

Atria

Hybrid system with heat pump and boiler

21 kW ÷ 29 kW

Atria's range is the ideal for domestic/residential installation, especially in situations where it is necessary the substitution on an existing system.

Respects the environment decreasing the carbon dioxide emissions. Is suitable for all types of domestic heating: radiant system, radiators, fancoil. Now a days the incentives provided for energy improvement are several.



The technological integration that guarantees:

- Versatility
- Energy consumption reduction
- Respect for the environment thanks with R32 gas
- Guaranteed savings, thanks to the 110% super bonus & thermal account
- Possibility of choice between the indoor boiler (I) and the outdoor boiler (E)

An hybrid system is made of a heat pump and a condensation boiler, expressly realized and designed from the manufacturer in order to make them work together.

Maxa new proposal allows to have an hybrid system according to current regulations which offers an high performance level without renunciation of an eco-friendly choice, that allows the carbon dioxide emission decrease in favour of environmental sustainability.

Accessories available separately

AG	Vibration dumper	SPS	Solar panel probe for GI
FD	Dirt separator filter	TPV	Starting coaxial stub 60/100 mm
GI*	Internal hardware extension module	TAPS KIT	Taps kit (condensing boiler)
GI3	External hardware extension module	Dima	Template for Atria hybrid module
Hi-TV415	Multifunctioning touch screen remote control	e-Lite	Multifunctional remote control system
KIT EXOGEL	Frost protection	e-Pro	Wi-Fi wall remote control
SAS	DHW probe / Sanitary water probe	ACT	Outdoor water buffer (view page.26)

* Factory mounted accessory excluding sizes i-32V5 6A and i-32V5 8A

Loose accessories specific to ATRIA-I

CDP	Double starting curve 90 ° diam. 60 / 100mm	TPV	Starting coaxial stub diam. 60 / 100mm
SDO	Splitter D.80F-F		

Loose accessories specific to ATRIA-E

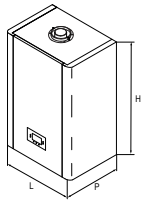
DP	Starting diffuser for ATRIA E diam. 80mm (recommended accessory)	Wirecontroller	Standard for Atria E outdoor
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Versions

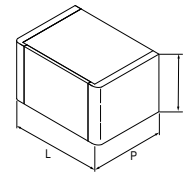
ATRIA-I Indoor condensing boiler

ATRIA-E

Outdoor condensing boiler



		25-I	30-I	35-I	25-E	30-E
L	mm	400	400	400	400	400
P	mm	250	250	250	250	250
H	mm	700	700	700	700	700
	kg	31	31	32	31	31



Hydraulic separator		
L	mm	400
P	mm	250
H	mm	360

Element	Symbol	Unit	25-I	30-I	35-I	25-E	30-E
Load profile			XL	XL	XL	XL	XL
Seasonal energy efficiency of room heating			A	A	A	A	A
Seasonal energy efficiency of water heating			A	A	A	A	A
Nominal heating capacity	P_{nominale}	kW	21,0	25,0	29,0	21,0	25,0
Useful heat input at nominal heating capacity at high temperature (P4)		kW	20,4	24,3	28,3	20,4	24,3
Annual fuel consumption	A_{FC}	GJ	17,3	17,4	17,6	17,3	17,4
Seasonal energy efficiency of room heating (GCV)	η_s	%	91,7	92	93,2	91,7	92
Energy efficiency of water heating (GVC)	η_{wh}	%	85,1	84,86	83,6	85,1	84,86
Sound power level	L_{WA}	dB	50,5	52	52	50,5	52

