

Residential Air to Water Heat Pump Catalogue

HYDROLUTION EZY

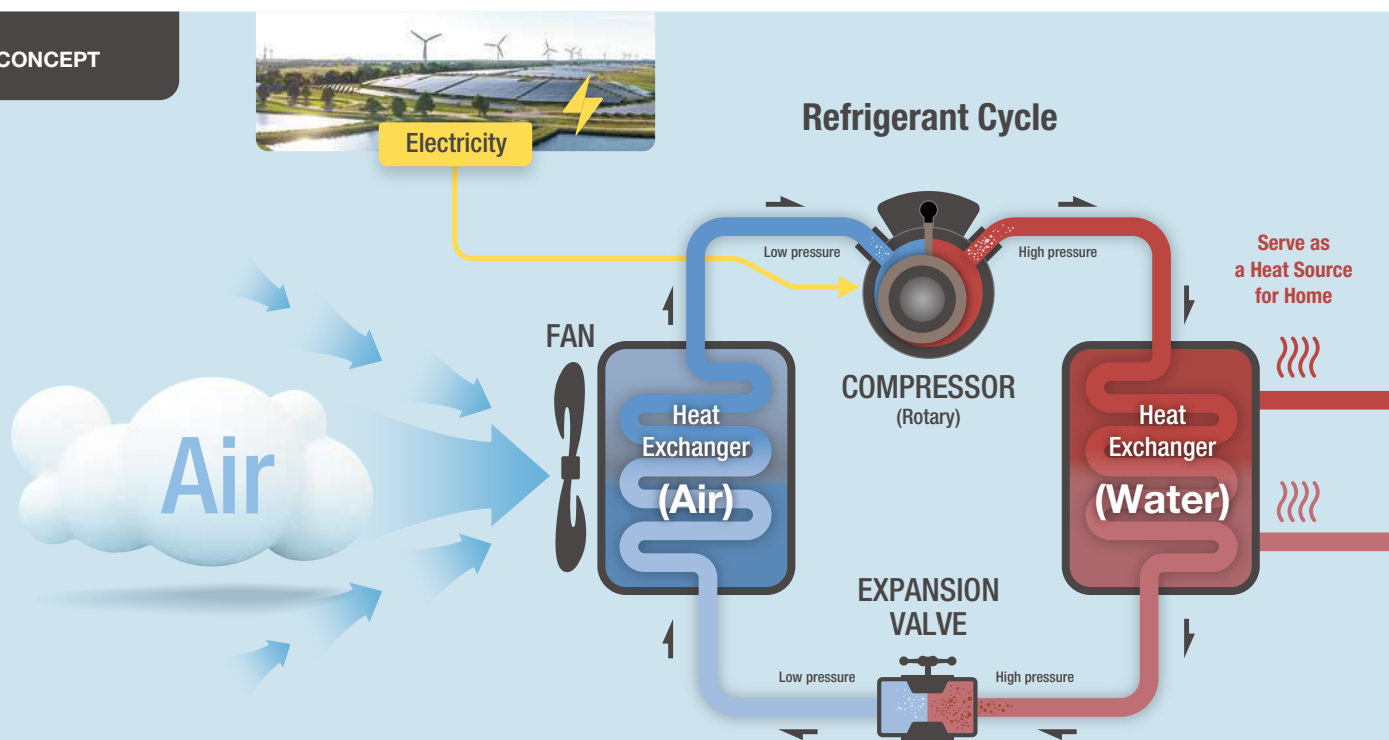


What is air to water heat pump?

Air-to-water heat pump absorbs heat from the outside air and transfers it into a building for heating and hot water. It's an energy-efficient and eco-friendly solution that uses renewable energy to reduce electricity consumption.

HYDROLUTION EZY

CONCEPT



1. Absorb Heat from Air

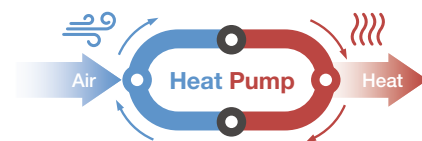
It utilises an electrically driven compressor to compress refrigerant, raising its pressure and temperature to heat water. The refrigerant then passes through an expansion valve, which reduces its pressure and temperature, allowing it to absorb heat from the surrounding air.

2. To Warm Your Home

It provides heating for your home via radiators, underfloor heating, and hot water systems. Installing a heat pump is a key step in reducing dependence on fossil fuels.

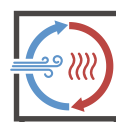
Outdoor units: FDCM

- FDCM60VNX-P
- FDCM71VNX-P



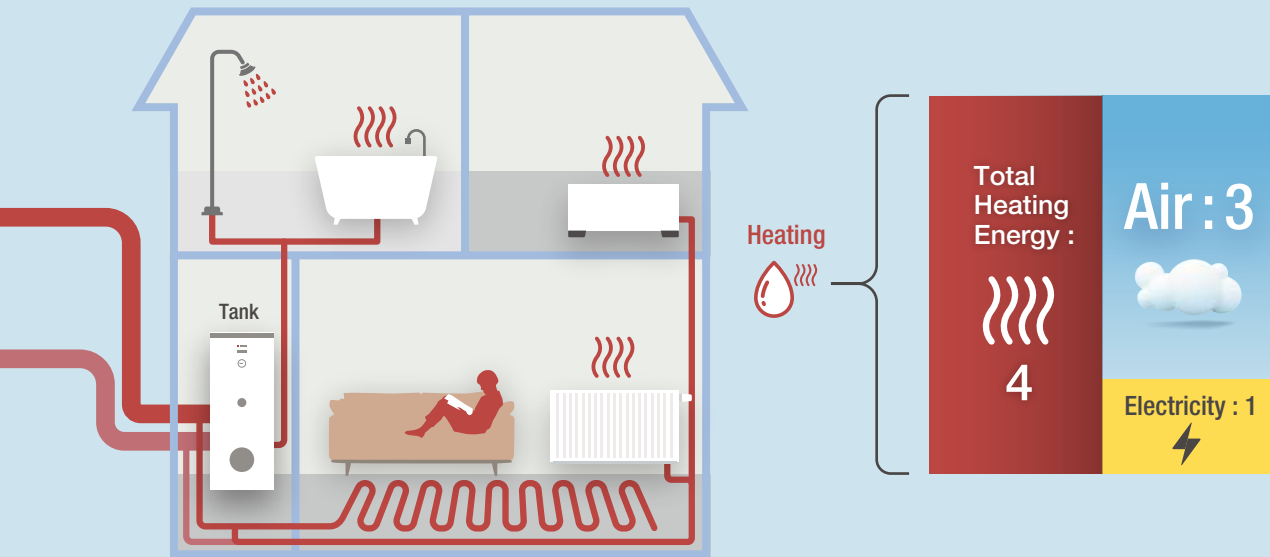
Monobloc

Air to Water Heat Pump





Your home can be heated using mostly natural energy



3. A Sustainable Alternative to Fossil Fuel

A heat pump uses just 1 unit of energy to power the compressor or fan, while extracting an additional 3-4 units from the air, making it far more energy-efficient than traditional boilers. It offers a sustainable alternative to fossil fuel-burning heating systems.

4. Natural Energy

If the electricity is sourced from renewables, heating can be powered almost entirely by natural energy.



