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Project Planning Pack

Installation: Air Source Heat Pump
Client: Mr & Mrs Blain
Project: 189 Mount View Road
Project Number: ASHP_N4_1
Address: 189 Mount View Road, Haringey, London N4 4JT
Date: 18/05/2026

This document has been developed to assist the Client and Resolnor Energy to facilitate a smooth installation. It will provide a clear outline of the work to be done and the manner it will be done in. The requirements and guidelines detailed within shall be followed and adhered to at all times.

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1. Contact Details

Client

Mr & Mrs Blain

Site address: 189 Mount View Road, Haringey, London N4 4JT
Contact Details: as above
Phone No.: 077118826269
E-mail: lizduff393@gmail.com

Principal or Main Contractor TBC

Address:
Phone No.:
Site Manager:
E-mail:

Plumbing Contractor: TBC

Address:
Phone No.:
Contact person:
E-mail:

Sub Contractor: Elite Compacc Ltd
Contact Person David Sanjurjo
Phone No.: 07800730163
E-mail: resolnor.energy@gmail.com

After hours emergency

David Sanjurjo, Projects Manager

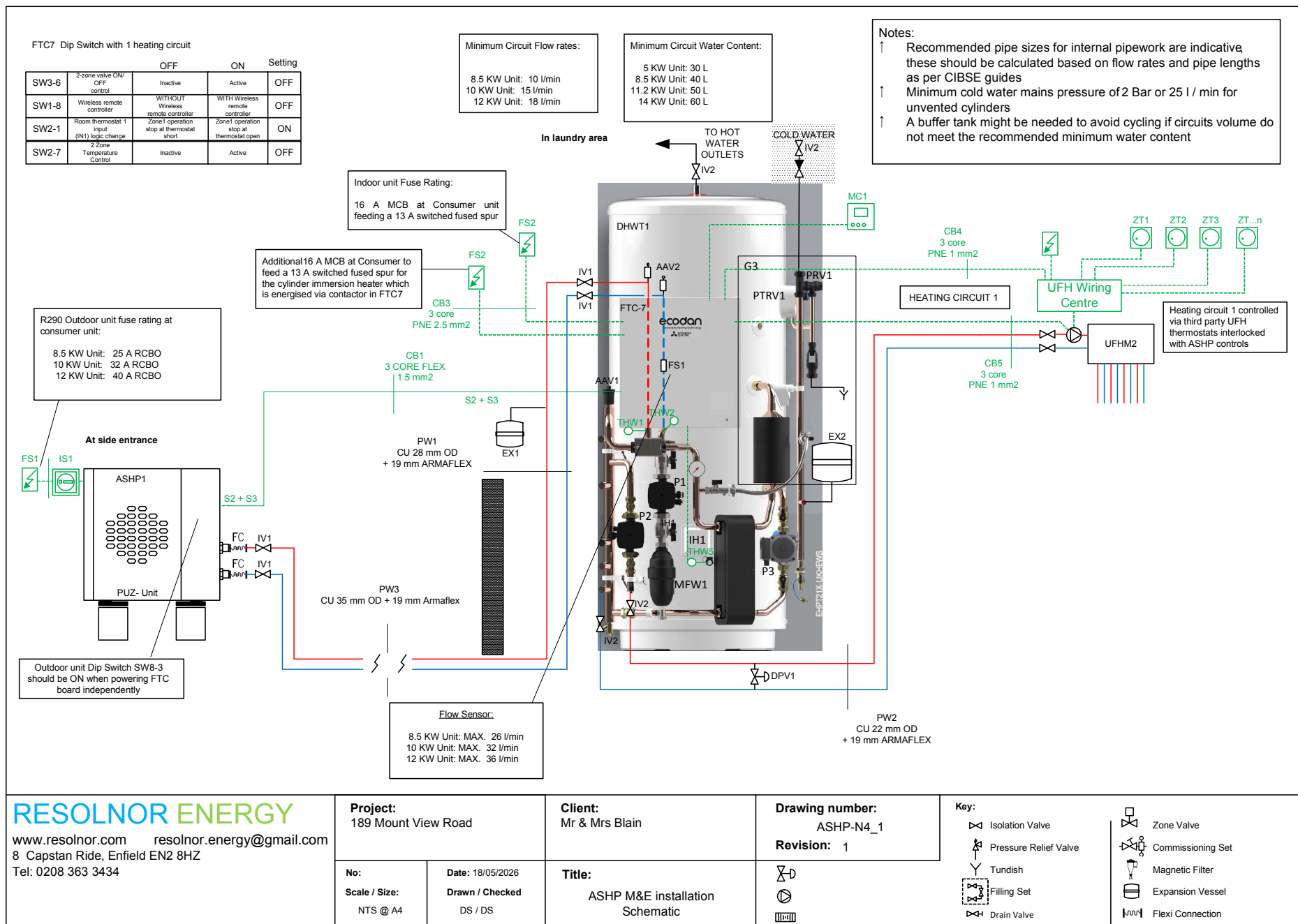
Phone No.: 0208 363 3434 / 07800730163
E-mail: david.sanjurjo@icloud.com

