MAXA HEATING & COOLING

LIVE DIFFERENT

V5

Range of Heat Pumps with R32 Gas

Designed for residential and commercial applications with outstanding performance in environmental sustainability: the best choice for uncompromising comfort.

DESIGNED, MANUFACTURED, GUARANTEED IN ITALY

V5

Thanks to **full inverter** technology, high-efficiency compressors, and the use of the **low-GWP R32 refrigerant**, the V5 range heat pumps deliver high performance, reduced energy consumption, and reliable operation under all climatic conditions.

For more demanding installations, **different soundproofing versions** are available, designed to minimize acoustic impact without compromising performance.

The V5 range makes extensive use of DC brushless motor technology, applied to compressors, circulation pumps, and fans.

In addition, inverter technology is also used for the compressors, ensuring extremely high energy efficiency and a wide power modulation capability.

The range stands out for:

- Wide range available: **28 models**, with outputs from 6 kW to 70 kW
- High energy efficiency up to **class A+++**
- High modularity, with **cascade management up to 7 units**
- Advanced control, designed for integration with home automation systems and building automation systems.
- Construction quality **Made in Italy**, a synonym for reliability.

MADE IN ITALY	R32 REFRIGERANT 675 GWP	60°C OUTLET WATER Supply Temperature	A+++ ENERGY EFFICIENCY CLASS	WI-FI OPTIONAL	CASCADE MANAGEMENT FOR UP TO 7 UNITS	SILENCED VERSION

Winter Heating

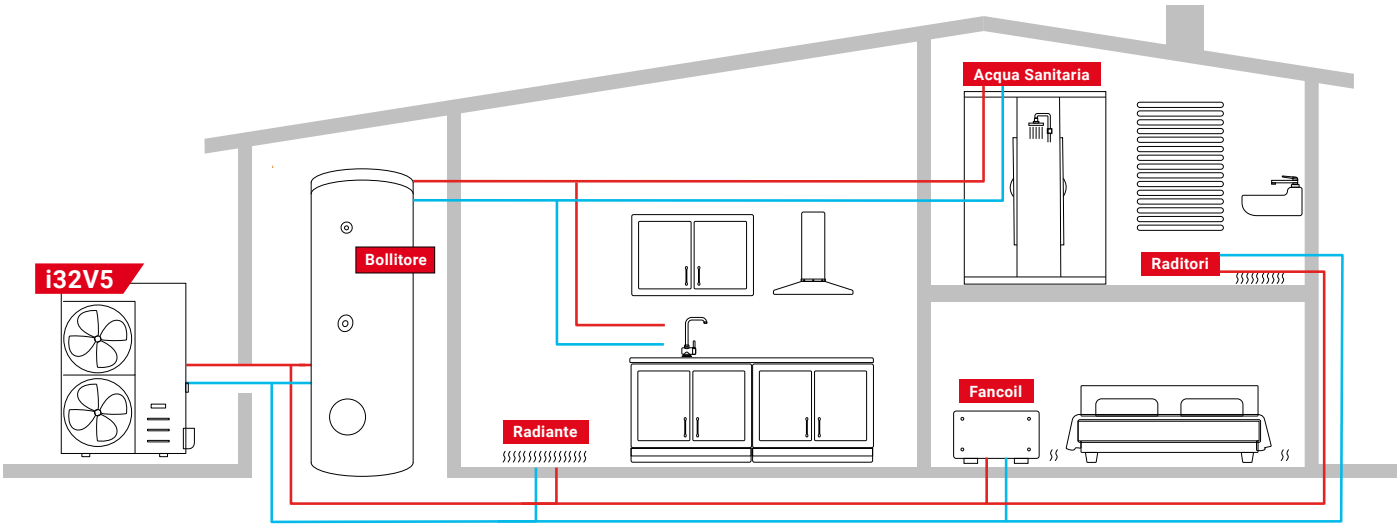
The range ensures comfortable winter heating, combining high energy efficiency with extreme ease of use.

Summer Cooling

The production of chilled water for summer air conditioning is carried out efficiently, ensuring high performance.

