E-Generation Zubadan Series

REFRIGERANT SPLIT HYDROBOX



Heating Capacity: 23.0kW
Cooling Capacity: 20.0kW

This Ecodan Zubadan Series delivers 23kW of heating even in cold conditions, maintaining its rated capacity down to -10°C for reliable home comfort. The system has refrigerant piping between the outdoor and indoor cylinder allowing for longer pipe runs, offering flexible installation, while reducing risk of freezing water pipes outside.

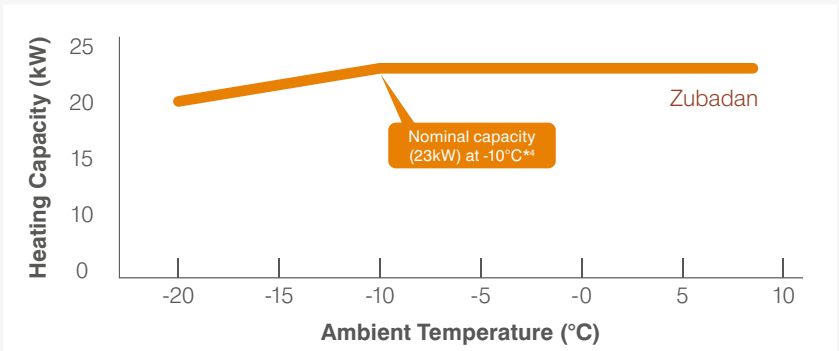
ecodan®

SPLIT HYDROBOX SYSTEM

Key Features

Zubadan Technology for Low Temperature Performance

Zubadan Technology maintains full capacity in outdoor temperatures down to -10°C.

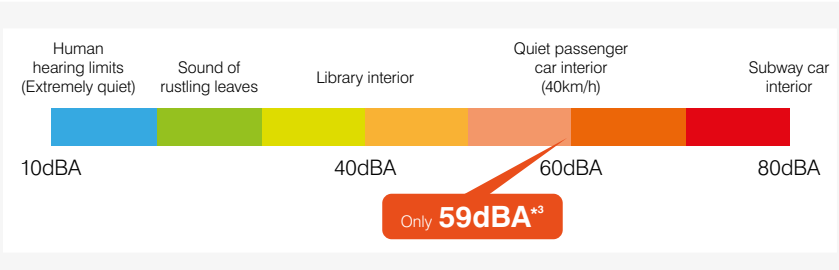


Long Pipe Length

With up to 30m of chargeless and up to 80m total piping length, there are more practical options to locate the outdoor unit.

Ultra Quiet Noise Levels

The Ecodan outdoor unit is super quiet, operating with noise level of 59dBA*3 at 1m from the unit.



High Efficiency Performance

3.65 COP*1 — Heating

3.99 COP*2 — Cooling

Ultra Quiet Operation

from 59dBA*3

*1 PUHZ-SHW230YKA2 under heating conditions at outdoor temp 7°C, outlet water temp 35°C based on EN14511 standard. Actual performance may vary depending on operating conditions.
*2 PUHZ-SHW230YKA2 under cooling conditions at outdoor temp: 35°C, outlet water temp 18°C based on EN14511 standard. Actual performance may vary depending on operating conditions.
*3 Sound pressure level in heating mode, tested to EN12102 at 1m from outdoor unit.
*4 PUHZ-SHW230YKA2 at 35°C water flow temperature.

Specifications

OUTDOOR UNIT			PUHZ-SHW230YKA2
Heating*1 (A7/W35)	Capacity	[kW]	23.00
	Power Input	[kW]	6.31
	COP		3.65
Heating*2 (A2/W35)	Capacity	[kW]	23.00
	Power Input	[kW]	9.71
	COP		2.37
Cooling*3 (A35/W18)	Capacity	[kW]	20.00
	Power Input	[kW]	5.63
	COP		3.99
Operating Outdoor Temperature Range	Heating	[°C DB]	-25 to +21
	DHW	[°C DB]	-25 to +35
	Cooling	[°C DB]	-5 to +46
Sound Pressure Level (noise)*4	SPL (Heating) at 1m	[dBA]	59
Dimensions	Width	[mm]	1050
	Depth	[mm]	330
	Height	[mm]	1338
Weight		[kg]	106
Refrigerant Data	Refrigerant Type		R410A
	Pre-charge (Up to 30m)	[kg]	7.1
	Pipe size – Gas / Liquid	[mm (in)]	25.4 (1") / 12.7 (½")
	Connection Type		Flared
	Min – Max Pipe Length	[m]	80
	Max Height Difference	[m]	30
Electrical Data	Electrical Supply		3Ph, 400V, 50Hz
	Maximum Current	[A]	26
	Fuse Rating	[A]	32

*1 Under normal heating conditions at outdoor temp: 7°CDB / 6°CWB, outlet water temp 35°C, inlet water temp 30°C as tested to EN14511.
*2 Under normal heating conditions at outdoor temp: 2°CDB / 1°CWB, outlet water temp 35°C, inlet water temp 30°C as tested to EN14511.
*3 Under normal cooling conditions at outdoor temp: 35°CDB, outlet water temp 18°C, inlet water temp 23°C as tested to EN14511.
*4 Sound measured at 1m from outdoor unit in heating mode, tested to EN12102.