System Lineup >>



Indoor units
• All in one - HMM100



Hot water tanks
• PT300 / PT300V2



Controllers
• RC-HY 20/40-W

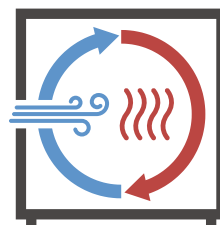


Accessories

Benefits of a Monobloc Heat Pump

Simplicity and Ease of Installation

The key advantage of a monobloc heat pump is its simplicity and quick installation. As a single, self-contained unit, it requires minimal plumbing and electrical connections. Compared to split systems, it offers a faster installation process and occupies less indoor space, with the entire unit installed outdoors.



Monobloc



1. Safe to Use

With this integration, the refrigerant is contained entirely within the outdoor unit, ensuring the safe use of A3 refrigerant.

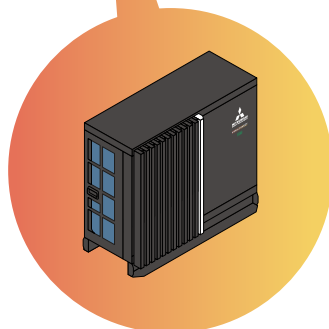


2. Easy Installation

Single unit with minimal connections, often requiring less complex installation process.

3. Time-saving Installation

Generally quicker to install than split systems due to simplified setup.



4. Space-saving

Entire unit is placed outdoors, freeing up indoor space.

5. Simple Maintenance

Only one unit to service and maintain.



Why R290 Refrigerant?

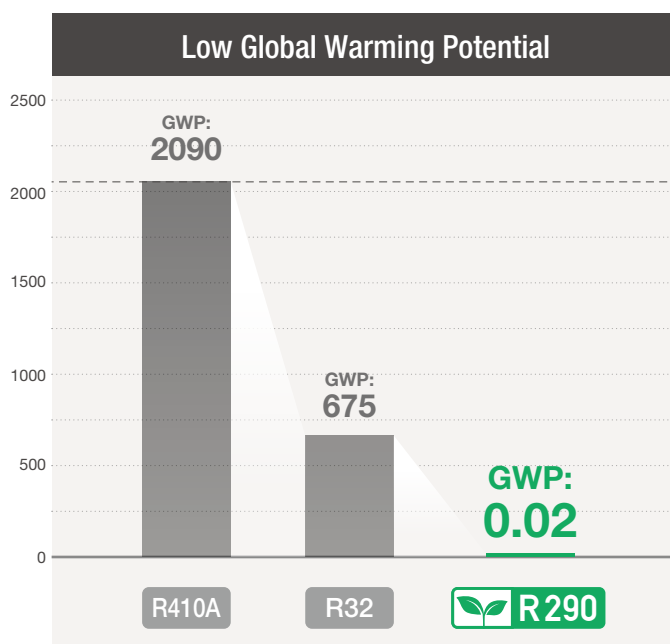
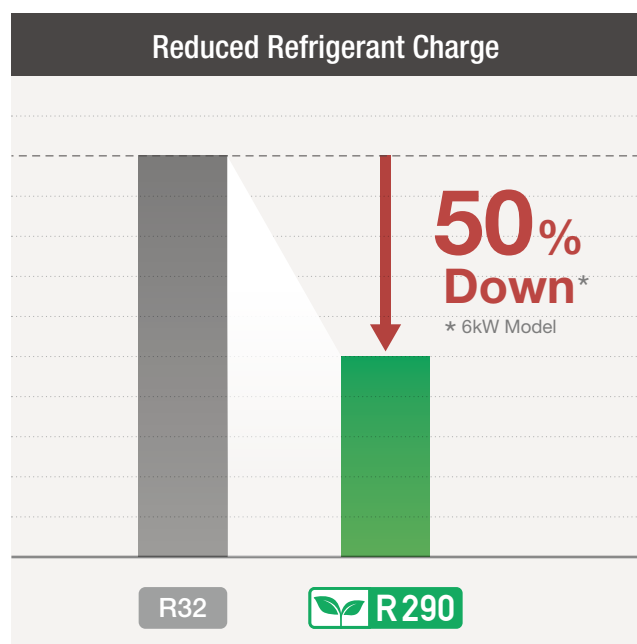
R290 – The Natural, Low-Carbon Refrigerant Solution



Unlike many traditional refrigerants, R290 has a significantly lower GWP of only 0.02 (*), making it a far more sustainable and low-carbon choice. Additionally, R290 has zero Ozone Depletion Potential (ODP), further enhancing its environmental benefits.

Refrigerant system requires smaller quantity of refrigerant compared to the previous R32, further minimizing its environmental impact.

(*) The Sixth Assessment Report (AR6) reported by the Intergovernmental Panel on Climate Change (IPCC)



Superior Thermodynamic Properties:

With its advanced thermodynamic properties and MHI technology, our new units can achieve hot water outlet temperatures of up to 75°C, making them compatible with existing, conventional heating systems such as radiators.



75°C

Fit for high hot water temperature usage

Key Benefits of R290 Refrigerant:

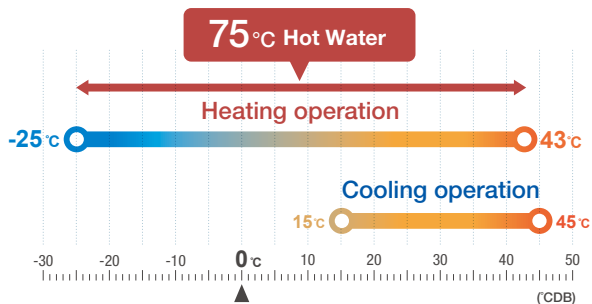
Its thermodynamic properties enable efficient heat transfer and lower energy consumption, resulting in a higher Coefficient of Performance (COP) compared to many other refrigerants. This leads to reduced operating costs and a smaller carbon footprint, allowing for greater heating output with less energy input.

Key Features

75°C Hot Water Down to -25°C

The MHI Hydrolution EZY can produce hot water at an outlet temperature of up to 75°C, even when the ambient air temperature drops as low as -25°C, providing reliable warmth even in cold climate regions.

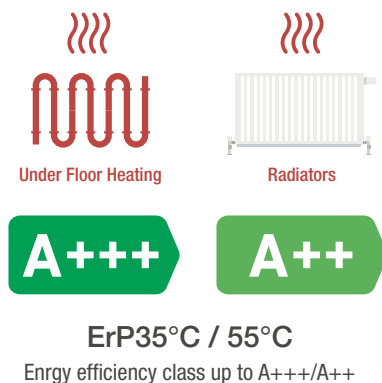
Our new advanced technology has expanded the heating and cooling operation range from -25°C to 43°C in heating and 15°C to 45°C in cooling mode. With the refinement of the proprietary compressor, the unit reliably delivers hot water at up to 75°C and operates within a wide temperature range of -25°C to 43°C, ensuring hygienic use in all seasons.



High SCOP of 4.75 (Seasonal Coefficient of Performance)

(*) 6kW model Low temp average
(Condition is referred to COMMISSION REGULATION (EU) No 813/2013.)

The MHI Hydrolution EZY boasts a SCOP of 4.75, meaning it can produce (extract) 4.75 units of heat energy from just 1 unit of electrical energy input making it a efficient sustainable way to heat your home.



