



MONOBLOCK AIR/WATER HEAT PUMP

# ARIANEXT PLUS M LINK R32

Inverter monobloc heat pump with ecological R32 gas. For heating and cooling. Prepared for combination with a domestic hot water tank..



R32



## ENERGY EFFICIENCY CLASS



### > HIGH PERFORMANCE

- Very high efficiency, even in harsh climates
- Maximum silence, up to 53 dB(A)
- DHW tank loading times (optional) minimized
- Power range from 1,7 to 17,7 kW

### > EASY INSTALLATION

- Integrated magnetic filter as standard
- 12 lt expansion tank integrated as standard
- Simplified and unified connection kits for different types of installation
- Compact size internal module

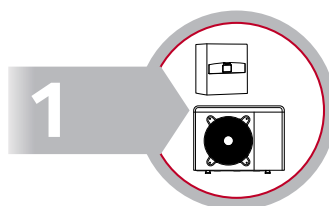
### > SMART CONNECTIVITY

- Built-in Wi-Fi
- Expert HD system interface as standard, which can be integrated on the product
- Remote control via ChaffoLink App
- Remote assistance service available as an option
- Voice control via Amazon Alexa and Google Assistant

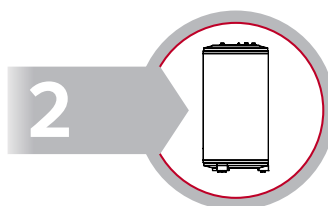
### > SIMPLIFIED MAINTENANCE

- Easy access front door
- Highly insulating coating that prevents condensation from forming

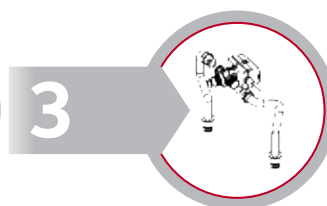
## Selection guide for combinations with domestic hot water tank



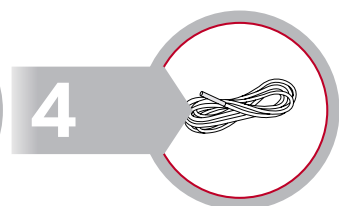
Choose the PLUS  
M heat pump



Choose the domestic  
hot water tank pag. 6



Order the DHW  
kit cod. 3319671



Order the boiler  
probe code. 3318962

Power  
FROM 1.7 TO 17.7  
kW

Silence  
UP TO 53 dB(A)

Indoor unit  
COMPACT

Connectivity  
INTEGRATED

## TECHNICAL DATA

MODEL		35 M LINK R32	50 M LINK R32	80 M LINK R32 80 M-T LINK R32	120 M LINK R32 120 M-T LINK R32	150 M LINK R32 150 M-T LINK R32
<b>Heating performance*</b>						
Nominal heat output (Ta +7°C, Tw 35°C)	kW	3,5	5,0	8,0	12,0	15,0
COP nom (Ta +7°C, Tw 35°C)		5,1	5,0	4,8	4,9	4,7
Useful thermal power at full capacity (Pn**)(Ta +7°C, Tw 35°C)	kW	5,9	6,7	8,7	12,0	15,0
COP to Pn** (Ta +7°C, Tw 35°C)		4,6	4,5	4,6	4,8	4,7
Thermal power (Ta -7°C, Tw 35°C)	kW	3,5	5,0	7,4	9,5	11,0
COP nom (Ta -7°C, Tw 35°C)		3,1	2,9	3,0	3,2	3,1
<b>Cooling performance**</b>						
Thermal power (Ta 35°C, Tw 18°C)	kW	4,1	4,6	7,0	10,7	12,5
EER nom (Ta 35°C, Tw 18°C)		5,3	4,6	4,7	5,1	4,7
Thermal power (Ta 35°C, Tw 7°C)	kW	3,5	5,0	7,0	9,1	11,0
EER (Ta 35°C, Tw 7°C)		3,4	2,9	3,1	3,2	2,9
<b>Performance in domestic hot water</b>						
Optional		Available at pag. 6				
<b>Data ERP</b>						
Energy class in heating35°C /55 °C		A+++/A++	A+++/A++	A+++/A++	A+++/A++	A+++/A+++