2. Requirements

The following works are required to be carried out by the client before Resolnor Energy can connect and commission the heat pump.

Structural Requirements	Document Ref.	Tick
- All holes through fabric of building, including making good, to be done by others		
- A concrete base capable of supporting the ASHP unit should be in place before installing the monobloc-unit (if ground mounted)		
- Ensure loose debris such as leaves, grass cutting etc will not block air inlet grills		
- Provide a suitable drainage point for the heat pump condensing line or soak-away		
Plumbing Requirements	Document Ref.	Tick
- Cold mains water supply to be connected to the hot water cylinder, in the loft room direct from mains entry point or de-scaler group . balanced cold arrangement should be after pressure reducing valve on cylinder	See specification	
- For an unvented hot water system, we recommend a minimum water pressure of 1.5 bar and a minimum flow rate of 25 litres/minute, although even at these values outlet flow rates may be poor if several outlets are used simultaneously		
- Hot water outlets connection to connected to the hot water cylinder, in the Laundry area	See specification	
- UFH manifold (x1) flow and return connections to be connected to the cylinder low loss header connections in the Laundry area	See specification	
- A drain connection/hole in the wall for a discharge pipe is needed near the cylinder for the overflows on the heating and cylinder safety valves.		

- Isolated flow and return primary heat pump pipes to be brought and connected to the cylinder primary connections.	See specification	
Electrical / Control Requirements	Document Ref.	Tick
- For heat pump (outdoor unit) electrical supply, provide local rotary isolator (within 1m of heat pump) energised from 25 A single phase type C MCB directly from consumer unit. 3 core x 4 mm2 SWA cable required.	See page 5	
- For heat pump controller, provide local isolator (within 1m of the cylinder) supplied from 16A single phase type B MCB from the consumer unit.	See page 5	
- For cylinder immersion heater, provide local isolator (within 1m of the cylinder) supplied from 16A single phase type B MCB from the consumer unit	See page 5	
- 4 core 1.5 mm2 screened communication cable between outdoor unit and FTC controller on cylinder	See page 5	
- 3 core 1 mm2 screened signal cable between UFH manifold wiring centre and FTC controller on cylinder.	See page 5	
- 3 Core 1.5 mm2 flexi cable between UFH wiring centre and FTC7 controller on cylinder for UFH pump control	See page 5	



RESOLNOR ENERGY

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8 Capstan Ride, Enfield EN2 8HZ

Tel: 0208 363 3434

Project:

189 Mount View Road

Client:

Mr & Mrs Blain

Drawing number:

ASHP-N4_1

Revision: 1

Key:

Isolation Valve	Zone Valve
Pressure Relief Valve	Commissioning Set
Tundish	Magnetic Filter
Filling Set	Expansion Vessel
Drain Valve	Flexi Connection

No:

Scale / Size:

NTS @ A4

Date: 18/05/2026

Drawn / Checked:

DS / DS

Title:

ASHP M&E installation Schematic

4. Specification

Reference	Description	Supplier	Specification	Quantity	Comments
Heat pump / solar thermal					
AAV1	Automatic Air Vent	Mitsubishi	DN16 air vent	1	Included with the cylinder
AF1	Anti-Freeze	Mitsubishi	Heating anti-freeze 25% concentration Fernox HP5	20L	Amount to be confirmed
ASHP1	Air Source Heat Pump	Mitsubishi	Mitsubishi Ecodan PUZ-WZ85VAA 8.5 kW 1040 mm (h) x 1050 mm (w) x 480 mm (d)	1	Mitsubishi Code PUZ-WZ85VAA
DHWT1	Domestic Hot Water Tank	Mitsubishi	210 litre Unvented hot water cylinder 3kW immersion heater 1509 mm (h) x 730 mm (w) x 756 (d)	1	Mitsubishi Code: EHPT21X-UKHEWL
EX1	Heating Expansion Vessel		24 litre Max. pressure 3 bar	1	Supplied by others
EX2	DHW Expansion Vessel	Mitsubishi	Part of the G3 safety kit	1	Included with the cylinder
FS1	Flow Sensor	Mitsubishi	DN 20 flow sensor	1	Included with the ASHP
G3	G3 Safety Kit	Mitsubishi	Pressure and temperature relief valve Expansion vessel 18 litre	1	Included with the cylinder
IH1	Immersion Heater	Mitsubishi	3 kW, running current 13 A	1	Included with the cylinder
IV1	Isolation Valve		28 mm lever ball valve	4	(Main unit) By others
IV2	Isolation Valve		22 mm lever ball valve	5	(Heating circuits and DHW tank) By others

Reference	Description	Supplier	Specification	Quantity	Comments
MWF1	Magnetic Water Filter	Mitsubishi	Fernox TF1 Magnetic Water Filter	1	Included with the cylinder
P1/2/3	Pump	Mitsubishi	Grundfos UPS pumps	3	Included with the cylinder
PRV1	Pressure Relief Valve	Mitsubishi	DN20Set pressure 3 bar, included with the G3 safety kit	1	Connecting pipe must be same dimension as valve
PTRV1	Pressure & Temperature Relief Valve	Mitsubishi	15 mm PTRV	1	Included with the cylinder
PW1	Pipe Work		28 mm OD CU + 19 mm Armaflex	Variable	(Main unit) By others
PW2	Pipe Work		22 mm OD CU + 19 mm Armaflex	Variable	(Heating circuits) By others
PW3	Pipe Work		35 mm OD CU + 19 mm Armaflex	Variable	(Main unit) By others
FC	Flexi connections	Mitsubishi	Flexi hoses insulated 1" M-F (Pair)	1	Part of Mitsubishi kit
Electrical & Control					
FTC7	Flow temperature controller	Mitsubishi	Main control board for heat pump	1	Mitsubishi
FS1	Fused Spur		25 A single phase MCB	1	By others
FS2	Fused Spur		16 A single phase fused switchable spur	2	By others
MC1	Main Controller	Mitsubishi	Remote Controller for operation Heat Pump	1	Included with the control box

Reference	Description	Supplier	Specification	Quantity	Comments
IS1	AC Isolator		Single Phase 25A 3Pole Rotary Switch Insulated IP65	1	By others
ZT1/2..n	Room Thermostat		Wired to UFH wiring centre (3 core + E 1 mm2 Cable)	variable	By others
THW1/2	Temperature Sensor		Heat pump sensors supplied with FTC7	variable	Part of Mitsubishi kit
CB1	Cable 1		4 core flexible 1.5 mm2 (screened)	Variable	By others
CB2	Cable 2		3 core 4 mm2 SWA cable	variable	By others
CB3	Cable 3		3 core 2.5 mm2 flexible	Variable	By others
CB4	Cable 4		3 Core 1 mm2 flexible (screened)	Variable	By Others
CB5	Cable 5		3 Core 1 mm2 Flexible	Variable	By others

