



ferroli

The Best Energy Saving Solution

Heat Pump Water Heaters



  **75%**
Energy Savings





Ferrolì, the European multinational of domestic and industrial heating, air conditioning & water heating was founded in 1955 by Dante Ferrolì in San Bonifacio, near Verona, in Italy. Today, nearly six decades later, Ferrolì has 30 plants and business organizations, 6 R&D centres and operates in over 100 countries worldwide. Despite our size and scale, we remain a family business at heart with a strong commitment to design innovation, build quality and carbon reduction. Ferrolì has brought many innovative domestic and industrial heating and cooling appliances and high efficiency renewable products.

The Ferrolì group prides itself on its self-sufficiency. From the initial concept through design, manufacturing and marketing Ferrolì products are produced entirely in-house. Most components are also produced by Ferrolì, with only a very small percentage sourced from elsewhere. This allows a complete control over the quality, delivery and the all-important after sales service of all Ferrolì products.

How Ferrolì heat pump water heater saves up to 75% of energy?



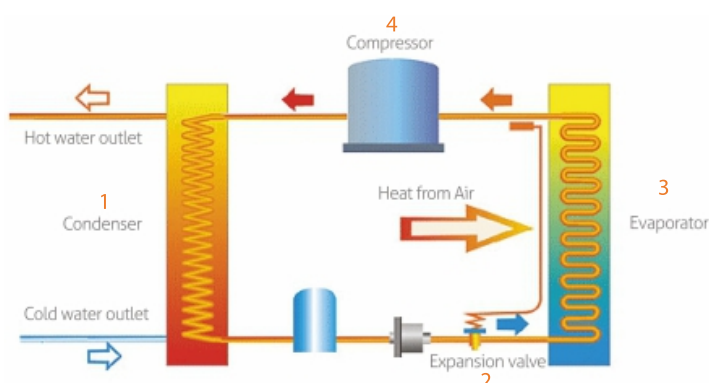
The standard electrical water heater converts its electric energy into heat energy where the efficiency is close to 100%, or we can say co-efficient of performance (COP) is 1. Whereas Ferrolì heat pump water heater uses electrical energy to absorb the heat from air and transfers it to the water in the tank by using micro channel heat exchanger technology by which the efficiency increases up to 400% or we can say the co-efficient of performance (COP) is 4+. Ferrolì heat pump water heater provides you the best solution for energy savings by which you can save up to 75% in your electricity bill.

How heat pump water heater works?



Uses electrical energy to absorb heat from the air and transfer it to the water in the tank.

- External air is sucked inside the heat pump with the help of a fan inside the evaporator.
- The refrigerant in the evaporator is kept at a lower temperature than the atmospheric temperature, hence it absorbs the heat from the surrounding air.
- The compressor compresses the gaseous refrigerant and increases the temperature and pressure substantially.
- The heated refrigerant passes through a heat exchanger which is inside the tank transferring the heat to the water stored in the tank. By this the refrigerant cools and condensates.
- The refrigerant then passes through the expansion valve where the temperature and pressure are dropped further and whole process repeats again.



1. Condenser Coil (Hot side heat exchanger)
2. Expansion Valve (Gas expands, cools and liquefies)
3. Evaporator Coil (Cold side heat exchanger)
4. Compressor

Advanced Features



Energy Saving

Comparing the standard electric water heater, Ferroli heat pump water heaters save up to 75% of the energy.



Fully Automatic

Microprocessor controlled by fully automatic operation. Ferroli heat pump water heater can work efficiently under different weather conditions. The continuous supply of hot water can be used for various segments which includes the hotels, hospitals, villa, gyms, etc and other domestic & commercial buildings.



All Season Use

Since it draws heat from air, the product continues to supply hot water in all weather conditions irrespective of the water heater location.



Micro Channel Heat Exchanger

The heat transfer is even & faster as the refrigerant passes through the heat exchanger holes & the transfer of heat is evenly distributed to the water in the tank.



Display Console

Microprocessor controlled big LED digital display console for the ease of use by customer to set the timer and control the temperature.



