i-290	Datasheet

MAXA HEATING & COOLING

i-290 Heat Pump Range
R290 Gas

i-290 0106/0109/0112/0115/0118/0121/0123/0125/0127

i-290

Key Features

- Inverter Monoblock.
- Single solution for heating, cooling and hot water production.
- Unique design integrates advanced technical solutions and modern aesthetics.
- The i-290 range is available in 9 sizes, with power between 6kW and 27kW.
- Maxa's i-290 heat pumps are designed to generate high water temperature even in the harshest conditions.
- Made in Italy.
- Market leading SCOP's.
- 3 year Manufacturer's warranty. For information about extended warranties contact Energy Lab.

ICIM · EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com · 78°C hot water · GWP 3 · A+++ energy rating · ECO FRIENDLY R290 Natural refrigerant

MAXA HEATING & COOLING

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maxaheatpumps.co.uk

Company Number: 15140488
Registered Office: 53 Stonecot Hill, Sutton, Surrey, United Kingdom, SM3 9HJ

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Technical Data

i-290		0106	0109	0112	0115	0118	0121	0123	0125	0127
Cooling										
Cooling capacity (1)	kW	5,8* / 5,4	9,2* / 8,6	11,2* / 10,7	13,5* / 12,4	14,3* / 13,8	17,4	18,9	19,8	22,3
Power input (1)	kW	2,0	2,8	3,8	3,7	4,3	5,26	5,89	6,19	7,19
E.E.R. (1)	W/W	2,8	3,1	2,6	3,4	3,2	3,31	3,21	3,20	3,10
Cooling capacity (2)	kW	6,2* / 5,62	9,9* / 9,15	13,3* / 12,57	14,4* / 12,90	14,8* / 13,94	19,6	21,0	25,3	27,9
Power input (2)	kW	1,25	1,93	2,83	2,40	2,69	4,02	4,38	5,32	6,43
E.E.R. (2)	W/W	4,49	4,74	4,44	5,37	5,18	4,88	4,79	4,76	4,34
SEER (5)	W/W	4,8	5,4	4,7	5,0	5,0	5,27	5,27	4,94	4,84
Water flow rate (1)	L/s	0,3	0,4	0,5	0,6	0,7	0,83	0,90	0,95	1,07
Useful head (1)	kPa	66	57	81	80	74	128	121	128	117
Heating										
Heating capacity (3)	kW	6,9* / 6,24	10,4* / 9,69	13,7* / 12,60	17,7* / 16,33	19,84* / 18,72	21,0	22,8	24,8	27,0
Power input (3)	kW	1,31	2,05	2,61	3,30	4,05	4,31	4,78	5,37	6,21
C.O.P. (3)	W/W	4,76	4,72	4,83	4,94	4,62	4,87	4,77	4,62	4,35
Heating capacity (4)	kW	6,4* / 6,0	9,75* / 9,1	12,77* / 11,6	17,69* / 15,2	18,7* / 17,4	19,6	21,6	23,2	26,3
Power input (4)	kW	1,9	2,9	3,6	4,5	5,3	6,13	6,79	7,66	8,74
C.O.P. (4)	W/W	3,1	3,2	3,2	3,4	3,3	3,20	3,18	3,03	3,01
Heating capacity (11)	kW	6,41* / 5,9	9,81* / 9,1	13,08* / 12,0	16,64* / 14,7	17,7* / 16,7	19,7	21,2	24,1	25,8
Power input (11)	kW	2,3	3,4	4,6	5,2	6,0	7,38	7,97	9,56	10,3
C.O.P. (11)	W/W	2,6	2,7	2,6	2,8	2,8	2,67	2,66	2,52	2,50
SCOP (6)	W/W	4,7	5,2	4,9	4,9	4,8	4,75	4,72	4,49	4,46
Water flow rate (3)	L/s	0,3	0,4	0,6	0,8	0,9	0,59	0,65	0,69	0,79
Useful head (3)	kPa	63	52	79	68	60	150	146	149	142
Energy efficiency (Water 35°C-65°C)		A+++/A++	A+++/A+++	A+++/A++	A+++/A++	A+++/A++	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++
Compressor										
Type		Twin Rotary DC Inverter	Twin Rotary DC Inverter	Twin Rotary DC Inverter	Twin Rotary DC Inverter	Twin Rotary DC Inverter	Scroll DC Inverter	Scroll DC Inverter	Scroll DC Inverter	Scroll DC Inverter
Compressors	n°	1	1	1	1	1	1	1	1	1
Refrigerant circuits	n°	1	1	1	1	1	1	1	1	1
Refrigerant quantity (7)	kg	0,43	0,75	1,00	1,27	1,27	1,7	1,7	2,1	2,1
Hydraulic circuit										
Plumbing fittings	inch	G1"	G1"	G1"	G1"	G1"	1" 1/4 M	1" 1/4 M	1" 1/4 M	1" 1/4 M
Minimum water volume (8)	L	65	95	125	155	155	175	175	220	225
Noise level										
Sound power (9)	dB(A)	57	58	59	62	62	64	64	65	65
Sound pressure at 1m distance (10)	dB(A)	42	43	44	47	47	48	48	49	49
Electrical data										
Power supply		230V/1/50Hz			400V/3/50Hz		400V/3P+N+T/50Hz			
Maximum power input	kW	3	4	5	8	8	11	11	13	13
Maximum input current	A	14	21	26	16	16	19	19	21	21
Weight										
Shipping weight	kg	117	119	170	188	188	276	276	285	285