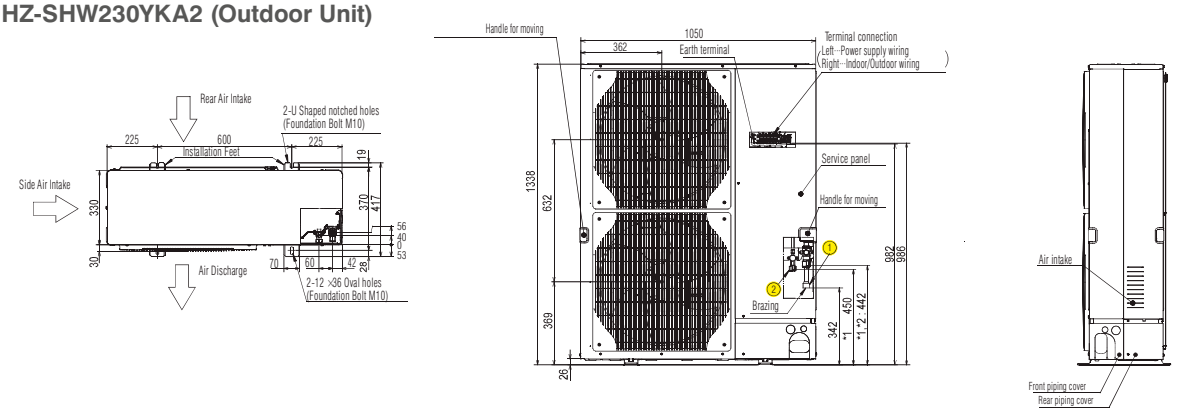
HYDROBOX				ERSE-YM9EE
Type				Split
Capacity Range	Nominal		[kW]	23
Operating Range	Heating	Flow Temperature	[°C]	20 – 60
	Cooling	Flow Temperature	[°C]	5 – 25
Water Data		Max Flow Rate (Primary)	[L/min]	65
		Connection Size (Heating / DHW)		G1–½ B
		Primary Expansion Vessel	[L]	Not included
		Charge Pressure	[Bar]	1
Water Safety Devices	Primary Circuit	Control Thermistor	[°C]	1 – 80
		Pressure Relief Valve	[Bar]	3
		Flow Sensor Min Flow Rate	[L/min]	5.0
	Booster Heater	Manual Reset Thermostat	[°C]	90
		Thermal Cut-out	[°C]	121
Dimensions		Width	[mm]	600
		Depth	[mm]	360
		Height	[mm]	950
Weight Empty / Full			[kg]	64 / 74
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		3Ph, 400V, 50Hz
		Capacity	[kW]	3 + 6
		Max Running Current	[A]	13
		Breaker	[A]	16

Hydrobox includes: Flow Temperature Controller (FTC7) with Main Controller, Water Circulation Pump, Flow Sensor and Booster Heater.

Specifications

Dimensions

PUHZ-SHW230YKA2 (Outdoor Unit)

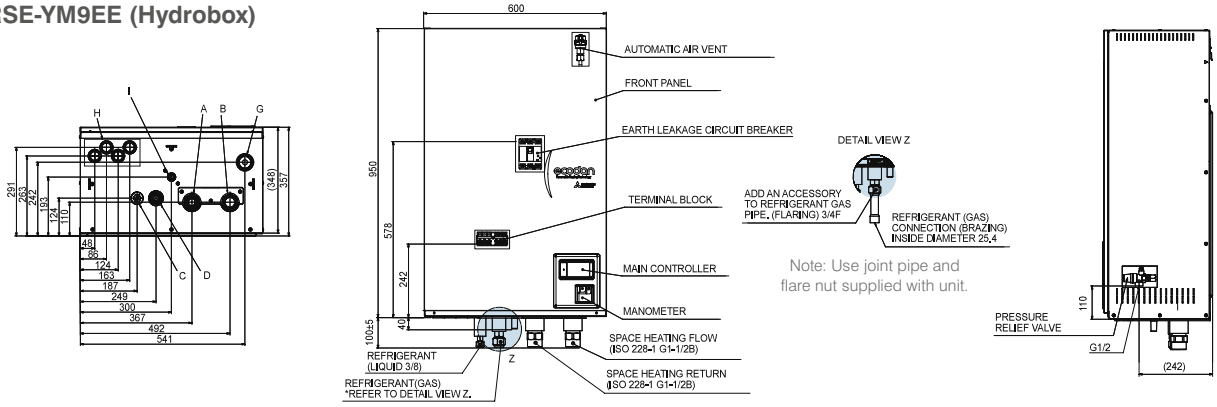


Unit: mm | View from above | Front | Side

1	Refrigerant gas pipe connection (attached joint) Ø25.4mm (brazing locally)
2	Refrigerant liquid pipe connection (flare) Ø12.7mm (½ in.)

*1 Indication of stop valve connection location.
*2 Flare – Ø19.05mm (¾ in.).

ERSE-YM9EE (Hydrobox)



Unit: mm | View from below | Front | Side

A	Space heating / indirect DHW tank (primary) return connection
B	Space heating / indirect DHW tank (primary) flow connection
C	Refrigerant (liquid)
D	Refrigerant (gas)
G	Discharge pipe (by installer) from pressure relief valve
H	Electrical cable inlets
I	Drain socket

Connections

Space Heating Flow	G1–½ B	Heat Pump Liquid	12.70mm (½ in.)
Space Heating Return	G1–½ B	Heat Pump Gas	25.40mm (1 in.) brazed

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 45 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.

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