Domestic Hot Water

The production of domestic hot water, traditionally entrusted to combustion-based systems, can be provided by the heat pumps of the range.



Versatility Without Limits

The V5 range is the ideal solution for a wide variety of applications, including underfloor heating, fan coil units, or wall-mounted radiant systems.

Quiet and Efficient

The V5 range operates with a reduced noise level, ensuring optimal acoustic comfort while operating efficiently.

Compact and High-Performance

Maximum efficiency in a compact design. They easily adapt to different space configurations, offering a tailor-made solution for every need.

i-32V5		06A	08A	10	10T A	12	12T A	14	14T A	16	16T A	18T A
Cooling capacity (1)	kW	5,19	6,14	7,53	7,53	8,51	8,51	11,5	11,5	13,8	13,8	15,0
Power input (1)	kW	1,64	1,97	2,39	2,39	2,79	2,79	3,53	3,53	4,38	4,38	4,88
E.E.R. (1)	W/W	3,16	3,12	3,15	3,15	3,05	3,05	3,25	3,25	3,15	3,15	3,08
Cooling capacity (2)	kW	6,37	8,03	9,50	9,50	11,6	11,6	14,0	14,0	15,8	15,8	17,1
Power input (2)	kW	1,30	1,79	2,15	2,15	2,79	2,79	2,59	2,59	3,15	3,15	3,59
E.E.R. (2)	W/W	4,90	4,49	4,41	4,41	4,16	4,16	5,40	5,40	5,02	5,02	4,76
SEER (5)	W/W	4,42	4,51	4,34	4,34	4,43	4,43	4,77	4,77	4,94	4,94	5,05
Water flow rate (1)	L/s	0,25	0,29	0,36	0,36	0,41	0,41	0,55	0,55	0,66	0,66	0,71
Pressure drops in the heat exchanger on the user side (1)	kPa	3,2	5,3	6,9	6,9	8,8	8,8	12,9	12,9	17,5	17,5	20,6
Heating capacity (3)	kW	6,13	7,81	10,1	10,1	11,8	11,8	14,1	14,1	16,3	16,3	17,9
Input power (3)	kW	1,25	1,71	2,28	2,28	2,73	2,73	2,91	2,91	3,49	3,49	4,07
C.O.P. (3)	W/W	4,90	4,57	4,43	4,43	4,32	4,32	4,85	4,85	4,67	4,67	4,40
Heating capacity (4)	kW	5,97	7,71	9,76	9,76	11,5	11,5	13,6	13,6	15,8	15,8	17,3
Power input (4)	kW	1,58	2,11	2,80	2,80	3,33	3,33	3,55	3,55	4,24	4,24	4,92
C.O.P. (4)	W/W	3,78	3,65	3,48	3,48	3,44	3,44	3,82	3,82	3,72	3,72	3,52
SCOP (6)	W/W	4,46	4,46	4,53	4,53	4,47	4,47	4,48	4,48	4,58	4,58	4,46
Water flow rate (4)	L/s	0,29	0,37	0,47	0,47	0,55	0,55	0,65	0,65	0,76	0,76	0,83
Pressure drops in the heat exchanger on the user side (4)	kPa	4,4	8,6	9,7	9,7	13,1	13,1	13,0	13,0	17,6	17,6	21,0
Energy efficiency water 35°C / 55°C		A+++/A++										
Type		Twin Rotary DC Inverter										
Number of compressors		1	1	1	1	1	1	1	1	1	1	1
Refrigerant oil (type)		ESTER OIL VG74										
Refrigerant oil (quantity)	L	0,62	0,62	1	1	1	1	1,4	1,4	1,4	1,4	1,4
Refrigerant circuits		1	1	1	1	1	1	1	1	1	1	1
Type		R32	R32	R32	R32	R32	R32	R32	R32	R32	R32	R32
Refrigerant quantity (7)	kg	0,97	0,97	2,5	2,5	2,5	2,5	3,2	3,2	3,5	3,5	3,5
Tons of CO_2 equivalent (7)	Ton	0,7	0,7	1,7	1,7	1,7	1,7	2,2	2,2	2,4	2,4	2,4
Design pressure (high/low) heat pump model	bar	42,8/1,3	42,8/1,3	42,8/1,3	42,8/1,3	42,8/1,3	42,8/1,3	42,8/1,3	42,8/1,3	42,8/1,3	42,8/1,3	42,8/1,3
Design pressure (high/low) chiller model	bar	42,8/3,5	42,8/3,5	42,8/3,5	42,8/3,5	42,8/3,5	42,8/3,5	42,8/3,5	42,8/3,5	42,8/3,5	42,8/3,5	42,8/3,5
Type		Brushless DC Motor										
Number		1	1	1	1	1	1	2	2	2	2	2
Internal heat exchanger type		Plate type										
No. of indoor heat exchangers		1	1	1	1	1	1	1	1	1	1	1
Water content	L	0,6	0,6	1,2	1,2	1,2	1,2	1,7	1,7	1,7	1,7	1,7
Available head (1)	kPa	74,9	71,0	68,9	68,9	63,4	63,4	75,0	75,0	62,3	62,3	55,6
Water content of the hydronic circuit	L	1,14	1,14	1,8	1,8	1,8	1,8	3,0	3,0	3,0	3,0	3,0
Maximum water-side pressure	bar	6	6	6	6	6	6	6	6	6	6	6
Hydraulic connections	inch	1"M	1"M	1"M	1"M	1"M	1"M	1"M	1"M	1"M	1"M	1"M
Minimum water volume (8)	L	40	40	50	50	60	60	60	60	70	70	70
Maximum circulator power	kW	0,095	0,095	0,075	0,075	0,075	0,075	0,14	0,14	0,14	0,14	0,14
Maximum absorbed current of circulator	A	0,66	0,66	0,38	0,38	0,38	0,38	1,10	1,10	1,10	1,10	1,10
Energy Efficiency Index (EEI) circulator		≤ 0,21	≤ 0,21	≤ 0,21	≤ 0,21	≤ 0,21	≤ 0,21	≤ 0,23	≤ 0,23	≤ 0,23	≤ 0,23	≤ 0,23
Sound power level Lw (9) *	dB(A)	64	64	64	64	65	65	68	68	68	68	68
Sound power level Lw (10)	dB(A)	62	62	63	63	63	63	66	66	66	66	66
Power supply		230V/1/50Hz			400V/3P +N+PE/ 50Hz	230V/1/ 50Hz	400V/3P +N+PE/ 50Hz	230V/1/ 50Hz	400V/3P +N+PE/ 50Hz	230V/1/ 50Hz	400V/3P +N+PE/ 50Hz	400V/3P +N+PE/ 50Hz
Maximum absorbed power	kW	3,4	4,1	4,6	4,6	5,1	5,1	6,6	6,6	7,0	7,0	8,3
Maximum absorbed current	A	15,5	18,7	20,2	6,6	22,1	7,3	28,6	9,5	30,4	10,1	12,0
Maximum power input with antifreeze kit	kW	3,5	4,2	4,8	4,8	5,2	5,2	6,7	6,7	7,1	7,1	8,5
Maximum current draw with antifreeze kit	A	15,9	19,1	20,7	7,0	22,7	7,5	29,2	9,7	31,0	10,3	12,2

