

i-290

Choose the Future. Now.

New Heat Pumps Range
with Gas R290




MXN[®]
HEATING & COOLING

LIVE
DIFFERENT


i-290


New Heat Pumps Range with R290 gas

The widest in the market!


 A unique solution for heating, cooling and hot water production with assured performance all year round.



 Sustainability, technology and reliability combined with an incomparable **Made in Italy** style.

 MAXA's i-290 heat pumps are designed to generate **extremely high water temperatures** even in the harshest conditions.

 **78°C**
hot water

 The range is distinguished by a **unique design** that integrates advanced technical solutions and modern aesthetics.


With elegant lines and **state-of-the-art functionality**, it combines energy efficiency with distinctive style, representing excellence in heating and cooling.



MAXXA[®]

HEATING & COOLING

DESIGNED, REALIZED, GUARANTEED IN ITALY

 The **i-290 range** is available in **11 sizes**, with power outputs between **6 kW** and **50 kW** in heating mode.

Finally, the right heat pump solution for every system.

The i-290 range can be **perfectly and quickly integrated** both in new buildings and in combination with existing systems.

This makes it possible to satisfy with great efficiency both radiant floor systems, as well as traditional systems that exploit high-temperature water.

Environmental Sustainability


Thanks to the R290 technology, your system operates without the use of any fuel gas, ensuring efficient and sustainable operation **without any CO2 emissions** into the environment.

Unique and suitable for every need

Numerous accessories and fittings allow the individual heat pump to be customised.

LIVE
DIFFERENT

 **GWP = 0,02**

 **A+++**
energy class



i-290		0106	0109	0112	0115	0118	0121	0123	0125	0127	0240	0250
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	28,9	34,1
Power input (1)	kW	2,0	2,8	3,8	3,7	4,3	5,26	5,89	6,19	7,19	9,20	11,0
E.E.R. (1)	W/W	2,8	3,1	2,6	3,4	3,2	3,31	3,21	3,20	3,10	3,14	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	34,5	37,0
Power input (2)	kW	1,25	1,93	2,83	2,40	2,69	4,02	4,38	5,32	6,43	8,10	8,53
E.E.R. (2)	W/W	4,49	4,74	4,44	5,37	5,18	4,88	4,79	4,76	4,34	4,26	4,34
SEER (5)	W/W	4,8	5,4	4,7	5,0	5,0	5,27	5,27	4,94	4,84	4,86	4,80
Water flow rate (1)	L/s	0,3	0,4	0,5	0,6	0,7	0,83	0,90	0,95	1,07	1,38	1,63
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	40,1	50,0
Power input (3)	kW	1,31	2,05	2,61	3,30	4,05	4,31	4,78	5,37	6,21	9,8	11,9
C.O.P. (3)	W/W	4,76	4,72	4,83	4,94	4,62	4,87	4,77	4,62	4,35	4,10	4,20
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	38,0	47,9
Power input (4)	kW	1,9	2,9	3,6	4,5	5,3	6,13	6,79	7,66	8,74	13,1	16,5
C.O.P. (4)	W/W	3,1	3,2	3,2	3,4	3,3	3,20	3,18	3,03	3,01	2,90	2,90
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	38,4	45,8
Power input (11)	kW	2,3	3,4	4,6	5,2	6,0	7,38	7,97	9,56	10,3	16,0	18,8
C.O.P. (11)	W/W	2,6	2,7	2,6	2,8	2,8	2,67	2,66	2,52	2,50	2,40	2,44
SCOP (6)	W/W	4,7	5,2	4,9	4,9	4,8	4,75	4,72	4,49	4,46	4,09	4,20
Water flow rate (3)	L/s	0,3	0,4	0,6	0,8	0,9	0,59	0,65	0,69	0,79	1,14	1,43
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++	A++ A++	A++ A++
Compressor												
Type		Twin Rotary DC Inverter					Scroll DC Inverter					
Compressors	n°	1	1	1	1	1	1	1	1	1	2	2
Refrigerant circuits	n°	1	1	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	3,15	3,50
Hydraulic circuit												
Hydraulic connections	φ	1" M					1" 1/4 M				1" 1/2 (DN 40)	
Connection type		Gas thread									Grooved joint	
Min. water volume (8)	L	65	95	125	155	155	175	175	220	225	365	415
Noise level												
Sound power (9)	dB(A)	57	58	59	62	62	64	64	65	65	82	83
Sound pressure at 1m distance (10)	dB(A)	42	43	44	47	47	48	48	49	49	64	65
Electrical data												
Power supply		230V/1/50Hz					400V/3P+N+T/50Hz					
Maximum power input	kW	3	4	5	8	8	11	11	13	13	23	27
Maximum input current	A	14	21	26	16	16	19	19	21	21	37	44
Weight												
Shipping weight	kg	117	119	170	188	188	276	276	285	285	510	525