Indoor Unit

Type	C13 - C33 - C53 - C63 - C83					
Nox class	mg/kWh	6 (24,40)	6 (36,06)	6 (24,71)	6 (24,40)	6 (36,06)
Nominal heating capacity	kW	21	25,0	29	21	25,0
Nominal domestic hot water flow rate	kW	25,5	31,0	34,9	25,5	31,0
Minimum heat input	kW	3,7	4,0	4,0	3,7	4,0
Max. useful power heating	kW	20,4	24,2	28,3	20,4	24,2
Thermal power (80/60°C)	kW	3,5	3,7	3,7	3,5	3,7
Thermal power (50/30°C)	kW	3,9	4,2	4,1	3,9	4,2
Performance at 100% Pn (80/60°C)	%	97	97,1	97,5	97	97,1
Performance at 100% Pn (50/30°C)	%	105,1	105,5	105,5	105,1	105,5
Performance at 30% Pn (50/30°C)	%	107,7	107,8	107,8	107,1	107,8

Outdoor unit

Heating		i-32V5 06A	i-32V5 08A	i-32V5 10	i-32V5 12	i-32V5 14
Heating capacity (3)	kW	6,1	7,8	10,1	11,8	14,1
Power input (3)	kW	1,3	1,7	2,3	2,7	2,9
C.O.P. (3)	W/W	4,9	4,6	4,4	4,3	4,9
Heating capacity (4)	kW	6,0	7,7	9,8	11,5	13,6
Power input (4)	kW	1,6	2,1	2,8	3,3	3,6
C.O.P. (4)	W/W	3,8	3,7	3,5	3,4	3,8
SCOP (6)	W/W	4,5	4,5	4,5	4,5	4,5
Water flow (4)	L/s	0,3	0,4	0,5	0,6	0,7
Ext. pressure (4)	kPa	73,0	65,5	55,2	43,4	63,6
Energy efficiency (Water 35°C-55°C)		A+++/A++	A+++/A++	A+++/A++	A+++/A++	A+++/A++

Cooling

Cooling capacity (1)	kW	5,2	6,1	7,5	8,51	11,5
Power input (1)	kW	1,6	2,0	2,4	2,8	3,5
E.E.R. (1)	W/W	3,2	3,1	3,2	3,1	3,3
Cooling capacity (2)	kW	6,4	8,0	9,5	11,6	14,0
Power input (2)	kW	1,3	1,8	2,2	2,79	2,6
E.E.R. (2)	W/W	4,9	4,5	4,4	4,16	5,4
SEER (5)	W/W	4,4	4,5	4,2	4,25	4,6
Water supply (1)	L/s	0,3	0,3	0,4	0,4	0,6
Ext. pressure (1)	kPa	3,2	5,3	68,9	63,4	75,0

Hydraulic circuit

Hydraulic connections	inch	1"M	1"M	1"M	1"M	1"M
Minimum water volume (8)	L	40	40	50	60	60

Electrical data

Power supply		230V/1/50Hz	230V/1/50Hz	230V/1/50Hz (400V/3/50Hz)(11)		
Maximum absorbed power	kW	3,5	3,9	4,6	5,1	6,6

(1) Cooling: outdoor air temperature 35 °C; water temperature in / out 12/7 °C.

(2) Cooling: outside air temperature 35 °C; water temperature in / out 23/18 °C.

(3) Heating: external air temperature 7 °C d.b. 6 °C b.u.; in / out water temp. 30/35 °C.

(4) Heating: external air temperature 7 °C d.b. 6 °C b.u.; in / out water temp. 40/45 °C.

(5) Cooling: in / out water temperature 12/7 °C.

(6) Heating: average climatic conditions; T_{biv} = -7 °C; in / out water temp. 30/35 °C.

(7) Data indicative and subject to change. For the correct data, always refer to the technical label on the unit.

(8) Calculated for a decrease in the system water temperature of 10 °C with a defrost cycle lasting 6 minutes.

(9) Sound power: heating mode condition (3); value determined on the basis of measurements carried out in accordance with the UNI EN ISO 9614-2 standard, in compliance with the requirements of Eurovent certification.

(10) Sound pressure: value calculated from the sound power level using ISO 3744: 2010 at a distance of 1 m.

(11) Valid only with 10T / 12T outdoor unit

(12) Valid only for single-phase single models

(*) by activating the maximum Hz function