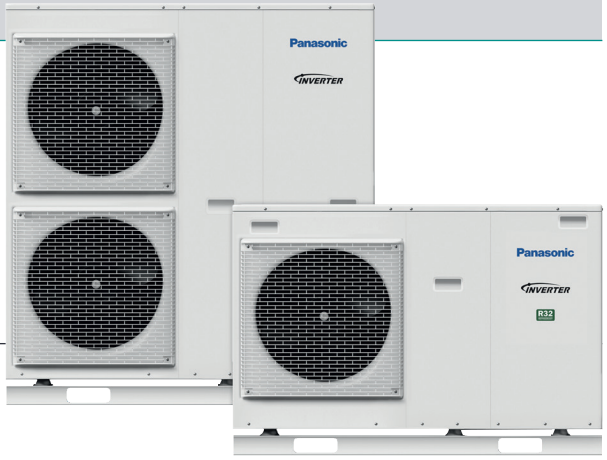
Nu-Heat
Feel the difference

Information sheet

Panasonic air source heat pumps from Nu-Heat

Air source heat pumps designed to provide an efficient, low-carbon solution for space heating and domestic hot water.



Panasonic air source heat pump range

The Panasonic air source heat pump range is an efficient, affordable route to low-carbon heating.

Panasonic ASHP range features

- Quiet, with maximum sound power levels as low as 59 decibels
- Simple, compact controller
- Available in five sizes:
  - 5kW, 7kW and 9kW (single fan)
  - 12kW and 16kW (twin fan)
- MCS approved for Boiler Upgrade Scheme applications
- 5-year warranty when commissioned by a Nu-Heat engineer
- Built-in filter and charge pump
- Pair with our EnergyPro® cylinders for domestic hot water
- Fast electrical installation

Why choose a heat pump from Nu-Heat?

As a MCS accredited company, we know what it takes to design an efficient system that effectively heats a home, whilst also keeping running costs low.

Our systems include tailored project schematics and all system components and fittings as standard, for a quick and smooth installation that is backed up with lifetime technical support.

Bespoke heating design

Seamlessly integrating the air source heat pump and underfloor heating

5-year warranty

Benefit from a 5-year warranty, full parts and labour, when commissioned by a Nu-Heat engineer

Supporting BUS applications

Access the BUS with our MCS support package which includes on-site commissioning

Free lifetime support

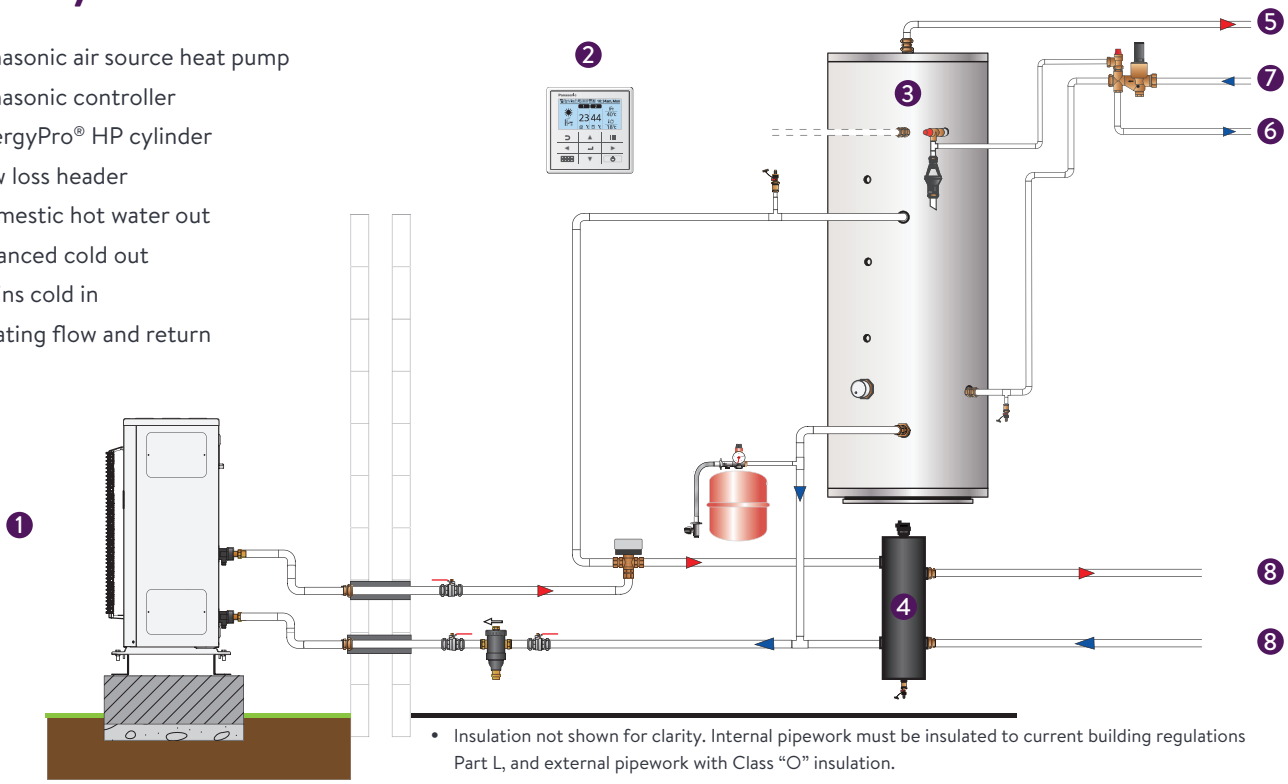
We support Nu-Heat systems for life, so you can always call on us for technical support

