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served directly by Serraff.

**PRODUCT CATALOG**  
FINNED TUBE HEAT EXCHANGERS

**aletados** LINE

The data contained in this catalog are from projects authored by Serraff and it reserves the right to make changes without prior notice.



Serraff Management is guided by the search for continuous improvement and relies on an ISO 9001 Quality Management System that systematically standardizes, monitors, inspects and reviews its practices.

# Heat Exchange Solutions



*Serraff is not limited to supplying heat exchangers: we are committed to combining technology and human potential to meet special market needs. In this*

*way, we are always ready to meet specific and personalized demands. Serraff goes far beyond producing and supplying finned heat exchangers and*

*forced air evaporators to the refrigeration and air conditioning sector: Serraff is a provider of heat exchange solutions.*

## Mission

Meet the needs of the various heat exchange markets while selling, developing and producing competitive and innovative products and services.

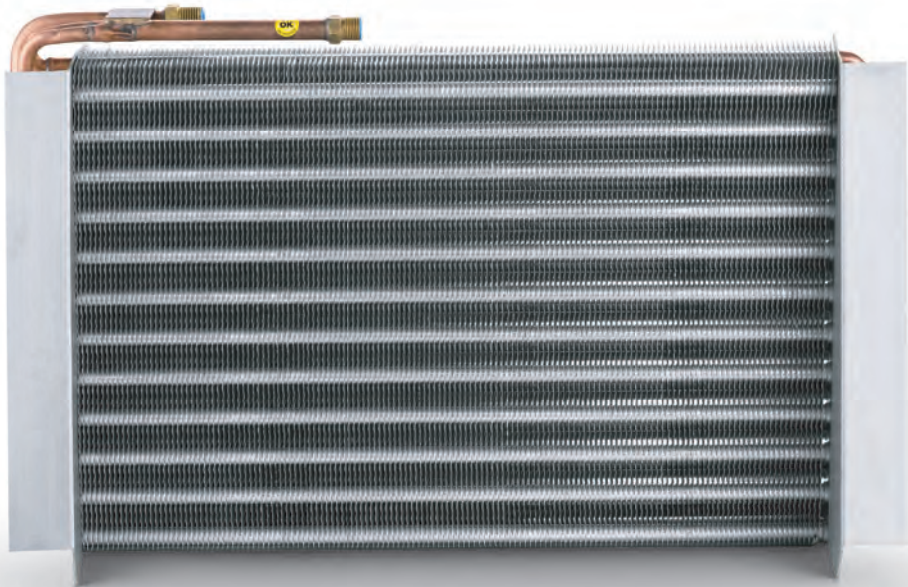
## Vision

To be recognized as a benchmark for business performance in the thermal exchange market.





Self-spaced finned line

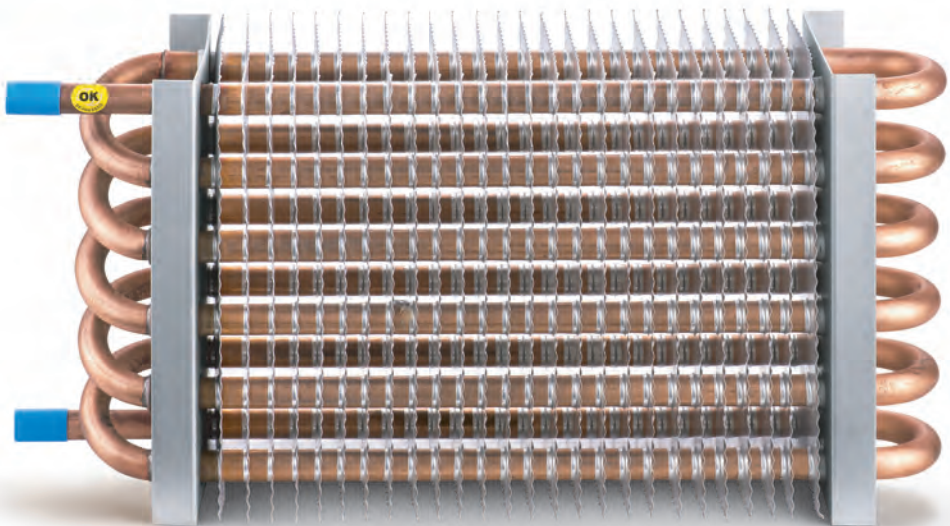


*Aletado is the line made up of finned tube type heat exchangers. Present in several economic activities, the fins are applied in refrigeration (cooling, freezing and storage), air conditioning (cooling and heating), in addition to special applications. Serraff Fins meet customers' needs with standardized market models and customized projects.*

Characteristics

- Made with:
  1. Copper tube of different diameters, with and without groove;
  2. Flat, corrugated and louvered aluminum fin;
  3. Aluminum or galvanized steel header;
  4. Connections (distributors and collectors), housings and others are manufactured and made available considering the characteristics of the customized projects;
- Heat exchanger painting optionally available;
- Application in refrigeration and air conditioning systems using refrigerants or water;
- Dimensions specified by the customer's design;
- Pneumatic tightness tests;
- Serraff Quality.

