

FullFLOW BOOSTER ECO FullFLOW BOOSTER ECOA1

TOHVT 1335÷1840

Heating capacity 336,4÷843,1 kW



Features

Temperature of the produced water up to 80°C

Efficient and eco-friendly range in R1234ze or R515B

Touch interface (optional)

Integrated MASTER/SLAVE control

Tax incentives*



Packaged non-reversible heat pumps with water source. Range with semi-hermetic screw compressors and R1234ze or R515B refrigerant gas.

Construction features

- Compressor: high energy efficiency semi-hermetic screw compressor with capacity control down to 50%. Star-delta limited start-up and complete with integral protection, casing heater, oil level sensor and refrigerant gas outlet piping shut-off valve
- Utility-side heat exchanger (condenser): with stainless steel plates, complete with closed cell polyurethane foam rubber insulation and water flow differential pressure switch.
- Disposal side heat exchanger (evaporator): with stainless steel plates, complete with closed cell polyurethane foam rubber insulation and water flow differential pressure switch.
- Control: microprocessor electronic control.
- Structure: made of galvanised and painted steel plate with polyester powder coating.
- The unit is also complete with:

- display of cooling circuit high and low pressure;
- electronic expansion valve;
- Master/Slave control up to 4 units in parallel;
- clock board;
- 0-10V analogue signal for water flow modulation.

Versions

- T - High efficiency version

Models

- TOHVTE: unit designed for heating only with R1234ze gas.

- TOHVTO: unit designed for heating only with R515B gas.

management.

- Rhoss sequencer for integrated management of multiple chillers.

Factory fitted accessories

- Power factor correction capacitors ($\cos\phi > 0.94$).
- Soft starter.
- Compressor circuit breaker switches.
- Electro-mechanical flow switch.
- Energy parameter measuring device.
- Cooling circuit inlet valves.
- Refrigerant leak detector.
- Forced limit of power consumption.
- Cooling circuit high and low pressure gauges.
- Double safety valves.
- Technical compartment soundproofing.
- Control of min/max power supply voltage.
- Digital input for double set-point.
- 4-20mA analogue signal for shifting set-point.
- Interfaces for serial communication with other devices.
- Antifreeze heaters for heat exchangers and electrical panel.
- Colour touch user keypad (fitted on the machine or remotely) with 7" display.
- Set-up for outdoor installation.
- Anti-vibration mounts.

Separately supplied accessories

- Outdoor air temperature probe for set-point compensation.
- Water filter.
- Remote keypad with display.
- Rhoss supervisors for unit monitoring and remote

Technical data

TOHVTE-TOHVTO MODEL		1335	1385	1440	1560	1635	1735	1840
① Heating capacity	kW	336,4	383,6	441,3	558,1	633,7	737,7	843,1
① Absorbed power	kW	86,5	98,4	111,4	146,5	161,2	185,8	209,7
① C.O.P.		3,89	3,90	3,96	3,81	3,93	3,97	4,02
TOHVTE-TOHVTO MODEL		1335	1385	1440	1560	1635	1735	1840
② Sound power	dB(A)	93,5	93,5	94	94	95	95	96
Screw compressor	no.	1	1	1	1	1	1	1
Circuits	no.	1	1	1	1	1	1	1
Electrical supply	V-ph-Hz	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50
DIMENSIONS AND WEIGHTS		1335	1385	1440	1560	1635	1735	1840
L – Width	mm	2500	2500	2500	2500	3155	3155	3155
H – Height	mm	2115	2115	2115	2115	2115	2115	2115
P – Depth	mm	1680	1680	1680	1680	1680	1680	1680
③ TOHVTE-TOHVTO weight	kg	2025	2060	2140	2215	2880	2965	3105
SEASONAL ENERGY PERFORMANCE		1335	1385	1440	1560	1635	1735	1840
TOHVTE-TOHVTO MODEL SEASONAL PERFORMANCE IN HEATING MODE								
① Pdesignh (EN 14825)	kW	196	224	256	321	-	-	-
① SCOP (EN 14825)		4,01	4,2	4,28	4,24	-	-	-
② ηs	%	152	160	163	161	-	-	-

Data at the following conditions:

- ① Hot water: 70/78°C. – Evaporator water: 45/40°C.
 - ② Total sound power level in dB(A) based on measurements carried out in accordance with regulation UNI EN-ISO 9614.
 - ③ Empty weight.
- Performance according to EN 14511.
- ① In Average climatic conditions, medium temperature application (55°C)
 - ② Seasonal energy efficiency: low temperature heating in Average climate (EU Regulations No.811/2013 and No.813/2013)



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