Varese

Radiators for low temperature heating

IDEAL RADIATORS FOR LOW TEMPERATURE HEATING SYSTEMS

Over the last few years, due to numerous reasons, state of the art of heating system has changed significantly. There are basically two causes behind these changes:

- **The need to comply with Kyoto Protocol 20/20/20 plan (20% increase in efficiency, 20% reduction of CO_2 and obtain a 20% renewable energy rate).**
- **Greater social awareness of all issues relating to polluting emissions and the reduction of fossil fuel use**

All of this has led manufacturers of heating systems to look for increasingly efficient heating systems as well as to incorporate renewable energy sources. This has contributed decisively to step forward to low temperature heating type.

In order to obtain the aforementioned increase in efficiency in the heating facilities, it is not only necessary to squeeze high performance from the heat generator.
It is also necessary to improve the performance of the complete heating system. Key factors are then the control and adjustment of the installation and, above all, the heat terminal unit used.

The ideal solution consists in using especially designed and manufactured radiators, able to work at low temperature inlet. it is thus possible to take full advantage of all the potential of the modern heat generators.

MAIN FEATURES

Performances / Domestic savings

The new Varese radiators are especially designed to obtain the maximum performance from all low temperature heating sources. They notably increase the high performance already provided by such generators.

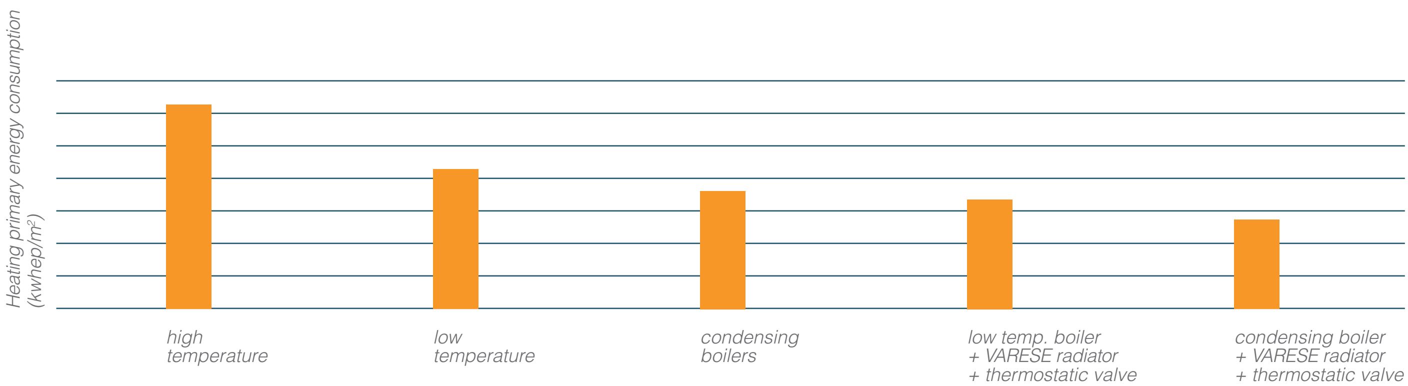
MAXIMUM EFFICIENCY IN 5 STEPS

1 Low water content radiators.
2 The boiler then heats a lower volume of plant water.
3 Rapid achievement of setpoint, then smaller heat loss.
4 Less boiler's operational hours
5 Higher boiler's efficiency