Environment Friendly & CFE free Insulation

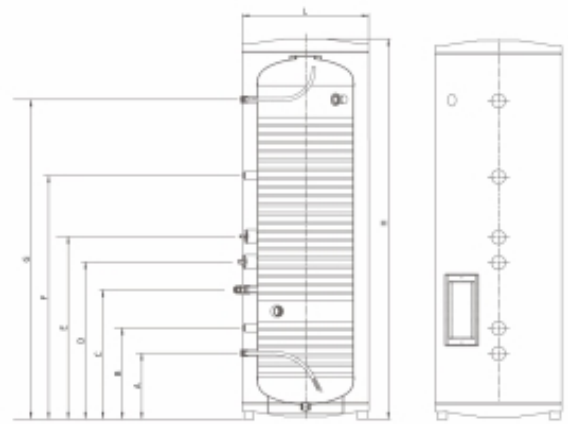
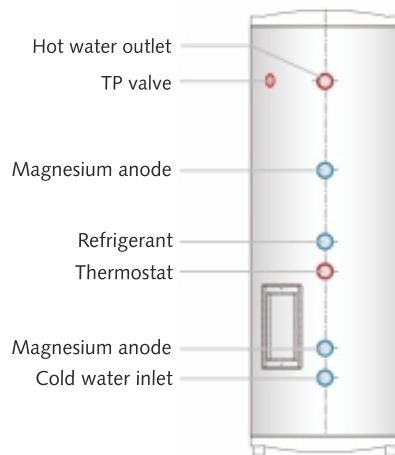
There is no discharge of any harmful fumes / chemicals to environment during the use of Ferroli heat pump water heater & hence it's an eco-friendly green product.

FRXS Heat Pump Tank



Capacity : 150L / 200L / 300L

- Glass Lined Tank
- Large Magnesium Anode
- Floor Standing
- Micro Channel Heat Exchanger
- CFC Free Insulation
- Heating Element



Model	Capacity (Lts)	Weight (Kg's)	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	H(mm)	I(mm)
FRSX150EM-A1(T1)	150	53	260	360	490	620	720	970	970	1500	500
FRSX200EM-A1(T1)	200	55	270	370	500	630	730	1280	1480	1740	500
FRSX300EM-A1 (T1)	300	83	300	400	500	650	750	1025	1285	1540	620

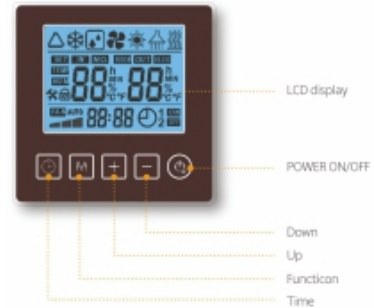
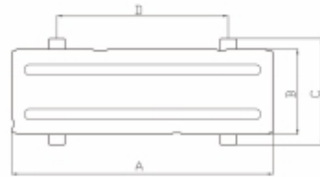
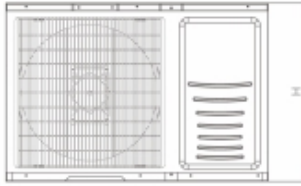
Heat Pump



COP > 4.0

Ferroli

- COP = 4.0 +
- Timer Function
- Micro - Process Controller
- Auto Defrosting
- Auto - Power Off Memory
- Big LED Screen
- Digital Temperature Display
- Self - Diagnosis Function
- Multiple Protections



LCD display

POWER ON/OFF

Down
Up
Function
Time

Model	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	H(mm)
KRF60/EM-A(T1)	600	500	780	138	505	240	280	280
KRF90/EM-A(T1)	600	500	780	138	505	240	280	280

Technical Specification :

Unit Model	KRF60/EM-A(T1)	KRF90/EM-A(T1)
Capacity (in Ltrs)	150/200	300
Operating Pressure (Bar)	8	8
Electrical Power	220/50Hz	220/50Hz
Refrigerant	R134a	R134a
Heating Element (Kw)	2	2
Power Output (W)	2650	4050
Power Input (W)	620	920
COP	4.3	4.4
Water Yield (l/h)	60	90
Rated Current (A)	3	4
Max Current (A)	11.4	13
Max. Temperature Setting (C°) - Energy saving mode - HP	55	55
Max. Temperature Setting (C°) - Quick heating mode - HP+HE	55	55
Max. Temperature Setting (C°) - High temperature mode - HP	75	75
Heating Time (h: mins) - Energy saving mode - HP	150L-2h:42m / 200L-3h:20m	300L- 3h:17m
Heating Time (h: mins) - Quick heating mode - HP+HE	150L-1h:42m / 200L-2h:20m	300L-2h:08m
Heating Time (h: mins) - High temperature mode - HP	150L-3h:58m / 200L-5h:07m	300L-5h:17m
Environmental Temperature (C°)	-7 To 43	-7 To 43
Noise (dB)	≤ S48	≤ S52

Guarantee

Outdoor Unit
2 years

Tank
7 years

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