



PT. AREZDA PURNAMA LOKA

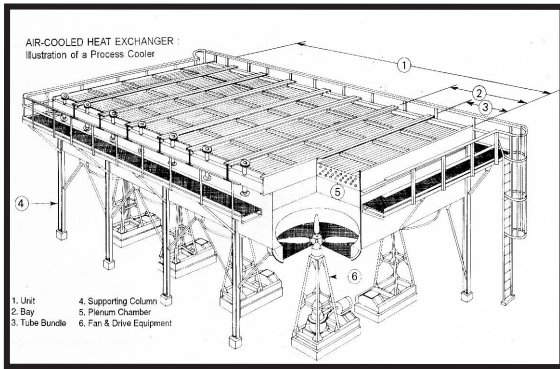
FINNED TUBES FOR HEAT EXCHANGERS



www.arezda.co.id

FINNED TUBES For Heat Exchangers

A wide selection of Finned Tubes is practicable from following “L”, “LL”, “KL”, “EXTRUDED”, and “WELDED” Types in compliance with thermal design and process fluid requirement. And various special materials for base tubes are available to suit a particular corrosive fluid. Spiral, Individually fixed fins, Serrated, and Oval finned tubes are also in the selection.



MACHINE CAPACITY

- Tube Length : Up to 60'
- Tube O.D. : 5/8" to 2"
- Fin Height : 1/4" to 1"
- Fins Per Inch : 5 to 13 FPI
- Fin type : As Classification

TUBE MATERIALS

- Stainless Steel 316/L
- Stainless Steel 304
- Copper Nickel
- Carbon Steel
- Aluminium
- Titanium
- Copper
- Brass,
- etc.

FIN MATERIALS

- Aluminium A. 1050
(99.5% Purity)
- Other Aluminium
- Stainless Steel
- Carbon Steel
- Coper
- etc.

CLASSIFICATION :

- Spiral Winding
(Hellically Wound Fins) : G, L, LL, KL[®], Extruded -Type
- Individually Fixed: Oval Finned Tube -Type
 Circularly-Welded -Type
 Longitudinally -Type
- Serrated Finned Tubes

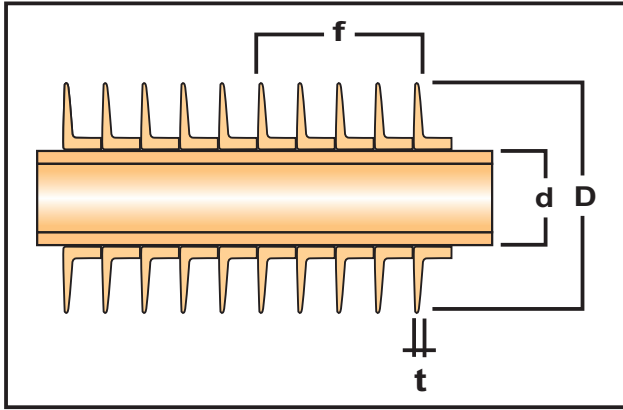
APPLICATION OF FINNED TUBES

- Air-Fin Coolers for chemical, iron and steel plants
- Air-Cooled Heat Exchangers in the oil refineries (for liquid/gas)
- Refrigeration and Air Conditioning Equipment
 - Water Cooling Towers in a power plant
 - Air Pollution Control Equipment
 - Waste Heat Recovery Equipment
 - High Pressure Steam Heaters
 - Heaters of Drying Equipment
 - Downtherm Air Heaters
 - Fired Heaters

KL[®] - Type is our registered trade mark

I. SPIRAL WINDING (HELLICALLY WOUND FINES)

L - Type (*Wrapped-On Fin*)



The “L-footed fin” is a circular fin wrapped under tension around the base tube. The feet of the fins cover the whole surface between fins. The L-foot provides a large contact area ensuring a good path for heat transfer from base tube surface to fin.