3 TIMES FASTER
THAN A CONVENTIONAL RADIATOR

6 TIMES FASTER
THAN UNDERFLOOR

CONTAINS UP TO 60%
LESS WATER

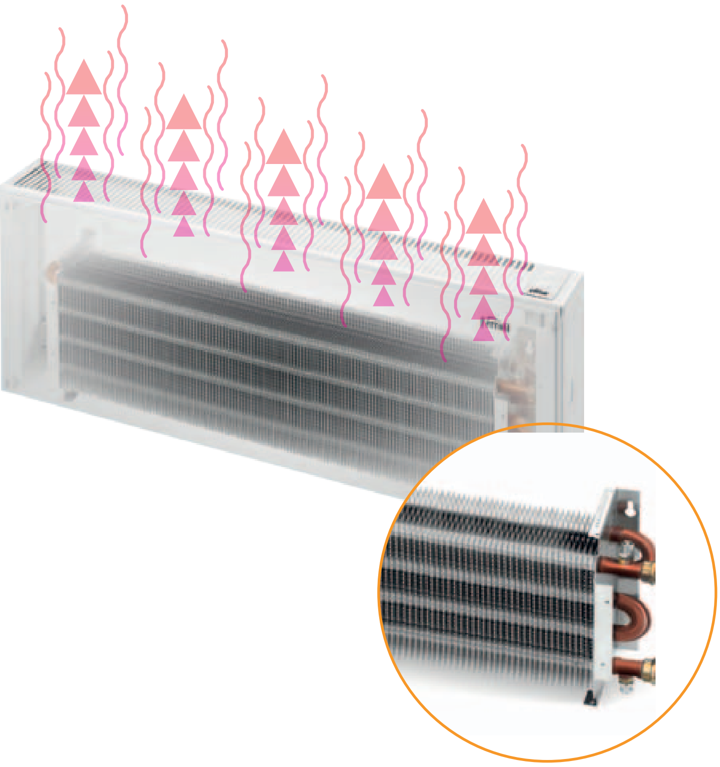


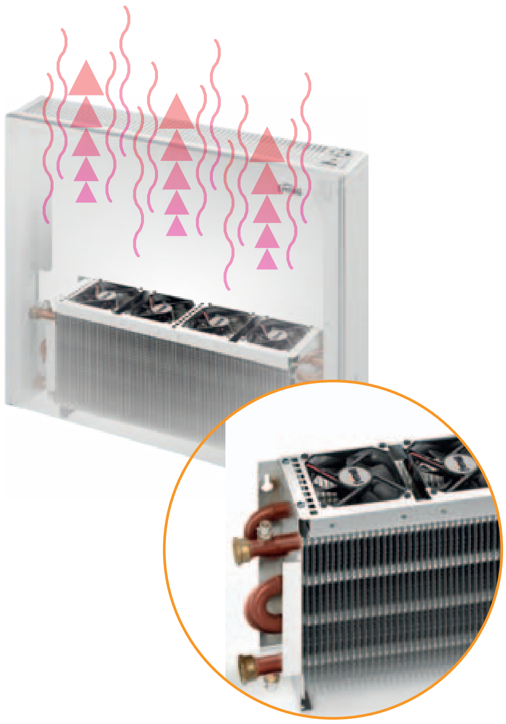
ADVANCED TECHNOLOGY

Product pluses

HIGH PERFORMANCE HEAT EXCHANGER

Made of a copper pipe, covered by slim high performance fins which optimise air flow and consequentely heat emission.





INCREASED EFFICIENCY

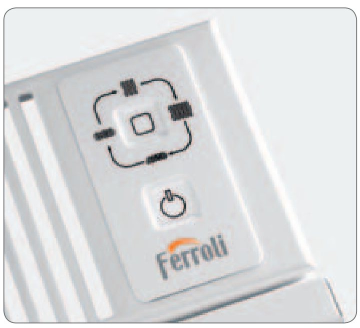
Brushless fans with double ball bearings, suspended by 4 Silent Blocks per unit (no friction, great durability, minimum electric consumption).

AUTOMATIC STANDBY

Depending on boiler or thermostatic valve shut-off, because of set-point achievement

HOME COMFORT CONTROL

- LED backlit control panel, very easy to use.
- 4 operation modes:
  * **Automatic:** Output is modulated in accordance with the needs of the room. The main priority is obtaining comfort as fast and silently as possible.
  * **Eco:** Economy mode (Minimum output)
  * **Comfort:** Medium output
  * **Boost:** Maximum output
- Maximum reliability thanks to robust electronics.



MAIN FEATURES
Greater comfort and safety

ELECTRONIC CONTROL

- Automatic power modulation depending on room thermal load and set temperature.
- The radiator detects the room temperature and starts up the fans in order to reach the set temperature, with the lowest possible noise.
- The temperature is lower than heated air. Varese does not dry out ambient air and provides a good feeling of comfort.

MAXIMUM ANTI-SCALD SAFETY

The surface of the radiator does not burn should you come into contact with it. Recommended for spaces with kids presence.

SMART DESIGN
Reduced size, pleasant aesthetic

Thanks to the design of its heat exchanger boasting high performance aluminium fins, these radiators are capable of a generous and warm air flow. This permits reduction in size of the radiator, if considering a conventional one. Their reduced size, along with the pleasant aesthetic means that they can be integrated into any type of décor, regardless of the demands.

HEIGHT 635

MODEL	500	500 HE	600	600 HE	800	800 HE	1000	1000 HE
Width (mm)	545	545	654	654	879	879	1094	1094
Weight (kg)	7,1	7,9	8,3	9,3	10,5	11,9	12,5	14,2

SMART DESIGN

Specific models for under-window installation

The reduced height, combined with generous heat emission, permit the installation even in small spaces, like under large windows. This version, 350 mm height, is named as “LP”.

