R32
REFRIGERANT

i-32V5

Range of R32 Gas Heat Pumps

Designed for residential and commercial applications,
it provides exceptional performance and a low environmental impact,
the best choice for uncompromising comfort

DESIGNED AND MANUFACTURED IN ITALY

MAXA
HEATING & COOLING

Winter Heating

The i-32V5 series ensures comfortable heating in winter by combining high energy efficiency levels with extreme ease of use.

Summer Cooling

The MAXA units of the i-32V5 series provide cold water suitable for AC services in summer in an efficient and environmentally friendly way.

Domestic Hot Water

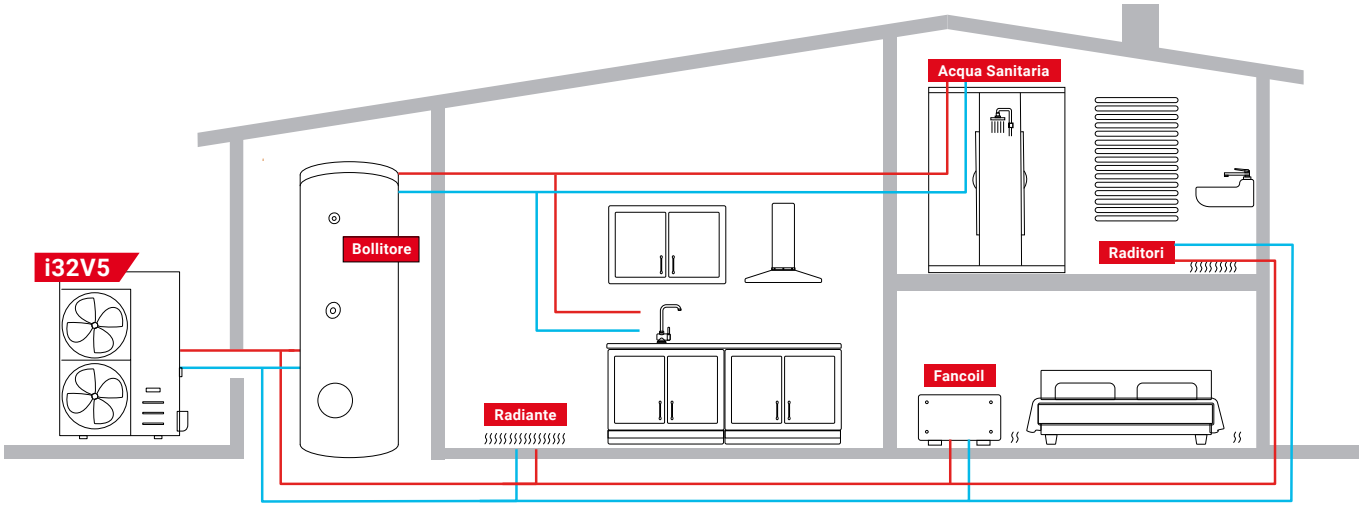
The production of domestic hot water, traditionally provided by combustion systems, can be guaranteed by the heat pumps of the i-32V5 series with full respect for the environment.

Wide Range Available

There are **15 models** available, with power values between 6 kW and 32 kW.
The use of inverter technology, together with brushless DC motors, ensures a *very high overall energy efficiency* both for the reduction of the specific consumption of each motor and for the high modulation capacity

Energy Efficiency

The i-32V5 range makes extensive use of brushless DC motor technology that is applied to compressors, circulation pumps and fans. Moreover, inverter technology is also used for compressors, thereby ensuring very high energy efficiency levels and a high capacity to modulate the power output.



Limitless Versatility

Our i-32V5 system is the ideal solution for a wide range of applications, including those with underfloor heating, fan coils or wall-mounted radiant systems.

