

2.0

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

Submittal datasheet

Product code: C3MS12IC3UC

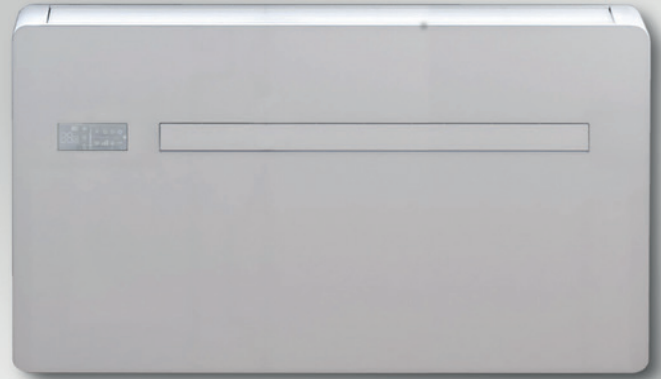
Model: 2.0 12HP - DC Inverter - 240V/60Hz - 1Ph + ELEC 1.8kW

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 900 W (can be set at 1.8 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)	BTU/h	10,600
Performance - cooling - Max. 27°C		8,000
Minimum cooling capacity		3,140
Performance - Cooling - Efficiency	SEER (EN14825)	4.6
Refrigerant	R32	
Refrigerant charge	kg	0.50
Airflow - Indoor - Evaporator	CFM	160 to 235
Airflow - Outdoor - Condenser		160 to 282

Heating Performance (7°C: 20°C)

Max. heat output	BTU/h	16,540
Compressor - Heating - Max.		10,400
Minimum heat output		2,695
Performance - Heating - Efficiency	COP	3.28
Nominal sound pressure	dB(A)	41
Minimum sound pressure		27
Max. indoor air flow rate	CFM	235
Max. external air flow rate		282



Electric heater additional power Total heat capacity w/Elec

900 W	3,070 BTU	13,470 BTU
1800 W	6,140 BTU	16,540 BTU

1800 W electric heat

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

Electric Specifications (Power Supply = Hardwired Only)

Volt range		V	208 to 253
Tension power supply		(V / Hz / ph)	230 / 60 / single phase
Cooling	Total (Compressor)	A	3.13
Heating	Total (Compressor)		3.1
	Total (900W)		7.0
	Total (1,800W)		11.0
Circuit breaker	MCA		15.0
	MCOP		25.0
	Recommended size		20.0

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

Optional Programming functions

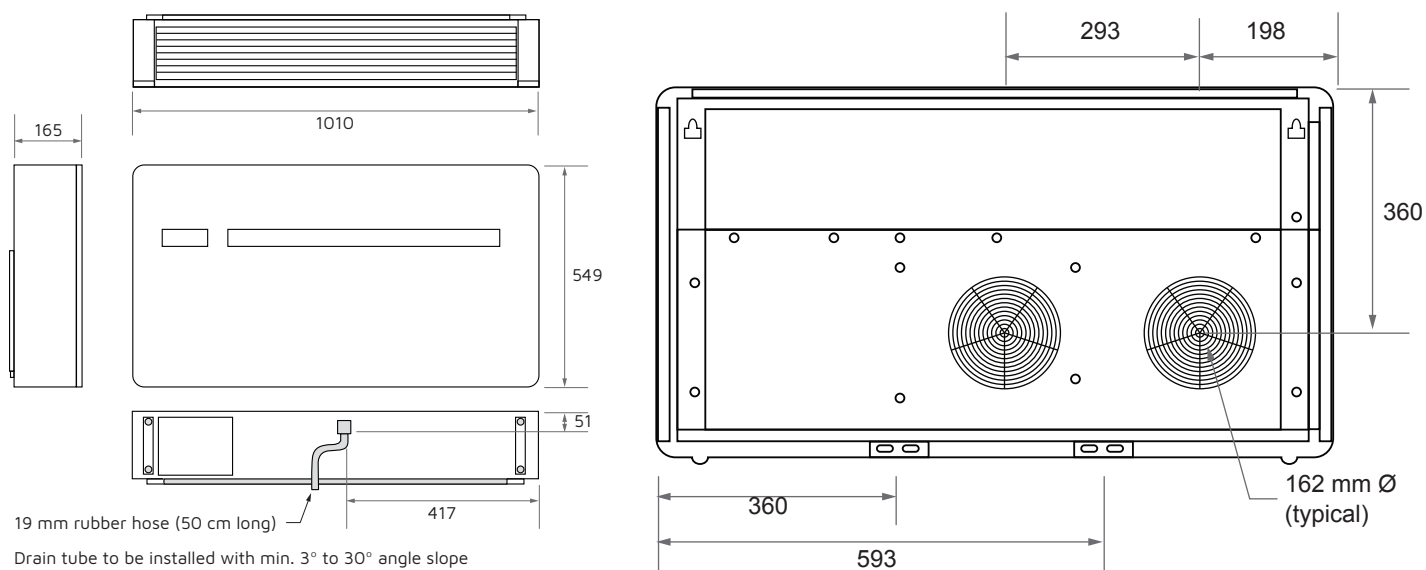
- 1) The heater resistance can easily be deactivated if not needed. The normal behavior in heat mode is that the heater resistance and the heat pump are running in parallel under specific conditions.
- 2) In heat mode, it is possible to run the heat pump in parallel with only the 900 W or the 1,800 W 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