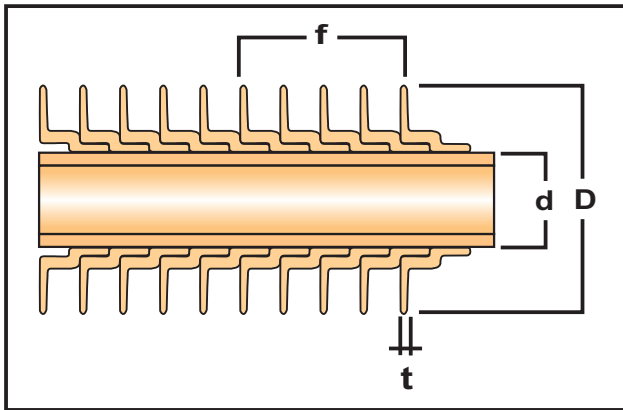
d = Diameter of Tube

D = O.D. of Finned Tube

f = Fins Per Inch

t = Fin Thickness

LL - Type (*Overlapped Fin*)



The “Overlapped L-footed Fin” is fabricated with a relatively greater amount of fin material in the foot, ensuring full coverage of the base tube and prohibiting any contact of the ambient with the base tube.

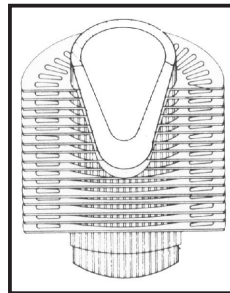
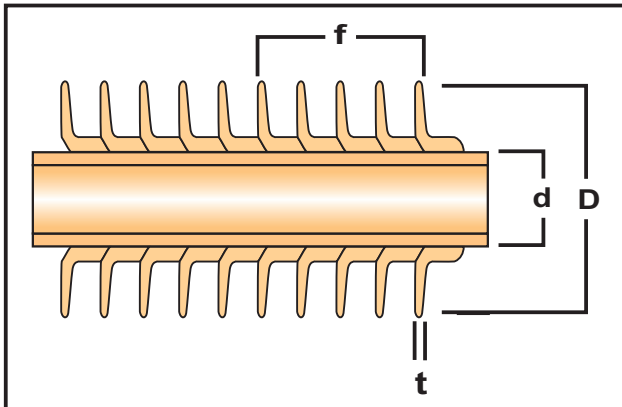
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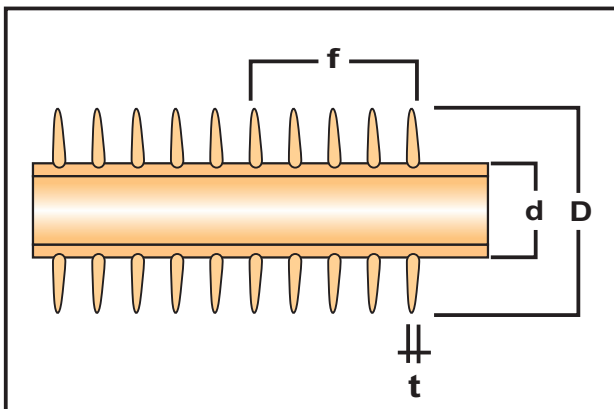
KL - Type
(Wrapped-On Knurled Footed Fin)



The “Knurled L-footed Fin” is similar to L-footed fin, unless with greater design temperature. The foot of the fin is knurled simultaneously with inner tube, ensuring a tight contact between the fins and the inner tube.

d = Diameter of Tube D = O.D. of Finned Tube f = Fins Per Inch t = Fin Thickness

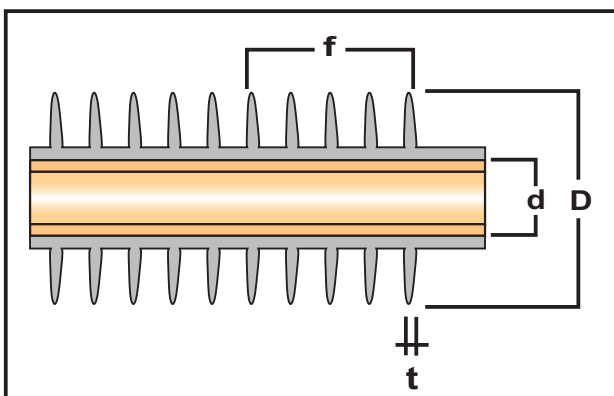
G - Type
(Embedded Fin)