PERFORMANCE REFERRING TO THE FOLLOWING CONDITIONS:

- Cooling: outdoor air temperature 35°C; in/out water temperature 12/7°C.
- Cooling: outdoor air temperature 35°C; in/out water temperature 23/18°C.
- Heating: outdoor air temperature 7°C db 6°C db; in/out water temperature 30/35°C
- Heating: outdoor air temperature 7°C db 6°C db; in/out water temperature 47/55°C.
- Cooling: low temperature, variable output, fixed flow rate.
- Heating: average climatic conditions; T_{biv}=-7°C; low temperature, variable output, fixed flow rate.
- Indicative data subject to changes. For the correct value, always refer to the technical label on the unit.

- Calculated for a decrease in system water temperature of 10°C with a defrost cycle lasting 6 minutes.
 - 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.
 - Sound pressure: value calculated from the sound power level using the standard ISO 3744:2010 at a distance of 1 m.
 - Heating: outdoor air temperature 7°C db 6°C db; in/out water temperature 55/65°C.
- (* by activating the maximum Hz function

Dimensions

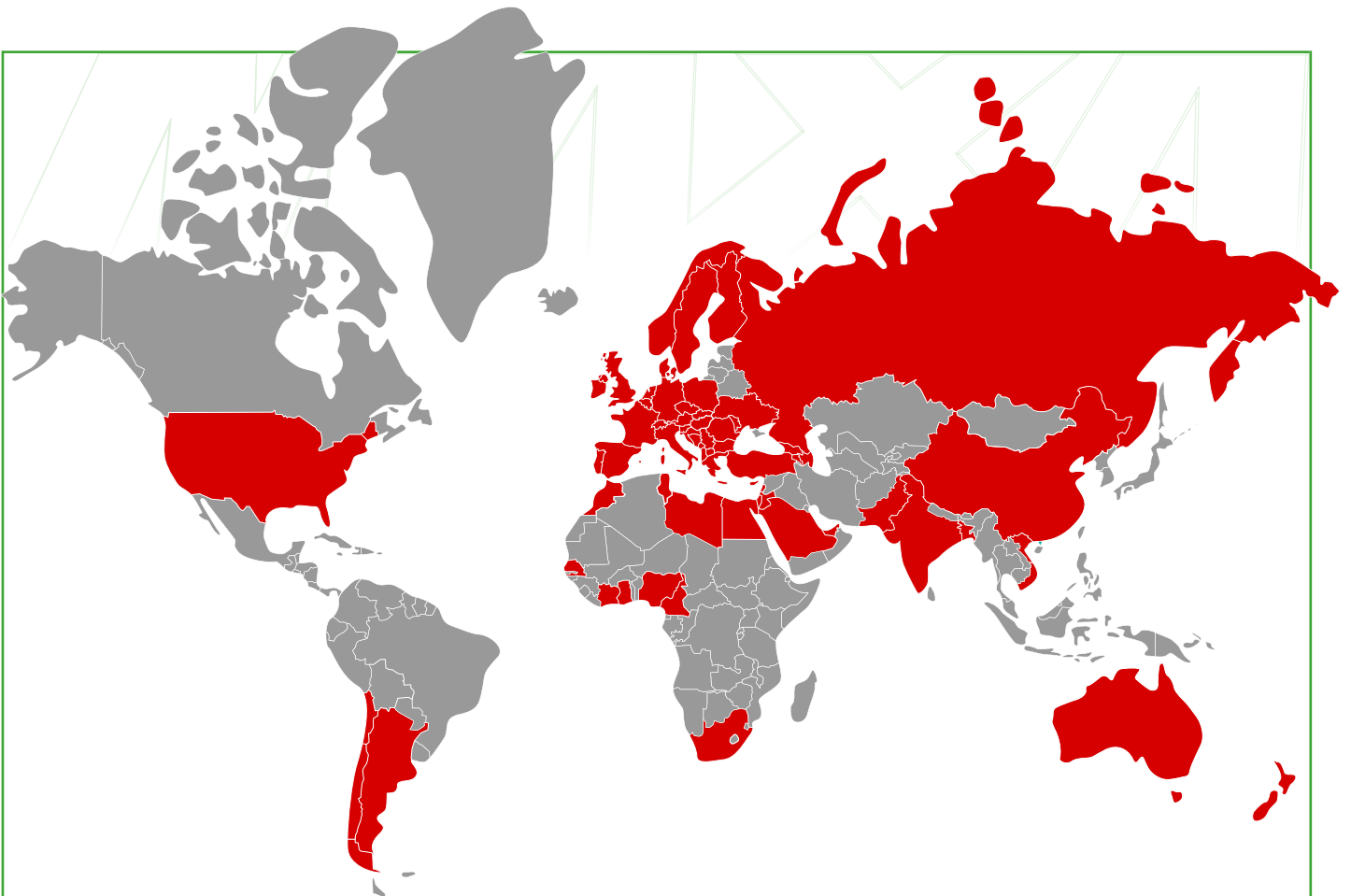


		0106	0109	0112	0115	0118	0121	0123	0125	0127	0240	0250
L	mm	1105	1105	1105	1105	1105	1610	1610	1610	1610	1850	1850
P	mm	490	490	490	490	490	710	710	710	710	1110	1110
H	mm	870	870	1440	1440	1440	1270	1270	1270	1270	1920	1920

Main Accessories Available

NAME	DESCRIPTION	MODELS		
		0106 / 0118	0121 / 0127	0240/0250
FACTORY-FITTED ACCESSORIES				