Finned Line Special Spacing





They are heat exchangers in which the spacing between the fins occurs through its spacer collar.

Customized options:

- Finned with angle formation;
- Dimensions and shape of the headers;
- Connections (distributors and collectors);
- Housing models, with and without electrostatic painting;

Finned with angle formation

Customization of shape and sizes of headers

General Characteristics

- Copper tubes, with diameter according to table A;
- Self-spaced aluminum fins, according to table A;
- Headers in aluminum or galvanized steel, with customized shapes and dimensions;
- Projects with galvanized steel or aluminum housing, with painting option;
- Connections (distributors and collectors), housings and others are manufactured and made available considering characteristics of customized designs;
- Painting of the heat exchanger made available as an option;
- Dimensions specified by the client's design, considering information / data from table A;
- Pneumatic leak test.

Applications

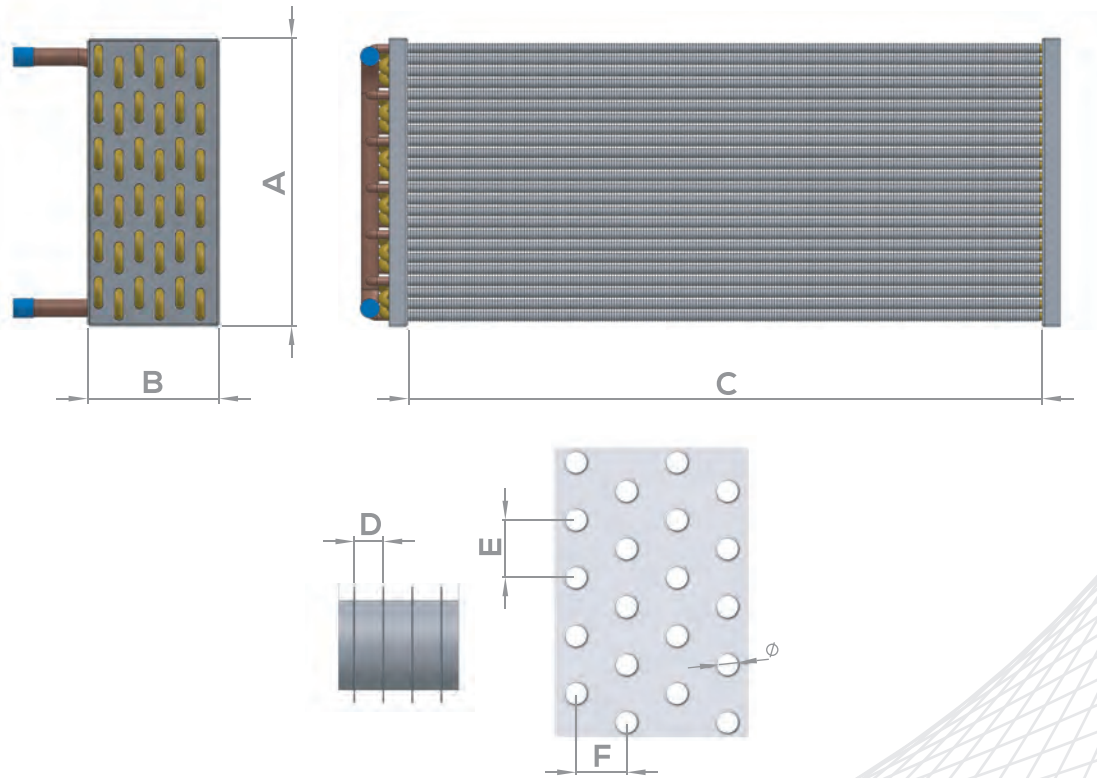
- Refrigeration:
- Cargo vehicles (trucks, vans and utilities);
  - Industrial machines and processes (ice cream makers, shoe makers and air dryers);
  - Small and medium-sized commercial equipment and systems (condensing units, plug-ins, cooling tunnels, chambers, counters and containers).
- Air Conditioning:
- Transport vehicles (buses, trains and vans);
  - Agricultural and handling machines (tractors, harvesters, hoists, off roads and cranes);
  - Special equipment and systems (air-conditioned rooms, clean rooms and data centers);
  - Connection customization (distributors and collectors).

Sizing and Physical Characteristics

Table A

Self-spaced evaporators and condensers								
Tube diameter Ø (in I mm)	Height (A) (mm)	Width (B) (mm)	Length (C) (mm)	Spacing (D) (mm)	Fin Geometry		Physical Characteristics	
					E (mm)	F (mm)	Fin	Tube (inner)
3/8" I 9,52	Customer Specified			1,8 a 5,1 APP: 14, 12, 10, 8, 6 e 5	25,40	22,22	Corrugated Louvered	Smooth Grooved
				1,6 a 2,8 APP: 16, 14, 12, 10 e 9	25,40	15,87	Corrugated	Smooth Grooved
1/2" I 12,70				2,1 a 6,3 APP: 12, 10, 8, 6 5 e 4	31,75	27,50	Corrugated	Smooth

Consider APP = fin per inch



Customization of connections





*Customized  
products  
according to  
specific demands*



They are heat exchangers in which the spacing between the fins do not occur through its spacer collar.