### Codes

Single phase	3301994	3301995	3301996	3301998	3302000
Three-phase	-	-	3301997	3301999	3302001

\*Data calculated according to UNI EN 14511

\*\*Data required to apply for access to tax incentives (65% Ecobonus and 110% Superbonus ref. Ministerial Decree 6 August 2020 - Technical requirements decree; Thermal Account ref. Ministerial Decree 02.16.2016)





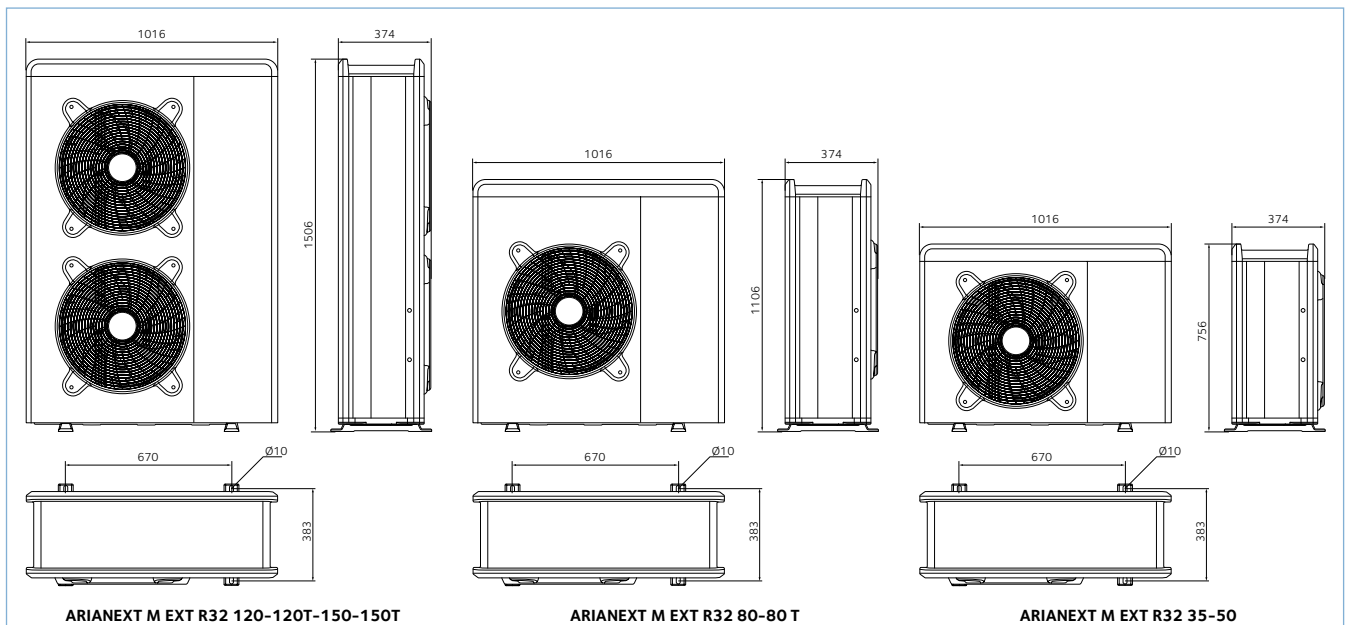
## OUTDOOR UNIT

# ARIANEXT M EXT R32

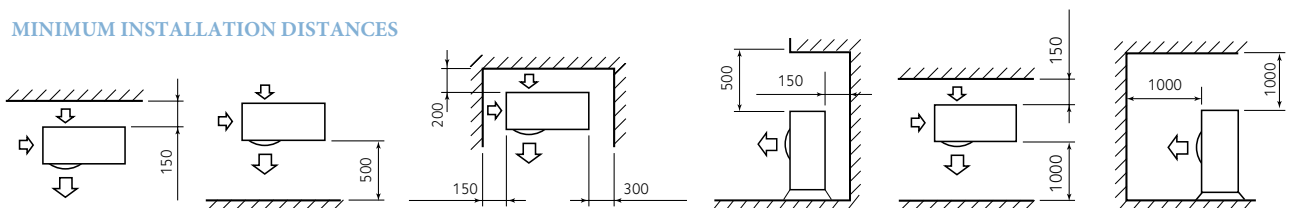
The Arianext M Ext R32 outdoor unit is equipped with a brushless motor for maximum operating silence and a twin rotary compressor which ensures silent and efficient operation even at partial loads and in harsh climates. Inverter control to adapt the power supplied to that required by the system at any time, minimizing on/off cycles and 1" water connections.



## DIMENSIONS



## MINIMUM INSTALLATION DISTANCES



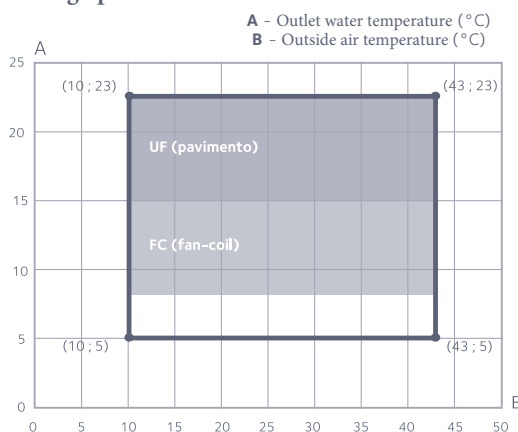
NOTE: Sold exclusively within one of the ARIANEXT M LINK R32 packages

