MONOBLOCK AIR/WATER HEAT PUMP

ARIANEXT LITE M LINK R32

Inverter monobloc heat pump with ecological R32 gas. For heating and cooling.

ENERGY EFFICIENCY CLASS

A+++ RISCALDAMENTO

> HIGH PERFORMANCE

- Very high efficiency, even in harsh climates
- Maximum silence, up to 53 dB(A)
- Power range from 1.7 to 17.7 kW
- Integrative electric resistance available as an accessory

> EASY INSTALLATION

- Plug & Play solution
- Light Box electrical box that can be installed externally (IPX5 protection level)
- Puffer CKZ HH 30 or 50 lt (optional) can be installed under the outdoor unit

> SMART CONNECTIVITY

- Built-in Wi-Fi
- Expert HD system interface as standard
- Remote control via ChaffoLink App
- Remote assistance service available as an option
- Voice control via Amazon Alexa and Google Assistant

Length	Depth	Technology
37,6 cm	**6,1 cm**	**INVERTER**

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*
Heating performance*						
Nominal heat output(Ta +7°C, Tw 35°C)	kW	3,5	5	8	12	15
COP nom (Ta +7°C, Tw 35°C)		5,1	5	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	15
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
Cooling performance**						
Thermal power (Ta 35°C, Tw 18°C)	kW	4,1	4,6	7	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	7	9,1	11
EER (Ta 35°C, Tw 7°C)		3,4	2,9	3,1	3,2	2,9
DataERP						
Energy class in heating 35°C /55 °C		A+++/A++	A+++/A++	A+++/A++	A+++/A++	A+++/A+++

Codes					
Single phase	3302018	3302019	3302020	3302022	3302024
Three-phase	-	-	*3302021*	*3302023*	*3302025*

*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)

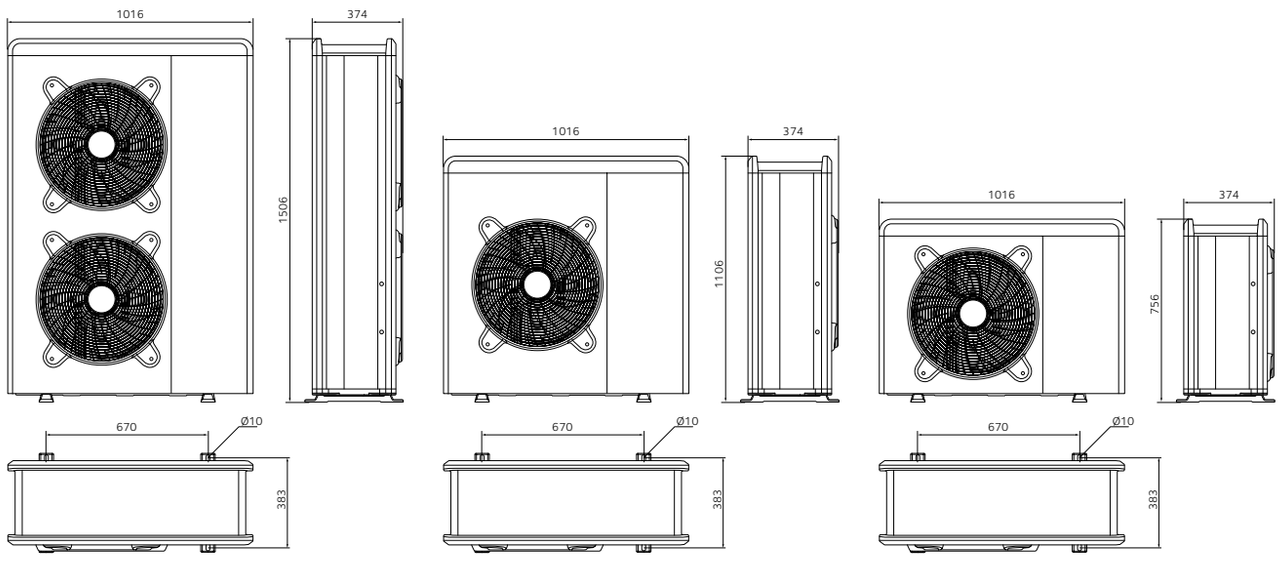
OUTDOOR UNIT

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.

