

E-Generation High Temperature Series

SPLIT-TYPE AIR-TO-WATER HEAT PUMP



ecodan®

HYDROBOX SPLIT SYSTEM

Heating Capacity:
8.0kW – 14.0kW

Cooling Capacity:
8.0kW – 14.0kW

An advanced, energy-efficient solution for whole-home heating, cooling, and domestic hot water. Ideal for both new builds and retrofit applications, the new E-Generation High Temperature Split-Type Series delivers water temperatures up to 70°C, making it a smart replacement for gas, coal, or diesel boilers. Designed for flexible installation across residential and commercial projects.

High Efficiency Performance



Ultra Quiet Operation



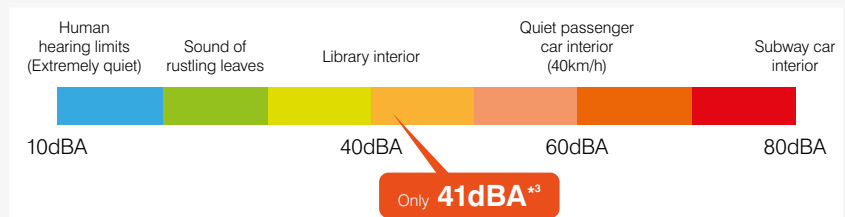
Key Features

High Flow Temperatures

Up to 70°C Heating Flow Temperatures make the E-Generation Series the ideal solution as a replacement for gas boilers producing hot water and heating radiators.

Ultra Quiet Noise Levels

The Ecodan E-Generation Series is our quietest yet, operating with industry leading noise levels from 41dBA*3.



New Intuitive Touch Screen Controller

The easy to use touchscreen allows for easy monitoring of energy use and tailored comfort control. The improved commissioning wizard offers easier installation for contractors.

Easier Installation and Longer Pipe Lengths

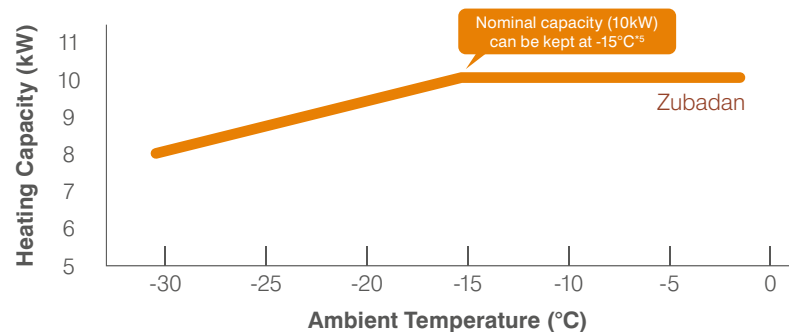
Now with G1" tightening nuts instead of compression fitting for smoother installation. Long pipe runs with up to 30m*4 of chargeless piping length can be achieved for flexible installation options.

Magnetic Filter for Improved Efficiency

The new magnetic filter keeps the water in the circuit clean to prevent clogging and deterioration of pumps and 3-way valve, ensuring high performance and longevity.

Zubadan Technology for Low Temperature Performance

All models include Zubadan Technology to maintain full capacity in outdoor temperature conditions down to -15°C.



*1 PUZ-SHWM80VAA under nominal heating conditions at outdoor temp 7°C, outlet water temp 35°C, inlet water temp 30°C, as tested to EN14511 standard.

*2 PUZ-SHWM80VAA under nominal cooling conditions at outdoor temp: 30°C, outlet water temp 18°C, inlet water temp 23°C, as tested to EN14511 standard.

*3 PUZ-SHWM80VAA measured 1m from outdoor unit.

*4 For heating-only applications.

*5 PUZ-SHWM100V/YAA at 35°C flow temperature.