## TECHNICAL FEATURES

ARIANEXT		35 M EXT	50 M EXT	80 M EXT	80 M-T EXT	120 M EXT	120 M-T EXT	150 M EXT	150 M-T EXT
<b>HEATING (heat pump performance)</b>									
T flow min/max	°C	20/60							
T air min/max	°C	-20/35							
T air +7°C, T water 35/30°C		Min / Nom / Max	Min / Nom / Max	Min / Nom / Max	Min / Nom / Max	Min / Nom / Max	Min / Nom / Max	Min / Nom / Max	Min / Nom / Max
Thermal power	kW	1,68/3,50/6,35	1,68/5,00/7,57	2,74/8,00/11,74	2,74/8,00/11,74	4,08/12,00/14,37	4,08/12,00/14,37	4,08/15,00/17,65	4,08/15,00/17,65
Nominal absorbed power	kW	0,69	1,00	1,67	1,67	2,45	2,45	3,19	3,19
COP nom		5,10	5,00	4,80	4,80	4,90	4,90	4,70	4,70
T air -7°C, T water 35/30°C		Min / Nom / Max	Min / Nom / Max	Min / Nom / Max	Min / Nom / Max	Min / Nom / Max	Min / Nom / Max	Min / Nom / Max	Min / Nom / Max
Thermal power	kW	1,04/3,51/4,52	1,04/5,00/5,20	1,79/7,41/8,45	1,79/7,41/8,45	2,99/9,51/11,47	2,99/9,51/11,47	2,99/11,00/13,79	2,99/11,00/13,79
Nominal absorbed power	kW	1,13	1,72	2,47	2,47	2,97	2,97	3,55	3,55
COP nom		3,1	2,90	3,00	3,00	3,20	3,20	3,10	3,10
T air +7°C, T water 45/40°C		Min / Nom / Max	Min / Nom / Max	Min / Nom / Max	Min / Nom / Max	Min / Nom / Max	Min / Nom / Max	Min / Nom / Max	Min / Nom / Max
Thermal power	kW	1,60/3,00/6,04	1,60/4,05/7,19	2,61/6,00/11,50	2,61/6,00/11,50	4,02/8,20/13,65	4,02/8,20/13,65	3,88/9,90/16,77	3,88/9,90/16,77
Nominal absorbed power	kW	0,8	1,11	1,62	1,62	2,00	2,00	2,48	2,48
COP nom		3,74	3,65	3,70	3,70	4,10	4,10	4,00	4,00
<b>COOLING (heat pump performance)</b>									
T flow min/max	°C	5/23							
T air min/max	°C	10/43							
T air 35°C, T water 7/12°C		Min / Nom / Max	Min / Nom / Max	Min / Nom / Max	Min / Nom / Max	Min / Nom / Max	Min / Nom / Max	Min / Nom / Max	Min / Nom / Max
Thermal power	kW	1,65/3,50/3,81	1,67/5,00/5,40	2,65/7,00/8,50	2,65/7,00/8,50	3,70/9,05/10,30	3,70/9,05/10,30	3,70/11,00/11,88	3,70/11,00/11,88