(1) Cooling: outdoor air temperature 35°C; inlet/outlet water temperature 12/7°C.
(2) Cooling: outdoor air temperature 35°C; inlet/outlet water temperature 23/18°C.
(3) Heating: outdoor air temperature 7°C d.b. 6°C w.b.; water inlet/outlet temp. 30/35°C
(4) Heating: outdoor air temperature 7°C d.b. 6°C w.b.; water inlet/outlet temp. 40/45°C.
(5) Cooling: low temperature, variable output, constant flow rate.
(6) Heating: average climatic conditions; Tbiv = -7°C; low temperature, variable output, constant flow rate.
(7) Indicative data subject to change. For the correct data, always refer to the technical nameplate on the unit.
(8) Calculated for a reduction in system water temperature of 20°C with a defrost cycle lasting 6 minutes.
(9) Sound power: heating mode condition (3) according to EN 12102-1:2013; value determined on the basis of measurements carried out in accordance with standard UNI EN ISO 9614-1.
(10) Sound power: heating mode at partial load according to Annex A of EN 12102:2017; value determined on the basis of measurements carried out in accordance with UNI EN ISO 9614-1, in compliance with the requirements of the Eurovent and Heat Pump Keymark certifications.
The reported performance data are indicative and may be subject to change. Furthermore, the capacities declared at points (1), (2), (3) and (4) shall be understood as referring to the instantaneous power in accordance with UNI EN 14511. The data declared at points (5) and (6) are determined in accordance with UNI EN 14825.
For data relating to the i-32V5 SL version, please refer to the dedicated documentation.
(*): Data declared but not covered by the Eurovent certification program.

