

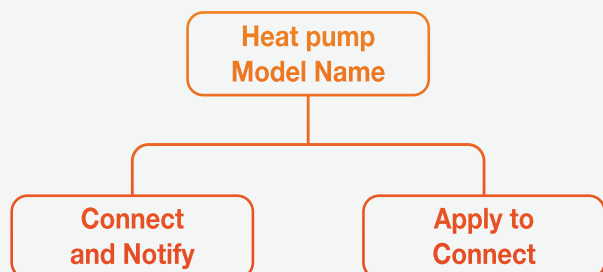
Distribution Network and System Operator Information (DNO/DSO)

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, 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
- Manx Utilities
- Electricity North West
- Northern Powergrid
- UK Power Networks
- National Grid Electricity 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

R290



MODEL		R290 5kW PUZ-WZ50VAA	R290 6kW PUZ-WZ60VAA	R290 8.5kW PUZ-WZ85(V/Y)AA	R290 10kW PUZ-WZ100(V/Y)AA	R290 12kW PUZ-WZ120(V/Y)AA
ELECTRICAL SUPPLY	Voltage	230VAC, 50Hz	230VAC, 50Hz	230VAC, 50Hz / 400VAC, 50Hz	230VAC, 50Hz / 400VAC, 50Hz	230VAC, 50Hz / 400VAC, 50Hz
	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
	Total Heat Pump System Maximum Demand (kVA)	2.99	2.99	5.29 / 8.31	6.9 / 8.31	8.51 / 8.31
	Total Heat Pump System Maximum Demand (A) *1	13	13	23 / 12	30 / 12	37 / 12
	Booster Heater	None	None	None	None	None
	Backup Heater	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	Apply to Connect / Connect and Notify
ENA System Reference - Single Phase		MITEL/04108/V1	MITEL/07317/V1	MITEL/10384/V1	MITEL/10385/V1	MITEL/10386/V1
ENA System Reference - Three Phase				MITEL/10387/V1/A1	MITEL/10388/V1	MITEL/10389/V1

*1 According to databook informations.

*2 UK specific validation.

These are Total Heat Pump System (Input) Rated Current (A) & Total Heat Pump System (Input) Rated Power (kVA) values.

3. Electrical Characteristics for grid connection

R32



MODEL		R32 5kW PUZ-WM50VAA	R32 6kW PUZ-WM60VAA	R32 8.5kW PUZ-WM85(V/Y)AA	R32 11.2kW PUZ-WM112(V/Y)AA	R32 14kW PUZ-HWM140(V/Y)HA
ELECTRICAL SUPPLY	Voltage	230VAC, 50Hz	230VAC, 50Hz	230VAC, 50Hz / 400VAC, 50Hz	230VAC, 50Hz / 400VAC, 50Hz	230VAC, 50Hz / 400VAC, 50Hz
	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
	Total Heat Pump System Maximum Demand (kVA)	2.99	2.99	5.06 / 7.97	6.44 / 9.01	8.05 / 9.01
	Total Heat Pump System Maximum Demand (A) *1	13	13	22 / 11.5	28 / 13	35 / 13
	Booster Heater	None	None	None	None	None
	Backup Heater	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	Apply to Connect / Connect and Notify
	ENA System Reference - Single Phase	MITEL/03424/V1	MITEL/09071/V1	MITEL/04923/V1	MITEL/02336/V1	MITEL/04418/V1
	ENA System Reference - Three Phase			MITEL/03706/V1	MITEL/04226/V1	MITEL/06205/V1

*1 According to databook informations.

*2 UK specific validation.

These are Total Heat Pump System (Input) Rated Current (A) & Total Heat Pump System (Input) Rated Power (kVA) values.

Energy Network Association Connect Direct Website

Scan the QR Code or visit: connect-direct.energynetworks.org

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Note: 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), R515B (GWP:292), R454C (GWP:148), R1234ze (GWP:7) or R1234yf (GWP:4). *These GWP values are based on Regulation (EU) No 517/2014 from IPCC 4th edition. Mitsubishi Electric's air conditioning equipment and heat pump systems contain a hydrocarbon, R290 (GWP:0.02). *These GWP values are based on IPCC 6th edition.

Effective as of May 2025

greengateway.mitsubishielectric.co.uk