Nominal absorbed power	kW	1,03	1,75	2,26	2,26	2,87	2,87	3,75	3,75
EER nom		3,40	2,85	3,10	3,10	3,15	3,15	2,93	2,93
T air 35°C, T water 18/23°C		Min / Nom / Max	Min / Nom / Max	Min / Nom / Max	Min / Nom / Max	Min / Nom / Max	Min / Nom / Max	Min / Nom / Max	Min / Nom / Max
Thermal power	kW	2,39/4,08/6,59	2,38/4,63/8,56	3,45/7,00/12,65	3,45/7,00/12,65	4,78/10,74/13,30	4,78/10,74/13,30	4,78/12,50/17,20	4,78/12,50/17,20
Nominal absorbed power	kW	0,77	1,02	1,49	1,49	2,11	2,11	2,66	2,66
EER nom		5,29	4,56	4,70	4,70	5,08	5,08	4,70	4,70
<b>DATA ErP (medium climate, low flow temperature)</b>									
External unit sound power	dB(A)	53	55	57	57	58	58	58	58
Annual energy absorbed	kWh/year	2790	3360	4405	4405	5335	5335	6217	6217
Seasonal yield	%	134	136	140	140	143	143	151	151
<b>ARIANEXT OUTDOOR UNIT</b>									
Weight	kg	66	66	91	104	124	131	124	131
Refrigerant type		R32							
Refrigerant charge	g	1000	1000	1400	1400	2100	2100	2100	2100
GWP		675							
CO <sub>2</sub> equivalent	t	0,68	0,68	0,95	0,95	1,42	1,42	1,42	1,42
Inlet - outlet pipe connection	Inches	1" M							
Voltage/phases/frequency	v/ph/Hz	230-1-50	230-1-50	230-1-50	400-3-50	230-1-50	400-3-50	230-1-50	400-3-50
Maximum power absorbed	kW	2,54	3,06	4,53	4,98	5,15	5,00	6,18	6,18
Compressor type		DC TWIN-ROTARY							
Degree of electrical protection		IP24							
Minimum water content in the primary of the system		17,50	25,00	40,00	40,00	60,00	60,00	75,00	75,00
Code		3630234	3630235	3630236	3630237	3630238	3630239	3630240	3630241

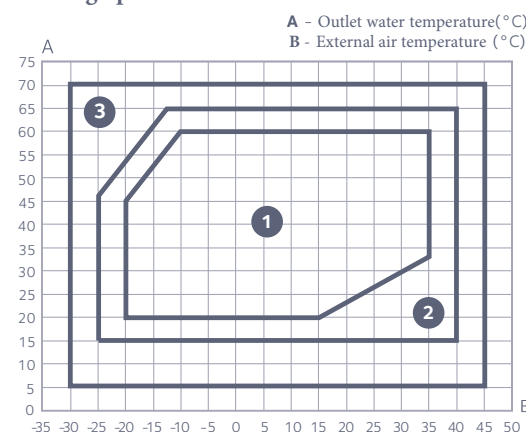
Technical data according to EN 14511

### Cooling operation limits\*



\*Possibility of compensation relating to the flow temperature up to -10°C compared to the gray areas of the graph, with an absolute lower limit of 5°C.

