

Heat pump HP2 - HP3 for utensil washer serie EDI







WHAT IS THE HEAT PUMP?

The heat pump is a device which is able to transfer heat from a body with lower temperature to another with higher temperature, thus allowing a significant higher quantity of the electrical energy that drives the heat pump to be returned for water heating and cooling down the working environment.



STRUCTURE AND FUNCTIONING

The heat pump is made up of a closed circuit based on 4 main elements: a compressor, a condenser, an expansion valve and an evaporator.

Phase 1 · · · · · ➤ Phase 2 · · · · · ➤ Phase 3 · · · · · ➤ Phase 4

Compression

The medium coming from the evaporator (gas and at low pressure) is brought to high pressure.

In the COMPRESSOR the medium is heated and increases in its temperature

Condensation

Into the
CONDENSER the
medium at high
temperature
transfers the heat,
condensing from
the GAS state to the
LIQUID state.
The heat released
is used to warm the
tank water of the
warewasher.

Expansion

When passing through the EXPANSION VALVE the refrigerant fluid cools down, turning partly into VAPOUR.

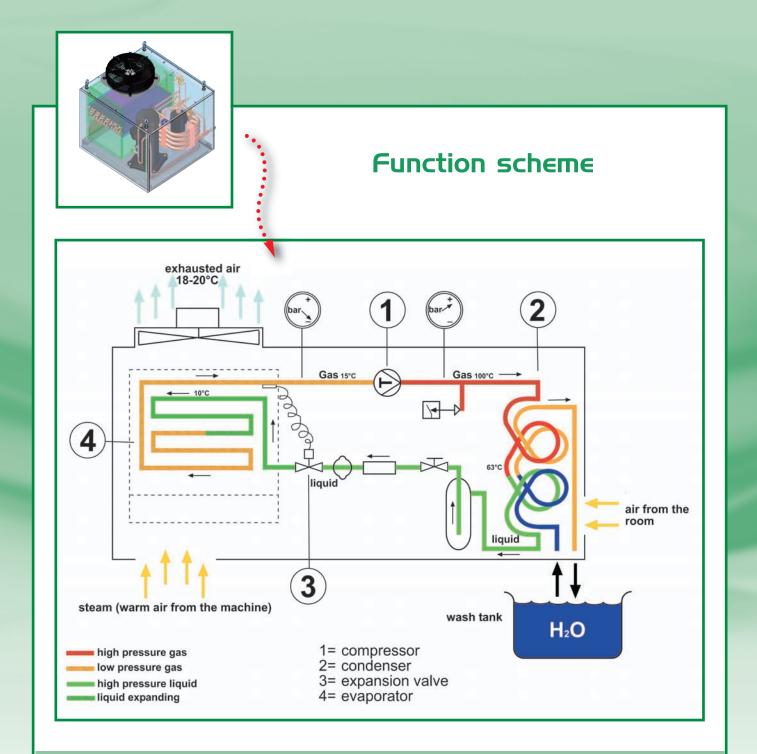
Evaporation

The fluid passing into the EVAPORATOR absorbs heat and evaporates completely (gaseous state).

Through this process the heat pump recovers the latent heat produced by the dishwasher during its operation, preventing the release of the steam through the doors at the end of the cycle and reducing electric consumption.

RESULTS

- 1. 60% energy reduction in heating the water in the tank and keeping it a steady temperature (no more need for a heating element in the tank).
- 2. Air emission at an average temperature lower than 25°C.
- 3. No steam while opening the door.
- 4. Reduction in the humidity into the room.
- 5. Air-co effect since the functioning of the heat pump prolongs over the cycle.



Model	Machine	Heat Pump	Total Height	
EDI 6	mm 830x915x1890H	mm 600H	mm 2490H	
EDI 8	mm 990x915x1890H	mm 600H	mm 2490H	
EDI 13	mm 1500x915x1890H	mm 600H	mm 2490H	
EDI 13 alta	mm 1500x915x2040H	mm 600H	mm 2640H	

Manufactured to **C** € specifications

The manufacturer reserves the right to change specifications without notice