The embedded fin, also referred to as applied fin, is a helically tension wound fin embedded in the base material by first ploughing a groove, followed by stretching the fin material into the groove and rolling the base material against the base to achieve a good fin to tube bond.

d = Diameter of Tube D = O.D. of Finned Tube f = Fins Per Inch t = Fin Thickness

Extruded - Type

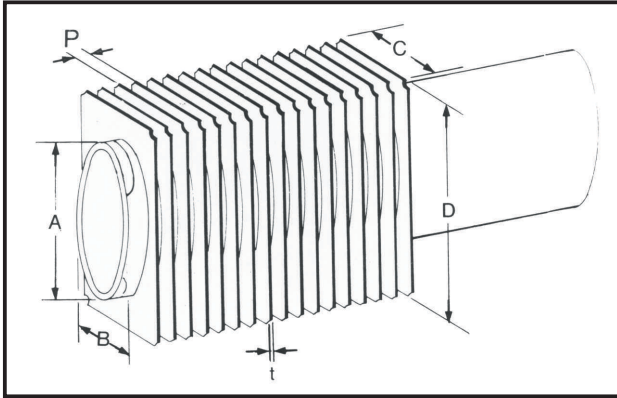


The “Extruded Fin” is made by covering the base tube with another aluminium tube. The fin-tube contact is obtained by cold extrusion operation of the aluminium by way of finning machine.

d = Diameter of Tube D = O.D. of Finned Tube f = Fins Per Inch t = Fin Thickness

II. INDIVIDUALLY FIXED

Oval Finned Tube



A = 36
B = 14
C = 26
D = 55
t = 0.3 ~ 0.4
p = 3 ~ 8 FPI

Characteristics

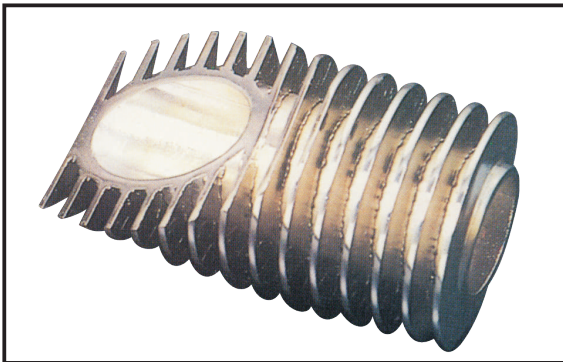
- Best suitable for thermal medium heater.
- Suitable for dusty area as fiber thread saw.
- Little static pressure loss in blower.

Application

Various heat exchangers for fiber industries.

As is tailor made, tube and fin materials and specifications are adjusted to customer need. Please specify your requirements accordingly.

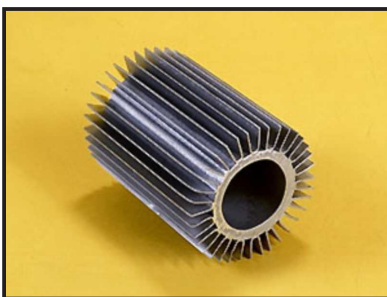
Circularly-Welded



The “Welded Fin” is made by spot welding of the fins to the base tube. As it is made to order, your specifications and/or technical drawing is necessary.

As is tailor made, tube and fin materials and specifications are adjusted to customer need. Please specify your requirements accordingly.

Longitudinally-Welded

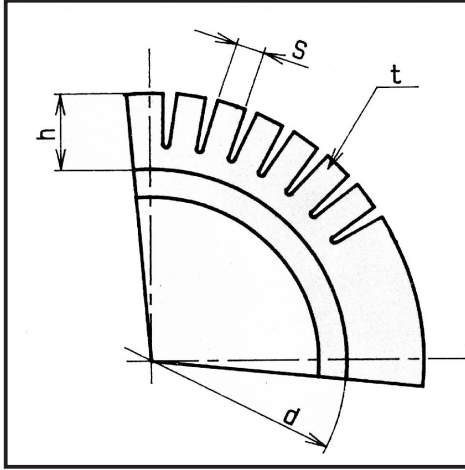


The “Welded Fin” is made by spot welding of the fins to the base tube. As it is made to order, your specifications and/or technical drawing is necessary.