CM	Modbus connectivity ready	■	●	●
KA	Heat exchanger + base frame heater	●	●	x
KA1	Heat exchanger + pump (if on board) electrical heaters	x	x	●
KA3	Base frame heater	●	●	x
RP	Battery protection grids	●	●	●
PS	Single pump AC	x	x	●
PSEC	Single pump EC	x	x	●
PSEC-SI	Single pump EC and inertial tank	x	x	●
PSI	Inverter modulated single pump AC	x	x	●
PSI-SI	Inverter modulated single pump AC and inertial tank	x	x	●
PS-SI	Single pump AC and inertial tank	x	x	●
TR2	Cu-Al coil anti-corrosion treatment	●	●	●
ACCESSORIES SUPPLIED SEPARATELY				
AG	Antivibration Kit	●	●	●
e-LITE	Multifunctional touch screen remote control	■	■	●
Hi-TV415	Remote Display Touch Screen	●	●	●
CONNECT BOX	Heat pump communication gateway and MAXA CONNECT	●	●	●
FD	Defangator filter	●	●	x
FY	Y-Filter	●	●	●
Gi3	Hardware expansion module	●	●	●
EXOGEL	Anti-freeze thermal discharge valve	●	x	x
RP	Battery protection grids (for field mounting)	●	●	●
RV	Grooved Joint Connection	x	x	●
SAS	System remote probe - Domestic hot water storage probe	●	●	●
VDIS2	Three-way diverter valve - Kvs 19,2	●	x	x
VDIS3	Three-way diverter valve - Kvs 20,8	x	●	x
VDIS4	Three-way diverter valve for hot water production in sanitary thermal storage	x	x	●

●: available x: not provided ■: supplied as standard



Years of Activity **30+**

MQ Establishment **10.520**

Employees **230**

Countries Served **40**

Department Research and Development **30**

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