Quiet and Efficient

The i-32V5 heat pumps operate with low sound levels, thereby ensuring optimal acoustic comfort while working efficiently

Compact Design 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

Inverter monoblock heat pump

6 kW÷18 kW

11 models: the most compact and the best performing of the market!
The inverter technology employement together with DC brushless motors ensures higher global energetic efficiency of equipment also thanks to high and effective modulating power. The employement extension to all components gives the COP and EER improvement and a substantial increase of partial loads efficiency.

Technical Features
- Customized control system with microcontroller regulation, overheating control logic with electronic expansion valve.
- DC inverter compressors: twin-rotary Dc Inverter.
- Ventilation: DC inverter with axial fan
- Source exchanger: optimized circuit with finned coil, copper pipes and hydrophilic aluminum fins.
- Users exchanger: a brazed plate type in stainless steel AISI 304 with reduced pressure drop on the water side.
- Refrigerant circuit is made with copper pipes and includes: condensing control, electronic expansion valve, reversing valve 4 ways, high pressure switch, separator and liquid receiver, valves for maintenance and control, high and low pressure transducers.
- Integral hydraulic system: pump with high efficiency brushless circulator, flow switch, air valve, pressure relief valve (6 bar), pressure gauge, water valve for system charge/discharge.

Logic and Controls
- All units can works in three different modes: heating, cooling and DHW, with specific programs that enhance the performance in all conditions, with possible management of the temperature curve.
- The V5 series units are able to handle mixing valves, diverter and circulatory secondary side; They are also able to control the solar thermal system, the eventual integration with external heat sources, and integration with external systems Home Building automation or Domotic. All i-32V5 series is controllable remotely (accessory HI-TV415).
- Modbus RS485 protocol as standard

The i-32V5 KA models with integrated defrosting kit "KA" has the same performance and technical data, in order to they have the same Eurovent HP Keymark certification.

Accessories

GI *	Internal hardware extension module	**TR2**	Anti-corrosion treatment

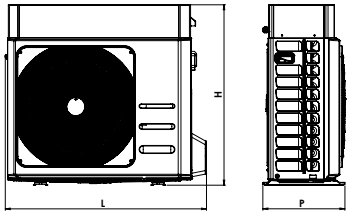
Loose accessories

e-Pro	Wi-Fi wall remote control	**AG**	Vibration damper kit
e-Lite	Multifunctional remote control system	**SAS**	DHW probe / Sanitary water probe
Hi-TV415	Multifunctioning touch screen remote control	**SPS**	Solar panel probe
		VDIS2	Three-wires diverting valve
CONNECT BOX**	Gateway Heat Pump Communication and Maxa Connect	**FD**	Dirt separator filter
		FY	Y-filter
i-CR	Remote wall controller	**ACT**	Outdoor water buffer *(view page.26)*
EXOGEL	Frost protection	**VARCO**	Condensate collection tray
GI3**	External hardware extension module		

* Factory mounted accessory available only for sizes 10-12-14-16
** Accessories that cannot be used simultaneously

Versions

i-32V5	Reversible heat pump	**i-32V5/KA**	Reversible heat pump with integrated defrosting kit



Dimensions		06A	08A	10	10T A	12	12T A	14	14T A	16	16T A	18T A
L	mm	918	918	1.047	1.047	1.047	1.047	1.044	1.044	1.044	1.044	1.044
P	mm	394	394	455	455	455	455	455	455	455	455	455
H	mm	830	830	936	936	936	936	1.409	1.409	1.409	1.409	1.409

