

2.0

All-in-one air conditioning unit with state-of-the-art monobloc technology and no outdoor condenser.

Submittal datasheet

Product code: C3MS15IC3UC

Model: ..2.0 15HP -DC Inverter -240V/60Hz-1Ph + ELEC 2kW

BEAUTIFUL, SLIM, AND SILENT

Too often air conditioning means installing bulky and unsightly condensing units outside buildings. The INNOVA 2.0, however, is an air conditioner without an external unit that is designed to blend seamlessly into existing domestic environments. It delivers excellent energy performance with minimal aesthetic impact.

Every detail of this unit has been fine tuned to create a slim and compact heat pump that delivers on both form and function. In the summer, the 2.0 gives you refreshing cooling and in the winter, cozy heating. Its efficient design also makes it simple to install, requiring little more than two small wall openings.

Unit is supplied with heating element set at factory at 1 kW (can be set at 2 kW during installation).

General Features

- BLDC Inverter compressor
- ECM fans (centrifugal)
- R32 refrigerant
- Auto restart
- Intelligent defrost
- No outdoor unit
- Condensate disbursement systems
- Onboard touch controller
- Field-configured 1800 W electric heat supplement. Staged as 900 W + 900 W
- Electronically controlled air louver
- 3 selectable fan speeds + Auto
- Easy to install Wi-Fi with Android/iOS App
- Industry leading STC rating
- Modes: Cool, Heat, Dehumidify, Auto
- Dry contact (CP)
- Washable filter
- Cabinet finish: RAL 9003 signal white -steel
- Available: underbody cover plate

Performance Specifications

Cooling Performance (35°C: 27°C)

Max. cooling capacity (dual power)		12 000 ⁽¹⁾
Performance - cooling - Max. 27°C	BTU/h	10 200
Minimum cooling capacity		3100
Performance - Cooling - Efficiency	SEER2 - EER2	15.75 - 11.23
Refrigerant		R32
Refrigerant charge	kg	0,50
Airflow - Indoor - Evaporator	CFM	160 to 290
Airflow - Outdoor - Condenser		200 to 350

⁽¹⁾ DUAL POWER - DC Inverter technology provides a capacity boost up to 12 000 btu/h

⁽²⁾ Electric heater additional power ⁽³⁾ Total heat capacity w/Elec

900 W	3075 Btu	15 075 Btu
1800 W	6150 Btu	18 140 Btu

1800 W electric heat

The electric heat works in conjunction with the heat pump when the heat pump has insufficient power.

Heating Performance (7°C: 20°C)

Max. heat output (dual power)		12 000 ^{(1) (2) (3)}
Performance - Heating - Max.	BTU/h	10 100
Minimum heat output		4800
Performance - Heating - Efficiency	HSPF2	8,55
Nominal sound pressure	dB(A)	41
Minimum sound pressure		29
Max. indoor air flow rate	CFM	241
Max. external air flow rate		288



Electric Specifications (Power Supply = Hardwired Only)

Volt range			208 to 253
Tension power supply		(V / Hz / ph)	230 / 60 / single phase
Cooling	Running	A	3,4
	Max		4,4
Heating (heat pump only)	Running		10,7
	Max		14,9
Input power	Standby	W	10,8
	Off mode		1,7
Max power input	Cooling		1800
	Heating		3600
Circuit Breaker	MCA	A	20
	MCOP		30
	Recommended size		20

Note: Electric ratings are calculated based on a 230 V power supply.

