

ELITE R290 INVERTER

The next generation of Inverter Technology



INNOVATION!

The ELITE 290 inverter heat pump was developed to get the most out of inverter technology when using a natural and ecological refrigerant, R290. Apart from the current regulations in force, this foreshadows the machine of tomorrow. With its innovative operation and high energy Full Inverter efficiency.

It's THE SOLUTION OF TOMORROW - available today The option to massively reduce our ecological footprint of pool heating.

TECHNICAL PROPERTIES

- **R290 gas**
- Exclusive 'low temperature' system
- Very low noise level
- Full Inverter Technology (both for compressor and fan)
- Remote control via smartphone application (WiFi)
- Excellent COP > 15
- Control of energy consumption thanks to exclusive self-regulation
- A sharp and innovative design
- TFT full-colour touchscreen (movable)
- Body made of recycled material
- Compatible with photovoltaic panel systems PolySolar Energy system

R290

Using of the natural refrigerant R290 (or propane) has many advantages:

- Reliable, natural and environmentally neutral, the physical properties of the natural and environmentally friendly R290 gas and its high energy efficiency make it possible to obtain an even better COP
- The use of R290 propane also makes it possible to extend the range of operating temperatures (down to -25°C)
- It does not require authorisation in the event of intervention or refilling, nor does it require annual leakage checks. Moreover, R290 is not affected by the F-Gas regulations in force and the regulatory context which restricts the use of traditional fluids





HEAT PUMP

COMPRESSOR

HEAT EXCHANGER

3
YEAR
WARRANTY

5
YEAR
WARRANTY

10
YEAR
WARRANTY



LINKABLE WITH
8+ blueMatic

+2 extra years
(if connected to 4G module)

TEST CONDITIONS	MODE	MODELS	R290 9 KW - XS 15 - 45 m ²	R290 12,5 KW - S 45 - 55 m ²	R290 14 KW - S+ 55 - 70 m ²	R290 16,6 KW - M 70 - 85 m ²	R290 21,5 KW - XM 85 - 105 m ²	
SCOP according to EN 17645			7,8	7,5	7,9	7,8	7,6	
Classification according to EN 17645			A	A	A	A	A	
Air 26°C Water 26°C Humidity 80%	BOOST	Capacity	9,2 kW	12,5 kW	14,2 kW	16,6 kW	21,5 kW	
		COP	5,7	5,5	5,5	5,11	5,5	
	SMART	Capacity	7,5 - 4,3 kW	9,4 ~ 5,0 kW	11,9 ~ 7,1 kW	14,1 ~ 8,1 kW	17,8 ~ 11,5 kW	
		COP	11,2 ~ 6,8	10,3 ~ 6,3	11,1 ~ 6,6	11,2 ~ 6,0	11,2 ~ 5,9	
	SILENCE	Capacity	4,3 kW	5,0 kW	7,1 kW	8,1 kW	11,5 kW	
		COP	11,2	10,3	11,1	11,2	11,2	
	Air 15°C Water 26°C Humidity 70%	BOOST	Capacity	6,9 kW	9,2 kW	10,8 kW	12,8 kW	17,1 kW
			COP	4,4	4,5	4,5	4,4	4,4
SMART		Capacity	5,7 ~ 3,3 kW	7,6 ~ 4,1 kW	9,1 ~ 6,8 kW	10,9 ~ 6,2 kW	14,1 ~ 9,1 kW	
		COP	7,1 ~ 5,1	7,2 ~ 5,3	7,2 ~ 5,4	7,4 ~ 5,1	7,5 ~ 4,8	
SILENCE		Capacity	3,3 kW	4,1 kW	5,5 kW	6,2 kW	9,1 kW	
		COP	7,1	7,2	7,2	7,4	7,5	
Air -15°C Water 26°C Humidity 0%	BOOST	Capacity	2,8 kW	3,5 kW	4,6 kW	4,9 kW	8,2 kW	
		COP	2,0	2,4	2,3	2,1	2,2	
Power			230V/1 ~ +N/50Hz					
Power Input Max (air 28°C)			1,8 kW	2,0 kW	2,4 kW	3,4 kW	4,1 kW	
Refrigerant gas			R290					
Compressor type			2D Full DC Inverter Mitsubishi / Toshiba					
Heat exchanger			Titanium coil					
Minimum water flow			2 m ³ /h	2 m ³ /h	3 m ³ /h	4 m ³ /h	5 M ³ /H	
Noise level (at 10m) according to EN ISO 3741 : 2010			25 ~ 27 dB(A)	27 ~ 29 dB(A)	27 ~ 30 dB(A)	28 ~ 32 dB(A)	28 ~ 33 DB(A)	
Noise level (at 10m) according to EN ISO 3744			21 ~ 24 dB(A)	22 ~ 25 dB(A)	25 ~ 28 dB(A)	25 ~ 29 dB(A)	26 ~ 29 DB(A)	
Fuse & cable size up to 20 m from the main fuse			C 10 A (3G 2,5 mm ²)	C 16 A (3G 2,5 mm ²)	C 16 A (3G 2,5 mm ²)	C 20 A (3G 4 mm ²)	C 20 A (3G 4 mm ²)	
Connection			1,5" / 50 mm					
Weight (kg)			73 kg (79 kg)	74 kg (80 kg)	91 kg (98 kg)	92,5 kg (99,5 kg)	94 KG (101 KG)	
Dimensions in mm (L x l x h)			960 x 475 x 755	960 x 475 x 755	1190 x 555 x 970	1190 x 555 x 970	1190 x 555 x 970	
Casing			70% recycled material - UV treated					
Temperature working range			-25°C -> +43°C					

REF	TYPE
03031183	Polytropic Elite R290 Inverter 9 KW - XS (incl. 4G)
03031184	Polytropic Elite R290 Inverter 12,5 KW - S (incl. 4G)
03031185	Polytropic Elite R290 Inverter 14 KW - S+ (incl. 4G)
03031186	Polytropic Elite R290 Inverter 16,6 KW - M (incl. 4G)
03031187	Polytropic Elite R290 Inverter 21,5 KW - XM (incl. 4G)