ORCA®

HEAT PUMPS FOR HEATING
AIR-TO-WATER

Product catalogue

Decades of cooling.
Decades of comfort.

Are you missing out on life

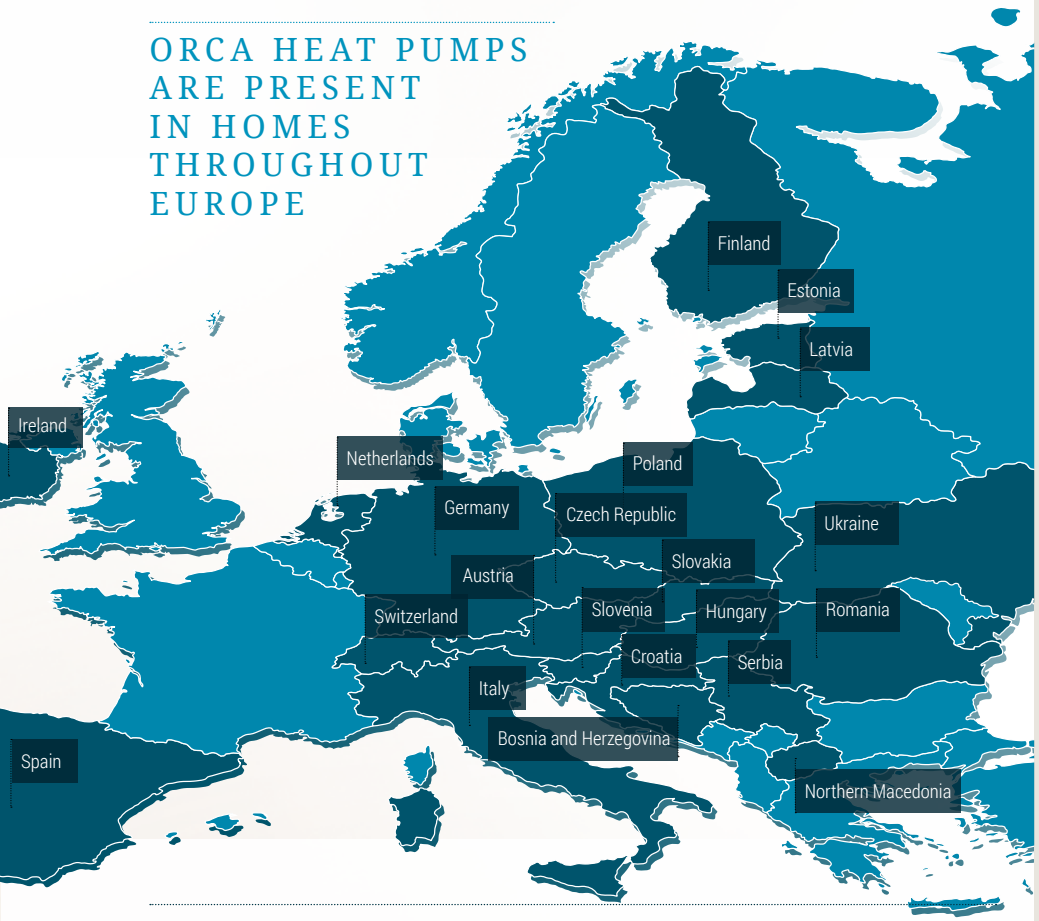
because of unnecessary heating costs?

Have you ever thought about what you're giving up simply because you have to pay so much for heating? Put an end to it with Orca Heat Pumps. *Your heating costs can be reduced by up to 75 %.*

up to **75%**

REDUCTION IN COSTS

ORCA HEAT PUMPS ARE PRESENT IN HOMES THROUGHOUT EUROPE



Orca is already responsible for heating over 15,000 homes.