### Heating operation limits



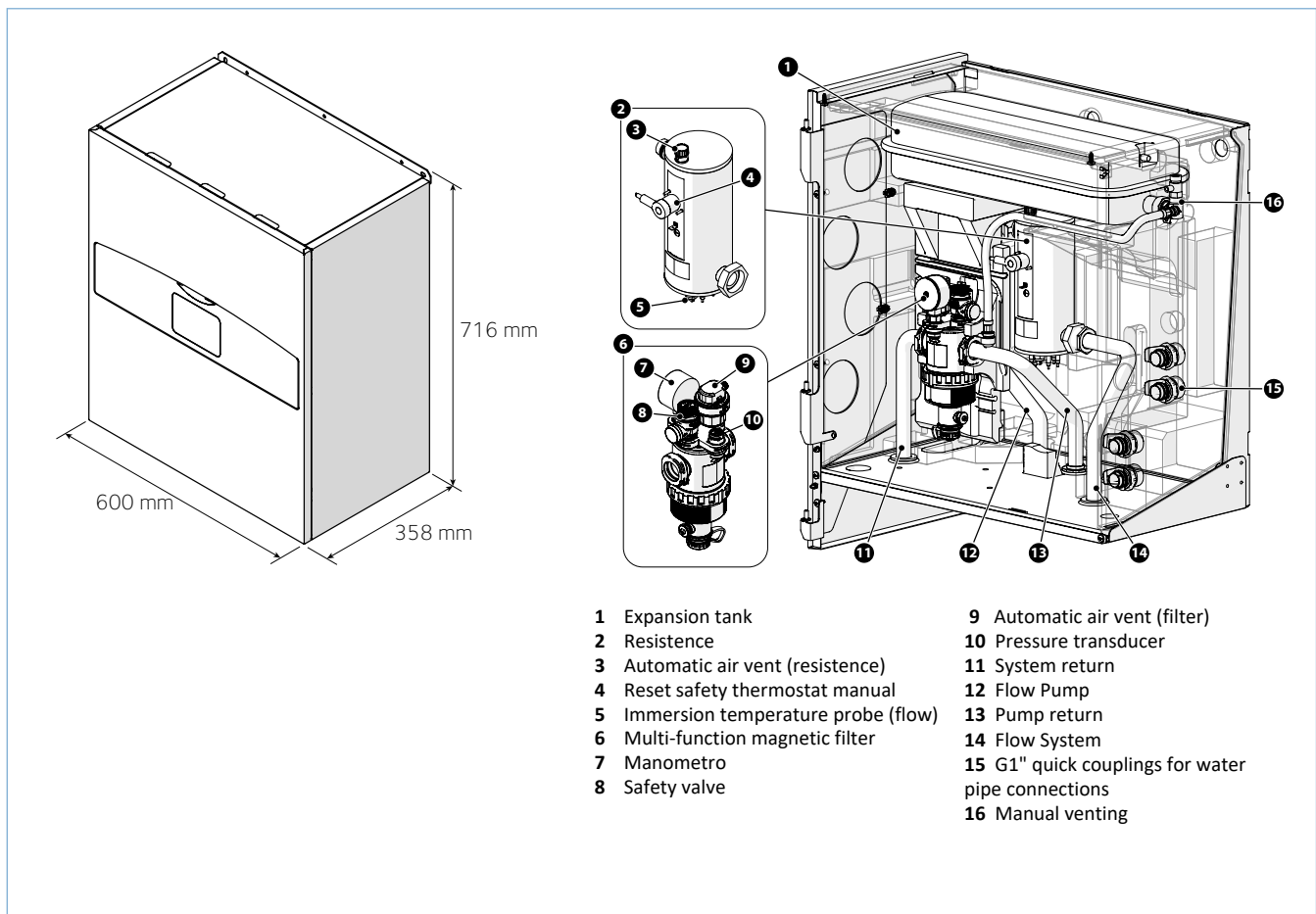
- 1 Unrestricted operation
- 2 Outdoor unit operation with possible reductions in capacity
- 3 Operation with back-up electrical resistance necessary



## INTERNAL UNIT

# ARIANEXT MGP M R32

Wall-mounted internal unit. Highly insulating coating, magnetic filter and 12 lt expansion tank integrated as standard. Back up electrical resistors with modular power (2+2) kW up to the 80 model, (2+2+2) kW for the 120 and 150 models. Expert HD interface as standard which can be integrated on the machine.



