

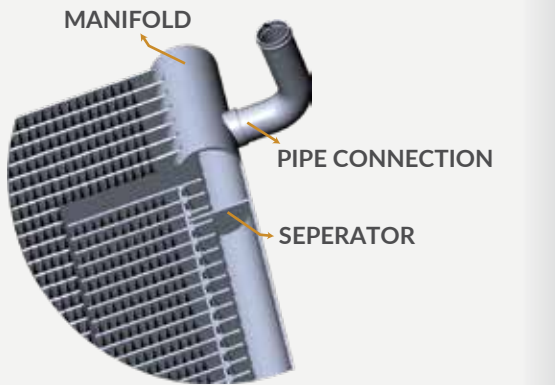


Dolphin Micro Chanel Heat Exchangers (MCHX)



Dolphin has designed and manufactured different kinds of Heat Exchangers for over 30 years. We have now introduced complete aluminum Micro-Channel Heat Exchangers into our product range. We are dedicated to the design and manufacturing of Micro-Channel Heat Exchangers used in the HVAC/R and Industrial applications. This Technology provides a way to improve thermal performance, reduce refrigerant charge and improve corrosion resistance. Parallel flow aluminum tubes are brazed to aluminum fins under Controlled Atmosphere Brazing process

Some advantages of Micro Channel Heat Exchangers technology:



- Converting conventional round tube plate fin technology to Micro-Channel reduces the tube thickness and results lower air side pressure drop, and saves energy as less power is needed to force the cooling air through the core.

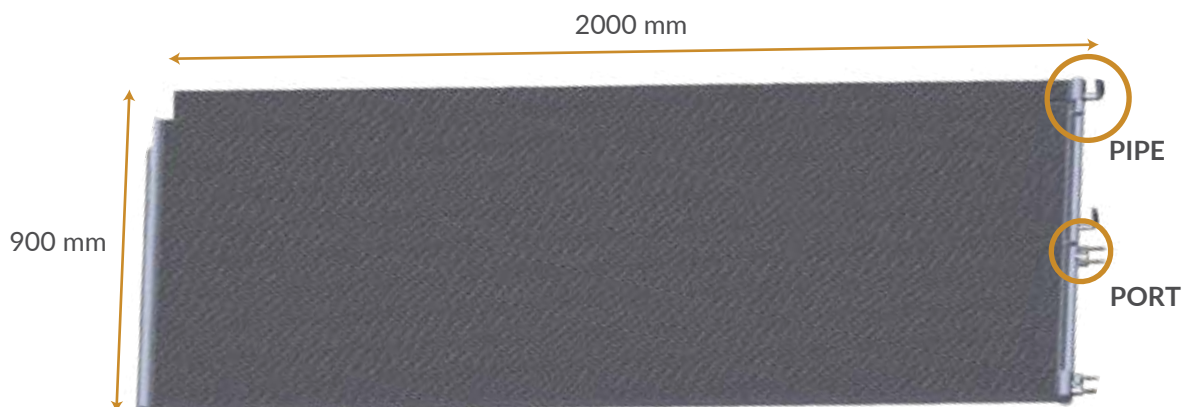
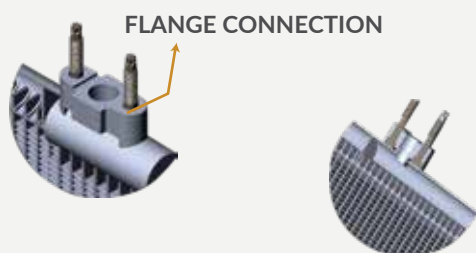
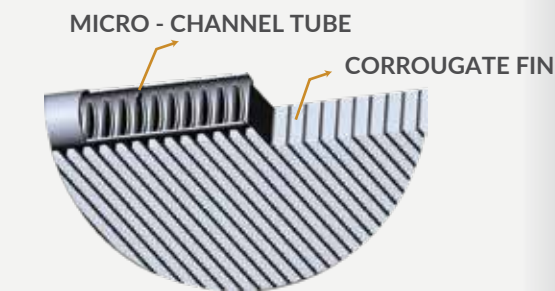
- Reduced internal diameter of the tube leads to lower refrigerant charge which helps to decrease the amount of refrigerants.

- The single metal concept eliminates the electrochemical potential difference of the base materials which has reduced the life time of the conventional RTPF- products.

- The Micro-Channels maximize refrigerant side heat transfer via multiple tiny refrigerant channels which contribute to improved heat transfer by more turbulentic instead of laminar flow and by increased primary surface area.

- Unlike in mechanically bonded RTPF-technology the metallurgical fin-tube bond resulting from brazing operations maximizes the surface contact and increases the heat transfer surface area.