5. Heat Pump Performance

Building heat loss (space heating):	6.2	kW
Heat pump capacity (space heating + DHW):	8.5	kW
Proportion of the space heating expected to be provided by the HP:	100	%
Proportion of the domestic hot water expected to be provided by the HP:*	100	%
Energy provided by the heat pump for space heating:	13,427	kWh
Energy provided by the heat pump for domestic hot water:*	3,937	kWh
Total energy provided by the heat pump (space heating + DHW):	17,364	kWh
Predicted electrical energy consumption per year to run the heat pump:	6,056	kWh
Predicted electrical energy consumption per year by electrical heater:**	68	kWh
Total electrical energy required for the heat pump and the aux. heater:	6,124	kWh

* Excludes the protection against legionella. An additional auxiliary heater is provided in each hot water tank to provide protection against legionella. At least once in a week the auxiliary electrical heater needs to bring hot water temperature to 65°C to ensure protection against legionella.

**Annual prediction of the electrical consumption of auxiliary electrical heater is based on 2 hours use of the heater.

Disclaimer:

“The performance of Microgeneration heat pump systems is impossible to predict with certainty due to the variability of the climate and its subsequent effect on both heat supply and demand. This estimate is based upon the best available information but is given as a guidance only and should not be considered as a guarantee.”

6. Risk Assessment

Site Address: 189 Mount View Road, Haringey, London N4 4JT
 Work Activity: Air Source Heat Pump
 Work Location: Ground floor & first floor
 Responsibility: David Sanjurjo
 Date: 18 May 2026

Monitor and reassess regularly.

What are the hazards?	Who might be harmed and How?	What are you already doing?	Further Prevention
Use of non-powered handtools, i.e. hammers, etc.	All operatives may suffer injury from flying objects	- Safety Helmet - Goggles - Safety footwear - Gloves	- Senior installer to remind operatives of safe systems of work
Use of power tools	All operatives may suffer injury when using power tools	- Check power tools are in good condition before use - Goggles - Safety footwear - Gloves	- Senior installer to remind operatives of safe systems of work
Leptospirosis from contact with rat's urine/droppings	All operatives	- Gloves. - Anti-bacterial wipes - Good hygiene and - Avoidance of hand to face contact is emphasised.	- Senior installer to remind operatives of safe systems of work
Fire	All operatives could suffer fatal injuries from smoke inhalation/ burns	- Fire hazards to be minimised - Smoking strictly prohibited on site - Operatives to be told of fire and evacuation policy before work begins	- Site induction to discuss fire and evacuation policy
Noise	Operatives may suffer discomfort and potential hearing damage if working in noisy areas or using noisy equipment	- All operatives have ear defenders and know how to use them effectively and maintain them properly	- Senior installer to remind operatives of safe systems of work
Slips and trips	All operators, and tradesmen nearby, may suffer sprains, bruising or fractures if they trip over objects	- All operators wear safety boots - Good housekeeping e.g. rubbish put in skips provided by principal contractor - All trailing cables clearly visible and away from thoroughfares - Safe route to job agreed with site manager based on site health and safety plan	- Senior installer to remind operatives of safe systems of work - Site induction to discuss safe route
Objects falling from height	All operators working below scaffold	- Hard hats to be worn by all operatives at all times	- Senior installer to remind operatives of safe systems of work
Workplace transport	Operators risk serious or even fatal injuries from moving vehicles on site – particularly when reversing	- Safe route to workplace, and to welfare facilities, agreed with site manager based on site health and safety plan - Staff know that they must never move vehicles on a site unless authorised by site manager - Staff wear hi-vis vests while on site	- Senior installer to remind operatives of safe systems of work - Site induction to discuss safe route
Manual handling	Operators risk injury, particularly to the back, from lifting and handling heavy or awkward objects e.g. pipe reels	- Appropriate lifting equipment to be used to move heavy objects - Operatives to work in pairs to move heavy objects - Pipe dispenser to be used to reduce the need to move the pipe reel	- Senior installer to remind operatives of safe systems of work
Electricity	Operators and others risk potentially fatal injuries if they receive a shock from faulty	- Operatives to use battery powered tools - Staff know to check all cables, leads etc.	- Senior installer to remind operatives of safe