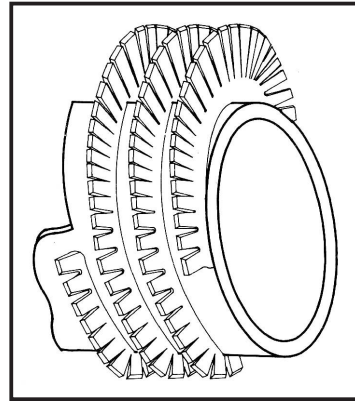
As is tailor made, tube and fin materials and specifications are adjusted to customer need. Please specify your requirements accordingly.

III. SERRATED FINNS

Serrated Finned Tube



h = Fin Height
 s = Segments
 t = Fin Thickness
 d = Tube O.D.



Serrated Fins can be made to all types of finned tubes described above. Please specify your requirements.

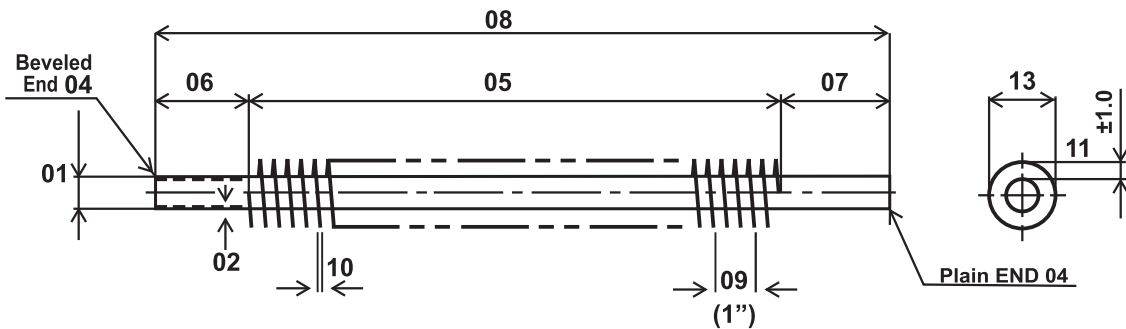
<INGI>[®] FINNED TUBES

CLASSIFICATION	TYPES	DESIGNED TEMPERATURE
Spiral Winding	G	400°C (752°F)
(Helically Wound Fins)	L	130°C (266°F)
		Stainless Steel : 160°C (320°F)
	LL	160°C (320°F)
	KL [®]	320°C (608°F)
	Extruded	240°C (464°F)
Individually Fixed	Oval Finned Tube	300°C (572°F)
	Circularly - Welded	300°C (572°F)
	Longitudinally - Welded	300°C (572°F)
Serrated Fins	Can be made to all types of finned tubes described above	

Please use this form for your FINNED TUBE inquiry

<INGI> FINNING SPECIFICATIONS

Customer : _____ Our Ref. : _____
 Att. : _____ Date : _____
 Fax/Tel. : _____ Page : _____
 Reference : _____
 Delivery : _____



No.	DESCRIPTION	UNIT		NOTE
		mm	inch	
01	TUBE O.D. (before finning)			
02	TUBE WALL THICKNESS			
03	TUBE MATERIAL			
04	BEVELED OR SQUARE - CUT ENDS			
05	FINNED LENGTH			
06	BARE ONE END			
07	BARE OPPOSITE END			
08	OVERALL LENGTH OF TUBE			
09	FINS PER INCH			
10	FIN - STOCK THICKNESS			
11	FIN HEIGHT			
12	FIN MATERIAL			
13	O.D. OF FINNED TUBE			
14	FIN TYPE			
15	QUANTITY REQUIRED, IN PCS/EA			

REMARKS : _____ CUSTOMER CONFIRMATION

NAME: _____
 DATE : _____

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 E-mail : info@arezda.co.id ingi@arezdagasket.com

Cintailah Produksi Dalam Negeri



Produksi
Dalam Negeri



PT. AREZDA PURNAMA LOKA

Pressure Vessels **FABRICATOR**, Finned Tubes/Studded Tubes, Sealing
Technology, Jointing Sheets, and Seamless Tubes **MANUFACTURING**

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