Orca Heat Pumps exceed the most rigorous European quality standards, certified by some of the most important independent technical institutes in the EU.[1]

European Quality Label for Heat Pumps ehpa

Eko sklad Slovenski okoljski javni sklad

Stroitelský zkušební ústav, s.p. certified product

Fördergemeinschaft Wärmepumpen Schweiz FWS

CONTENTS

We are Orca...

We are Orca. We produce high quality products, modern design, which is completely produced in Europe from best possible materials from our Europe suppliers.

SERVICE

We offer complete service to our clients, for personal or professional use. Everything starts with advising from our professional sales department. When you buy our products, we also offer installation and technical support, no matter where you come from.

We have well organized technical support through all Europe.

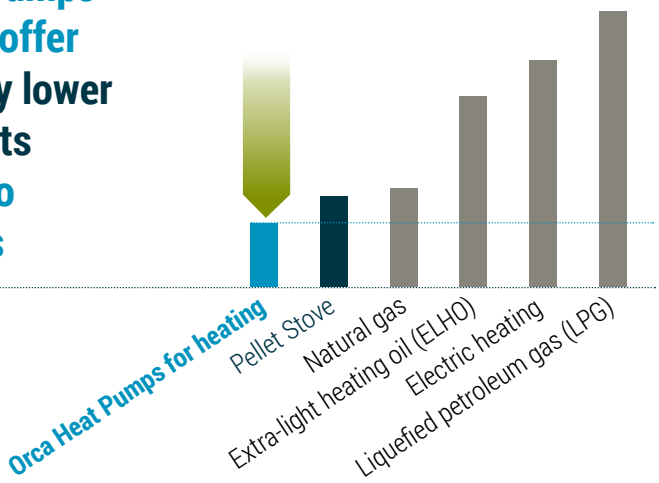
QUALITY

In our development laboratory, we have gathered the best experts in the field of efficient heating/cooling and at the same time designed the production of heating and cooling systems, which, due to advanced technology and precision of execution, practically does not allow mistakes. In order to keep the quality under constant control, our heat pumps are manufactured in Europe with components from the best European manufacturers. We are aware that the purchase of our heating or cooling systems is a long-term investment, so we have in mind many years of flawless operation from the first plan all the way to the final product and installation with the costumer.

ORCA HEAT PUMPS
FOR HEATING

...This are Facts

Orca Heat Pumps for heating offer significantly lower heating costs compared to alternatives



HOW IS THIS POSSIBLE?

Air – which is free of charge – is the main source of energy for heating with an air-to-water heat pump. A very small amount of electricity is merely required to operate the compressor.

WHY DO WE RECOMMEND THE AIR-TO-WATER SYSTEM?

Air-to-water heat pumps aren't only an elegant, simple solution, they are also the least expensive. Air is all around us and this type of heat pump can be installed in virtually any building without significant costs or inconvenience.

The best ratio between investment and savings

Orca Heat Pumps for heating achieve very high C.O.P. values and can be compared with substantially more expensive systems which use ground water or just ground as a heating source.

HIGHEST C.O.P. – UP TO 5.2

C.O.P. (coefficient of performance) is a rating which tells us how much heat is produced compared to the amount of electricity used. We are proud to say that our heat pumps have amongst the highest C.O.P. ratings on the European market.

ENERGY CLASSES FROM A+ TO A+++

The energy efficiency of Orca Heat Pumps for heating is amongst the highest on the market.

EXCEEDING EU STANDARDS

Orca Heat Pumps for heating are manufactured in Slovenia / Europe using high-quality European and Japanese parts.

INSTALLATION IN A JUST 14 HOURS

Installation of Orca Heat Pumps takes only 14 hours.

QUICK AND PROFESSIONAL MAINTENANCE

Our reliable service network ensures quick and professional maintenance.