	electrical equipment and/or installation	of all powered tools/equipment before use and to report all faults to their supervisor	systems of work
Welfare	Good welfare facilities reduce risk of dermatitis, help good hygiene, etc.	- Agreement with site manager that staff may use site welfare facilities – toilets, washing facilities with hot and cold water and mess room/kitchen	- Site induction to let staff know about welfare facilities
Contact with ethylene or propylene glycol	All operatives and visitors to site could suffer injury from contact with glycol	- Gloves, goggles, overalls. - COSHH Risk Assessments. - Ensure all other site workers/visitors are removed from area where glycol is being used	- Senior installer to remind operatives of safe systems of work
Contact with refrigerant inside heat pump	All operatives could suffer injury from contact with the refrigerant	- Avoid using power tools near compressor and refrigerant pipework	- Senior installer to remind operatives of safe systems of work -
Contact with very hot pipework	All operatives could suffer burns	- Gloves - Solar panels kept covered until system ready for commissioning	- Senior installer to remind operatives of safe systems of work
Bad weather	All operatives working outside have increased risk of injury during poor weather	- Do not work on roof if there is heavy rain, strong winds, thunder and lightning	- Senior installer to remind operatives of safe systems of work

A) Appendix –

- Heat pump PI sheet
- Heat pump cylinder PI sheet

Ecodan R290

Monobloc Air Source Heat Pump

R290**Key Features:**

- A+++ heating efficiency (Range A+++ to D)
- Ultra quiet noise levels
- MELCloud Home enabled
- High water temperature of up to 75°C
- Fully electric source of heating and hot water

Key Benefits:

- Minimised energy consumption
- Flexible product placement
- Remote control, monitoring, maintenance and technical support
- Ideal for energy storage
- Zero carbon ready