Extracting warmth from outside air



SCOP: 4.75

(*) 6kW model
Low temp average
(Condition is referred to
COMMISSION REGULATION (EU)
No 813/2013.)

Heating



Total
Heating
Energy :

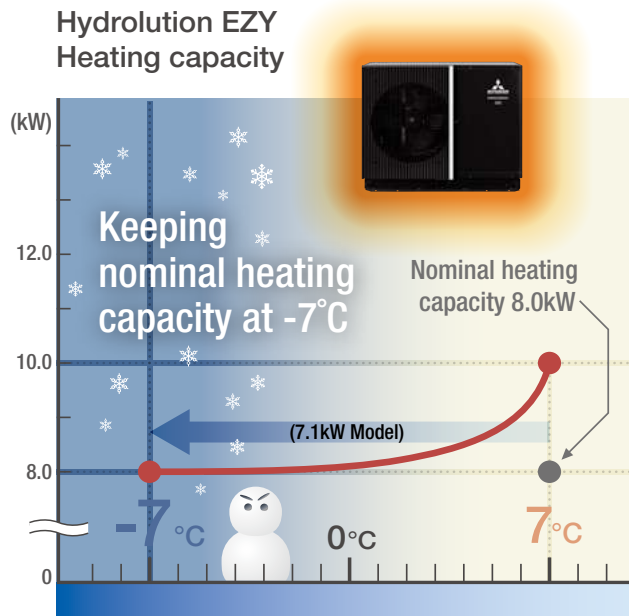
4

Air : 3

Electricity : 1

Powerful Heating

The unit can operate at its nominal heating capacity even when the temperature drops to -7°C , ensuring reliable and a powerful performance on cold days.



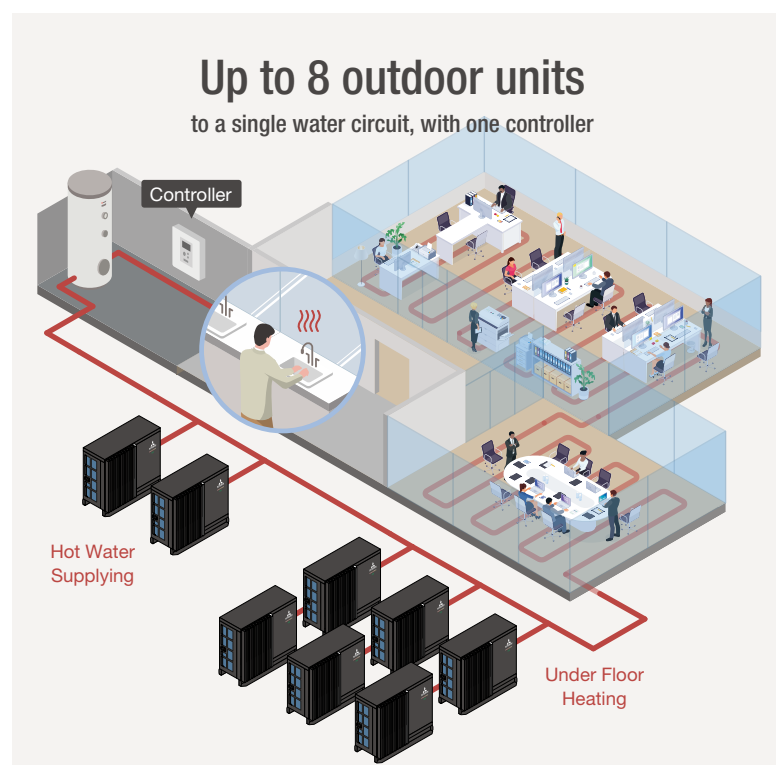
Reversible Heat Pump

The MHI Hydrolution EZY is a versatile, reversible system that delivers both hot and cold water, making it ideal for year-round comfort. Engineered for high efficiency, it ensures reliable cooling performance even in outdoor temperatures up to 45°C .



Cascade System

Up to 8 outdoor units can be connected to a single water circuit and controlled with one controller. Rotation operation ensures equal runtime for all units offering heating and hot water solutions to building that requires large capacities, which covers multi-room application or light-commercial use.



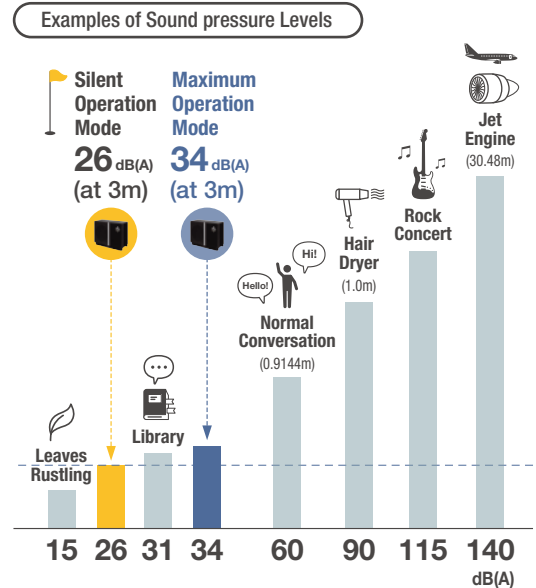
Silent Operation

26dB(A) in Silent Operation Mode

In the EU, strict noise regulations are in place to ensure the comfort and well-being of residents, particularly in densely populated residential areas. Outdoor units must meet these standards to avoid disturbing homeowners and their neighbours.

MHI's Hydrolution EZY series is designed to comply fully with these regulations while providing reliable heating solutions that maintain peace and quiet in your living environment.

With its silent operation mode, the sound pressure level at a distance of 3 meters is as low as 26 dB(A), equivalent to the quietness of a recording studio. Even during maximum operation, the sound power level measured directly from the unit is limited to just 58 dB(A).



Difference Between Sound Power Level and Sound Pressure Level

◎ Sound Power Level (PWL):

The total sound energy **produced by the unit itself**, regardless of distance or surroundings.

