

PLUS C LINE

COMMERCIAL SOLUTIONS

USE OF HEAT PUMPS

The use of heat pumps in the industrial sector is becoming increasingly popular. Their efficiency is increasing, and their widespread application is due to economy. THERMATEC PLUS C LINE heat pumps provide the possibility of individually adapting the system to the needs of your facility. Our pumps are perfect for heating various large-area facilities.



ULTRA EFFICIENT HIGH POWER HEAT PUMP SYSTEM FROM 50 kW TO 800 kW

R290 NEW GENERATION



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MODULARITY AND FLEXIBILITY

HEAT PUMPS THERMATEC PLUS C LINE CAN BE COMBINED UP TO **16** UNITS. THIS PROVIDES FULL FREEDOM IN CONSTRUCTING A SYSTEM WITH THE APPROPRIATE POWER.



CONTROL SYSTEM
5" TOUCH CONTROLLER

x16

CASCADE POWER UP TO **800 kW**
POWER OF A SINGLE DEVICE **50 kW**

R290

ENERGY EFFICIENCY A++

FOR WATER SUPPLY TEMPERATURES OF 35°C AND 55°C*

TECHNICAL PARAMETERS

MODEL	TH-R290-C50-3P	
Power supply	380-415V / 3N~ / 50Hz	
Input power	kW	48.17
Heating (A7/W35)	heating capacity range	kW 17.56 – 55.30
	input power	kW 3.15 – 14.85
	COP	kW/kW 3.72 – 5.57
Heating (A7/W55)	heating capacity range	kW 17.95 – 51.20
	input power	kW 5.42 – 19.20
	COP	kW/kW 2.67 – 3.31
Cooling (A35/W12)	cooling capacity range	kW 10.00 – 32.00
	input power	kW 3.84 – 13.30
SCOP average (THW at 35°C)	kWh/kWh	3.92
SCOP average (THW at 55°C)	kWh/kWh	3.25
Rated input power	kW	19.84
Rated input current	A	30.3
Refrigerant TYPE / CHARGE / GWP	- / kg/-	R290 / 2 x 2.5 / 3
CO ₂ equivalent	TCO ₂ eq	0.015
Operation pressure (low side)	MPa	0.8
Operation pressure (high side)	MPa	3.0
Maximum allowable pressure	MPa	3.0
Electrical shockproof	Class	I
Ingress protection	IP	IPX4
Maximum outlet water temperature	°C	75
Operating ambient temperature	°C	-25 ~ 45
Water piping connections	cal	G1 1/2
Rated water flow	m ³ /h	8.6
Water pressure drop	kPa	6.5
Water pressure (min. – max.)	MPa	0.1 – 0.3
Sound pressure (1 m)	dB(A)	60
Net dimensions (L x W x H)	mm	1155 x 990 x 1880
Net weight	kg	500

NOMINAL TEST CONDITIONS

Heating (A7/W35): Outdoor temperature 7°C/6°C (DB/WB) Water inlet/outlet 30°C/35°C
 Heating (A7/W55): Outdoor temperature 7°C/6°C (DB/WB) Water inlet/outlet 47°C/55°C
 Cooling (A35/W12): Outdoor temperature 35°C/24°C (DB/WB) Water inlet/outlet 12°C/7°C

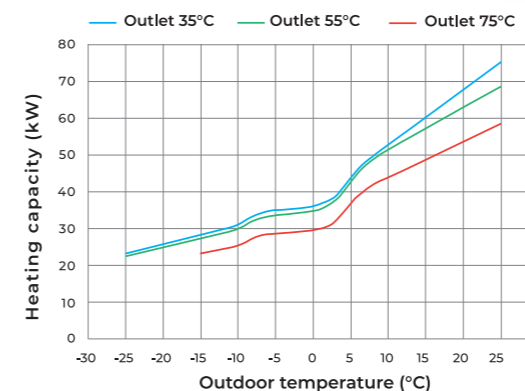
MAIN ADVANTAGES OF HEAT PUMPS THERMATEC PLUS C LINE

- COMPACT ENCLOSURE AND MODERN DESIGN
- DTU MODULE - CONSTANT CONTROL OF THE PUMP
- DC - INVERTER DEVICE
- QUIET OPERATION
- HIGH HEATING EFFICIENCY EVEN AT LOW TEMPERATURES
- EASY INSTALLATION AND DEVICE OPERATION REGULATION
- R290 REFRIGERANT - NEW GENERATION
- UP TO 3 YEARS WARRANTY

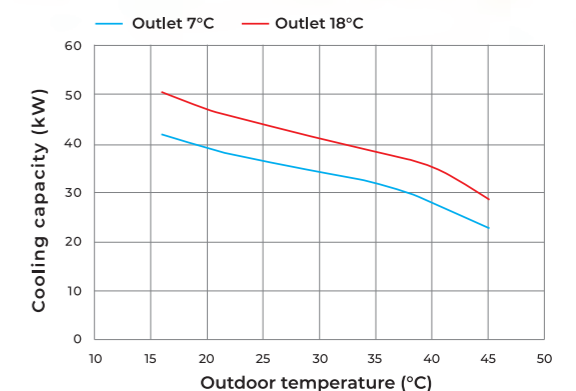
*Test conducted in accordance with European standards obligatory from 2023.

WIDE OPERATING RANGE

Wide operating range of the device down to -25°C for heating / up to 45°C for cooling. The device has a high energy efficiency class A++.



HEATING



COOLING**

**When using fan coil units.