## TECHNICAL FEATURES

ARIANEXT MGP		35 M LINK R32	50 M LINK R32	80 M LINK R32 80 M-T LINK R32	120 M LINK R32 120 M-T LINK R32	150 M LINK R32 150 M-T LINK R32
Voltage/frequency (single phase)	v/ph/Hz	230-1-50				
Voltage/frequency (three-phase)	v/ph/Hz	-		400-3-50		
Indoor unit sound power	dB(A)	35				
Net weight	kg	2,5				
Electrical power resistors	kW	2+2			2+2+2	
Maximum power absorbed	kW	4,10			6,10	
Expansion tank capacity	lt	12				
Minimum water content in the primary	lt	17,5	25	40	60	75





# BOILER FOR HEAT PUMPS

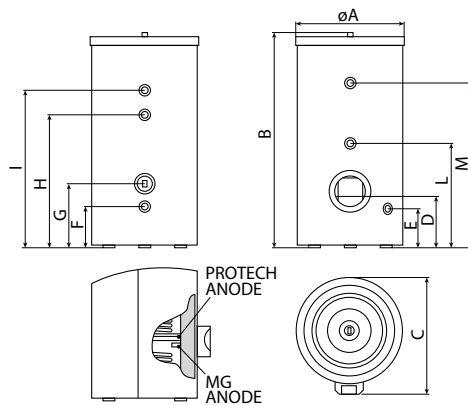
Enamelled steel boiler that can be combined with heat pumps for the production of domestic water. Active anode and magnesium anode as standard. Inspection flange 105 mm. Prepared for DHW recirculation. Electrical resistance and probe available as accessories. Available in single coil (CD1 HHP) or double coil (CD2 HHP) version for solar integration.



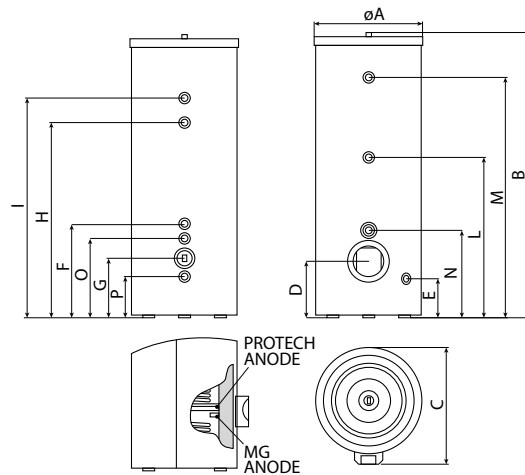
ENERGY EFFICIENCY CLASS



## SINGLE COIL MODELS



## DOUBLE COIL MODELS



SPECIFICATIONS		CD1 HHP			CD2 HHP	
		200 L	300 L	450 L	300 L	450 L
<b>A</b>	Outer diameter	660	660	760	660	760
<b>B</b>	Hot water inlet Ø1" GM	1332	1854	1978	1853	1978
<b>C</b>	Maximum depth	731	731	827	731	827
<b>D</b>	Side flange	374	374	374	374	374
<b>E</b>	Drainage Ø3/4" GF	254	254	254	254	254
<b>F</b>	Serpentine outlet Ø1" GF	254	254	254	704	634
<b>G</b>	Cold water inlet Ø1" GM	389	389	389	389	389
<b>H</b>	Recirculation Ø3/4" GF	789	1239	1234	1334	1325
<b>I</b>	Serpentine entrance Ø1" GF	969	1419	1415	1514	1505
<b>L</b>	Probe Hole Ø10	659	714	834	1174	1104
<b>M</b>	Probe Hole Ø10	1034	1556	1672	1557	1672
<b>N</b>	Resistance (optional) Ø1" 1/2 GF	-	-	-	644	584
<b>O</b>	Solar coil input Ø1" GF	-	-	-	640	534
<b>P</b>	Solar coil output Ø1" GF	-	-	-	254	254