HEIGHT 350

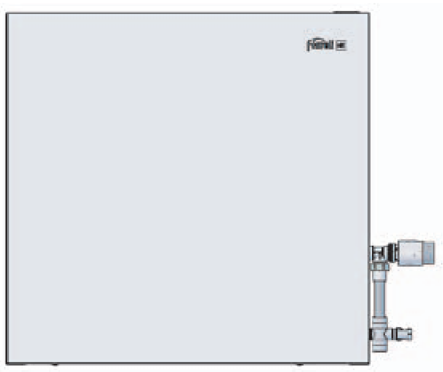
MODEL	LP 500	LP 500 HE	LP 600	LP 600 HE	LP 800	LP 800 HE	LP 1000	LP 1000 HE
Width (mm)	545	545	654	654	879	879	1094	1094
Weight (kg)	5,0	5,8	5,8	6,8	7,5	8,8	9,0	10,6

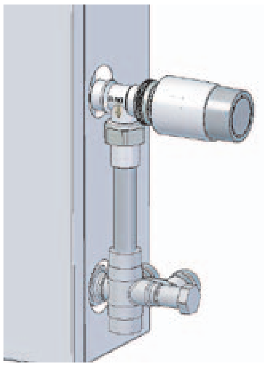
EASY TO INSTALL

Wide possibilities

- 100% fit for replacements and new buildings. Single tube and double tube installation
- Reversible sockets on the left and right
- 1/2 inch to 75mm wall clearance, the same distance as a conventional aluminium radiator
- Pre-drilled holes in the shell. No need to cover the unused holes with plastic trims or covers

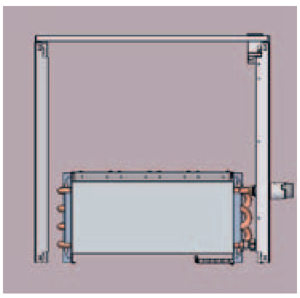
SINGLE TUBE

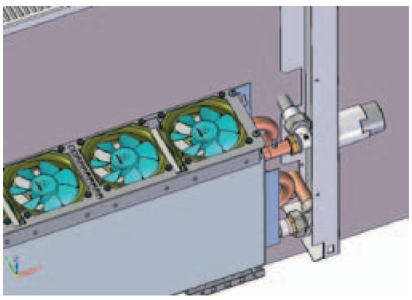




Installation suitable for sockets on the right or left. Valves are exposed. It is necessary to use valves with a "rod" for the water inlet through the upper connection.

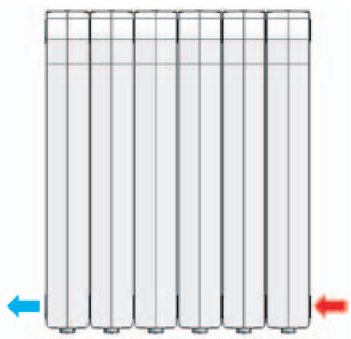
DOUBLE TUBE - NEW BUILDING

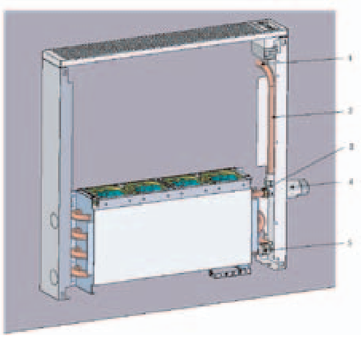




Installation suitable for fittings on the right or left. Hidden valves with a visible thermostat, externally accessible.

DOUBLE TUBE - REFURBISHMENT

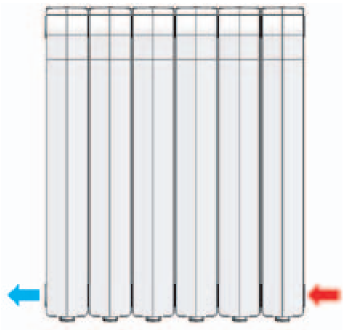


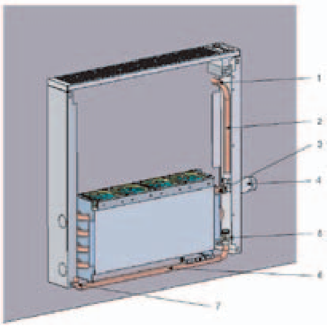


1 Wall outlet
2 Joining piping with the upper fitting (carried out by the installer)
3 Upper fitting - water inlet (fitting carried out by the installer)
4 Thermostatic head (carried out by the installer)
5 Lower socket - water return. Wall inlet

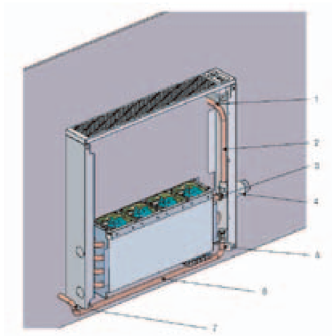
DOUBLE TUBE - REFURBISHMENT

Upper inlet, lower return on the opposite side.



