

# FLOW BOOSTER EVO

## TOHETL 140÷2140

Heating capacity 40,3-140,4 kW



Features

**Temperature of the produced water up to 80°C**

**Non-flammable reduced GWP gas**

**Touch interface (optional)**

**Integrated MASTER/SLAVE control**

**Tax incentives\***



**Packaged non-reversible heat pumps with water source. Range with scroll hermetic compressors and R513A refrigerant gas.**

### Construction features

- Compressor: hermetic rotary scroll complete with thermal protection and crankcase heater.
- Utility-side heat exchanger (condenser): stainless steel plate heat exchanger, complete with closed-cell polyurethane foam rubber insulation.
- Disposal side heat exchanger: with stainless steel plates, complete with closed cell polyurethane foam rubber insulation and water flow differential pressure switch.
- Control: microprocessor electronic control with Adaptive Function Plus logic.
- Structure: made of galvanised and painted steel plate with polyester powder coating.
- The unit is also complete with:
  - compressor circuit breaker switches;
  - display of cooling circuit high and low pressure;
  - 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

- TOHETL: unit designed for heating only.

### Factory fitted accessories

- VPF control.
- Power factor correction capacitors ( $\cos\phi > 0.94$ ).
- Soft-starter.
- Energy parameter measuring device.
- Cooling circuit outlet and inlet valves.
- Refrigerant leak detector.
- Forced limit of power consumption.
- Cooling circuit high and low pressure gauges.
- Double safety valves.

- Technical compartment soundproofing.
- Compressor soundproof enclosures.
- 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.
- Rubber anti-vibration mounts.

### **Separately supplied accessories**

- 3-way valve for the production of domestic hot water, managed by the adjustment.
- Outdoor air temperature probe for set-point compensation.
- Water filter.
- 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

TOHETL MODEL		140	145	150	160	170	280	290	2105
① Heating capacity	kW	40,3	46,7	52,4	59,3	70,2	80,1	92,7	105,3
① Absorbed power	kW	9,4	10,9	12,4	14,4	17	18,8	22,1	24,8
① C.O.P.		4,29	4,28	4,21	4,13	4,14	4,27	4,2	4,24
TOHETL MODEL		140	145	150	160	170	280	290	2105
② Sound power	dB(A)	70	70	71	72	73	74	74	75
Scroll compressor/steps	no.	1/1	1/1	1/1	1/1	1/1	2/2	2/2	2/2
Circuits	no.	1	1	1	1	1	1	1	1
Electrical supply	V-ph-Hz	400-3+N-50	400-3+N-50	400-3+N-50	400-3+N-50	400-3+N-50	400-3+N-50	400-3+N-50	400-3+N-50
DIMENSIONS AND WEIGHTS		140	145	150	160	170	280	290	2105
L – Width	mm	1190	1190	1190	1190	1190	1500	1500	1500
H – Height	mm	1450	1450	1450	1450	1450	1860	1860	1860
P – Depth	mm	720	720	720	720	720	870	870	870
③ TOHETL weight	kg	345	350	355	365	380	600	605	620
SEASONAL ENERGY PERFORMANCE		140	145	150	160	170	280	290	2105
TOHETL MODEL SEASONAL PERFORMANCE IN HEATING MODE									
① Pdesignh (EN 14825)	kW	22	25	29	33	38	43	50	57
① SCOP (EN 14825)		4,01	4,03	4,08	4,07	3,99	4,56	4,45	4,56
② ηs	%	152	153	155	155	152	174	170	174
② Energy class		A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++
TOHETL MODEL							2115	2140	
① Heating capacity	kW						117,8	140,4	
① Absorbed power	kW						28,7	34,1	
① C.O.P.							4,11	4,12	
TOHETL MODEL							2115	2140	
② Sound power	dB(A)						76	77	
Scroll compressor/steps	no.						2/2	2/2	
Circuits	no.						1	1	
Electrical supply	V-ph-Hz						400-3+N-50	400-3+N-50	
DIMENSIONS AND WEIGHTS							2115	2140	
L – Width	mm						1500	1500	
H – Height	mm						1860	1860	
P – Depth	mm						870	870	
③ TOHETL weight	kg						630	645	
SEASONAL ENERGY PERFORMANCE							2115	2140	
TOHETL MODEL SEASONAL PERFORMANCE IN HEATING MODE									
① Pdesignh (EN 14825)	kW						65	77	
① SCOP (EN 14825)							4,41	4,45	
② ηs	%						168	170	
② Energy class							A+++	-	

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 including INS accessory.  
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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