

WATER-TO-WATER HEAT PUMPS



Heating 30XWH

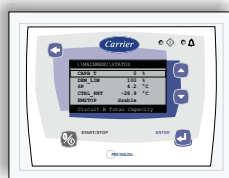


Options/accessories

- Medium and low temperature applications
- Unit supplied in two assembled parts
- No disconnect switch, but with short-circuit protection
- Single power connection point
- Evaporator/condenser pump electrical power/control circuit options
- Service valve set
- Evaporator/condenser arrangement with one pass
- Condenser insulation
- 21 bar evaporator and condenser
- Reversed evaporator water connections
- JBus, BacNet and LON gateways
- Various condensing temperature options
- Energy Management Module EMM
- Code compliance for Switzerland and Australia
- Master/slave operation
- Touch Screen interface
- Low noise level (-3 dB(A) compared to standard unit)
- Thermal compressor insulation
- Water connection kit for welded or flanged evaporator/condenser connections

Features

- Twenty standard-efficiency sizes with nominal cooling capacities from 273 to 1732 kW and nominal heating capacities from 317 to 1969 kW and eleven high-efficiency sizes with nominal cooling capacities from 509 to 1756 kW and nominal heating capacities from 584 to 1989 kW.
- The premium solution for industrial and commercial applications that require optimal performances and maximum quality.
- Two versions: 30XW for air conditioning and refrigeration applications (see separate entry), and 30XWH for heating applications.
- Two efficiency classes: the standard-efficiency 30XWH offers an optimised balance of technical and economical aspects and superior energy efficiency, whilst the high-efficiency 30XWHP offers unequalled energy efficiency at minimised operating cost.
- Twin-rotor screw compressors with high-efficiency motor and a variable capacity valve for exact matching of the cooling capacity to the load.
- Use of R-134a refrigerant with zero ozone depletion potential.
- Pro-Dialog control system.
- Flooded mechanically cleanable heat exchangers.
- Exceptional full and part load energy efficiency.
- Economizer system with electronic expansion device for increased cooling capacity (30XWHP).
- Simplified electrical connections.
- Units are run-tested before shipment and include a quick-test function for fast commissioning.
- Leak-tight refrigerant circuit.
- Comprehensive endurance tests.
- Aquaforce offers multiple remote control, monitoring and diagnostic possibilities.



Pro-Dialog+ operator interface



Touch-screen Pro-Dialog operator interface

Physical data



Standard-efficiency units 30XWH	254	304	354	402	452	552	602	652	702	802	852	1002	1052	1154	1252	1352	1452	1552†	1652†	1702†
Air conditioning application as per EN14511-3 : 2013																				
Nominal cooling capacity	kW																			
EER	kW/kW																			
ESEER	kW/kW																			
Heating application as per EN14511-3 : 2013																				
Nominal heating capacity	kW																			
COP	kW/kW																			
Operating weight*	kg																			
Dimensions																				
Depth	mm																			
Length	mm																			
Height	mm																			

High-efficiency units 30XW-P	512	562	712	812	862	1012	1162	1314	1464	1612†	1762†
Air conditioning application as per EN14511-3 : 2013											
Nominal cooling capacity	kW										
EER	kW/kW										
ESEER	kW/kW										
Heating application as per EN14511-3 : 2013											
Nominal heating capacity	kW										
COP	kW/kW										
Operating weight*	kg										
Dimensions, length x depth x height	mm										

Physical data for all units	
Compressors	Semi-hermetic 06T screw compressors, 50 r/s
Refrigerant	R-134a
Capacity control	Pro-Dialog, electronic expansion valves (EXV)
Evaporator	Flooded multi-pipe type, maximum operating pressure 1000 kPa, 3/8" NPT drain and vent connections
Condenser	Flooded multi-pipe type, maximum operating pressure 1000 kPa, 3/8" NPT drain and vent connections

NOTE: For the conditions please refer to page 73.

† These models are not Eurovent certified, as they are out of Eurovent certification program scope.

* Weight shown is a guideline only. To find out the unit refrigerant charge, please refer to the unit nameplate.

Electrical data

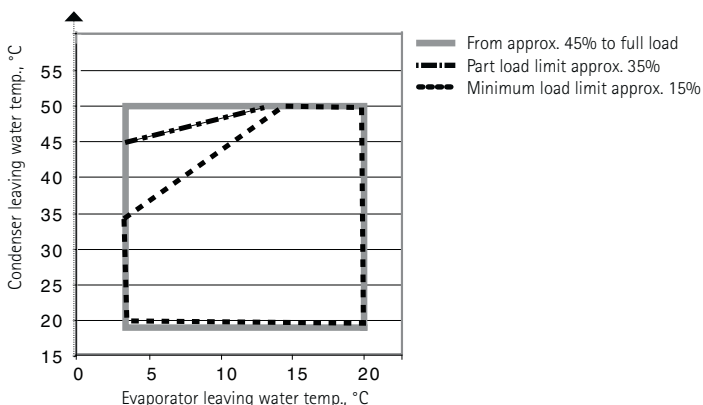
Standard-efficiency units 30XW--	254	304	354	402	452	552	602	652	702	802	852	1002	1052	1154	1252	1352	1452	1552	1652	1702
Nominal power supply, all units																				
Control circuit, all units																				
Maximum start-up current*																				
Circuit A/circuit B	A																			
Maximum power input**																				
Circuit A/circuit B	kW																			
Maximum current drawn (Un)**																				
Circuit A/circuit B	A																			

High-efficiency units 30XW-P	512	562	712	812	862	1012	1162	1314	1464	1612	1762
Maximum start-up current*											
Circuit A/B	A										
Maximum power input**											
Circuit A/B	kW										
Maximum current drawn (Un)**											
Circuit A/B	A										

* Instantaneous start-up current (maximum operating current of the smallest compressor(s) + locked rotor current or reduced start-up current of the largest compressor). Values obtained at operation with maximum unit power input.

** Values obtained at operation with maximum unit power input. Values given on the unit name plate.

Operating range, standard units



Operating range, option 150