- The lower density and LME price of Aluminum result to less weight per heat exchanger with the lower cost than the traditional coils.



Available major components for MCHX condensers

Sizes in mm

1	Tube size	16 x 1.8	17.9 x 1.8	20 x 2	25 x 2
2	Tube pitch	9.8	9.8	10	10
3	Fin height(Louver)	8	8	8	8
4	Manifold	Ø 20	Ø 22	Ø 25	Ø 32

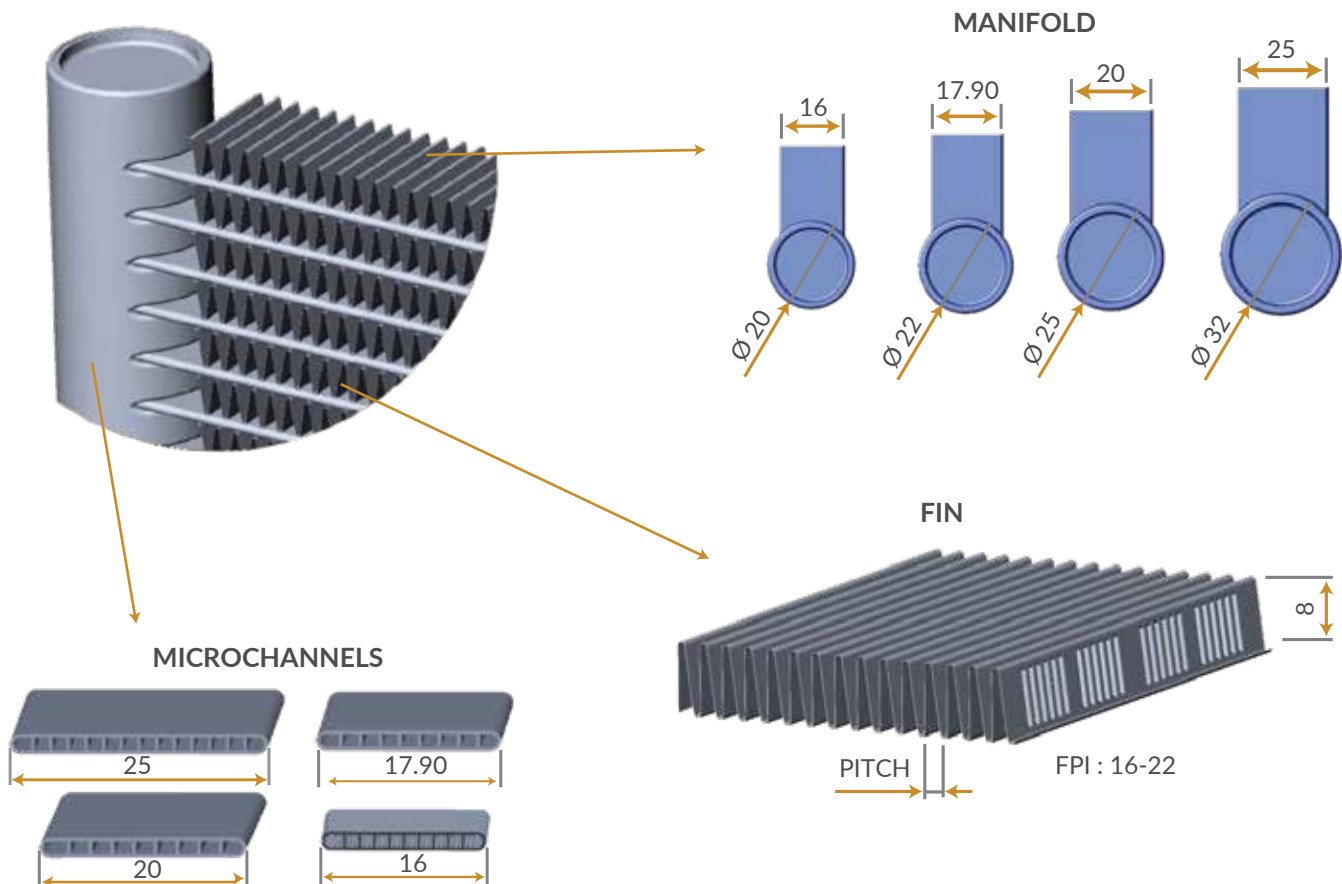
APPLICATIONS

HVAC - R Coils

- Condensers
- Evaporators
- Heating Coils

Industrial Coils

- Cooling Coils
- Heating Coils
- Oil Coolers & Special Applications



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Our international sales team is at your service and provides you with customized engineered solutions to help improve your operations through our technical capabilities and knowledge

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