Optional Programming functions

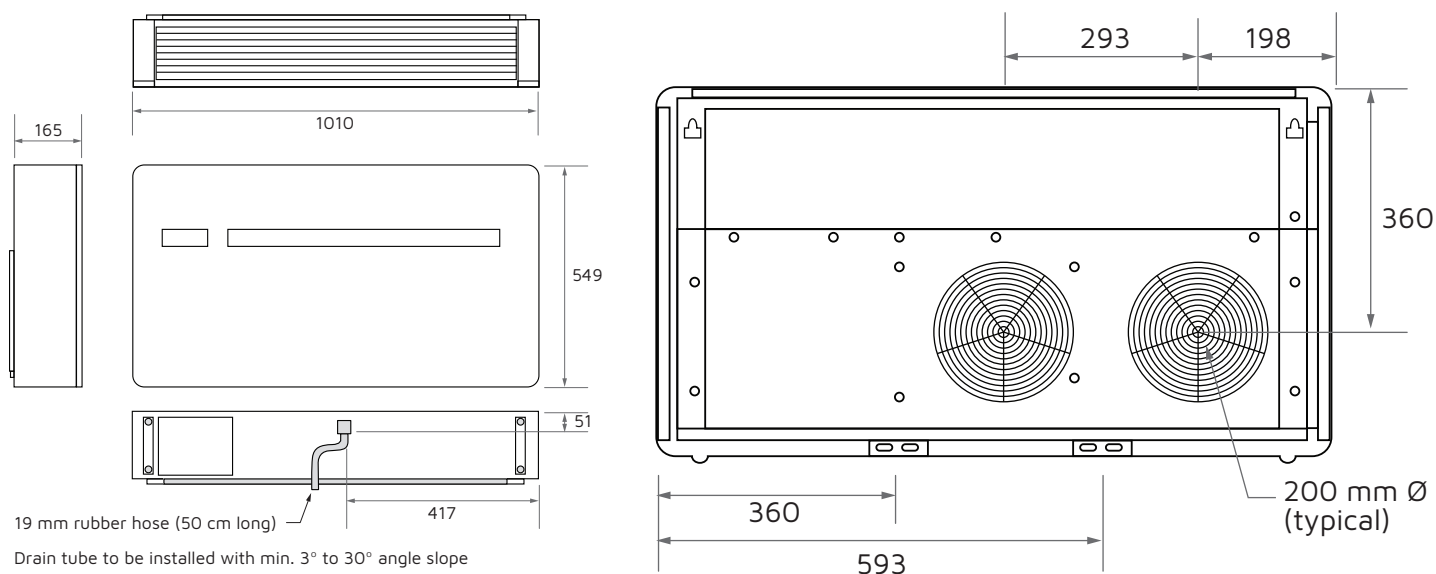
- 1) The heater resistance can easily be deactivated if not needed. The normal behavior in heat mode is that the heater resistance and the heat pump are running in parallel under specific conditions.
- 2) In heat mode, it is possible to run the heat pump in parallel with only the 1 kW (1000 W) or the 2 kW (2000 W) heater resistance.
- 3) In heat mode, if the detected outdoor temperature remains under -10°C for 15 minutes the heat pump will turn OFF. The heater resistance will turn ON (or it will be kept on if already running). Then, the unit will run only with the indoor fan and the resistance active.