i-32V5H Midi		0121	0126	0128	0132
Cooling capacity (1)	kW	17,7	18,7	24,2	26,0
Power input (1)	kW	5,87	6,19	7,98	8,65
E.E.R. (1)	W/W	3,02	3,02	3,03	3,01
Cooling capacity (2)	kW	22,0	25,8	29,0	31,4
Power input (2)	kW	4,44	5,50	6,36	7,08
E.E.R. (2)	W/W	4,95	4,68	4,56	4,44
SEER (5)	W/W	4,44	4,55	4,76	4,81
Cooling capacity (10)	kW	9,21	9,83	13,0	14,0
Power input (10)	kW	5,94	6,14	7,77	8,33
E.E.R. (10)	W/W	1,55	1,60	1,67	1,68
Water flow rate (1)	L/s	0,8	0,9	1,2	1,2
Pressure drops in the heat exchanger on the user side (1)	kPa	32,5	34,5	31,2	34,2
Heating capacity (3)	kW	21,3	26,0	28,0	32,1
Input power (3)	kW	4,92	6,44	6,35	7,84
C.O.P. (3)	W/W	4,33	4,04	4,41	4,09
Heating capacity (4) min/nom/max	kW	21,2	25,8	28,3	32,7
Power input (4)	kW	6,36	7,86	8,21	9,90
C.O.P. (4)	W/W	3,34	3,28	3,45	3,30
SCOP (6)	W/W	4,20	4,05	4,29	4,02
Water flow rate (4)	L/s	1,0	1,2	1,4	1,6
Pressure drops in the heat exchanger on the user side (4)	kPa	37,9	53,1	41,4	50,6
Energy efficiency water 35°C / 55°C		A++/A++			
Compressor type		Twin Rotary DC Inverter			
Number of compressors		1	1	1	1
Refrigerant oil (type)		FW68S or equivalent			
Refrigerant oil (quantity)	L	1,5	1,5	1,5	1,5
Refrigerant circuits		1	1	1	1
Refrigerant type		R32	R32	R32	R32
Refrigerant quantity (7)	kg	4,3	4,3	5,1	5,1
Refrigerant quantity in tons of CO_2 equivalent (7)	Ton	2,90	2,90	3,44	3,44
Rated power (1)	kW	0,26	0,26	0,50	0,62
Maximum absorbed power	kW	0,83	0,83	0,83	0,83
Maximum absorbed current	A	1,45	1,45	1,45	1,45
Nominal air flow rate (1)	m³/h	10769	10847	12209	13202
Internal heat exchanger type		Plate type			
No. of indoor heat exchangers		1	1	1	1
Water content	L	1,7	1,7	2,1	2,1
Available head (1)	kPa	90,0	86,5	81,4	74,7
Water content of the hydronic circuit	L	2,4	2,4	3,4	3,4
Maximum pressure of hydronic kit (safety valve setting)	bar	6	6	6	6
Hydraulic connections	inch	1"M	1"M	1"1/4 M	1"1/4 M
Minimum water volume (8)	L	110	110	110	110
Maximum circulator power	kW	0,31	0,31	0,31	0,31
Maximum absorbed current of circulator	A	1,37	1,37	1,37	1,37
Energy Efficiency Index (EEI) circulator		≤ 0,23	≤ 0,23	≤ 0,23	≤ 0,23
Sound power level Lw (9) standard / SL *	dB(A)	72 / 68	74 / 70	75 / 71	76 / 72
Sound power level Lw (11) standard / SL	dB(A)	65 / 63	65 / 63	67 / 65	67 / 65
Power supply		400V/3P+N+T/50Hz			
Maximum absorbed power	kW	12,3	12,3	14,7	14,7
Maximum absorbed current	A	22,9	22,9	26,8	26,8
Maximum power input with antifreeze kit	kW	12,5	12,5	14,8	14,8
Maximum current draw with antifreeze kit	A	23,3	23,3	27,1	27,1