Specifications

Split-Type Air-To-Water Heat Pump

OUTDOOR UNIT			PUZ-SHWM80VAA	PUZ-SHWM100VAA	PUZ-SHWM140VAA
Heating ^{*1} (A2/W35)	Capacity	[kW]	8.00	10.00	14.00
	Power Input	[kW]	2.10	2.81	4.24
	COP		3.80	3.55	3.30
Operating Outdoor Temperature Range	Heating	[°C DB]	-30 to +24	-30 to +24	-30 to +24
	DHW	[°C DB]	-30 to +42	-30 to +42	-30 to +42
Sound Pressure Level (noise) ^{*2}	SPL (Heating)	[dBA]	41	44	46
Sound Power Level ^{*3}	PWL (Heating)	[dBA]	54	58	58
Dimensions	Width	[mm]	1050	1050	1050
	Depth	[mm]	480	480	480
	Height	[mm]	1040	1040	1040
Weight		[kg]	106	106.5	114.5
Refrigerant Data	Type		R32	R32	R32
	Charge (Up to 30m)	[kg]	1.8	1.8	1.8
	Pipe size – Gas / Liquid ^{*4}	[mm (in)]	6.35 (1/4) / 12.7 (1/2)	6.35 (1/4) / 12.7 (1/2)	6.35 (1/4) / 12.7 (1/2)
	Connection Type		Flared	Flared	Flared
	Min – Max Pipe Length ^{*5}	[m]	2-30	2-30	2-30
	Max Height Difference	[m]	30	30	30
Electrical Data	Electrical Supply		1Ph, 230V, 50Hz	1Ph, 230V, 50Hz	1Ph, 230V, 50Hz
	Maximum Current	[A]	19	27	35
	Fuse Rating	[A]	25	30	40

*¹ Under normal heating conditions at outdoor temp: 2°CDB / 1°CWB, outlet water temp 35°C, inlet water temp 30°C.

*² Sound measured to EN14511 at 1m from outdoor unit. In Heating Mode.

*³ Sound Power Levels are measured based on EN12102:2013. In Heating Mode.

*⁴ 15.88 (5/8) for cooling applications, refer to installation manual for piping lengths in Cooling Mode.

*⁵ Max pipe length up to 50m in heating mode – refer to installation manual regarding min internal space for Hydrobox.

HYDROBOX			ERSF-VM2E* ⁶
Hydrobox Type			Split
Outdoor Capacity Range	Nominal	[kW]	8 – 14
Heating Operating Range		Heating Flow Temperature [°C]	20 – 70
Water Data		Max Flow Rate [L/min]	36.9
		Primary Pump	Grundfos UPM 3K 15 – 75 130
		Connection Size (Heating / DHW)	G1 Tightening Nut
		Primary Expansion Vessel [L]	10
		Charge Pressure [Bar]	1
Water Safety Devices	Water Circuit	Control Thermistor [°C]	1 – 80
		Pressure Relief Valve [Bar]	3
		Flow Sensor Min Flow Rate [L/min]	5.0
Dimensions		Width [mm]	530
		Depth [mm]	360
		Height [mm]	800
Weight Empty / Full		[kg]	39 / 45
Electrical Data	Control Board (Optionally Powered by Outdoor Unit)	Electrical Supply	1Ph, 230V, 50Hz
		Breaker [A]	10
	Booster Heater (Optionally Powered if Required)	Electrical Supply	1Ph, 230V, 50Hz
		Capacity [kW]	2
		Max Running Current [A]	9
		Breaker [A]	16

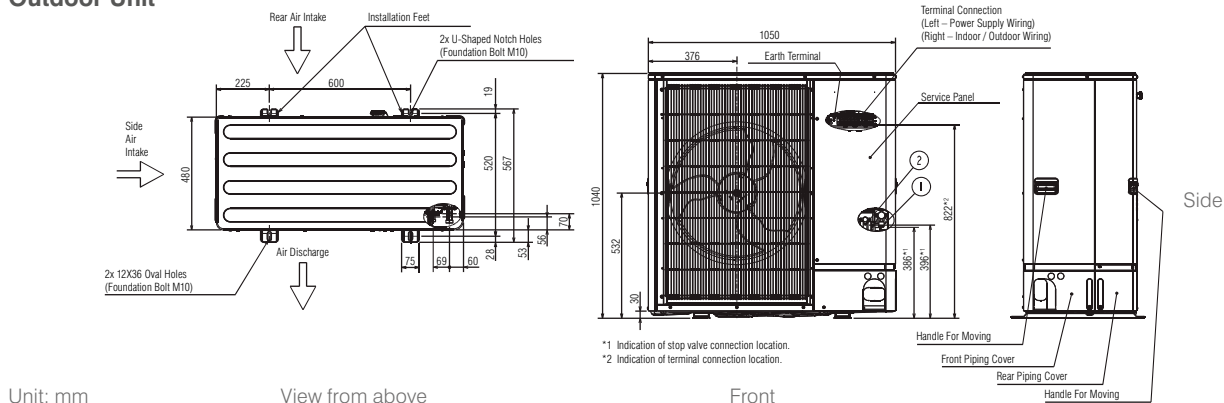
Hydrobox includes: Flow Temperature Controller (FTC7) with Remote Controller and Temperature Sensors, Water Circulation Pump, Flow Sensor, Booster Heater and Expansion Vessel.