General Characteristics

- Copper tubes according to table B;
- Aluminum fins and headers;
- Headers with advance options;
- Sizes specified by the client's design, considering information in table B;
- Pneumatic leak test.

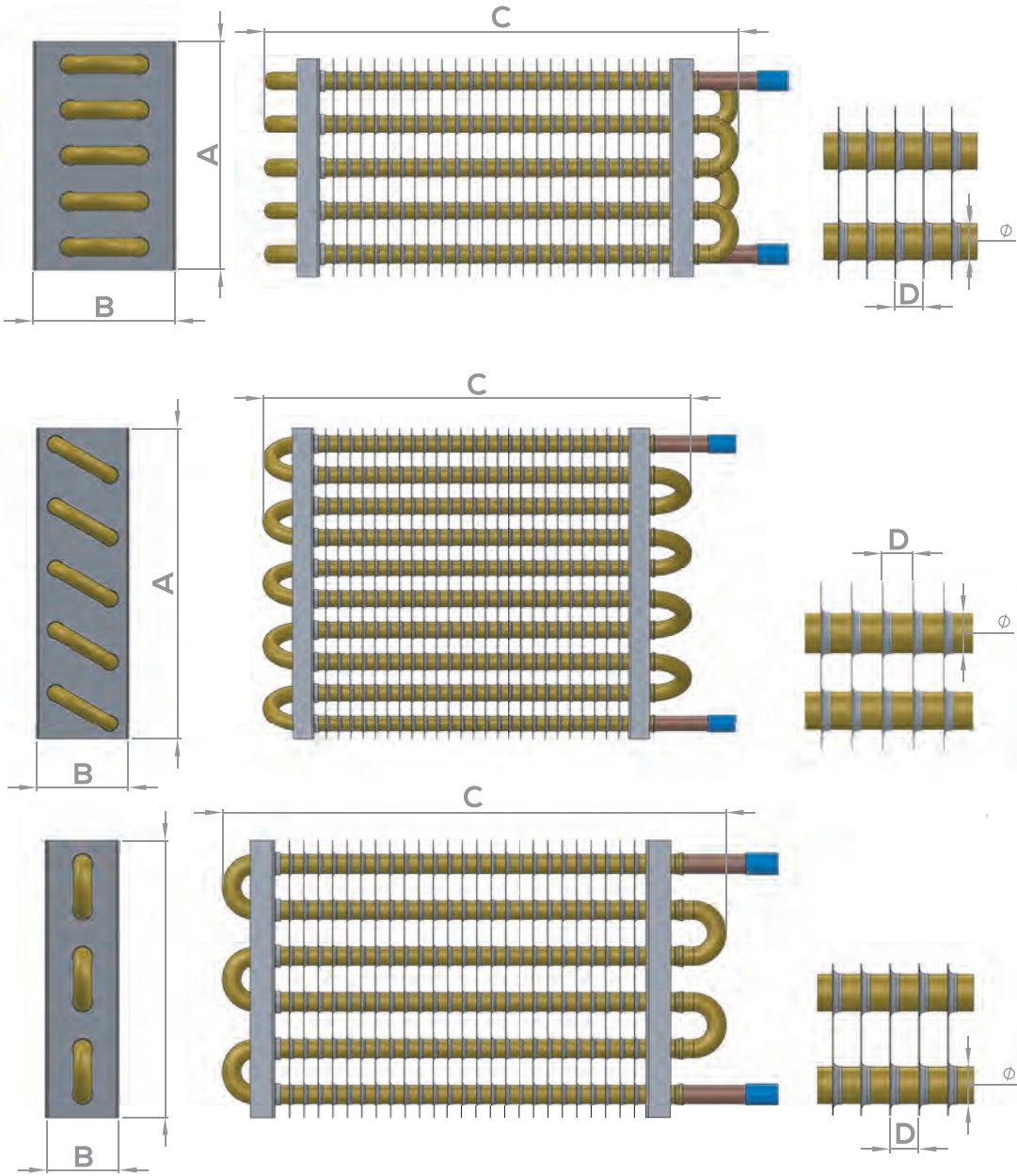
Applications

- Commercial refrigerators;
- Refrigerated counters;
- Exhibitors;
- Special designs.

Sizing and Physical Characteristics

Table B

Heat exchangers with special spacing						
Tube diameter Ø (in I mm)	Height (A) (mm)	Width (B) (mm)	Length (C) (mm)	Spacing (D) (mm)	Physical Characteristics	
					Fin	Tube (inner)
1/2"   12,70	Customer Specified			6, 8, 10, 12 e 15	Flat	Smooth



Headers with advance options