i-32V5		06A	08A	10	10T A	12	12T A	14	14T A	16	16T A	18T A
Cooling												
Cooling capacity (1)	kW	5,7* / 5,2	6,7* / 6,1	8,3* / 7,5	8,3* / 7,5	9,4* / 8,5	9,4* / 8,5	12,1* / 11,5	12,1* / 11,5	14,5* / 13,8	14,5* / 13,8	15,8* / 15,04
Power input (1)	kW	1,6	2,0	2,4	2,4	2,8	2,8	3,5	3,5	4,4	4,4	4,9
EER (1)	W/W	3,2	3,1	3,2	3,2	3,1	3,1	3,3	3,3	3,2	3,2	3,1
Cooling capacity (2)	kW	6,7* / 6,4	8,7* / 8,0	10,4* / 9,5	10,4* / 9,5	12,8* / 11,6	12,8* / 11,6	14,7* / 14,0	14,7* / 14,0	16,6* / 15,8	16,6* / 15,8	18,0* / 17,1
Power input (2)	kW	1,3	1,8	2,2	2,2	2,8	2,8	2,6	2,6	3,2	3,2	3,6
EER (2)	W/W	4,9	4,5	4,4	4,4	4,2	4,2	5,4	5,4	5,0	5,0	4,8
SEER (5)	W/W	4,4	4,5	4,3	4,3	4,4	4,4	4,8	4,8	4,9	4,9	5,1
Water flow (1)	L/s	0,3	0,3	0,4	0,4	0,4	0,4	0,6	0,6	0,7	0,7	0,7
Available pressure (1)	kPa	75	71	69	69	63	63	75	75	62	62	56
Heating												
Heating capacity (3)	kW	7,5* / 6,1	9,4* / 7,8	11,6* / 10,1	11,6* / 10,1	13,6* / 11,8	13,6* / 11,8	15,2* / 14,1	15,2* / 14,1	17,6* / 16,3	17,6* /16,3	19,3* / 17,9
Power input (3)	kW	1,3	1,7	2,3	2,3	2,7	2,7	2,9	2,9	3,5	3,5	4,1
COP (3)	W/W	4,9	4,6	4,4	4,4	4,3	4,3	4,9	4,9	4,7	4,7	4,4
Heating capacity (4)	kW	7,0* / 6,0	9.0* / 7,7	11,2* / 9,76	11,2* / 9,8	13,2* / 11,5	13,2* / 11,5	14,6* / 13,6	14,6* / 13,6	17,0* / 15,8	17,0* / 15,8	18,7* / 17,3
Power input (4)	kW	1,6	2,1	2,8	2,8	3,3	3,3	3,6	3,6	4,2	4,2	4,9
COP (4)	W/W	3,8	3,7	3,5	3,5	3,4	3,4	3,8	3,8	3,7	3,7	3,5
SCOP (6)		4,5	4,5	4,5	4,5	4,5	4,5	4,5	4,5	4,5	4,5	4,5
Water flow (3)	L/s	0,3	0,4	0,5	0,5	0,6	0,6	0,7	0,7	0,8	0,8	0,8
Available pressure (3)	kPa	71	65	53	53	41	41	61	61	46	46	33
Energy efficiency (Water 35°C / 55°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										
Compressors	n°	1	1	1	1	1	1	1	1	1	1	1
Refrigerant circuits	n°	1	1	1	1	1	1	1	1	1	1	1
Refrigerant charge (7)	kg	0,97	0,97	2,5	2,5	2,5	2,5	3,2	3,2	3,5	3,5	3,5
Hydraulic circuit												
Water connections	inch	1"M	1"M	1"M	1"M	1"M	1"M	1"M	1"M	1"M	1"M	1"M
Min. water volume (8)	L	40	40	50	50	60	60	60	60	70	70	70
Sound level												
Sound power Lw (9)	dB(A)	62	62	63	63	63	63	66	66	66	66	66
Sound pressure at 1 m distance Lp1 (10)	dB(A)	47	47	48	48	48	48	51	51	51	51	51
Electrical data												
Power supply		230V/1/50Hz			400V 3/50Hz	230V 1/50Hz	400V/3P +N+T/50Hz	230V/1/50Hz	400V/3P +N+T/50Hz	230V 1/50Hz	400V/3P +N+T/50Hz	
Max. power input	kW	3,4	4,1	4,6	4,6	5,1	5,1	6,6	6,6	7,0	7,0	8,3
Max. current input	A	15,5	18,7	20,2	6,6	22,1	7,3	28,6	9,5	30,4	10,1	12,0
Weight												
Gross weight	kg	77	77	110	110	110	110	134	148	140	154	154
Operation weight	kg	66	66	96	96	96	96	121	136	126	141	141

