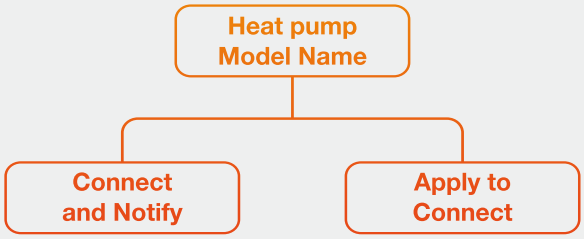
Heating | Product Information

Distribution Network and System Operator Information (DNO/DSO)

Key Features:

- The UK's long term strategy for decarbonisation of heat relies heavily on large scale roll out of heat pumps to domestic and non-domestic properties.
- Modern heat pumps such as Mitsubishi Electric's Ecodan can modulate to provide the level of output the building needs to keep its owners warm, which means many of the fixed speed, direct on-line compressors with high starting currents have become a thing of the past.
- This product information sheet produced in collaboration with the Energy Networks Association (ENA) provides all the electrical characteristics of our heat pumps. The information is used by the installers to notify the DNO of the electrical load changes being made to the property.
- All of the products listed meet the strict standards set by the Electro-Magnetic Capability (EMC) testing criteria. Our heat pumps conform to EN61000 3-2 & 3-3 or EN61000 3-11 & 3-12 and require a breaker of less than 40Amps; making them ideal for applications to the national grid.
- As identified by the Government in its **Clean Growth Strategy** published in 2018, the UK's long term strategy for decarbonisation of heat relies heavily on 'the large scale uptake' of heat pumps for domestic and non-domestic properties.

1. Check the heat pump model name



- **If status is connect and notify**, no prior authorisation is required to connect the heat pump.
- **If status is apply to connect,** An application with the DNO will be required to grant the heat pump connection to the grid. Pre-filled DNO forms are available on request.

Note. Under all circumstances there is a requirement to inform the network operator of the heat pump installation

2. Get to know who is your DNO

Electricity Distribution Networks:

- Scottish & Southern Electricity Networks
- SP Energy Networks
- Electricity North West
- Northern Powergrid
- UK Power Networks
- Western Power Distribution

Get to know the DNO contact details for a given postcode online. Scan the QR code or visit: energynetworks.org/operating-the-networks/whos-my-network-operator

3. Electrical Characteristics for grid connection

MODEL		QUHZ-W40VHA 4.0kW Ecodan	PUZ-WM50VAA 5.0kW Ecodan	PUZ-WM60VAA 6.0kW Ecodan	PUZ-WM85(V/Y)AA 8.5kW Ecodan	PUZ-WM112(V/Y)AA 11.2kW Ecodan	PUZ-HWM140(V/Y)HA 14.0kW Ecodan
ELECTRICAL SUPPLY	Voltage	230 VAC, 50Hz	230 VAC, 50Hz	230 VAC, 50Hz	230 VAC, 50Hz / 400VAC, 50Hz	230 VAC, 50Hz / 400VAC, 50Hz	230 VAC, 50Hz / 400VAC, 50Hz
	Phase	1 Phase	1 Phase	1 Phase	1 Phase / 3 Phase	1 Phase / 3 Phase	1 Phase / 3 Phase
ELECTRICAL CHARACTERISTICS	Compressor Type	Inverter	Inverter	Inverter	Inverter / Inverter	Inverter / Inverter	Inverter / Inverter
	Total Heat Pump System Maximum Demand (kVA)	2.76*3	2.99	2.99	5.06 / 7.82	6.44 / 8.84	8.05 / 9.00
	Total Heat Pump System Maximum Demand (A)*1	12*3	13	13	22 / 11.5	28 / 13	35 / 13
	Starting Current (A)	2	2	2	2 / 2	2 / 2	2 / 2
	Starts Per Hour	6	6	6	6 / 6	6 / 6	6 / 6
	Booster Heater	None	None	None	None / None	None / None	None / None
	Backup Heater	None	None	None	None / None	None / None	None / None
DECLARATION OF CONFORMITY		●	●	●	● / ●	● / ●	● / ●
ENERGY NETWORKS ASSOCIATIONS (ENA) LISTED	Listed	●	●	●	● / ●	● / ●	● / ●
	Class A limits of IEC 61000-3-2*2	●	●	●	● / ●	● / ●	● / ●
	Technical Requirements of IEC 61000-3-3*2	●	●	●	● / ●	● / ●	● / ●
	Status	Connect and Notify	Connect and Notify	Connect and Notify	Connect and Notify / Connect and Notify	Connect and Notify / Connect and Notify	Apply to Connect / Connect and Notify
	Heat Pump Type Register Number	HP_0606	HP_0607	HP_0609	HP_0610 / HP_0614	HP_0611 / HP_0615	HP_0612 / HP_0613

*1 According to databook informations. *2 UK specific validation. *3 Without thermal store energy consumption. These are Total Heat Pump System (Input) Rated Current (A) & Total Heat Pump System (Input) Rated Power (kVA) values.

Energy Network Association Heat Pump Database Access

(Scroll down the list and click onto "heat pump")

Scan the QR Code or visit: energynetworks.org/industry-hub/databases

MITSUBISHI ELECTRIC
Changes for the Better

Telephone: **01707 282880**
email: **heating@meuk.mee.com**
heating.mitsubishielectric.co.uk

@meuk_les @green_gateway | Mitsubishi Electric Living Environmental Systems UK | Mitsubishi Electric Cooling and Heating UK | mitsubishielectricuk_les | Mitsubishi Electric Living Environmental Systems UK | BLOG thehub.mitsubishielectric.co.uk

UNITED KINGDOM Mitsubishi Electric Europe Living Environment Systems Division, Travellers Lane, Hatfield, Hertfordshire, AL10 8XB, England. Telephone: 01707 282880 Fax: 01707 278881
IRELAND Mitsubishi Electric Europe, Westgate Business Park, Ballymount, Dublin 24, Ireland. Telephone: (01) 419 8800 Fax: (01) 419 8890 International code: (003531)

Note: Refer to 'Installation Manual' and 'Instruction Book' for further 'Technical Information'. The fuse rating is for guidance only and please refer to the relevant databook for detailed specification. It is the responsibility of a qualified electrician/electrical engineer to select the correct cable size and fuse rating based on current regulation and site specific conditions. Mitsubishi Electric's air conditioning equipment and heat pump systems contain a fluorinated greenhouse gas, R410A (GWP:2088), R32 (GWP:675), R407C (GWP:1774), R134a (GWP:1430), R513A (GWP:631), R454B (GWP:466), R1234ze (GWP:7) or R1234yf (GWP:4). *These GWP values are based on Regulation (EU) No 517/2014 from IPCC 4th edition. In case of Regulation (EU) No.626/2011 from IPCC 3rd edition, these are as follows. R410A (GWP:1975), R32 (GWP:550), R407C (GWP:1650) or R134a (GWP:1300).

Effective as of February 2021

Green Gateway greengateway.mitsubishielectric.co.uk