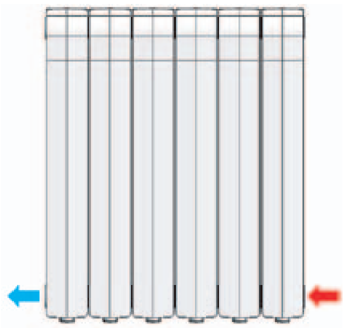


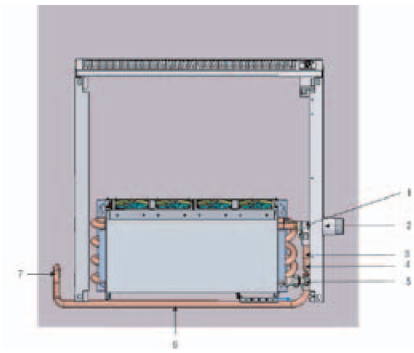
Option A: return with wall inlet inside the furniture



Option B: return with wall inlet outside the furniture

1 Wall outlet
2 Joining piping with the upper connection (carried out by the installer)
3 Upper connection - water inlet (fitting carried out by the installer)
4 Thermostatic head (carried out by the installer)
5 Lower connection - water return. Wall inlet (fitting carried out by the installer)
6 Joining piping with the lower connection. (Carried out by the installer)
7 Wall inlet (carried out by the installer)





1 Upper inlet - water inlet. With a bleeder (fitting carried out by the installer)
2 Thermostatic head (carried out by the installer)
3 Joining piping with the upper connection (carried out by the installer)
4 Wall outlet
5 Lower connection - water return. Wall inlet (fitting carried out by the installer)
6 Joining piping with the lower connection

DOUBLE TUBE - REFURBISHMENT

EASY TO MAINTAIN AND CLEAN Removable front jacket, enabling exchanger cleaning

SPECIFICATIONS

Technical data

VARESE / VARESE LP

MODEL	Ut.	500	600	800	1000	LP 500	LP 600	LP 800	LP 1000
Heating power 55/45/20°C*	W	195,3	244,2	348,8	509,3	153,5	209,3	293	348,8
Heating power Max 75/65/20°C*	W	376,7	523,3	795,3	1060,5	334,9	439,5	676,7	837,2
Heating power Max 70/50/20°C*	W	265,1	390,7	607	795,3	237,2	334,9	537,2	600
Water content	l	0,48	0,62	0,835	1,095	0,48	0,62	0,835	1,095
Hydraulic connections	-	1/2" connection							
Maximum pressure	bar	10							

** Input / Output / Atmosphere*

VARESE HE / VARESE LP HE

MODEL	Ut.	500 HE	600 HE	800 HE	1000 HE	LP 500 HE	LP 600 HE	LP 800 HE	LP 1000 HE
Heating power 55/45/20°C* - ECO Mode	W	447	604	879	1138	369,8	576,5	842	1050,3
Heating power 55/45/20°C* - COMFORT Mode		498,6	651	940	1228,6	401,1	617,5	915,6	1131,6
Heating power 55/45/20°C* - BOOST Mode		569,6	767,2	1112,6	1517	484	710	1087,6	1493,3
Heating power Max 75/65/20°C*	W	1067,4	1402,3	1981,4	2637,2	997,7	1325,6	1855,8	2581,4
Heating power Max 70/50/20°C*	W	823,3	1074,4	1479,1	1995,3	753,5	1032,6	1395,3	1939,5
Water content	l	0,48	0,62	0,835	1,095	0,48	0,62	0,835	1,095
Hydraulic connections		1/2" connection							
Maximum pressure		10							
No. of fans		3	4	6	8	3	4	6	8
Type of fans		Brushless DC electronically switch							
Sound pressure (comfort)**		29	30,2	32	33,2	29	30,2	32	33,2
Max electrical consumption		3,5	5	8	10,5	3,5	5	8	10,5

** Input / Output / Atmosphere **In reverberation chamber, Rev.T=0,6s, Ref. vol = 80 m^3*

NOTES

NOTICE FOR DEALERS:
As part of its efforts to constantly improve its range of products, with the aim of increasing the level of customer satisfaction, the company stresses that the appearance, dimensions, technical data and accessories may be subject to variation.

Consequently, ensure that the customer is provided with up-to-date technical and/or sales documents.

cod. 89AG6012/00 - 02.2018

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