**MELCloud
HOME**

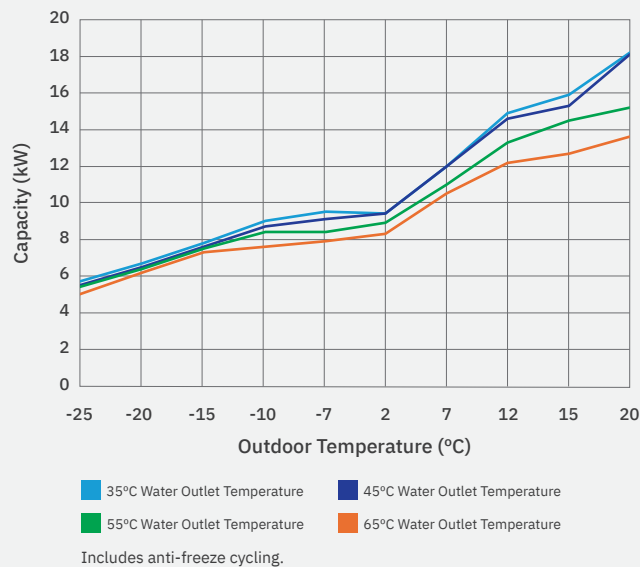
Manufactured in the UK



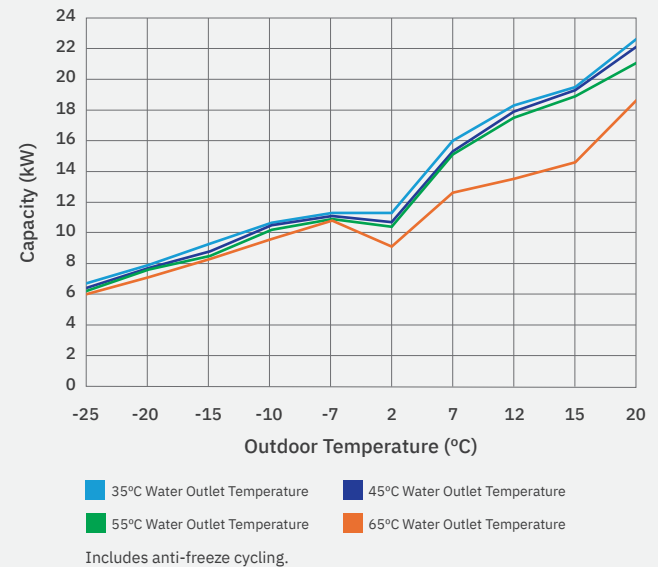
037-0033-20-01

red**dot** design award**ecodan**[®]
Renewable Heating Technology

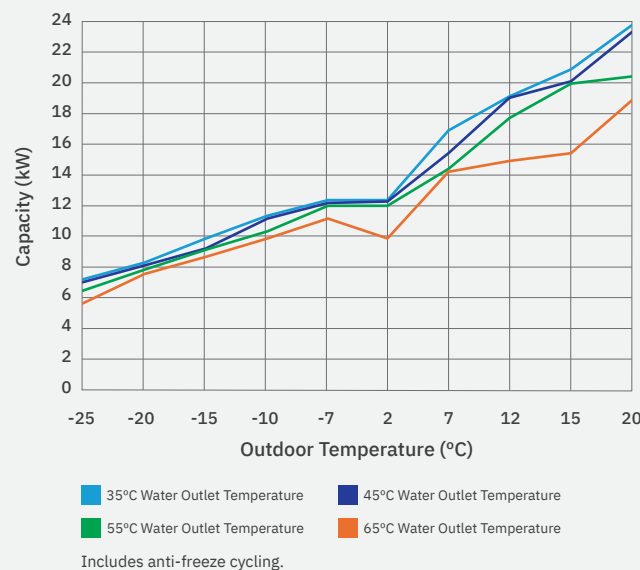
PUZ-WZ85V/YAA CAPACITIES



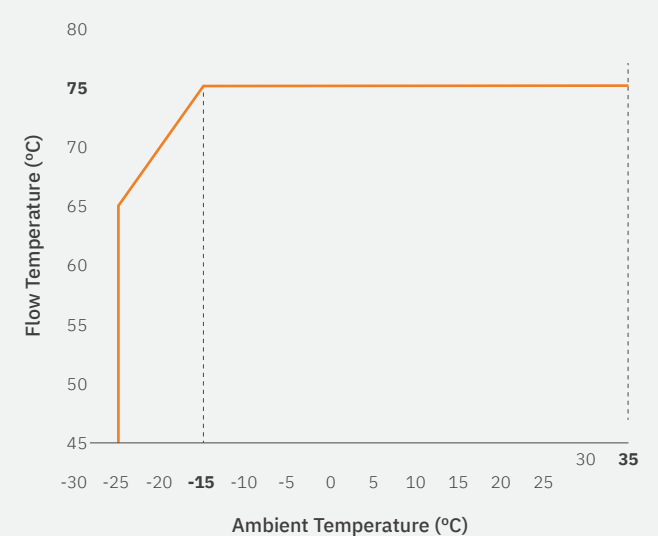
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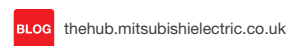
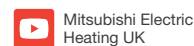
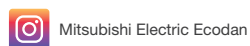
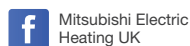
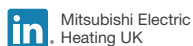
PUZ-WZ120V/YAA CAPACITIES



FLOW TEMPERATURE



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ecodan.co.uk



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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 April 2025



FTC7 Pre-Plumbed Cylinder **Standard** For Ecodan Monobloc Heat Pumps

Key Features:

- Pre-Plumbed and Pre-Wired
- DHW Plate Heat Exchanger combined with scale trap
- Low Loss Header
- Colour touch screen control
- MELCloud Home ready

Key Benefits:

- Plug and play simple installation
- Excellent hot water recovery times
- Automatic heat pump flow rate regulation
- Intuitive user friendly operation
- Remote control and monitoring via WiFi adapter



ecodan[®]
Renewable Heating Technology

CYLINDER		EHPT15X-UKHEW1S		EHPT17X-UKHEW1S		EHPT21X-UKHEW1S		EHPT21X-UKHEW1L		EHPT25X-UKHEW1L		EHPT30X-UHEW1L		
NOMINAL HOT WATER VOLUME (LITRES)		150		170		210		210		250		300		
ErP RATING		B		B		C		C		C		C		
HEAT LOSS (kWh/24hrs)		1.15		1.23		1.53		1.53		1.80		2.09		
HEAT LOSS (W)		48		51		64		65		75		86		
WATER		Flow Rate (l/min) - with R32 Heat Pump 5 / 6 / 8.5 / 11.2 / 14kW	14 / 17 / 24 / - / -		14 / 17 / 24 / - / -		14 / 17 / 24 / - / -		- / 17 / 24 / 32 / 40		- / 17 / 24 / 32 / 40		- / - / 24 / 32 / 40	
		- with R290 Heat Pump 5 / 6 / 8kW	14 / 17 / 23		14 / 17 / 23		14 / 17 / 23		- / 17 / 23		- / 17 / 23		/ - / - / 23	
		Primary Circuit Pump	Grundfos UPM4L 25-75 130AZA											
		Heating Circuit Pump	Grundfos UPM3 AUTO 25-70 130											
		Sanitary Hot Water Pump	Grundfos UPSO 15-60 CIL2											
		Connection Size (mm) Heating / DHW	22 / 22		22 / 22		22 / 22		28 / 22		28 / 22		28 / 22	
		Charge Pressure (MPa (Bar))	0.35 (3.5)		0.35 (3.5)		0.35 (3.5)		0.35 (3.5)		0.35 (3.5)		0.35 (3.5)	
WATER SAFETY	Water Circuit	Control Thermistor (°C)	80		80		80		80		80		80	
	DHW Cylinder	DHW Expansion Vessel (Litres)	12		18		18		18		24		24	
		Control Thermistor (°C)	75		75		75		75		75		75	
		Over Temperature Cut-Out (°C)	80 +/- 5		80 +/- 5		80 +/- 5		80 +/- 5		80 +/- 5		80 +/- 5	
		Temp and Pressure Relief Valve (°C) / (MPa (Bar))	90 / 1.0 (10)		90 / 1.0 (10)		90 / 1.0 (10)		90 / 1.0 (10)		90 / 1.0 (10)		90 / 1.0 (10)	
		Expansion Relief Valve (Cold) (MPa (Bar))	0.8 (8)		0.8 (8)		0.8 (8)		0.8 (8)		0.8 (8)		0.8 (8)	
DIMENSIONS (mm)		Width	730		730		730		748		748		748	
		Depth	756		756		756		755		755		755	
		Height	1131		1257		1509		1509		1761		2075	
		WEIGHT EMPTY / FULL (kg)	55/205		58/228		64/274		68/278		74/324		82/382	
CYLINDER MATERIAL		Cylinder Material	Duplex stainless steel											
		Insulation Type	CFC / HCFC-free flame-retardant expanded Polyurethane											
		Insulation Thickness (mm)	60		60		60		60		60		60	
		GWP of Insulation	3.1		3.1		3.1		3.1		3.1		3.1	
		ODP of Insulation	0		0		0		0		0		0	
ELECTRICAL DATA	Control Board - optionally powered by outdoor unit	Electrical Supply	220-240v ~, 50Hz		220-240v ~, 50Hz		220-240v ~, 50Hz		220-240v ~, 50Hz		220-240v ~, 50Hz		220-240v ~, 50Hz	
		Phase	Single		Single		Single		Single		Single		Single	
		Fuse Rating - MCB Sizes (A) ^{*1}	16		16		16		16		16		16	
	Immersion Heater	Electrical Supply	220-240v ~, 50Hz		220-240v ~, 50Hz		220-240v ~, 50Hz		220-240v ~, 50Hz		220-240v ~, 50Hz		220-240v ~, 50Hz	
		Phase	Single		Single		Single		Single		Single		Single	
		Capacity (kW)	3		3		3		3		3		3	
		Max Running Current (A)	13		13		13		13		13		13	
		Fuse Rating - MCB Sizes (A) ^{*1}	16		16		16		16		16		16	
MECHANICAL ZONES			DHW and 1 Heating Zone ^{*2}											
OPTIONAL WIRELESS ROOM THERMOSTAT AND WIRELESS RECEIVER			PAR-WT60R-E Controller and PAR-WR61R-E Receiver											