Capacity  
**FROM 200 TO  
450 lt**

Energy rating  
**B**

ANODE  
**ACTIVE AND  
MAGNESIUM**

## BOILER TECHNICAL DATA

SINGLE SERPENTINE		CD1 200 HHP	CD1 300 HHP	CD1 450 HHP
Capacity	lt	190	280	435
Maximum operating pressure	bar	7	7	7
Thermal losses (EN 60379)	kWh/day	1,28	1,64	1,90
Net weight	kg	83	120	160
<b>Serpentine</b>				
Exchange surface	m <sup>2</sup>	2	3,5	4,5
Capacity	lt	13	18	30
Power exchanged(EN 12897)	kW	22,7	33,8	30,8
Pressure drop 15 lt/min	mbar	88	92	90
Energy rating	mbar	B	B	B
Codes		3060704	3060705	3060706
<b>Accessories</b>				
Flange kit + heating element 2 kW CD1 HHP	Code		3078254	
MG passive anode kit	Code		3078256	

DOUBLE SERPENTINE		CD2 300 HHP	CD2 450 HHP
Capacity	lt	279	433
Maximum operating pressure	bar	7	7
Thermal dispersions(EN 60379)	kWh/day	1,62	1,89
Net weight	kg	122	164
<b>Upper coil</b>			
Exchange surface	m <sup>2</sup>	2,5	3,5
Capacity	lt	13	18
Power exchanged(EN 12897)	kW	27,9	27,3
Pressure drop 15 lt/min	mbar	80	83
<b>Lower coil</b>			
Exchange surface	m <sup>2</sup>	1	1
Capacity	lt	5	5
Power exchanged(EN 12897)	kW	12,5	16,5
Pressure drop a 15 lt/min	mbar	50	50
Energy rating	mbar	B	B
Codes		3060707	3060862
<b>Accessories</b>			
Flange kit + heating element 2 kW CD2 HHP	Code		3078255
Passive anode kit MG	Code		3078256

## PERFORMACE WITH HEAT PUMPS PLUS M

PERFORMACE WITH CD1 200 HHP* BOILER						
Withdrawal profile L		35 M	50 M	80 M / M-T	120 M / M-T	150 M / M-T
Set point	°C	53	53	53	53	53
Capacity	lt	190	190	190	190	190
Warm-up time	h:min	2:20	1:52	1:15	1:01	0:51
Power absorbed in Stand-by (Pes)	W	32	32	36	37	37
COP in domestic water		3.3	3.3	3.3	3.2	3.2
Maximum quantity of hot water available (VMAX)	lt	244	244	256	256	256
<b>Withdrawal profileXL</b>						
Set point	°C	55	55	55	55	55
Capacity	lt	190	190	190	190	190
Warm-up time	h:min	2:37	2:05	1:15	1:04	0:53
Power absorbed in Stand-by (Pes)	W	35	35	38	40	40
COP in domestic water		3.33	3.33	3.18	3.33	3.33
Maximum quantity of hot water available (VMAX)	lt	250	250	250	240	240
<b>PERFORMACE WITH CD1 300 HHP* BOILER</b>						
Withdwall profile XL		35 M	50 M	80 M / M-T	120 M / M-T	150 M / M-T
Set point	°C	-	-	51,2	51,5	51,5
Capacity	lt	-	-	300	300	300
Warm - up time	h:min	-	-	1:45	1:25	1:11
Power absorbed in Stand-by (Pes)	W	-	-	40	37	37
COP in domestic water		-	-	3,1	3,0	3,0
Maximum quantity of hot water available (VMAX)	lt	-	-	350	365	365
<b>PERFORMACE WITH CD1 450 HHP* BOILER</b>						
Withdwall profile XL		35 M	50 M	80 M / M-T	120 M / M-T	150 M / M-T
Set point	°C	-	-	-	52,5	52,5
Capacity	lt	-	-	-	450	450
Warm - up time	h:min	-	-	-	1:55	1:36
Power absorbed in Stand-by (Pes)	W	-	-	-	39	39
COP in domestic water		-	-	-	2,8	2,8
Maximum quantity of hot water available (VMAX)	lt	-	-	-	575	575