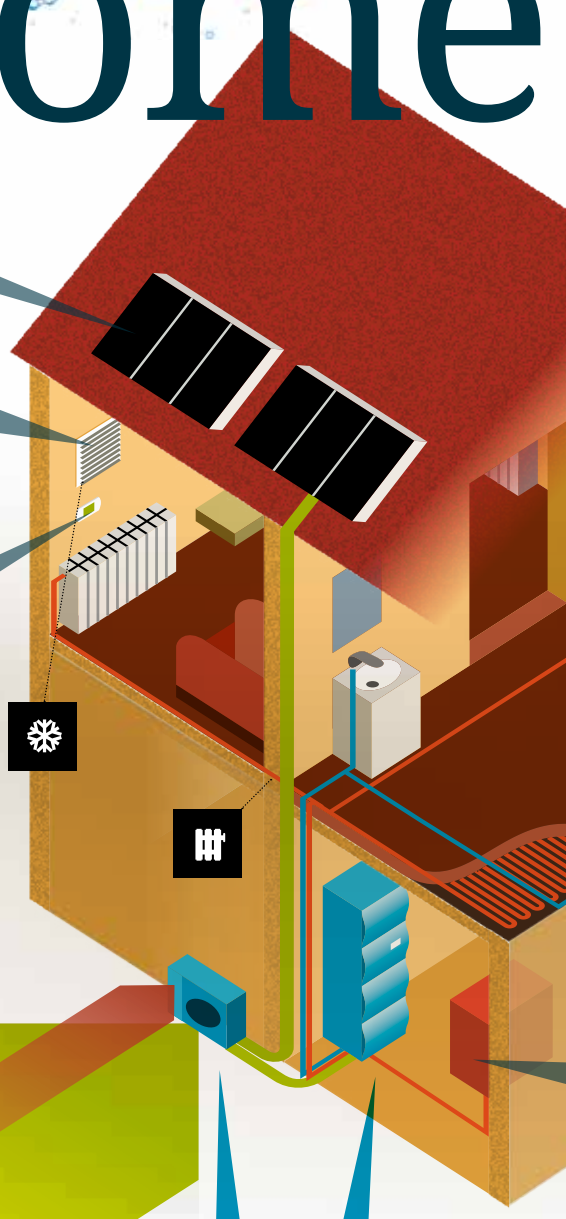
ORCA HEAT PUMPS
FOR HEATING

In Your Home

USE SOLAR POWER
Orca Heat Pumps enable you to connect them to a solar system.

COOLING TOO!
Orca Heat Pumps not only heat rooms, but are also able to cool them.[3]

ROOM CONTROLLER
Orca Heat Pumps can be controlled from the comfort of your living room.



ONLY 1 kWh
IS ACQUIRED FROM ELECTRICITY

UP TO 5.2 kWh
OF REQUIRED ENERGY IS OBTAINED FROM THE AIR, WHICH IS OF COURSE FREE OF CHARGE!

ORCA SILENTLY TAKES CARE OF YOUR COMFORT
Orca Heat Pumps take up relatively little space, are easy to regulate, and both the interior and exterior units are silent. The Duo Series includes a hot water tank.

A COMPLETE HEATING SOLUTION

It is possible to connect to a new or existing heating system in a building:

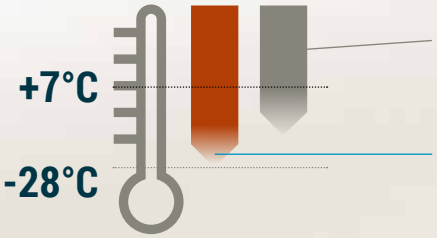
- **Heating with radiators**
- **Underfloor, wall and overhead heating**
- **Water-heating system**

OPTION OF BIVALENT HEATING

When the heat pump is unable to heat because of temperatures below -28°C or as a result of a fault, the system is able to automatically switch to a different heating source or to a built-in electric heater. With this, the security of your heating increases significantly.

THE MOST EFFICIENT SOLUTION IN THE COLDEST WEATHER

Orca Heat Pumps make economical heating possible as they do not require an electric heater in temperatures as low as -28°C and do not lose any heat output down to -15 °C, which makes them the most efficient solution on the market.