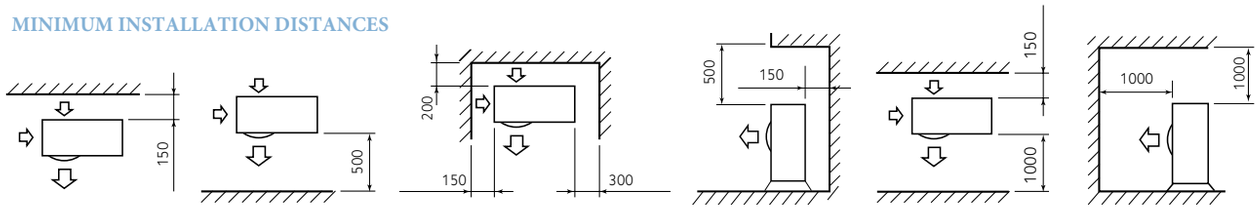
R32

DIMENSIONS



ARIANEXT M EXT R32 120-120T-150-150T | **ARIANEXT M EXT R32 80-80 T** | **ARIANEXT M EXT R32 35-50**

MINIMUM INSTALLATION DISTANCES



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

Length	Depth	Technology
101,6 cm	**37,4 cm**	**INVERTER**

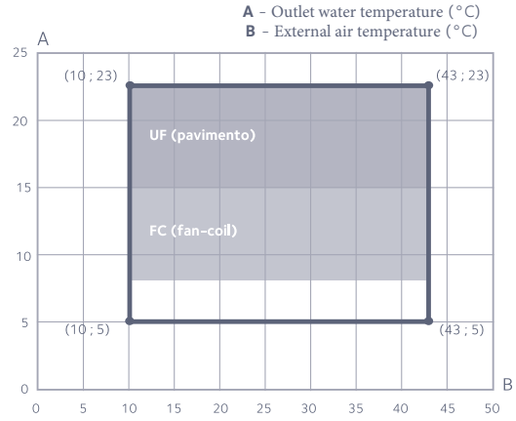
TECHNICAL FEATURES

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
HEATING (heat pump performance)									
T flow min/max	°C	-20/35							
T air min/max	°C	20/60							
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
COOLING (heat pump performance)									
T flow min/max	°C	10/43							
T air min/max	°C	5/23							
T air 35°C, T water7/12°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
DATA ErP (medium climate, low flow temperature)									
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
ARIANEXT OUTDOOR UNIT									
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_2 equivalents	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 standard N 14511

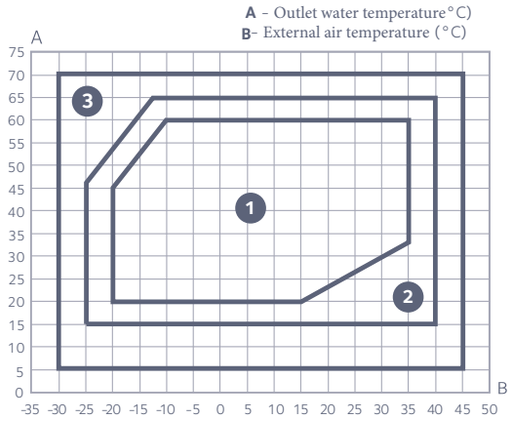
**In relation to the actual operating conditions of the product, dependent on the delivery temperature and the external temperature, the maximum electrical absorptions they could be higher, up to 20%, than those declared.*

Operation limits in cooling*



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

Heating operation limits

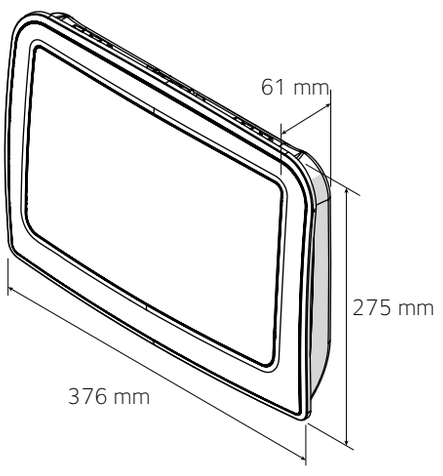


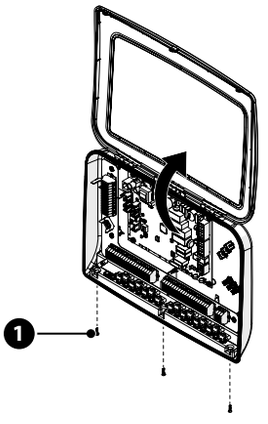
1 Unrestricted operation
2 Outdoor unit operation with possible reductions in capacity
3 Operation with back-up electrical resistance necessary

INTERNAL UNIT

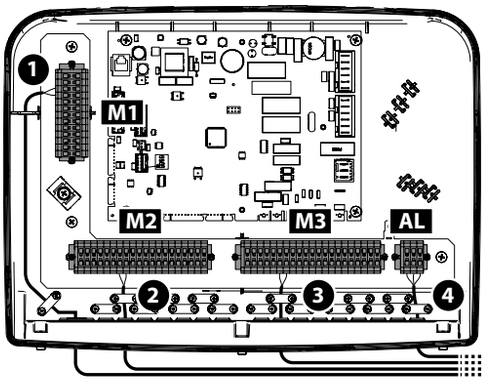
ARIANEXT MLB M R32

Light Box electrical box containing the electrical connection terminal block and the electronic management board. Can also be installed externally thanks to the IPX5 electrical protection rating.





M1 Vertical signal terminal block
M2 Left signal terminal block
M3 230V terminal block
AL Power terminal block
1 Signal connections(vertical terminal block)
2 Signal connections(left terminal block)
3 Connections230V
4 Power connections



TECHNICAL FEATURES

ARIANEXT MLB M		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)	-				
Empty weight	kg	2,5				
Electrical power resistors	kW	-				
Maximum power absorbed	kW	0,15				
Minimum water content in the primary	lt	17,5	25	40	60	75

ARIANEXT LITE M R32 - CASCADE

> MONOBLOCK HEAT PUMP FOR CASCADE MANAGEMENT

- Up to 5 heat pumps in cascade
- Intelligent management of the “Smart Cascade” system, patented by Chaffoteaux
- Maximum energy optimization thanks to the modularity of the system
- Defrost mode only active on a single unit at a time, never interrupting the operation of the system

- Ecological gas R32
- High efficiency heat pumps
- Light Box electrical box that can also be installed outdoors
- Plug & Play solution
- Easy installation: no F-gas license is required

- Back up electrical resistance available as an accessory
- 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
Light Box (LB)	Arianext MLB Cascade	3301815	2	2	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
PERFORMANCE IN HEATING*				
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 a 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
COOLING PERFORMANCE*				
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
ERP DATA				
Energy class in heating35°C/55°C		A+++ / A++	A+++ / A++	A+++ / A+++
CODES				
External unit	Single phase	3630236	3630238	3630240
	Three-phase	3630237	3630239	3630241
External unit		3301815	3301815	3301815

**Data calculated according to UNI EN 14511*
***Data required for application for access to tax incentives (65% ecobonus, 110% Superbonus, Thermal Account)*