Award-winning customer service

Proud to hold a Distinction from the Institute of Customer Service

Typical system schematic

1. Panasonic air source heat pump
2. Panasonic controller
3. EnergyPro® HP cylinder
4. Low loss header
5. Domestic hot water out
6. Balanced cold out
7. Mains cold in
8. Heating flow and return



- Insulation not shown for clarity. Internal pipework must be insulated to current building regulations Part L, and external pipework with Class “O” insulation.

Which unit will I need?

We will take factors such as the size of the property, location and domestic hot water demand into account to select the right size heat pump for the project.

Technical specification

Model	5kW	7kW	9kW	12kW	16kW
Panasonic product code	WH-MDC05J3E5	WH-MDC07J3E5	WH-MDC09J3E5	WH-MDC12H6E5	WH-MDC16H6E5
CoP at 7/35°C*	5.08	4.76	4.48	4.74	4.28
Power output at 7/35°C (kW)	5	7	9	12	16
Operating voltage	230V				
Max. outgoing heating medium temp.	60°C			55°C	
Refrigerant	R32			R410A	
Height with stand (mm)	865			1410	
Width (mm)	1283				
Depth (mm)	320				
Weight (kg)	99	104		140	
Max sound power level (dB(A))**	59			69	72

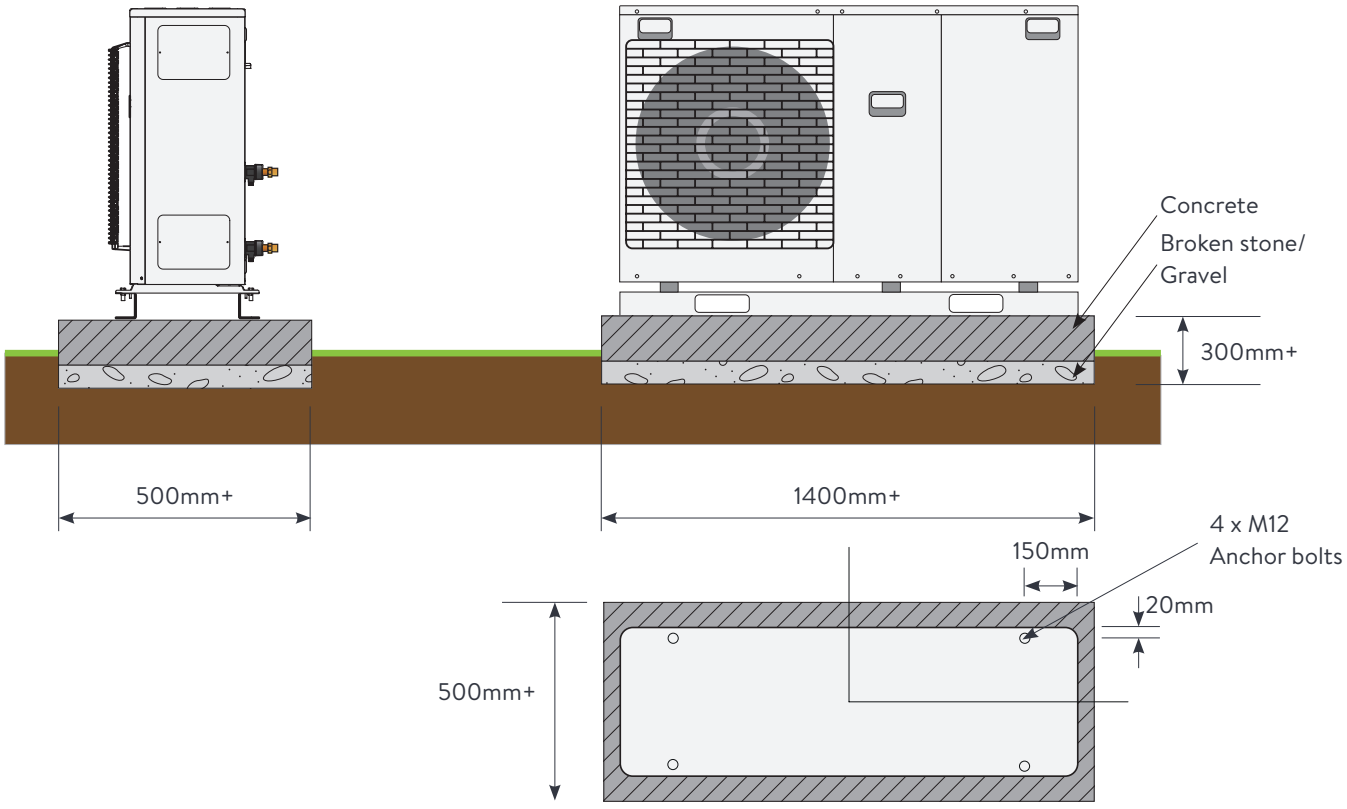
* In accordance with EN 14511 for heat source entry at 7°C / hot water flow at 35°C

