EasyPACK ECO HT65 THAEU 275÷295





Cooling capacity 66,4÷86,2 kW Heating capacity 77,8÷101,5 kW

Efficient and eco-friendly range in R454B Temperature of the produced water up to 65°C Full optional unit Integrated MASTER/SLAVE control Partial heat recovery with pump and mixing valve



Tax incentives*

Packaged reversible air-cooled heat pumps with axial fans. Range with hermetic scroll compressors and R454B refrigerant.

Construction features

• Compressor: hermetic rotary, scroll type with steam injection, complete with thermal protection and casing heater.

• Water side heat exchanger: with stainless steel plates, complete with closed cell polyurethane foam rubber insulation and water flow differential pressure switch.

• Air side heat exchanger: featuring finned coil with copper pipes and aluminium fins.

• Fan: external rotor axial type electric fans equipped with internal thermal protection, accident protection grilles. The electric fans, based on the sizes, are EC fans or fitted with a proportional electronic device for continuous regulation of the rotation speed of the fans.

• Control: microprocessor electronic control with Adaptive Function Plus logic.

• Structure: load-bearing structure made of galvanised and painted steel plate with polyester powder coating.

- The unit is also complete with:
- compressor and fan circuit breaker switches;

- electronic expansion valve;
- display of cooling circuit high and low pressure;
- Master/Slave control up to 4 units in parallel;
- clock board;
- control of Variable Primary Flow (VPF_R).

Versions

• T - High efficiency version with oversized condensing section.

• Q - Super-silenced version complete with compressor technical compartment soundproofing, reduced speed fans and oversized condensing section.

Models

• THAETU: high efficiency heat pump unit.



• THAEQU: super silenced heat pump unit.

Factory fitted accessories

• PUMP with single or double electric pump, one of which automatic in standby. The electric pumps are available in the low or high head versions.

• TANK&PUMP with 230 litre integrated buffer tank and single or double electric pump, complete with expansion tank, air vent valves, safety valve and water side pressure gauge.

- Inverter pump control for unit start-up.
- Desuperheater.
- Desuperheater with pump and mixing valve
- Condensing control with fans with EC motor (fitted as standard in THAEQU 275÷285).
- Condensing control with over-pressure fans (T version only)
- Power factor correction capacitors ($\cos\phi > 0.94$).
- Forced limit of power consumption.
- Forced noise limit.
- Energy parameter measuring device.
- Soft starter.
- Technical compressor compartment soundproofing.
- Compressor soundproof enclosures.
- Cooling circuit outlet valves.
- Refrigerant leak detector.

• Gas control and refrigerant leak detector (leak detector plus).

- Cooling circuit high and low pressure gauges.
- Double safety valves.
- Metal filters or coil protection nets.
- Copper/copper, pre-painted copper/aluminium or with hydrophilic treatment coils.
- \bullet Control of min/max power supply voltage and backup battery
- Digital input for double set-point.

- 4-20 mA analogue signal for shifting set-point.
- Contacts for Smart Grid integration and photovoltaic system.

• Evaporator antifreeze heater, electrical panel, buffer tank, electric pumps and heat exchangers for heat recovery if applicable, and base.

- Buffer tank integrative heaters.
- Low temperature water production.
- Interfaces for serial communication with other devices.
- Colour touch user keypad (fitted on the machine or remotely) with 7" display.
- Rubber anti-vibration mounts.

Separately supplied accessories

• 3-way valve for the production of domestic hot water, managed by regulation.

- Remote keypad with display.
- Thermostat with display.

• Rhoss supervisors for unit monitoring and remote management.

• Rhoss sequencer for integrated management of multiple chillers.



Technical data

THA	ETU-THAEQU MODEL		275	285	295
Nom	inal heating capacity	kW	79,6	90	101,5
Nom	inal heating capacity	kW	77,8	88,3	99,5
C.O.I	٥.		3,51	3,52	3,51
C.O.I	٥.		3,6	3,61	3,58
Nom	inal cooling capacity	kW	67,2	75,6	86,2
Nom	inal cooling capacity	kW	66,4	74,5	85,2
D E.E.F	λ.		3,03	2,96	3,1
D E.E.F	λ.		2,97	2,87	3,02
Abso	rbed power	kW	22,7	25,6	28,9
Abso	orbed power	kW	21,6	24,5	27,8
THA	ETU-THAEQU MODEL		275	285	295
3 THA	ETU sound pressure	dB(A)	49	51	53
O THA	EQU sound pressure	dB(A)	44	46	48
THA	ETU sound power	dB(A)	81	83	85
• THA	EQU sound power	dB(A)	76	78	80
Scro	II compressors/steps	n.	2/2	2/2	2/2
Circu	uits	n.	1	1	1
Elect	trical supply	V-ph-Hz	400-3+N-50	400-3+N-50	400-3+N-50
DIMI	ENSIONS AND WEIGHTS		275	285	295
L – V	Vidth	mm	3570	3570	3570
THA	ETU – Height		1700	1700	1800
THA	EQU – Height	mm	1540	1540	1800
P – [Depth	mm	1210	1210	1210
5 THA	ETU weight	kg	980	990	1050
5 THA	EQU weight	kg	1030	1040	1100
	SONAL ENERGY PERFORMANCE		275	285	295
THA 35°C	ETU MODEL SEASONAL PERFORMANCE IN HEATING MODE – Low temperature application				
3 Pdes	ignh (EN 14825)	kW	63	71	80
	P (EN 14825)	•	4,18	4,29	4,15
④ ηs		%	164	168	163
④ Ener	gy class		A++	-	-
THA 35°C	EQU MODEL SEASONAL PERFORMANCE IN HEATING MODE – Low temperature application				
3 Pdes	ignh (EN 14825)	kW	62	70	79
	P (EN 14825)		4,26	4,36	4,19
④ ηs		%	167	171	164
④ Ener	gy class		A++	A++	-
	ETU MODEL SEASONAL PERFORMANCE IN HEATING MODE – Medium temperature cation 55°C				
3 Pdes	ignh (EN 14825)	kW	67	76	86
3 SCO	P (EN 14825)		3,44	3,52	3,45
ns		%	135	138	135
	gy class		A++	-	_
THA	CEQU MODEL SEASONAL PERFORMANCE IN HEATING MODE - Medium temperature cation 55°C				
	ignh (EN 14825)	kW	66	75	84
3 Pdes	-		3,49	3,57	3,48
	P (EN 14825)		3,45	5,57	
	P (EN 14825)	%	137	140	136

Data at the following conditions:

• Air: 35°C – Water: 12/7°C

Air: 7°C, D.B. - 6°C W.B.- Water: 40/45°C.
In op field = 2) at 10 m from the unit.

Total sound power level in dB(A) based on measurements carried out in accordance with regulation UNI EN-ISO 9614.

Total sound power level in (B(A) based on measurements can be used on the used of the

rhoss som phal energy efficiency: low temperature heating in Average climate (EU Regulations No.811/2013 and No.813/2013 – class between D and A+++)

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