



Panasonic Aquarea M Series (25 kW)

Specifications and technical data

Air Source (ASHP)

Commercial

R290

25 kW

Manufacturer	Panasonic
Model	Aquarea M Series
Model code	WH-WXG25ME8
Heat pump type	Air Source (ASHP)
Application	Commercial
Refrigerant	R290
Mode	Heating & cooling
Heating capacity	25 kW
Max heating output (low temp)	25 kW at A-7/W55
COP (heating)	4.5 at A7/W35
SCOP (heating)	4.25 at W55
Operating range (air)	-25 to 43 °C
Heating flow temperature	25–75 °C
Electrical supply	380-415V (Three Phase)

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EER (cooling)	3.61 at A35/W7
Dimensions (H×W×D)	1645 × 1500 × 460 mm
Operational Weight	240 kg
Sound power level	59 dB(A) (Sound Power LW(A))
Data added	2026-07-01
Data source	Manufacturer Data Sheet
MCS certification	✓ MCS listed — eligible for Boiler Upgrade Scheme (MCS-certified install required)
MCS certificate no.	011-1W0925_3
MCS listing	View on MCS ↗

[View manufacturer page →](#)

Panasonic Aquarea M Series is a 25 kW air source heat pump, providing heating and cooling, using R290 refrigerant.

Where to buy (UK)

UK Supplier	The Heat Pump Warehouse
UK Supplier	Secon Renewables

☐ Awaiting verification

 [Suggest a correction to this data](#)

Data is compiled from manufacturer sources and may contain errors or gaps. Always confirm specifications with the manufacturer before making decisions.

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Heat Pump Noise Calculator FOR COURT HOUSE

Check air source heat pump permitted-development noise compliance using the MCS 020 a) sound calculation against the fixed 37 dB(A) limit.

Sound Power Level LWA

59

dB(A)

A-weighted SOUND POWER from the datasheet/product fiche or MCS product database — not sound pressure and not low-noise mode (MCS 020 a) Step 3)

Distance to Assessment Position

23.3

m

From the unit to the assessment position — 1 m external to the neighbour's habitable-room window or door

Directivity Q (reflecting surfaces)

Q4 — two surfaces (ground + or

Count the hard surfaces next to the unit: ground = Q2, ground + wall = Q4, corner = Q8 (MCS 020 a) Step 4)

Number of Units

1

Up to two units permitted on a detached dwelling (GPDO 2025); levels are summed logarithmically

✓ Advanced Options

Hide

Barrier Type

Type 1 — solid masonry/concr

Solid barrier between the unit and the assessment position (MCS 020 a) Step 6)

Line of Sight Over Barrier

Full view — assessment positi

View from the top edge of the unit to the assessment position — no view gives the full attenuation

At Assessment Position

26.7 dB(A)

MCS Limit

37 dB(A)

MCS Compliant

Yes

Sound power level LWA (input)	59 dB(A)
Directivity Q correction	+6.02 dB (Q4)
Distance to assessment position	23.3 m
Barrier attenuation	-0 dB
Level at assessment position	26.7 dB(A) LAeq,5min
MCS 020 a) PD limit	37 dB(A) (fixed, ignoring façade)
MCS compliant	Yes
Margin to limit	10.3 dB

Recommendation Comfortably within the MCS 020 a) 37.0 dB(A) permitted-development limit for England (10.3 dB margin). No additional mitigation needed. Scotland, Wales and Northern Ireland remain on the earlier MCS 020, whose limit differs.

Last updated: June 2026

Verified against UK standards · estimates only, confirm with your supplier.

Calculated with tradecalculator.co.uk

<https://tradecalculator.co.uk/renewables/heat-pump-noise-calculator/>

Printed on 27 August 2026