All units come with

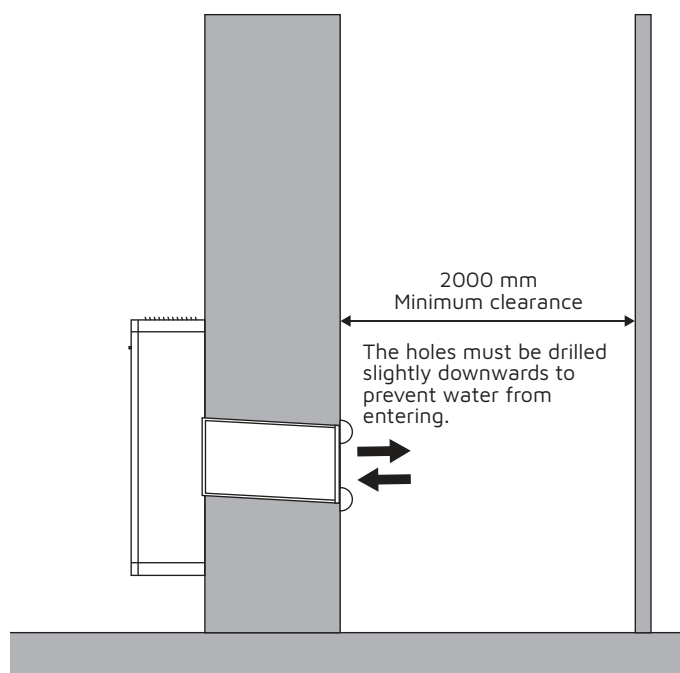
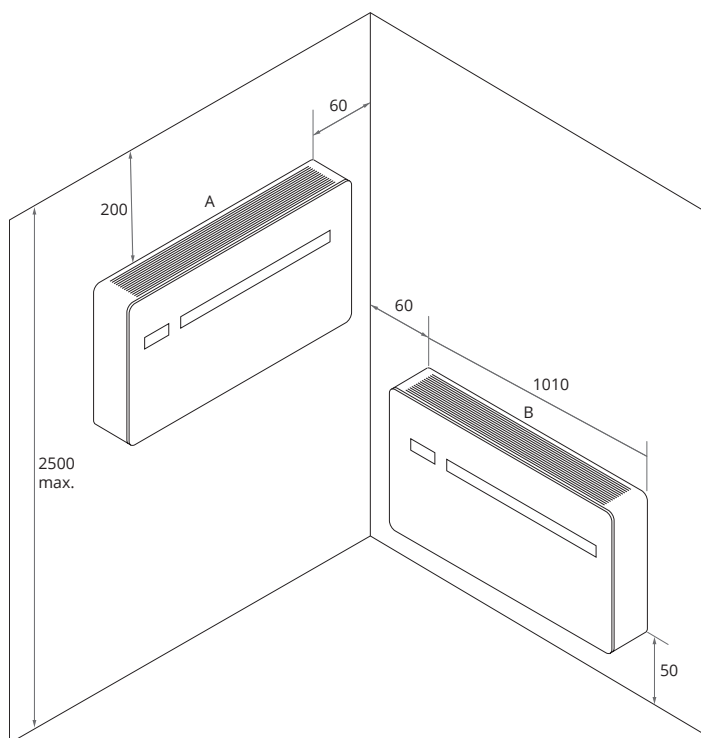
Heat exchangers, DC Inverter compressor, condensate release system with summer evaporation, EC fan on outdoor side and DC brushless fan, Wi-Fi connectivity, R32 gas – no power cord is provided.