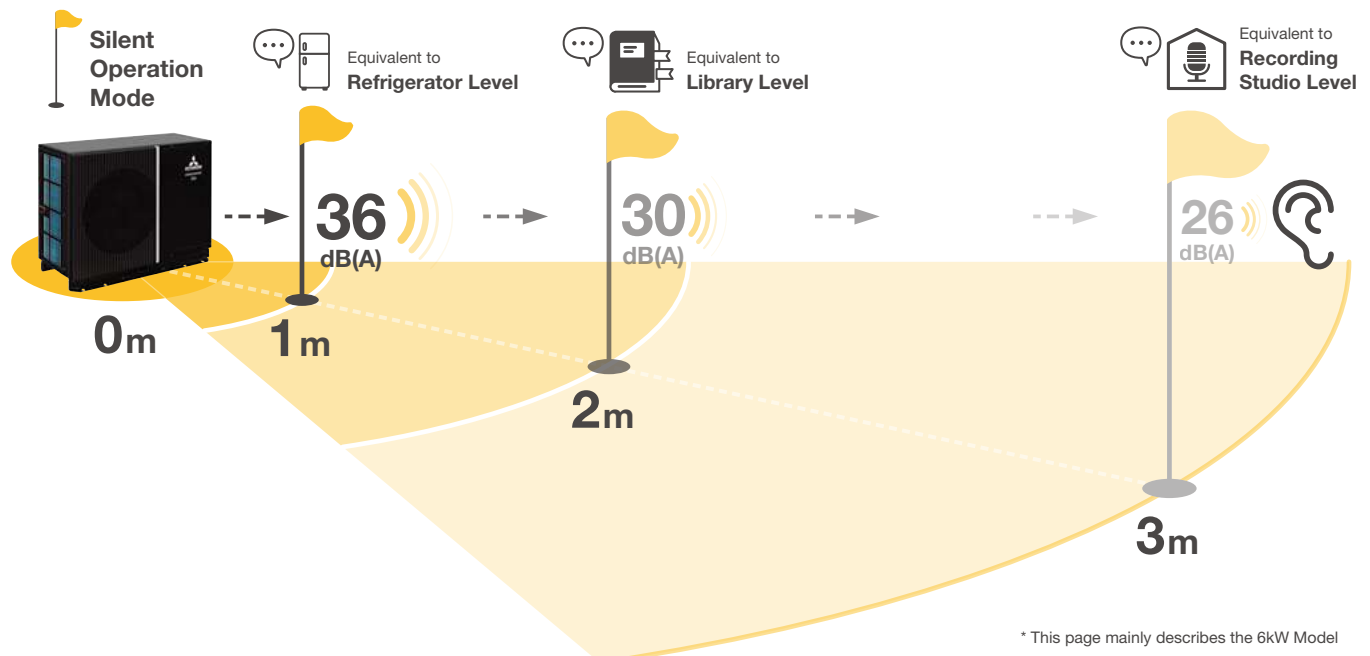


◎ Sound Pressure Level (SPL):

The sound **heard at a specific distance**, which changes depending on location and environment.



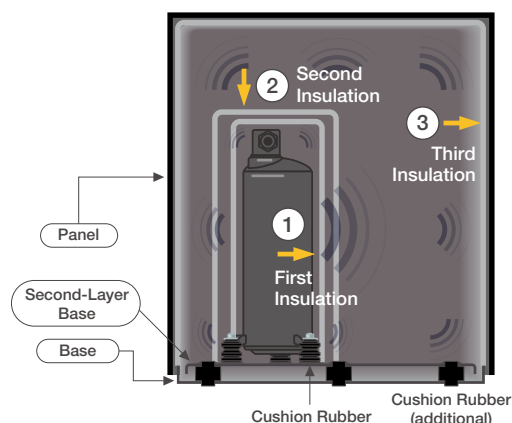
Sound Pressure Level (SPL) of 6kW Model



* This page mainly describes the 6kW Model

MHI Technology Features:

- The compressor is elevated with a cushion rubber, separating it from the base to prevent noise caused by contact with the base metal.
- Additionally, it is enclosed in two layers of anti-vibration insulation, effectively reducing the noise level.
- The insulation applied all over the back surface of the panel also functions as a sound absorber, contributing to the unit's silent operation.

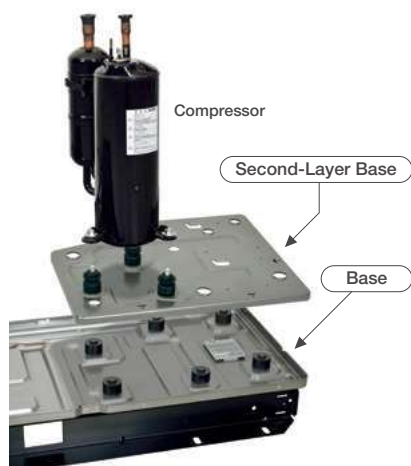


Anti Vibration Technology

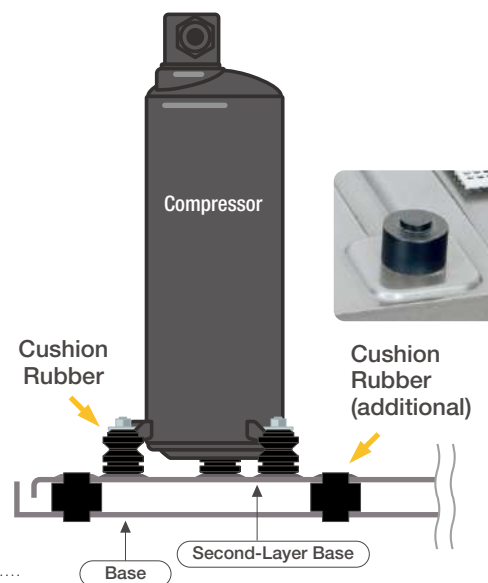


Vibration Control

Cushion Rubber

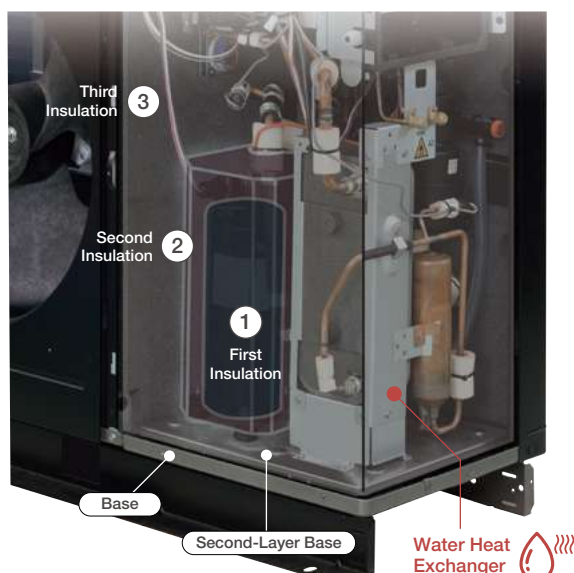


The compressor is elevated with a cushion rubber. The second-layer base is also elevated with an additional cushion rubber from the base.



