

WP

Heat pumps



designed for hygiene

Comenda energy savings

Comenda, the specialist in the automatic dishwashing sector, proposes heat pumps for its rack and flight conveyor range of machines that save energy and do not increase the dishwashing room temperature. This system is so efficient that with a correct natural air re-circulation, the emission of the dehumidified and cooled air exiting the heat pump into the dishwash area is possible

without the need of an air extraction system (DIN standard 1946 and VDI 2052).

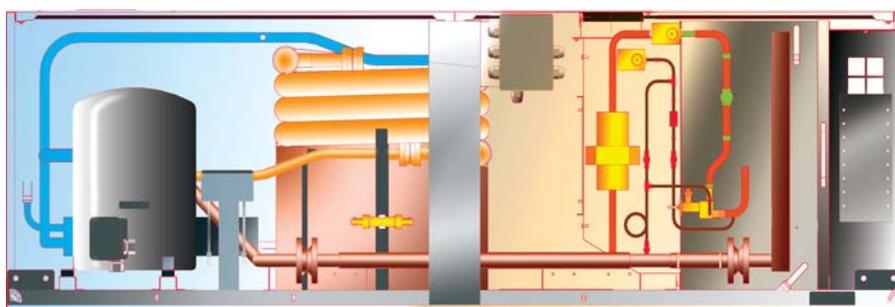
3 models with different ratings are proposed, depending on requirements and type of dishwasher.

The WP4 heat pump: does not increase the ambient washing temperature and also **preheats the rinsing water** with the heat produced by the cooling circuit.

The WP6 heat pump: does not increase the ambient washing temperature and also **preheats the rinsing water** and heats a washing tank.

The WP8 heat pump: does not increase the ambient washing temperature and also **preheats the rinsing water** and heats two washing tanks.

The steam is drawn into the cooling circuit battery and the cooled air is dehumidified to improve the working conditions of the dishwash area. The heat produced is utilised to preheat one or two washing tanks (depending on the model) and the rinsing water, reducing energy consumption.



Heat pump models	WP4 single action	WP6 double action	WP8 triple action
Functions	Rinse only	Rinse + 1 wash	Rinse + 2 washes
Dimensions LxWxH	785x675x595H	1260x675x540H	1260x675x540H
Compressor rated power	4,19 kW	5,25 kW	6,83 kW
Gas	R 407 C	R 407 C	R 407 C
Total exchange surface	39 m ²	59 m ²	66 m ²
Re-circulation pumps	-	0,15 kW	2 X 0,15 kW
Output air	700 m ³ /h	800 m ³ /h	1200 m ³ /h
Output air temperature(*)	18 - 22 °C	18 - 22 °C	18 - 22 °C
Humidity	85%	85%	85%
Latent heat reduction	90%	90%	90%
Sensible heat reduction	3 kW	3,5 kW	4,5 kW
Cooling power	8 kW	14 kW	18 kW
Heating energy saved Compared to same model fed with cold water	8 - 12 kW	12 - 16 kW	16 - 26 kW

(*) With max.20°C water inlet temperature.

Technical characteristics may be changed



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