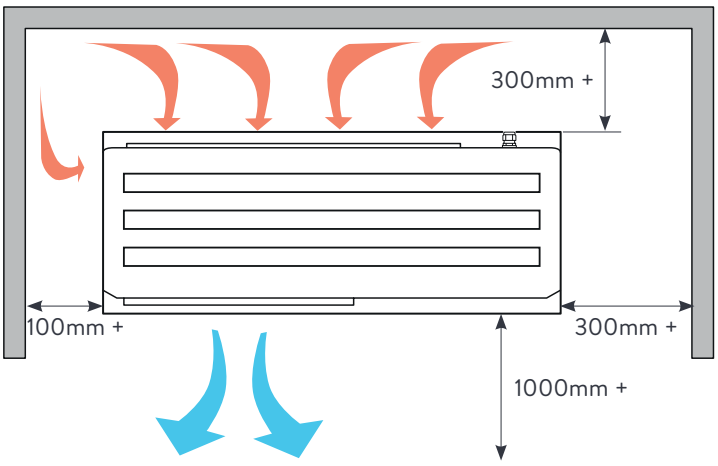
** In with accordance to EN-12102

Positioning the unit

Panasonic air source heat pumps can be installed on almost any kind of terrain and are supplied in a range of sizes to heat properties of almost any size.

- Place the heat pump unit outdoors, at ground level, on a solid level base, preferably a concrete foundation – do not place it directly on a lawn or other non-solid surface. If used, concrete slabs must rest on tarmac or gravel.
- The position should allow for good air circulation around the unit, access for maintenance, and ensure the minimum distances to walls or obstacles are achieved.
- The heat pump unit should not be positioned where its operation will cause inconvenience to the occupants or neighbours. We can help calculate this to meet MCS020.
- Provision should be made to take condensate water to a soakaway, drain or similar.
- Positioning should be in accordance with local planning guidance.
- External pipework to heat pump should be insulated using Class "O" insulation.





Energy efficiency fiche

Model	5kW		7kW		9kW		12kW		16kW	
Temperature application (°C)	35	55	35	55	35	55	35	55	35	55
Seasonal space heating energy efficiency class, average climate	A+++	A++	A+++	A++	A+++	A++	A++		A++	
Rated heat output, average climate (kW)	5		6	7	7	8	10	8	12	13
Annual energy consumption for space heating, average climate (kWh)	2018	2849	2532	4354	2949	4971	4286	4840	5146	8076
Seasonal space heating energy efficiency, average climate (%)	202	142	193	130	193	130	190	134	190	130
Max sound power level (dB(A))	59						69		72	
Rated heat output, cold climate (kW)	6	4	7	6	7	6	11	9	12	10
Rated heat output, warm climate (kW)	5	4	7	6	7	6	11	9	13	10
Annual energy consumption for space heating, cold climate (kWh)	3625	3338	4132	4967	4132	4967	6327	7147	6911	7955
Annual energy consumption for space heating, warm climate (kWh)	1113	1274	1627	1971	1627	1971	2368	2970	2801	3104
Seasonal space heating energy efficiency, cold climate (%)	160	115	164	116	164	116	168	121	168	121
Seasonal space heating energy efficiency, warm climate (%)	237	165	227	160	227	160	245	159	245	169