Noise Reduction

Three insulations Applied



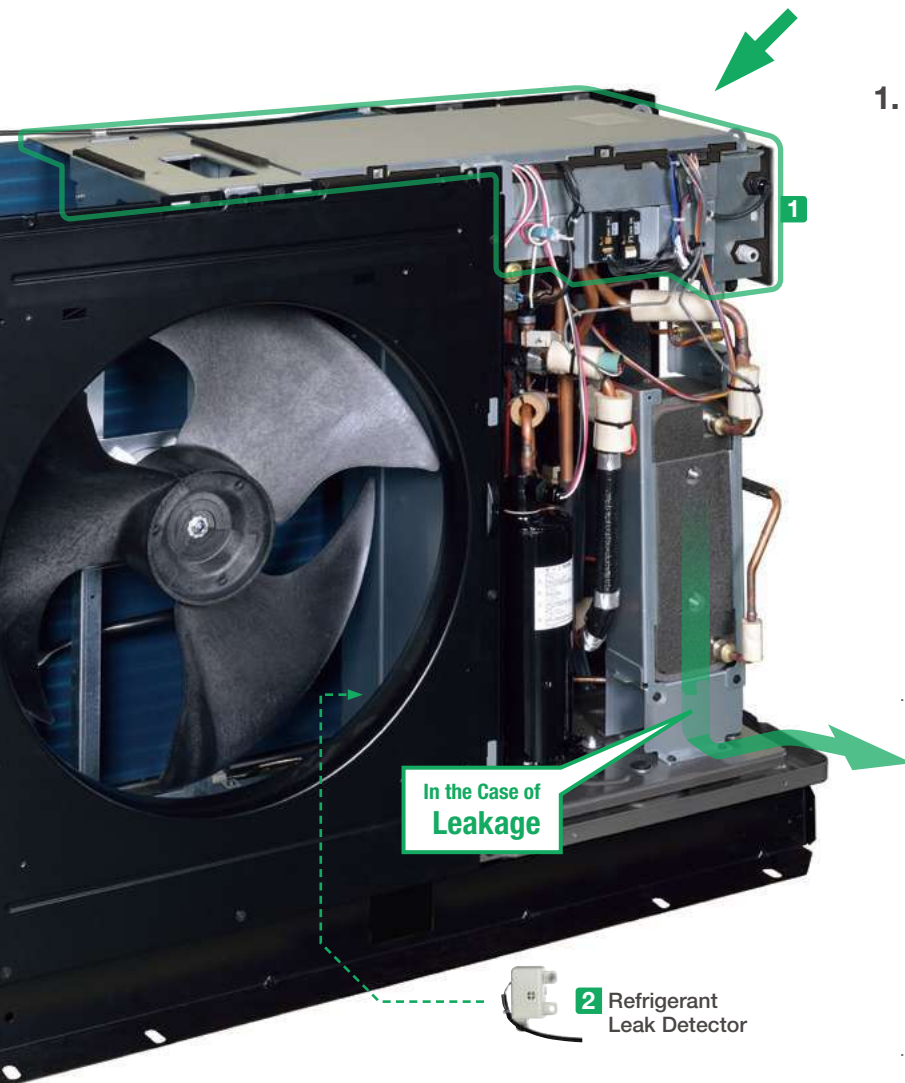
Additionally, the system includes silent operation, which further reduces operational noise, ensuring compliance with EU noise regulations and delivering a solution that is considerate to your neighbours as it is efficient for your home.

How Safety Is Ensured

Safety Features of Hydrolution EZY

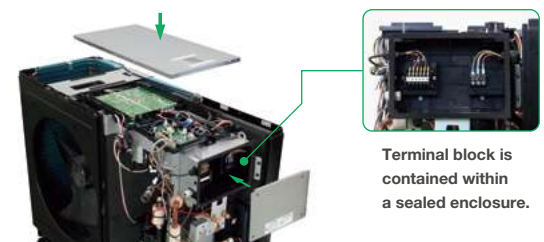
Hydrolution EZY is equipped with robust, multi-step safety measures to prevent any potential failures, even in the event of a refrigerant leak from the circuit.

This ensures customer safety while utilizing the full performance potential of A3 refrigerants.

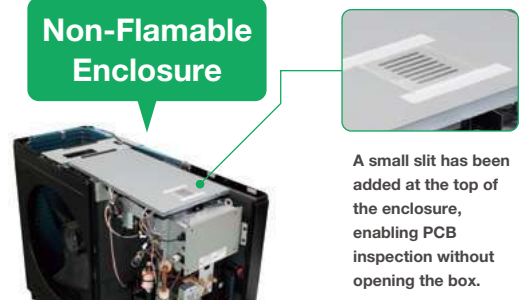


1. Non-Flammable Enclosure at The Top

The PCB and terminal block are housed in a non-flammable enclosure, strategically placed at the top of the outdoor unit. The explosion-proof relay cable is also adopted to further mitigate the risk. This design minimizes the risk of refrigerant entering these components.



Non-Flammable Enclosure



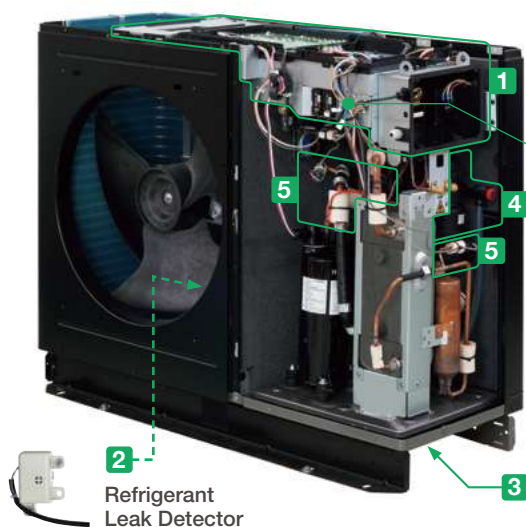
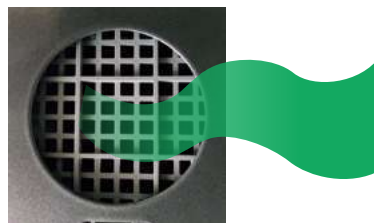
2. Refrigerant Leak Detector

The unit is equipped with a refrigerant leak detector. If a leak occurs, the unit automatically shuts down, and an alarm is triggered on the indoor controller to alert the homeowner. Additionally, the fan is activated to disperse the leaked refrigerant around the outdoor unit for safety.



3. Leak Checks Bottom Hole

A vent hole is provided at the bottom of the unit's machinery room to ensure the smooth removal of any leaked refrigerant. This also allows service personnel to easily check for leaks through the hole.



Outside DIP-Switch



Easy and safe maintenance
No need to touch or access to refrigerant circuit and electrical box to change the setting in installation or service work.



4. Gas Separator with pressure release valve

A gas separator within the unit prevents refrigerant from reaching the indoor unit in the event of a refrigerant leak through the water piping, adding an extra layer of safety.



5. Pressure Sensor

The unit is equipped with two pressure sensors and a high-pressure switch to monitor pressure levels during operation, ensuring the prevention of any malfunctions.



Exterior

Jet-black Exterior

The Hydrolution EZY series features a sleek, jet-black exterior that complements its environment. Its design effortlessly blends into contemporary urban spaces and various settings, all while standing out with a bold and impactful presence.



Design Elements

The following design elements were carefully considered to shape the overall appearance of the unit.

1. Silver Lining



The design of the unit features a striking jet-black panel, complemented by a sleek silver lining. This carefully considered detail not only enhances the overall look but also contributes to a refined, contemporary aesthetic. The combination of bold black with the subtle silver accents adds a touch of elegance, ensuring the unit stands out while seamlessly blending into its surroundings.

2. Fan Guard Design



The fan guard is meticulously crafted with a smooth matte texture, designed to enhance aerodynamics while effectively concealing the fan from diagonal views.

