



THERMATEC

PLUS LINE

COMMERCIAL SOLUTIONS
TH-R290-C50-3P | 50 kW



PLUS C LINE **TH-R290-C50-3P**
ULTRA EFFICIENT HEAT PUMPS SYSTEM

CATALOG CARD 2023



R290

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Main advantages



heat pump
cascade



energy
efficiency **A++**



ultra eco-friendly
refrigerant **R290**



DTU module
+ **iOT** application



5" touch
screen



up to **3 years**
warranty



compact enclosure
and **modern** design



inverter
technology

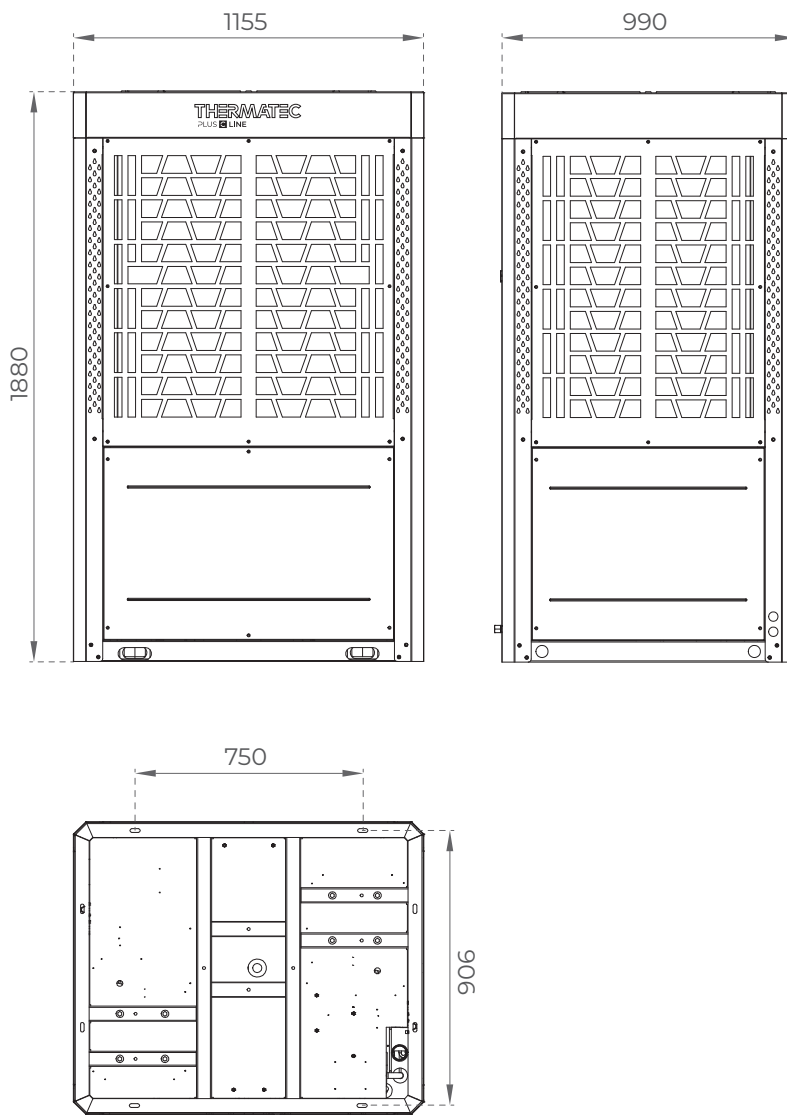


stable operation
at **-25°C**

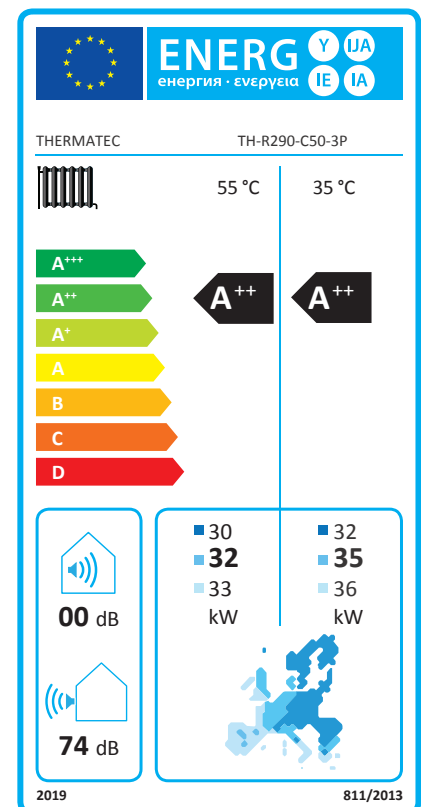


super
silent

Dimensions



ERP Label



Energy label according to testing methods in line with the latest guidelines of the European Union directive from 11/2022:

PN-EN 14511: 2022
PN-EN 14825: 2022

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Technical parameters

The THERMATEC PLUS C LINE heat pump is based on the R290 refrigerant with a high power up to 50 kW. The possibility of connecting devices in a cascading system allows us to build an ultra-efficient system with a capacity of up to 800 kW. Due to the refrigerant used, THERMATEC heat pumps provide effective heating for large facilities. Inverter technology allows a single unit to operate in ranges of 17.56 – 55.30 kW, resulting in high system performance and low operating costs. The PLUS C LINE series heat pumps allow for individual system customization to suit your facility's needs. Our pumps work perfectly when heating various large-scale facilities such as factories, production halls, office buildings, shopping centers, public utility buildings, hotels, restaurants, farms, glasshouse crops and even churches and presbyteries.


R290

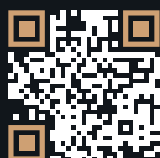


MODEL		TH-R290-C50-3P	
Power supply		380-415V / 3N~ / 50Hz	
Input power		kW	48.17
Heating (A7/W35)	heating capacity range	kW	17.56 – 55.30
	input power	kW	3.15 – 14.85
	COP	kW/kW	3.72 – 5.57
Heating (A7/W55)	heating capacity range	kW	17.95 – 51.20
	input power	kW	5.42 – 19.20
	COP	kW/kW	2.67 – 3.31
Cooling (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

DISTRIBUTOR'S STAMP



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