Operating conditions:
(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 DB 6°C WB; inlet/outlet water temperature 30/35°C.
(4) Heating: Outdoor air temperature 7°C DB 6°C WB; inlet/outlet temperature 40/45°C.
(5) Cooling: Water temperature inlet/outlet 12/7°C.
(6) Heating: in average climate condition; Tbiv=-7°C; water temperature inlet/outlet 30/35°C.
(7) The data are only indicative and subject to change. For the correct data, refer to the technical label sticked on the unit.
(8) Calculated for a decrease of the water temperature of the plant with 10°C with a defrosting cycle of 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 level obtained with internal measurements made in accordance with ISO 3744, at 1 m distance..
(*) by activating the maximum Hz function

i-32V5 SL

Silenced Inverter monoblock heat pump

8 kW÷16 kW

5 models: low noise guaranteed with only 53 dB(A)

Extreme Silence

The introduction of rules concerning not only the energy efficiency of heating equipment but also the noise level of the same requires a constant evolution of the products. The new SL series of the i-32V5 range represents the ideal combination of high efficiency, extreme quietness and the usual reliability. Thanks to a complete software and hardware reorganization of the well tested i-32V5 has allowed to reach the best levels of silence and makes this i-32V5SL series perfectly compliant with the most stringent national and international standards.

Technical Features

- Customized control system with microcontroller regulation, overheating control logic with electronic expansion valve.
- DC inverter compressors: twin-rotary Dc Inverter.
- Ventilation: DC inverter with axial fan
- Source exchanger: optimized circuit with finned coil, copper pipes and hydrophilic aluminum fins.
- Users exchanger: a brazed plate type in stainless steel AISI 304 with reduced pressure drop on the water side.
- Refrigerant circuit: is made with copper pipes and includes: condensing control, electronic expansion valve, reversing valve 4 ways, high/low pressure switch, separator and liquid receiver, valves for maintenance and control, double-inlet pressure, high and low pressure transducers.
- Integral hydraulic system: pump with high efficiency brushless circulator, expansion tank, flow switch, air valve, pressure relief valve (6 bar), pressure gauge, water valve for system charge/ discharge.

Logic and Controls

- All units can works in three different modes: heating, cooling and DHW, with specific programs that enhance the performance in all conditions, with possible management of the temperature curve.
- The V5 series units are able to handle mixing valves, diverter and circulatory secondary side; They are also able to control the solar thermal system, the eventual integration with external heat sources, and integration with external systems Home Building automation or Domotic. All i-32V5 series is controllable remotely (accessory HI-TV415).
- Modbus RS485 protocol as standard

Accessories

GI *	Internal hardware extension module	**TR2**	Anti-corrosion treatment

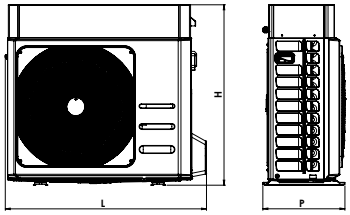
Loose accessories

e-Pro	Wi-Fi wall remote control	**AG**	Vibration damper kit
e-Lite	Multifunctional remote control system	**SAS**	DHW probe / Sanitary water probe
Hi-TV415	Multifunctioning touch screen remote control	**SPS**	Solar panel probe
		VDIS2	Three-wires diverting valve
CONNECT BOX**	Gateway Heat Pump Communication and Maxa Connect	**FD**	Dirt separator filter
		FY	Y-filter
i-CR	Remote wall controller	**ACT**	Outdoor water buffer *(view page.26)*
EXOGEL	Frost protection	**VARCO**	Condensate collection tray
GI3**	Hardware expansion module		

* Factory mounted accessory available only for sizes 10-12-14-16
** Accessories that cannot be used simultaneously