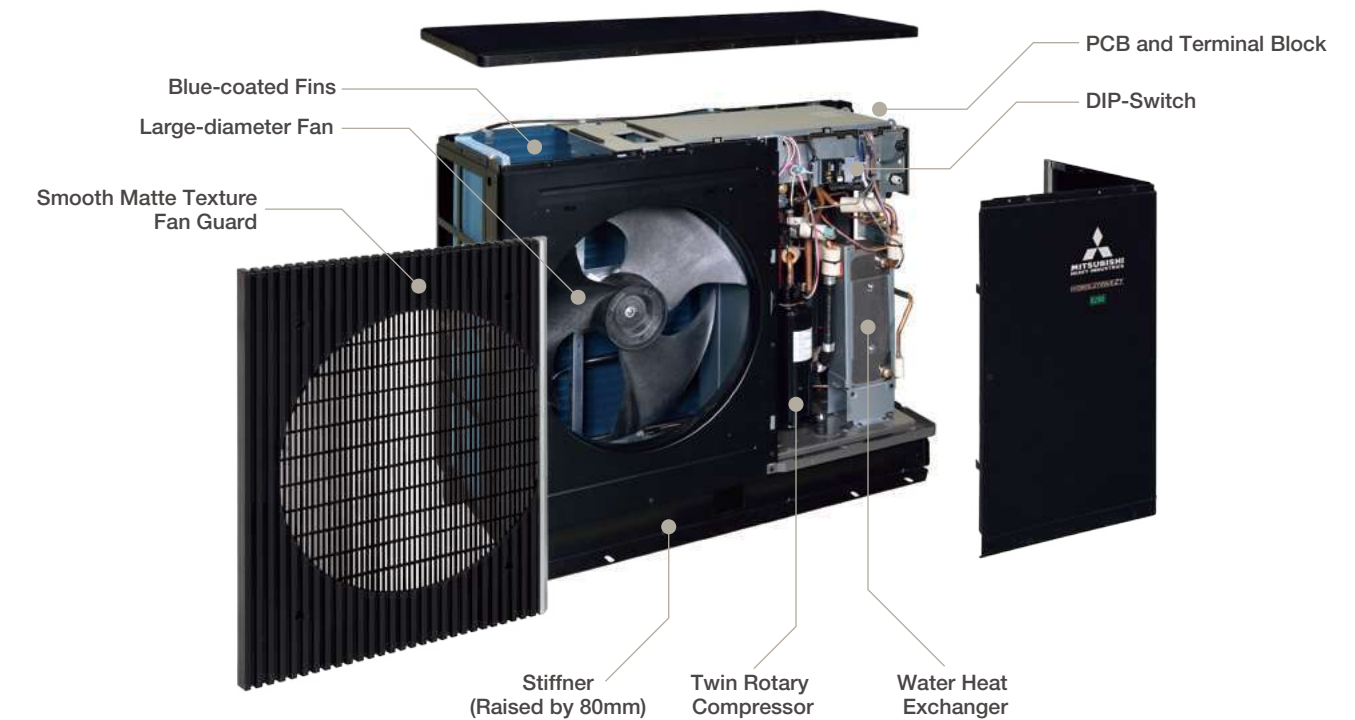
Positioned just above the panel, at the same height as the front panel, it adds a sense of dynamism and structure to the overall design.

The top of the fan guard is indented, aligning perfectly with the vertical lines of the front panel. This thoughtful design choice not only ensures a cohesive and unified appearance but also avoids creating a flat, monotonous look, contributing to a visually engaging and sophisticated unit.



Key Components

MHI products deliver outstanding efficiency through advanced engineering expertise developed over decades of innovation across a wide range of industries. This legacy of manufacturing excellence ensures each component is carefully designed to optimise performance while reducing energy consumption, reflecting a commitment to sustainable and high-performing solutions.



MHI Proprietary Compressor

The highly efficient compressor, featuring a twin rotary structure, is expertly crafted for R290 refrigerant.

The compressor's rotation speed ranges from 12 to 130 rps, enabling precise performance control.

Precise performance control with wide rotation speed range



Compact DC Twin Rotary Compressor

Compared to previous models, the compressor has been downsized for greater versatility. The compressor operates efficiently due to the optimization of refrigerant oil, the enhanced designed blade, with a special coating for low friction and high wear resistance. With this the unit reliably delivers hot water at up to 75°C and operates within a wide temperature range of -25°C to 43°C.



Compression part



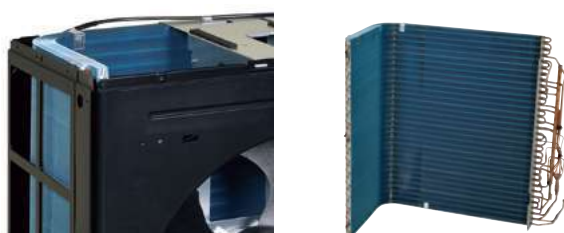
Concentrated winding motor

With Concentrated winding motor Seasonal Efficiency has been improved. Manufactured with advanced abrasive machining techniques to achieve micron-scale precision by MHI.

Corrosion Resistance

Blue-coated Fins

The new outdoor unit features blue-coated fins on its heat exchanger, providing enhanced protection against corrosion. Since the unit functions as both an evaporator and a condenser, the blue coating also helps manage moisture that forms during heat exchange, ensuring long-lasting performance and durability in varying environmental conditions.



Steel Base

Steel sheet hot-dip galvanized primarily composed of zinc (Zn) with aluminum (Al) and magnesium (Mg). Providing excellent corrosion resistance. The sheet is also coated with a paint, making it highly resistant to rust.



For Extremely Cold Regions

Drain Pan Heater

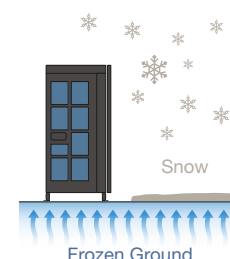
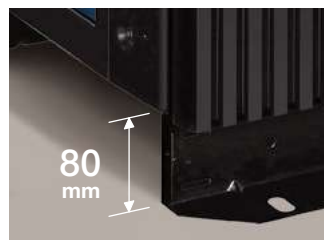
A drain pan heater is provided to prevent accidents during operation in extremely cold regions. It prevents



icicles forming on the drain pan from coming into contact with the fan and causing damage.

Stiffner

With the stiffner, the base of the unit has been raised by 80mm, preventing the unit from freezing due to direct contact with frozen ground and snow accumulation.



Efficiency

DC Motor & Fan

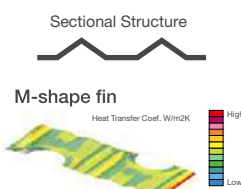
A high-performance DC motor combined with a newly designed large-diameter fan delivers exceptional efficiency while maintaining quiet operation. This combination enhances airflow and reduces noise levels, contributing to the unit's overall energy



performance and acoustic comfort.

Heat Exchanger

The M-shaped fins are engineered to optimize both heat transfer and airflow resistance, delivering high performance and efficiency across a wide range of climate conditions. This design ensures consistent operation and reliable comfort year-round.



Coated PCB

The coated Printed Circuit Board (PCB) is built for durability, offering enhanced resistance to humidity and environmental factors. This protective design ensures long-lasting, reliable performance even in challenging conditions.