*⁶ Reversible (heating and cooling) model.

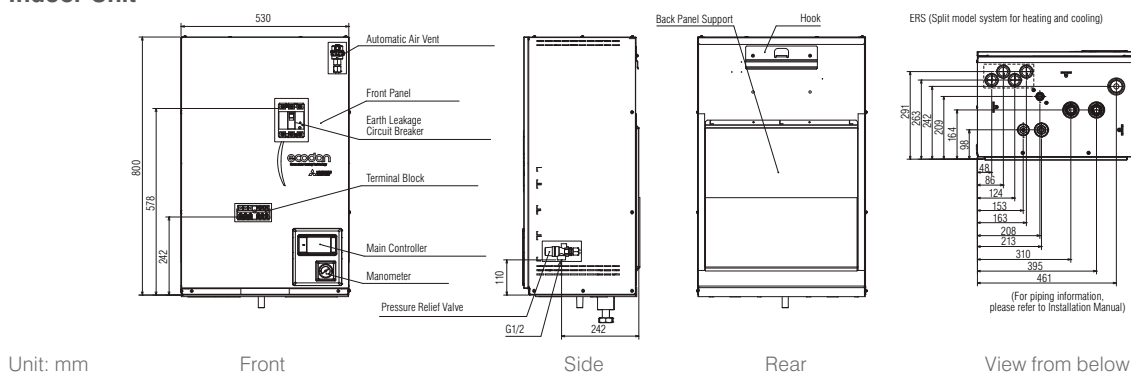
Specifications

Dimensions

Outdoor Unit



Indoor Unit



Main Remote Controller – FTC7



NEW
release

Simple User-friendly Controller with New Design

- New design for simple and intuitive operation
- Colour display and touch screen for excellent visibility
- Wide range of convenient functions in response to user demand

Function Settings

- Energy Monitoring
- Two-Zone Control (cooling and heating)
- Two separate schedules
- Built-in room temperature sensors
- Hybrid Control (boiler interlock)
- Floor Drying Mode
- Weekly timer
- Holiday Mode
- Legionella prevention
- Error codes



Manufactured in the United Kingdom

The Mitsubishi Electric manufacturing facility in Livingston, Scotland produces E-Generation Hydrobox and Controls for the UK and European markets and includes a purpose-built Ecodan testing facility.

Black Diamond Technologies and Mitsubishi Electric – an Exclusive Partnership Since 1981

The Mitsubishi Electric Product Range has been exclusively distributed by 100% locally owned and operated Black Diamond Technologies Limited for over 40 years in New Zealand.

The combination of an internationally trusted brand with the comfort of a locally owned and operated company means that you will always get the best products, the best local service and the best local support.

Based in Wellington with a further 4 support offices throughout New Zealand, Black Diamond Technologies Limited is here to help.

Our Vision – Creating New Zealand's Sustainable Future

Black Diamond Technologies Limited in partnership with Mitsubishi Electric, strives to develop and introduce new technologies for New Zealanders that will make our lives more comfortable while also creating a greener tomorrow.

Our Nationwide Trained Specialist Installation Network

Mitsubishi Electric Hot Water Heat Pumps are installed through an extensive network of trained specialist dealers. This ensures you are supported with a superior level of product and installation quality.

Full 5 Year Warranty

Every Ecodan Air Source Heat Pump comes with a full 5 year warranty as standard, subject to the following conditions:

- The Ecodan purchase and installation is registered with BDT.
- The Ecodan must be installed and commissioned by a trained BDT installer.