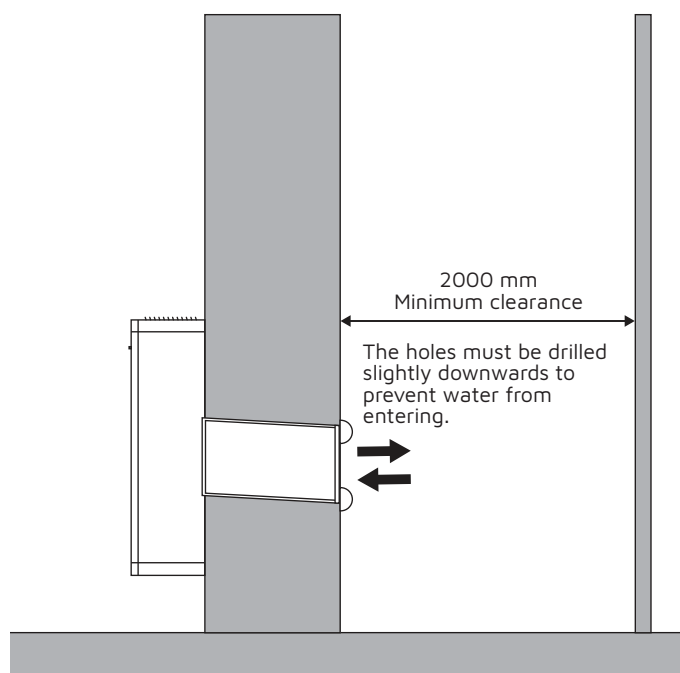
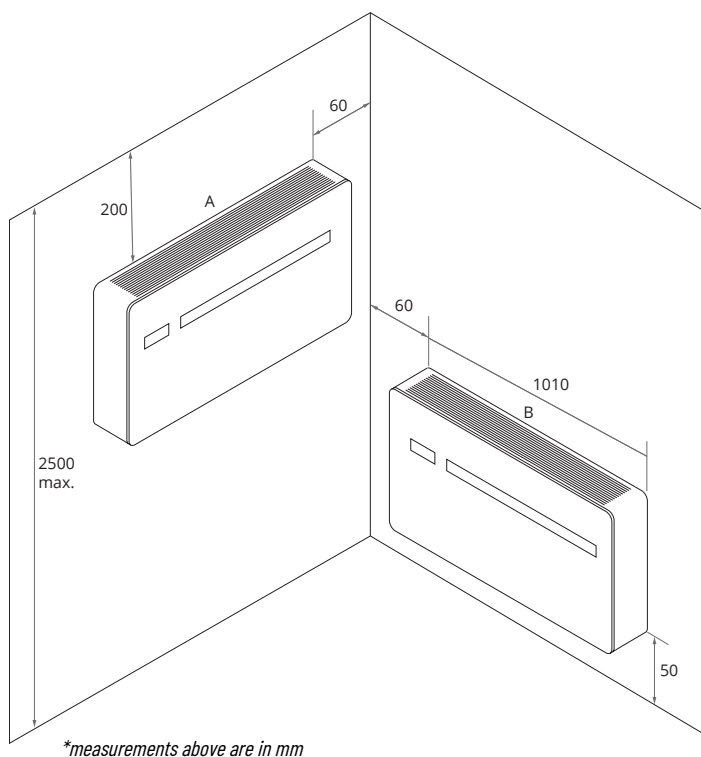
Heat exchangers, DC Inverter compressor, condensate release system with summer evaporation, EC fan on outdoor side and DC brushless fan, Wi-Fi connectivity, R32 gas – no power cord is provided.