Specifications



HYDROLUTION EZY

Air to water heat pump outdoor unit

6kW / 7.1kW models • FDCM60VNX-P • FDCM71VNX-P

Hydrolution EZY Key Benefits:

- Uses environmentally friendly R290 refrigerant
- Low noise level of 26dB(A)^(*)(⁽⁴⁾) in silent operation mode
- High energy efficiency with LOT1 energy class A+++
- High SCOP of 4.75 ^(*)(⁽⁴⁾)
- 100% hydraulic connections with water pipe
- Remote monitoring via myUplink platform
- Compatible with photovoltaic (PV) solar panel integration ^(*)(⁽²⁾)
- Supports connection of up to 8 outdoor units ^(*)(⁽²⁾)
- Pool and solar heating compatibility ^(*)(⁽²⁾)
- Connectable to external monitoring systems via Modbus® ^(*)(⁽²⁾)
- Smart Grid Ready (SG Ready) ^(*)(⁽²⁾)

(*) : measured from 3m (2) : Accessory required (3) : Modbus is a registered trademark of Schneider Electric and is used herein for reference purposes only (4) : for 6kW model

Model			FDCM60VNX-P	FDCM71VNX-P
Power source			1 phase 230V 50Hz	
Heating nominal capacity ^(**1)	Condition 1	kW	5.50	8.00
	Condition 2	kW	5.50	8.00
COP	Condition 1	—	3.77	3.79
	Condition 2	—	5.14	4.49
Cooling nominal capacity ^(**1)	Condition 1	kW	5.30	7.00
	Condition 2	kW	7.50	9.00
EER	Condition 1	—	3.03	3.11
	Condition 2	—	3.66	4.09
Seasonal Space Heating Energy Efficiency class (W35/W55)			A+++ / A++	A+++ / A++
Seasonal Space Heating Energy Efficiency (W55) SCOP, η _s (%)			3.60, 141%	3.60, 141%
Seasonal Space Heating Energy Efficiency (W35) SCOP, η _s (%)			4.75, 187%	4.61, 181%
Operation range (Ambient temperature)	Heating	°C	-25 – 43	-25 – 43
	Cooling	°C	15 – 45	15 – 45
Operation range (Water outlet temperature)	Heating	°C	25 – 75	25 – 75
	Cooling	°C	5 – 25	5 – 25
Max Current			13	16
Sound power level ^(**2)			55	60
Sound power level (Max)			58	62
Sound pressure level Nom. at 1m			41	49
Refrigerant (GWP)			R290, 0.02	
Refrigerant volume, CO ₂ Eq.			0.65 / 0.000013	0.85 / 0.000017
Dimensions (H x W x D)			916 x 1160 x 440	
Weight			82	90
Water pipe connection			G1" external thread	

(**1) : Condition 1 and 2 correspond to the specifications in the "Test conditions" table.

(**2) : Measured in accordance with EN12102, water conditions of EN14825

Test conditions		Water Temperature	Ambient Temperature
Heating	Condition 1	45°C _{out} / 40°C _{in}	7°C _{CDB} / 6°C _{CWB}
	Condition 2	35°C _{out} / 30°C _{in}	
Cooling	Condition 1	7°C _{out} / 12°C _{in}	35°C _{CDB}
	Condition 2	18°C _{out} / 23°C _{in}	



Indoor units • All in one - HMM100

Model		HMM100
Power source	kg	3 phase 400V 50Hz / 1 phase 230V 50Hz
Dimensions (H × W × D)	mm	1670 × 600 × 610
Weight (without water in the system)	kg	150
Tank surface	–	Enamel Coated
Tank volume total	liter	180
Volume expansion vessel	liter	10
Dimensions, climate system pipe	mm	22
Water pipe connections	–	Compression fittings
Immersion heater	kW	Max. 9 kW (6kW for single-phase 230V)
Max current	A	13 (400V) / 26 (230V)



PT300

Hot water tanks • PT300/300-V2

Model		PT300	PT300-V2
Power source	–	–	–
Volume	liter	279	285
Volume of coil	liter	9.4	16
Immersion heater	kW	Not included	Not included
Dimensions (H × W × D)	mm	1634 × 673 × 743	1705 × 673 × 785
Weight	kg	115	133
Dimensions, climate system pipe	inch	G1" external thread	
Dimensions, hot water pipe	inch	G1" external thread	
Inner Surface	–	Enamel	
Design Pressure Tank	Bar	10	
Design Pressure Coil	Bar	16	
Energy Class	–	C	C



Controllers • RC-HY20/40-W

Model		RC-HY20-W	RC-HY40-W
Power source	–	1 phase 230V 50Hz	
Dimensions (H × W × D)	mm	400 x 354 x 123	
Weight	kg	4.3	4.4
Ambient temperature	–	5 – 35 °C	
Max. number of air/water heat pumps	–	1	8
Max. number of sensors	–	8	8
Max. number of charge pumps with internal accessory cards	–	1	4
Max. number of charge pumps with external accessory cards	–	–	8
Max. number of outputs for additional heat step	–	3	3
Internet connection function	–	Included (myUplink)	
Language	–	English, Swedish, German, French, Spanish, Finnish, Lithuanian, Czech, Polish, Dutch, Danish, Estonian, Latvian, Russian, Italian, Slovenian, Romanian, Portuguese, Bulgarian, Croatian, Icelandic, Hungarian, Norwegian, Turkish, Ukrainian	

Accessories

ECS40M/ECS41M



HMM100
RC-HY40-W

Extra mixing valve set, including a room sensor, for adjusting temperature in several climate systems. (e.g. A radiator system and an underfloor heating)

Contents

4 x Cable ties	2 x Aluminium tape
1 x Circulation pump	1 x Insulation tape
1 x Shunt motor	2 x Replacement gasket
1 x 3-way valve	2 x Temperature sensor
1 x Kit for accessory card	1 x Room sensor
2 x Heating pipe paste	

ECS40M for maximum 80m² floor heating

ECS41M for 80-250 m² floor heating

RTS40M



Room sensor
RC-HY40 and HMM
include one sensor

RC-HY 20-W
RC-HY40-W
HMM100

AXC30M



Accessory card

HMM100
RC-HY40-W

RMU40M



Room
sensor/controller with
multicolour display

HMM100
RC-HY40-W

VST05M / VST11M / VST20M



RC-HY20-W
RC-HY40-W

Reversing valve for using hot water accessories and prioritising hot water demand.

VST05M
(Ø 22mm, Max.electric charge output: 11kW)

VST11M
(Ø 28mm, Max.electric charge output: 17kW)

VST20M
(DN32, (1¼"), Max.electric charge output: 40kW)

POOL40M



Enables pool heating
with the heat pump.
Max. output - 17 kW

RC-HY40-W
HMM100

EME20M



Enables communication
and control between the
inverter for solar cells
and heat pump/indoor
module/control module.

RC-HY20-W
RC-HY40-W
HMM100

SOLAR42M



Enables solar heating
with the heat pump.

RC-HY40-W
HMM100

VCC05M / VCC11M



RC-HY20-W
RC-HY40-W

Reversing valve for
changing operation of
cooling and heating.

VCC05M (Ø 22mm)
VCC11M (Ø 28mm)

MODBUS40M



RC-HY40-W
HMM100

Control and monitor the
heat pump system by
external
Modbus-equipped
equipment.

EMK300M / EMK500M



RC-HY40-W
HMM100

Energy measurement kit for
measuring the flow and
temperature differences in the
charge circuit. Information can
be shown on RC-HY40's display.

EMK300M
(Measurement range 5.0-85 l/min)

EMK500M
(Measurement range 9.0-150 l/min)

Anode M300

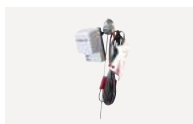


PT300
PT300-V2

Magnesium anode chain

Anode M300 for PT300
(Ø26 x 8 pieces (G1"))

Anode T300



PT300
PT300-V2

Anode titanium complete

Anode T300 for PT300
(Length: 200mm, G¾", 230V)

HR10M



PT300
PT300-V2

Relay for ME1030M
Used to control external 1 to
3phase loads such as oil
burners, immersion heaters
and pumps.