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Dimensions

		0106	0109	0112	0115	0118	0121	0123	0125	0127
L	mm	1105	1105	1105	1105	1105	1610	1610	1610	1610
P	mm	490	490	490	490	490	710	710	710	710
H	mm	870	870	1440	1440	1440	1270	1270	1270	1270

Main Accessories Available

NAME	DESCRIPTION	MODELS	
		0106 / 0118	0121 / 0127
FACTORY-FITTED ACCESSORIES			
CM	Modbus connectivity ready	■	●
KA	Heat exchanger + base frame heater	●	●
KA3	Base frame heater	●	●
RP	Battery protection grids	●	●
ACCESSORIES SUPPLIED SEPARATELY			
AG	Antivibration Kit	●	●
e-LITE	Multifunctional touch screen remote control	●	■
i-CR2	Wall-mounted remote control	■	●
Hi-TV415	Remore Display Touch Screen	●	●
FD	Defangator filter	●	●
FY	Y-Filter	●	●
Gi3	Hardware expansion module	●	●
EXOGEL	Anti-freeze thermal discharge valve	●	
RP	Battery protection grids (for field mounting)	●	●
SAS	System remote probe - Domestic hot water storage probe	●	●
TR2	Cu/Al battery with anti-corrosion treatment	●	●
VDIS2	Three-way diverter valve - Kvs 19,2	●	
VDIS3	Three-way diverter valve - Kvs 20,8		●

●: available
■: supplied as standard

• PERFORMANCE REFERRING TO THE FOLLOWING CONDITIONS:

1. Cooling: outdoor air temperature 35°C; in/out water temperature 12/7°C.
2. Cooling: outdoor air temperature 35°C; in/out water temperature 23/18°C.
3. Heating: outdoor air temperature 7°C db 6°C db; in/out water temperature 30/35°C.
4. Heating: outdoor air temperature 7°C db 6°C db; in/out water temperature 47/55°C.
5. Cooling: low temperature, variable output, fixed flow rate.
6. Heating: average climatic conditions; Tbiv=-7°C; low temperature, variable output, fixed flow rate.
7. Indicative data subject to changes. For the correct value, always refer to the technical label on the unit.
8. Calculated for a decrease in system water temperature of 10°C with a defrost cycle lasting 6 minutes.
9. Sound power: heating mode according to EN 12102:2022; value determined on the basis of measurements made in accordance with UNI EN ISO 9614-1, in compliance with Eurovent certification requirements.
10. Sound pressure: value calculated from the sound power level using the standard ISO 3744:2010 at a distance of 1 m.
11. Heating: outdoor air temperature 7°C db 6°C db; in/out water temperature 55/65°C.