



THERMATEC

PLUS **S** LINE

SMART SOLUTIONS
TH-R290-S16-3P | 16 kW



PLUS S LINE **TH-R290-S16-3P**
MONOBLOCK TYPE HEAT PUMP

CATALOG CARD 2023



R290

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Main advantages



function
SG READY



warm water
up to **75°C**



energy efficiency
A+++ and A++



ultra eco-friendly
refrigerant **R290**



DTU module
+ **iOT application**



5" touch
screen



heating curve
function



integrated
bracket



unique enclosure
design



inverter
technology

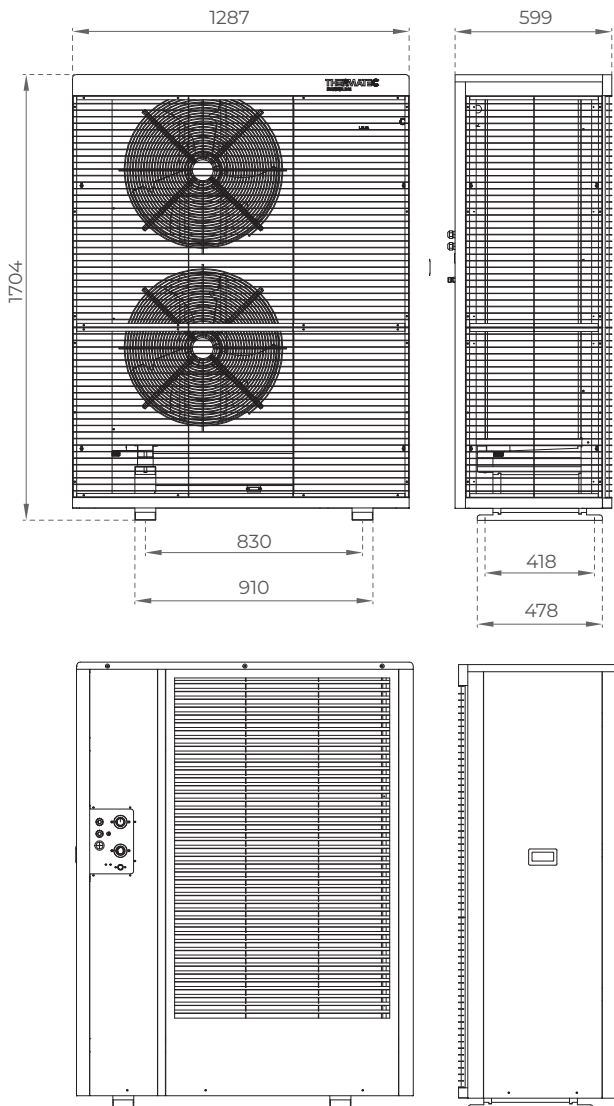


stable operation
at **-25°C**

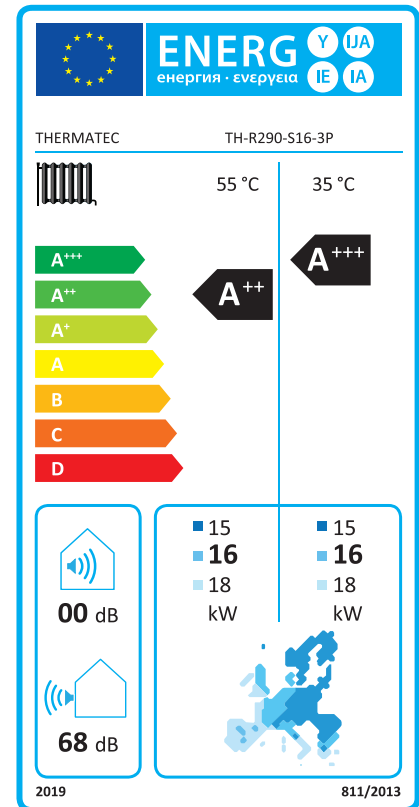


super
silent

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 most powerful heat pump in our offer with a power of 16 kW is an advanced device that ensures efficient and effective heating or cooling of large rooms or buildings.

Made from high-quality components, the heat pump guarantees reliable operation and energy savings. Thanks to its high power and wide operating range 7.25 – 21.70 kW, it is also an ideal solution for commercial facilities with larger thermal energy requirements.



R290

SECOND GENERATION



MODEL		TH-R290-S16-3P	
Power supply			380-415V / 3N~ / 50Hz
Input power		kW	16
Heating (A7/W35)	heating capacity range	kW	7.25 – 21.70
	input power	kW	1.50 – 5.88
	input current	A	2.82 – 9.16
	COP	kW/kW	3.69 – 4.83
Heating (A7/W55)	heating capacity range	kW	6.36 – 19.43
	input power	kW	2.15 – 6.85
	input current	A	3.71 – 10.60
	COP	kW/kW	2.84 – 2.96
Cooling (A35/W12)	cooling capacity range	kW	4.56 – 17.00
	input power	kW	1.85 – 7.31
	input current	A	2.99 – 11.26
SCOP average (THW at 35°C)		kWh/kWh	4.72
SCOP average (THW at 55°C)		kWh/kWh	3.65
Rated input power		kW	10.50
Rated input current		A	17
Refrigerant TYPE / CHARGE / GWP		- / kg / -	R290 / 1.4 / 3
CO ₂ equivalent		TCO ₂ eq	0.0042
Operation pressure (low side)		MPa	0.8
Operation pressure (high side)		MPa	3.0
Maximum allowable pressure		MPa	3.2
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 ¼
Rated water flow		m ³ /h	2.75
Water pressure drop		kPa	55
Water pressure (min. – max.)		MPa	0.1 – 0.3
Sound pressure (1 m)		dB(A)	52
Net dimensions (L x W x H)		mm	1287 x 599 x 1704
Net weight		kg	265
Bracket		YES	integrated

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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