MECHANICAL ZONES

DHW and 1 Heating Zone*2

OPTIONAL WIRELESS ROOM THERMOSTAT AND WIRELESS RECEIVER

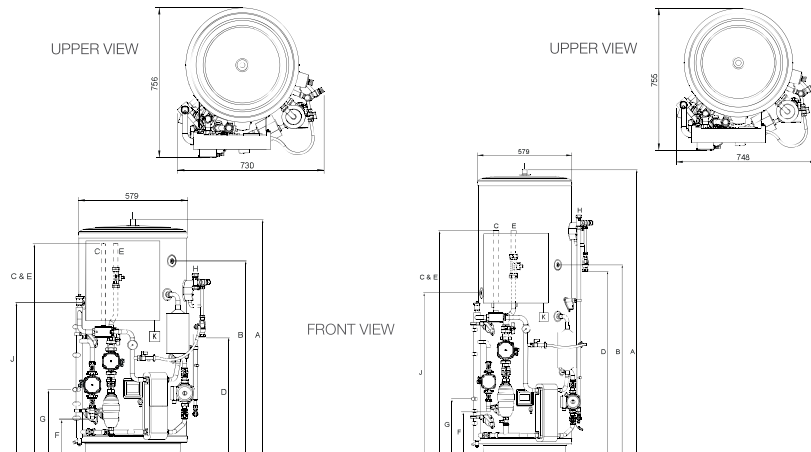
PAR-WT60R-E Controller and PAR-WR61R-E Receiver

*1 MCB Sizes BS EN60898-2 & BS EN60947-2 *2 Optional 2 zone accessory pack available.

Notes: Cylinder includes: Flow Temperature Controller (FTC7) with Main Controller and Temperature Sensors, Heat Pump Filter, Pumps and Valves for Primary Circuit and Zone 1 and DHW use, Flow Sensor, Plate Heat Exchanger, Scale Trap, 3kW Immersion Heater, Expansion Vessel, Diverter Valve and Low Loss Header.

150L - 210L (S) DIMENSIONS

210L (L) - 300L DIMENSIONS



KEY

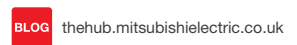
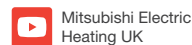
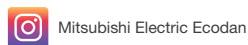
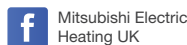
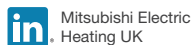
- A OVERALL HEIGHT
- B SECONDARY RETURN TAPPING (NOT FITTED TO 150L and 170L)
- C HEAT PUMP FLOW CONNECTION
150/170/210(S) - 22mm O/D COPPER
210(L)/250/300 - 28mm O/D COPPER
- D TUNDISH OUTLET CONNECTION (22mm COMPRESSION)
- E HEAT PUMP RETURN CONNECTION
150/170/210(S) - 22mm O/D COPPER
210(L)/250/300 - 28mm O/D COPPER
- F HEATING ZONE 1 CIRCUIT FLOW CONNECTION (22mm O/D COPPER)
- G HEATING ZONE 1 CIRCUIT RETURN CONNECTION (22mm O/D COPPER)
- H COLD WATER INLET CONNECTION (22mm COMPRESSION)
- I HOT WATER OUTLET CONNECTION (22mm COMPRESSION / 3/4" BSP M)
- J THW5A SENSOR POCKET

Capacity	150	170	210 (S)	210 (L)	250	300
A	1131	1257	1509	1509	1761	2075
B	Not Fitted	Not Fitted	1050	1050	1175	1385
C	1122	1122	1122	1370	1370	1370
D	505	630	880	880	1136	1450
E	1122	1122	1122	1370	1370	1370
F	194	194	194	270	270	270
G	350	350	350	350	350	350
J	675	815	925	925	1005	1193

All dimensions (mm)



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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.

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