(1) Cooling: outdoor air temperature 35°C; entering/leaving water temperature 12/7°C.
(2) Cooling: outdoor air temperature 35°C; water inlet/outlet temperature 23/18°C.
(3) Heating: outdoor air temperature 7°C d.b. 6°C w.b.; water inlet/outlet temp. 30/35°C.
(4) Heating: outdoor air temperature 7°C d.b. 6°C w.b.; water inlet/outlet temp. 40/45°C.
(5) Cooling: low temperature, variable output, constant flow rate.
(6) Heating: average climatic conditions; Tbiv = -7°C; low temperature, variable output, constant flow rate.
(7) Indicative data, subject to change. For the correct data, always refer to the technical nameplate on the unit.
(8) Calculated for a 10°C decrease in the system water temperature with a defrost cycle lasting 6 minutes.
Minimum required volume in the primary circuit.
(9) Sound power: heating mode condition (3) according to EN 12102-1:2013; value determined on the basis of measurements carried out in accordance with standard UNI EN ISO 9614-1.
(10) Cooling BT version: outdoor air temperature 35°C; inlet/outlet water temperature -3/-8°C. Fluid treated with 35% ethylene glycol
(11) Sound power: heating mode at partial load in accordance with Annex A of EN 12102:2017; value determined on the basis of measurements carried out in accordance with UNI EN ISO 9614-1, in compliance with the requirements of the Eurovent and Heat Pump Keymark certifications.
N.B. The performance data shown are indicative and may be subject to change. Furthermore, the capacities stated at points (1), (2), (3) and (4) are to be understood as referring to the instantaneous power according to UNI EN 14511. The data stated at points (5) and (6) are determined in accordance with UNI EN 14825.
Also available in cooling-only version.
(*): Data declared but not covered by the Eurovent certification program.

