																		
18.00																		
19.05	3/4																	

GENERALTECH

STRAIGHT TUBE

Used in piping system connection in air-conditioners and heat exchangers.

Features: bright surface finish with high-precision size easy for welding and installation.

Providing all requirements in a variety of diameters, thicknesses and lengths.

Production Range of Straight lengths Tubes Φ 4.00~79.37 x 0.30~2.03mm

W.T																	
O.D	mm	0.30	0.35	0.40	0.45	0.50	0.55	0.60	0.65	0.70	0.75	0.80	0.90	1.0	1.20	1.50	1.60
	in	0.012	0.014	0.016	0.018	0.020	0.022	0.024	0.026	0.028	0.030	0.031	0.035	0.039	0.039	0.060	0.063
4.00																	
6.00																	
6.35	1/4																
7.00																	
7.94	5/16																
8.00																	
9.52	3/8																
10.00																	
11.00																	
12.00																	
12.70	1/2																
14.50																	
15.88	5/8																
16.00																	
17.50																	
18.00																	
19.00																	
19.05	3/4																
22.22	7/8																
24.50																	
25.00																	
28.58	1 1/8																
34.90	1 3/8																
41.27	1 5/8																
53.97	2 1/8																
66.67	2 5/8																
79.37	3 1/8																

INNER GROOVED TUBE

Inner Grooved Tubes are internally grooved and designed primarily for direct expansion chillers.

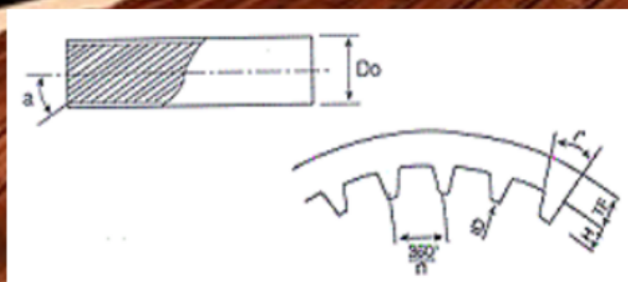
Inner grooved tubes are used for air conditioning applications where liquid is cooled outside the tubes by refrigerant evaporating inside the tubes. Also, they are used in heat exchangers where refrigerant evaporates or condenses inside the tubes.

Inner grooved tubes have 1.5 to 2 times heat transfer rate in comparison to the plain tubes; therefore, less tubes will be used.

They are produced in different forms such as LWC, Straight and Pancake.

LWC FOR ACR SERIES (INNER GROOVED)

Specification	Outside Diameter O.D	Bottom Wall Thickness T.W	Groove Depth Hf	Fin Angle α	Inclination Angle β	Number of Grooves N
$\Phi 9.52 \times 0.34 + 0.20$	9.52	0.34	0.20	53°	25°	62
$\Phi 9.52 \times 0.45 + 0.20$	9.52	0.45	0.20	53°	25°	60
$\Phi 12.70 \times 0.43 + 0.20$	12.70	0.43	0.20	53°	25°	70
$\Phi 15.88 \times 0.58 + 0.30$	15.88	0.58	0.30	53°	25°	75
$\Phi 15.88 \times 0.62 + 0.30$	15.88	0.62	0.30	53	25	77



Low Finned Tubes

Tube No.	Plain Section			Finned Section <small>fin height h = 0.9-1.5mm</small>						K21	
	in	mm	S1	FPI	d3	d4	S2	A _s <small>(m²/m)</small>	A _s /A _i <small>(-)</small>	kg/m	
MA LF1219125	1/2	12.7	1.25	19	11.1	12.7	0.8	0.12	3.6	0.46	
MA LF1519130	5/8	15.87	1.3	19	10.9	12.7	0.9	0.12	3.7	0.49	
MA LF1919120	3/4	19.05	1.2	19	14.4	15.8	0.7	0.15	3.3	0.53	
MA LF1919135	3/4	19.05	1.35	19	14	15.8	0.9	0.15	3.5	0.60	
MA LF1919145	3/4	19.05	1.45	19	13.8	15.8	1.0	0.15	3.6	0.65	
MA LF1926125	3/4	19.05	1.25	26	11.1	12.7	0.8	0.16	4.6	0.48	
MA LF1526130	5/8	15.87	1.3	26	10.9	12.7	0.9	0.16	4.7	0.51	
MA LF1926125	3/4	19.05	1.25	26	14.2	15.8	0.8	0.20	4.5	0.60	
MA LF1926135	3/4	19.05	1.35	26	14	15.8	0.9	0.20	4.5	0.64	
MA LF1926145	3/4	19.05	1.45	26	13.8	15.8	1.0	0.20	4.6	0.68	
MA LF1936120	3/4	19.05	1.2	36	15.4	17.0	0.8	0.17	3.6	0.51	
MA LF1940120	3/4	19.05	1.2	40	15.4	17.0	0.8	0.20	4.1	0.51	

Enhanced Finned Tubes

Tube No.	Plain Section			Finned Section						K21	
	in	mm	S1	FPI	D3	D4	D5	S2	A _s <small>(m²/m)</small>	A _s /A _i <small>(-)</small>	kg/m
MAET12130	1/2	12.7	1.3	19	9.1	10.7	12.6	0.7	0.10	3.59	0.36
MAET15135	5/8	15.87	1.35	19	12.3	13.9	15.8	0.7	0.13	3.38	0.47
MAET19135	3/4	19.05	1.35	19	15.4	17.0	18.9	0.7	0.16	3.26	0.60

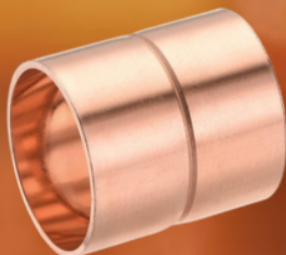
Low finned tubes are mainly used in applications such as condensers, evaporators for ACR, oil coolers, heat exchangers, steam coils, vessels, Nuclear power plants, petrochemicals, various diesel coolers, heat recovery systems, and so on. They are used as a high performance heat transfer tubes because of their high external surface area and as a result high heat transfer compared to the same plain tubes.

Also our enhanced finned tubes with excellent heat transfer role and its special shaped surface have brought new ideas in shell and tube heat exchanger's design and performance. These tubes have different form of fin than other tube that makes it suitable to use for liquids with high viscosity and also suitable to use for double-tube type heat exchangers. Because of their special saw teeth on their surface, the condensed liquid become so fin when touching the tube and it will result in a very high heat transfer and increasing the performance of the heat exchanger. Various test result shows a reduction of pressure loss of the liquid when this type of tubes.

COPPER FITTINGS



TEE



COUPLING



U BEND



LONG ELBOW 90°



LONG ELBOW 45°



REDUCER

TECUMSEH COMPRESSORS



Tecumseh



Tecumseh Compressors

Item / Code	Model	Btu	Ton
AW 155 LH-025-A4Q	5524	20700	1.7
AW 164 NH-058-A4Q	5530	25200	2.1
AW 162 NH-077-A4Q	5532	26800	2.2
AW 163 NH-077-A4Q	5535	29500	2.46
MFBPXAWX397100	5538	31500	2.63

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