\*Data according to UNI EN 16147. Tests carried out without the aid of electrical resistors



### > MONOBLOCK HEAT PUMP FOR CASCADE MANAGEMENT

- Up to 5 heat pumps in cascade
- Up to 5 heat pumps in cascade
- Maximum energy optimization thanks to the modularity of the system
- Defrost mode only active on a single unit at a time, never interrupting system operation
- Ecological gas R32
- High efficiency heat pumps
- Integrated magnetic filter as standard (in the indoor unit)
- 12 lt system expansion tank integrated as standard (in the indoor unit)
- Easy installation: no F-gas license required
- Expert HD interface as standard with Cascade Manager
- Connectivity available as an accessory
- 24/7 remote assistance (optional)

RECOMMENDED SOLUTIONS TOTAL			80 x 2	80 x 2	120 x 2	150 x 2	150 x 3	150 x 4	150 x 5
CASCADE CAPACITY (kW)*			16 (1-ph)	16 (3-ph)	24 (3-ph)	30 (3-ph)	45 (3-ph)	60 (3-ph)	75 (3-ph)
TYPE	DESCRIPTION	CODE	AMOUNT						
Outdoor Unit (ODU)	Arianext 80 M EXT R32	3630236	2	-	-	-	-	-	-
Outdoor Unit (ODU)	Arianext 80 M-T EXT R32	3630237	-	2	-	-	-	-	-
Outdoor Unit (ODU)	Arianext 120 M-T EXT R32	3630239	-	-	2	-	-	-	-
Outdoor Unit (ODU)	Arianext 150 M-T EXT R32	3630241	-	-	-	2	3	4	5
Indoor Unit (IDU)	Arianext MGP M Cascade	3301840	2	2	-	-	-	-	-
Indoor Unit (IDU)	Arianext MGP-L M Cascade	3301841	-	-	2	2	3	4	5
Cascade Manager	Cascade Manager	3301821	1	1	1	1	1	1	1

### TECHNICAL DATA

MODEL		80 M / M-T	120 M / M-T	150 M / M-T
<b>PERFORMANCE IN HEATING*</b>				
Nominal heat output (Ta +7°C, Tw 35°C)	kW	8,0	12,0	15,0
COP (Ta +7°C, Tw 35°C)		4,8	4,9	4,7
Useful power at full capacity (Pn)**(Ta +7°C, Tw 35°C)	kW	8,7	12,0	15,0
COP to Pn**(Ta +7°C, Tw 35°C)		4,6	4,9	4,7
Nominal heat output (Ta -7°C, Tw 35°C)	kW	7,4	9,5	11,0
COP (Ta -7°C, Tw 35°C)		3,0	3,2	3,1
<b>COOLING PERFORMANCE*</b>				
Nominal heat output (Ta 35°C, Tw 18°C)	kW	7,0	10,7	12,5
COP (Ta 35°C, Tw 18°C)		4,7	5,1	4,7
Nominal heat output (Ta 35°C, Tw 7°C)	kW	7,0	9,1	11,0
COP (Ta 35°C, Tw 7°C)		3,1	3,2	2,9
<b>ERP DATA</b>				
Energy class in heating35°C/55°C				
<b>CODE</b>				
External unit	Single phase	3630236	3630238	3630240
	Three-phase	3630237	3630239	3630241
Indoor unit		3301840	3301841	3301841

\*Data calculated according to UNI EN 14511

\*\*Data required for application for access to tax incentives (65% ecobonus, 110% Superbonus, Thermal Account)