i-HPV5		0140	0250	0260	0270
Cooling capacity (1)	kW	29,7	36,2	48	52,7
Power input (1)	kW	9,62	11,8	15,6	17,8
E.E.R. (1)	W/W	3,09	3,07	3,08	2,96
Cooling capacity (2)	kW	37,2	55,1	65,1	65,6
Power input (2)	kW	9,05	13,3	15,7	16,9
E.E.R. (2)	W/W	4,11	4,14	4,15	3,88
SEER (5)	W/W	4,66	4,63	4,74	4,68
Water flow rate (1)	L/s	1,42	1,73	2,30	2,52
Pressure drops on the hydronic circuit side (1)	kPa	21	26	36	36
Heating capacity (3)	kW	40,1	50,4	61,6	66,8
Input power (3)	kW	10,0	12,5	15,3	16,6
C.O.P. (3)	W/W	4,01	4,03	4,03	4,02
Heating capacity (4)	kW	40,7	49,9	59,7	66,7
Power input (4)	kW	12,7	15,6	18,6	20,7
C.O.P. (4)	W/W	3,20	3,20	3,21	3,22
Heating capacity (12)	kW	38,4	48,3	56,2	61,9
Power input (12)	kW	14,2	18,1	21,8	23,9
C.O.P. (12)	W/W	2,70	2,67	2,58	2,59
SCOP (6)	W/W	4,24	4,28	3,91	3,94
Water flow rate (4)	L/s	1,95	2,39	2,86	3,19
Pressure drops on the hydronic circuit side (4)	kPa	37	49	58	56
Energy efficiency - water 35°C / 55°C	Class	A++ / A++	A++ / A++	A++ / A++	A++ / A++
Compressor type		Scroll DC Inverter			
Number of compressors		1	2	2	2
Refrigerant oil (type)		FW68S	FW68S	FW68S	FW68S
Refrigerant oil (quantity)	mL	1900	3800	3800	3800
Refrigerant circuits		1	1	1	1
Refrigerant type		R32			
Refrigerant quantity (7)	kg	6,5	8,5	11,7	12,0
Refrigerant quantity in tons of CO_2 equivalent (7)	Ton	4,4	5,7	7,9	8,1
Design pressure (high/low) heat pump model	bar	46 / 27,6			
Design pressure (high/low) chiller model	bar	46 / 27,6			
Internal heat exchanger type		Plate / BPHE			
No. of indoor heat exchangers		1	1	1	1
Water content	L	3,05	3,54	4,27	5,12
Water content of the hydronic circuit	L	5	5	6	7
Maximum pressure of hydronic kit (safety valve setting)	bar	6	6	6	6
Grooved-type hydraulic connections	inch	1" 1/2 (DN 40)	1" 1/2 (DN 40)	1" 1/2 (DN 40)	1" 1/2 (DN 40)
Minimum water volume (8)	L	286	389	490	522
Rated pump power (1)	kW	-	-	-	-
Maximum absorbed pump power	kW	-	-	-	-
Maximum absorbed pump current	A	-	-	-	-
Sound power level Lw (9) *	dB(A)	77	83	84	84
Sound power level Lw SL configuration (9) *	dB(A)	76	82	83	83
Sound power level Lw SSL configuration (9) *	dB(A)	75	81	82	82
Sound power level Lw (13)	dB(A)	74	75	80	81
Power supply		400V/3P+N+T/50Hz			
Maximum absorbed power	kW	22	31	37	41
Maximum absorbed current	A	35	49	59	65
Maximum power input with antifreeze kit	kW	23	31	38	41
Maximum current draw with antifreeze kit	A	36	51	61	67

(1) Cooling: outdoor air temperature 35 °C; entering/leaving water temperature 12/7 °C.
(2) Cooling: outdoor air temperature 35 °C; entering/leaving water temperature 23/18 °C.
(3) Heating: outdoor air temperature 7 °C d.b. 6 °C w.b.; water inlet/outlet temp. 30/35 °C.
(4) Heating: outdoor air temperature 7 °C d.b. 6 °C w.b.; water inlet/outlet temp. 40/45 °C.
(5) Cooling: water inlet/outlet temperature 7/12°C.
(6) Heating: average climatic conditions; Tbiv = -7 °C; low temperature, variable output, constant flow rate.
(7) Indicative data subject to change. For the correct data, always refer to the technical nameplate on the unit.
(8) The indicated volume refers to the total required; the designer must ensure this requirement is met by taking into account the amount already present inside the unit, depending on the selected hydronic kit (please check this value in the technical data sheet).
(9) Sound power: heating mode condition (3) according to EN 12102-1:2013; value determined on the basis of measurements carried out in accordance with standard UNI EN ISO 9614-1.
(10) Heating: outdoor air temperature 7 °C d.b., 6 °C w.b.; water inlet/outlet temp. 47/55 °C.
(11) Sound power: heating mode at partial load in accordance with Annex A of EN 12102:2017; value determined on the basis of measurements carried out in accordance with UNI EN ISO 9614-1, in compliance with the requirements of the Eurovent and Heat Pump Keymark certifications.
(**) for PS/PSI pump kit
N.B. The performance data shown are indicative and may be subject to change. Furthermore, the capacities stated at points (1), (2), (3) and (4) are to be understood as referring to the instantaneous power according to UNI EN 14511. The data stated at points (5) and (6) are determined in accordance with UNI EN 14825.
(*): Data declared but not covered by the Eurovent certification program.