ME1030M



PT300
PT300-V2

Immersion heater
designed to heat up
domestic hot water
installations.
(3kW, G1½" , 230V)

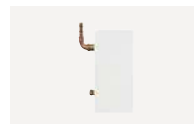
CPD11-25M/65



RC-HY20-W
RC-HY40-W

DC Motor controlled
water pump.

ELK9M1

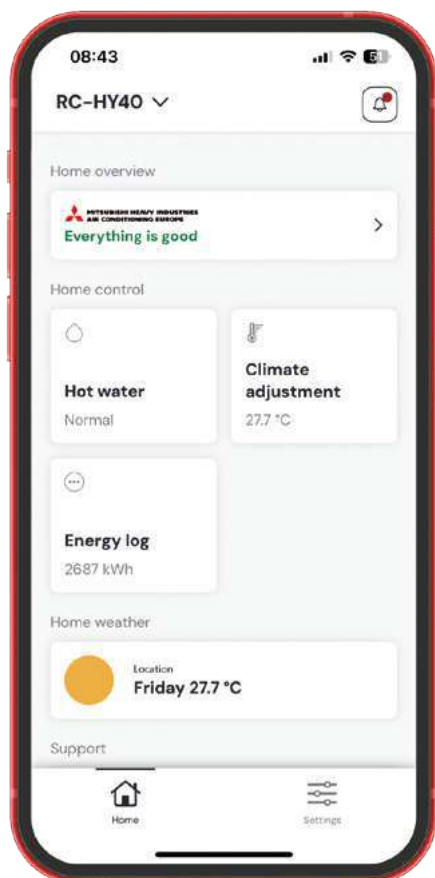


RC-HY20-W
RC-HY40-W

Immersion heater that
can be used to
supplement the heating
capacity of heat pumps.
Power source: 1~230V
50Hz or
3~400V 50Hz
Output: 4.5 or 9 kW

Remote Monitoring

Stay in Control with myUplink



**Download
the App today**



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The Ultimate App for remote monitoring

The Hydrolution EZY air-to-water unit seamlessly interfaces with an independent remote monitoring system via the myUplink platform, a dedicated application tailored for users.



Independent Remote Monitoring System:

This sophisticated system empowers users to remotely oversee and control the Hydrolution EZY unit, enabling real-time monitoring of its performance, identification of maintenance requirements, and ensuring optimal efficiency.

Experience enhanced control and monitoring with myUplink:

Status Overview:

Get a quick and comprehensive view of your heat pump's status.

Heating Level Control:

Easily manage and adjust the heating and hot water production to your desired comfort level.

Instant Notifications:

Receive push notifications and emails if your system is impacted, ensuring you're always in the know and can take prompt action.

myUplink Key Benefits:

- Real time monitoring and control of heating, hot water, pool, solar and heat pump operation
- Real time alarm information
- Cloud based software update
- Clear and intuitive heating and hot water temperature monitoring
- Easy-to-use control system for maximum comfort, no matter where you are -
Weather forecast compensation

Before starting use

Heating performance

The heating performance values (kW) described in the catalogue are the values obtained by operating at an outdoor temperature of 7°C as set forth in the ISO Standards.

Heating performance is reduced as the temperature drops. If the outdoor temperature is too low and the heating performance is insufficient, use other heating appliances as well.

Indication of sound values

The sound values are the values (A scale) measured in a chamber such as an anechoic chamber following the ISO Standards. In the actual installation state, the value is normally larger than the values given in the catalogue due to the effect of surrounding noise and echo. Take this into consideration when installing.

Use in oil atmosphere

Avoid installing this unit in an atmosphere where oil scatters or builds up, such as in a kitchen or machine factory.

If the oil adheres to the heat exchanger, the heat exchanging performance will drop, mist may be generated, and the synthetic resin parts may deform and break.

Use in acidic or alkaline atmosphere

If this unit is used in acidic atmosphere such as hot spring areas having high level of sulfuric gases or in alkaline atmosphere including ammonia or calcium chloride, places where the exhaust of the heat exchanger is sucked in, or at coastal areas where the unit is subject to salt breezes, the outer plate or heat exchanger, etc., will corrode. Please ask a dealer or specialist when you use an air-conditioner in places differing from a general atmosphere.

Refrigerant leakage

The refrigerant (R290) is non-toxic but flammable. Please consult with a dealer about the installation place.

Use in snowy areas

Take the following measures when installing the outdoor unit in snowy areas.

· Snow prevention

Install a snow-prevention hood so that the snow does not obstruct the air intake port or enter and freeze in the outdoor unit.

· Snow piling

In areas with heavy snow fall, the piled snow could block the air intake port. In this case, a frame that is 50cm or higher than the estimated snow fall must be installed underneath the outdoor unit.

Automatic defrosting device

When the ambient temperature is low and humidity is high, frost will sitck on the outdoor unit heat exchanger. If the unit continues to operate under there conditions, heating performance will decrease, frost buildup will persist and defrosting will be required.

The defrost process can take from 3 to 10 minutes and during this period heating is paused. Once this process is finished, the unit will return to its normal operation.

Servicing

After the heat pump has been used for several seasons, dirt will build up in the unit causing the performance to drop. In addition to regular servicing, a maintenance contract by a specialist is recommended.

Safety Precautions

Target use

The heat pump described in this catalogue is a dedicated cooling/heating device for human use.

Do not use it for special applications such as the storage of food items, animals or plants, precision devices or valuable art, etc.

This could cause the quality of the items to drop, etc.

Do not use this for cooling vehicles or ships. Water leakage or current leaks could occur.

Before use

Always read the "User's Manual" thoroughly before starting use.

Places

Do not install in places where combustible gas could leak or where there are sparks. Keep away from places where combustible gas could be generated, flow or accumulate, or locations containing carbon fibres, otherwise there is a danger of fire.

Installation

Installation must be carried out in accordance with current norms and directives. Current regulations require the inspection of installation before commissioning. The inspection must be carried out by a suitable qualified operative and this should also be documented. Improper installation will lead to refrigerant leakage, electric shocks, fires and other serious complications. Make sure the indoor unit and the outdoor unit are installed correctly and fixed on a stable base.

Certified ISO 9001



Mitsubishi Heavy Industries - Mahajak Air Conditioners Co., Ltd. has been certified of Quality Management System in Accordance with ISO 9001 by TUV NORD (Thailand) Ltd.

Certified ISO 14001



Mitsubishi Heavy Industries - Mahajak Air Conditioners Co., Ltd. has been certified of Environmental Management System in accordance with ISO 14001 by TUV NORD (Thailand) Ltd.



Mitsubishi Heavy Industries Thermal Systems, Ltd.

(Wholly-owned subsidiary of MITSUBISHI HEAVY INDUSTRIES, LTD.)

2-3, Marunouchi 3-chome, Chiyoda-ku, Tokyo, 100-8332, Japan

<https://www.mhi-mth.co.jp/en/>

Because of our policy of continuous improvement, we reserve the right to make changes in all specifications without notice.

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