Dimensions – Physical Data

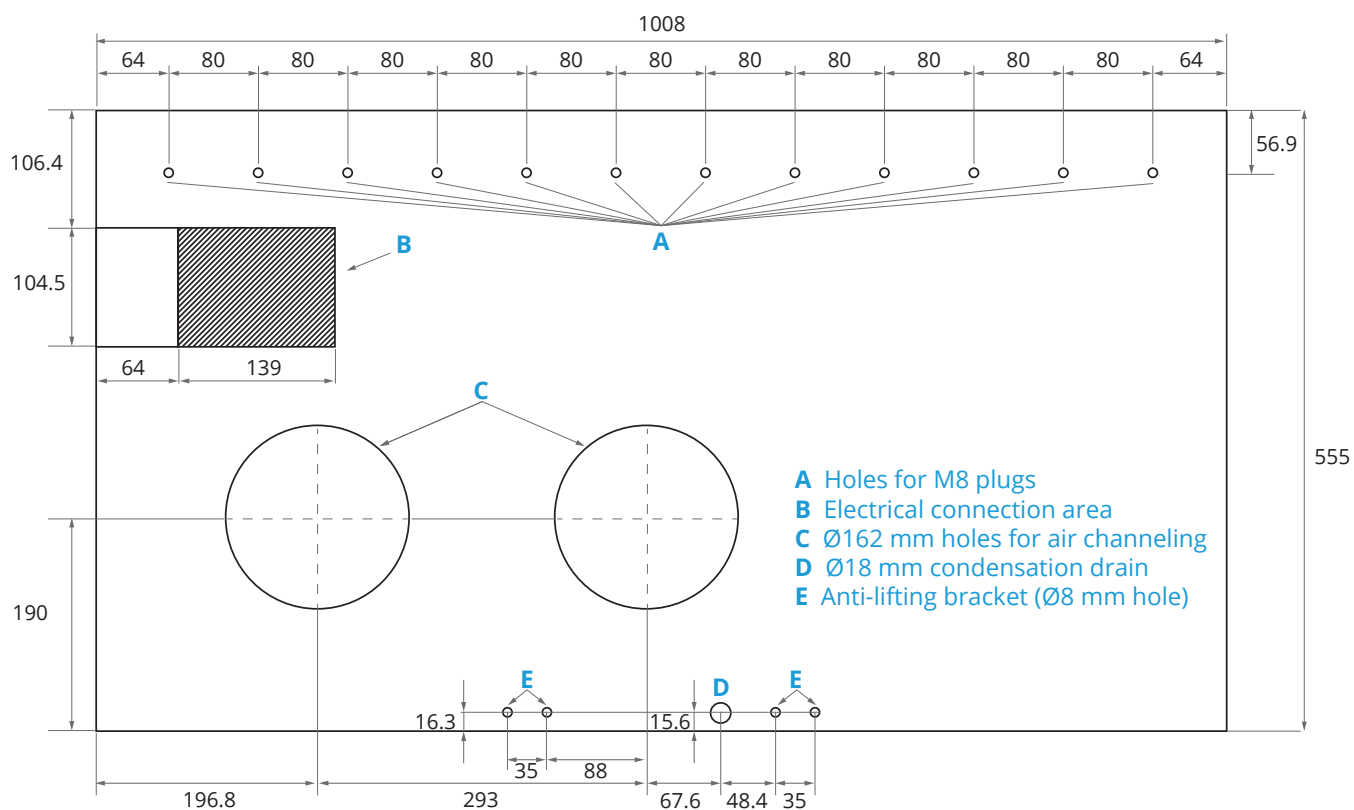


Installation Clearance



Mounting Template

- For the unit to work, two holes with a 162 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

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

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 = 87 %