Dimensions – Physical Data

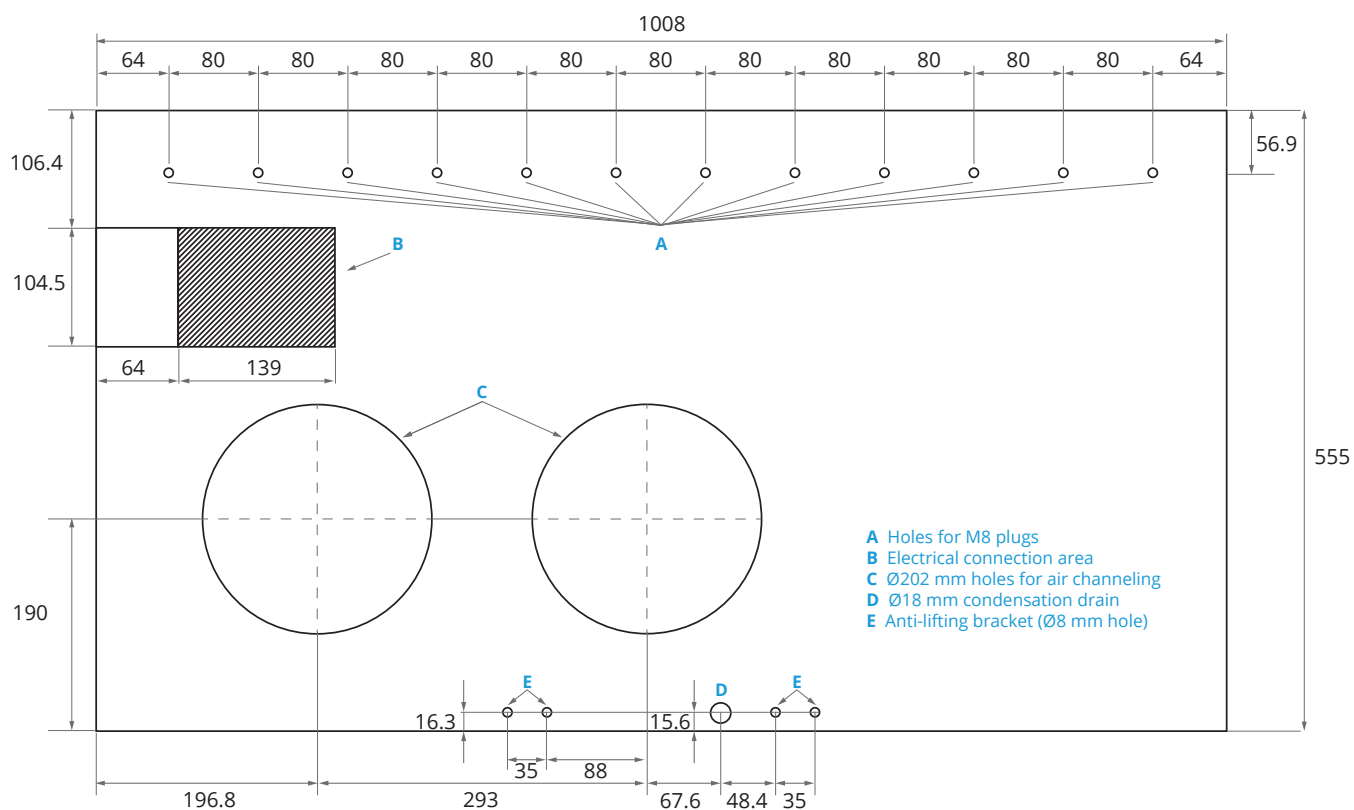


Installation Clearance



Mounting Template

- For the unit to work, two holes with a 202 mm diameter must be placed as indicated on the template.
- The maximum depth of the holes is 1 m and there must be no bends.
- Use the supplied grids or grids with the same characteristics.



Heating performance (based on variable temperature)

Indoor Temp. (°C)	Maximum Fan Speed			Minimum Fan Speed		
	20			20		
Outdoor Temp. (°C)	PH	PA	COP	PH	PA	COP
-20	1,21	0,66	1,83	0,64	0,33	1,95
-10	1,25	0,66	1,89	0,67	0,33	2,02
-7	1,52	0,68	2,24	0,81	0,34	2,38
-2	1,85	0,69	2,68	0,98	0,35	2,85
2	2,09	0,70	2,99	1,11	0,35	3,18
7	2,31	0,71	3,25	1,23	0,36	3,46
12	2,62	0,71	3,68	1,39	0,36	3,91
15	2,78	0,71	3,90	1,48	0,36	4,15
20	3,10	0,72	4,31	1,65	0,36	4,58



Cooling performance (based on variable temperature)

Indoor Temp. (°C)	Maximum Fan Speed						Minimum Fan Speed					
	25			27			25			27		
Outdoor Temp. (°C)	PC	PA	COP	PC	PA	COP	PC	PA	COP	PC	PA	COP
40	2,16	0,78	2,77	2,22	0,78	2,85	1,12	0,39	2,87	1,14	0,40	2,85
38	2,22	0,75	2,96	2,28	0,75	3,04	1,17	0,37	3,16	1,19	0,38	3,13
35	2,27	0,72	3,15	2,33	0,72	3,24	1,22	0,35	3,49	1,24	0,36	3,44
27	2,30	0,70	3,29	2,36	0,70	3,37	1,25	0,33	3,79	1,27	0,34	3,74
25	2,33	0,68	3,43	2,39	0,68	3,51	1,28	0,31	4,13	1,30	0,32	4,06
23	2,36	0,66	3,58	2,42	0,66	3,67	1,31	0,29	4,52	1,33	0,30	4,43
20	2,39	0,64	3,73	2,45	0,64	3,83	1,34	0,27	4,96	1,36	0,28	4,86
18	2,42	0,62	3,90	2,48	0,62	4,00	1,37	0,25	5,48	1,39	0,26	5,35

PH = Heating capacity (kW)

PC = Cooling capacity (kW)

PA = Input power (kW)

* Outdoor relative humidity = 85 %

Installation notes

- The unit must be perfectly level on the vertical and horizontal axis.
- The unit must be tight to the wall, with zero leakage between the external ducts and the unit. Use insulating material if wall is not level.

Rear

- The rear of the unit must be tight to the wall so there are zero gaps between the wall and the unit,
- Gaps can allow outside air inside and create short cycling and humidity. If there are any gaps, they must be sealed with insulation.

Exterior

- On the exterior of the building, there should be no obstacles blocking the airflow from the louver. There must be a least 100 cm of free and clear space in front of the louvers.

Return air

- The return air is on the top through the integrated return air grille.



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