Versions

i-32V5SL	Silenced reversible heat pump	**i-32V5SL/KA**	Silenced reversible heat pump with integrated defrosting kit



Dimensions		08A	12	12T A	16	16T A
L	mm	918	1047	1047	1044	1044
P	mm	394	466	466	448	448
H	mm	830	936	936	1409	1409

i-32V5SL		08A	12	12T A	16	16T A
Cooling						
Cooling capacity (1)	kW	6,7* / 6,1	9,4* / 8,5	9,4* / 8,5	14,5* / 13,8	14,5* / 13,8
Power input (1)	kW	2,0	2,8	2,8	4,4	4,4
EER (1)	W/W	3,1	3,1	3,1	3,2	3,2
Cooling capacity (2)	kW	8,8* / 8,0	12,8* / 11,6	12,8* / 11,6	16,6* / 15,8	16,6* / 15,8
Power input (2)	kW	1,8	2,8	2,8	3,2	3,2
EER (2)	W/W	4,5	4,2	4,2	5,0	5,0
SEER (5)	W/W	4,5	4,4	4,4	4,9	4,9
Water flow (1)	L/s	0,3	0,4	0,4	0,7	0,7
Available pressure (1)	kPa	71	63	63	62	62
Heating						
Heating capacity (3)	kW	9,4* / 4,8	13,6* / 7,4	13,6* / 7,4	17,6* / 8,7	17,6* / 8,7
Power input (3)	kW	1,0	1,5	1,5	1,7	1,7
COP (3)	W/W	5,0	4,8	4,8	5,2	5,2
Heating capacity (4)	kW	9,0* / 4,7	13,2* / 7,14	13,2* / 7,1	17,0* / 8,4	17,0* / 8,4
Power input (4)	kW	1,2	1,9	1,9	2,0	2,0
COP (4)	W/W	3,9	3,9	3,9	4,1	4,1
SCOP (6)		4,6	4,5	4,5	4,5	4,5
Water flow (3)	L/s	0,2	0,3	0,3	0,4	0,4
Available pressure (3)	kPa	77	70	70	87	87
Energy efficiency (Water 35°C / 55°C)		A+++/A++	A+++/A++	A+++/A++	A+++/A++	A+++/A++
Compressor						
Type				Twin Rotary		
Compressors	n°	1	1	1	1	1
Refrigerant circuits	n°	1	1	1	1	1
Refrigerant charge (7)	kg	0,97	2,5	2,5	3,5	3,5
Hydraulic circuit						
Water connections	inch	1"M	1"M	1"M	1"M	1"M
Min. water volume (8)	L	40	60	60	70	70
Sound level						
Sound power Lw (9)	dB(A)	53	53	53	53	53
Sound pressure at 1 m distance Lp1 (10)	dB(A)	39	38	38	38	38
Electrical data						
Power supply		230V/1/50Hz	230V/1/50Hz	400V/3P +N+T/50Hz	230V/1/50Hz	400V/3P +N+T/50Hz
Max. power input	kW	4,1	5,1	5,1	7,0	7,0
Max. current input	A	18,7	22,1	7,3	30,4	10,1
Weight						
Gross weight	kg	77	110	110	140	154
Operation weight	kg	66	96	96	126	141

Operating conditions:
(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 DB 6°C WB; inlet/outlet water temperature 30/35°C.
(4) Heating: Outdoor air temperature 7°C DB 6°C WB; inlet/outlet temperature 40/45°C.
(5) Cooling: Water temperature inlet/outlet 12/7°C.
(6) Heating: in average climate condition; Tbiv=-7°C; water temperature inlet/outlet 30/35°C.
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(8) Calculated for a decrease of the water temperature of the plant with 10°C with a defrosting cycle of 6 minutes.
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(10) Sound pressure level obtained with internal measurements made in accordance with ISO 3744, at 1 m distance.
(*) by activating the maximum Hz function