Regular heat pumps
lose efficiency as the external temperature drops below 7 °C.

Orca Heat Pumps
continue to heat at external temperatures of -28 °C.

CONNECT WITH ANY HEATING OR COOLING SYSTEM

Any heating or cooling system you might have in your home or plan to obtain can be connected to an Orca Heat Pump.

Radiator heating
even in older, poorly insulated buildings with high temperature versions.

Heating of warm water –
certain versions include a hot water tank.

Floor / wall / celling heating
for new buildings with low temperature versions.

Cooling, even at +43 °C external temperature[2].

Simple.

FROM THE COMFORT OF YOUR LIVINGROOM, OFFICE OR FROM THE BEACH

Coming home from work early today? You definitely don't want to be arriving to a cold apartment. Advanced regulation via Cloud enables you to change the settings of your Orca heat pump with the help of a computer, smart phone or tablet. The simple, intuitive user interface will take very little time to master. To simplify the process even further, heat pumps have a built-in touch screen with an identical user interface. This means you only have familiarise yourself with one user interface.

- **The desired temperature can be set according to the room or outside temperature.**
- **Set the day and night heating interval for one, two or three heating cycles.**
- **Control consumption and maintain your heat pump: an online interface enables you to view all of the settings and time intervals, current state, temperatures and event history, etc.**
- **Choose from various languages – English included.**
- **Enable 'Party', 'Eco' or 'Holiday' programs.**

RESPONSIVE
The design of the user interface is automatically adjusted to the device it is used on.

RENAME YOUR HEATING CIRCLE:
it is definitely easier to remember “Ground floor” as opposed to “Heating circle 2”, isn’t it?

YOUR TIME IS IMPORTANT TO US:
Direct access to the most important functions of the home screen.

MY ORCA
CONTROLLING THE HEAT PUMP VIA THE INTERNET

We take care of your complete comfort with our cloud service, ‘My Orca’. It enables you to control your heat pump from the comfort of your office, car or even while on holiday, simply via the internet.

- **Controllable via web browser on almost all operating systems, such as Microsoft Windows, Android, iOS and others. You don’t even need to install an app on your computer or smart phone.**
- **Access mobile version via an icon on your desktop.**
- **The design of the interface is automatically adjusted to the device it is used on.**
- **The ergonomics of the interface are also adjusted for touch screens.**

ORCA TOUCH
CONTROL VIA BUILT-IN TOUCH SCREEN

The times of complex operations for setting a simple timer are finally over. Controlling Orca Touch is as simple as controlling a device with your smart phone. The design and functionality of the interface are virtually identical, while outstanding graphic elements on the colour LCD screen make it seem as if you are playing a game rather than doing chores.

Remote control and touch screen are optional accessories. Ask your dealer for details.

Perfected.

CONTROLLER

A controller with intelligent regulation makes sure that the heat pump, as well as the entire heating system, perform optimally and adjusts the performance to outside and indoor temperature.

Manufacturer: Carel, Italy

ELECTRICAL HEATER

In case of extreme low outdoor temperatures or failure, a three-stage electric heater, which is built into the device by default, makes sure the heating runs smoothly.

Manufacturer: Eltra, Germany

HEAT EXCHANGER

An optimized heat exchanger ensures an extraordinary efficient performance of the heat pump.

Manufacturer: Swep, Sweden

CIRCULATING PUMP

A capable circulating pump with the energy class of A ensures a reliable and stable performance of the entire heating system with minimum energy losses.

Manufacturer: Wilo, Germany

DOMESTIC WATER HEATER TANK

Duo series models have an build-in vacuum enameled domestic water heater tank with a big heat exchanger that ensures a quick and efficient sanitary water heating and cuts down on heat losses with its insulation. It also comes with a revision opening for a simple clean-up and a long life span.

SUPERIOR COMPONENTS

Our heat pumps are meticulously designed and intelligently built from components of the world's best manufacturers and are manufactured in our own production facilities by highly professionally skilled personnel.

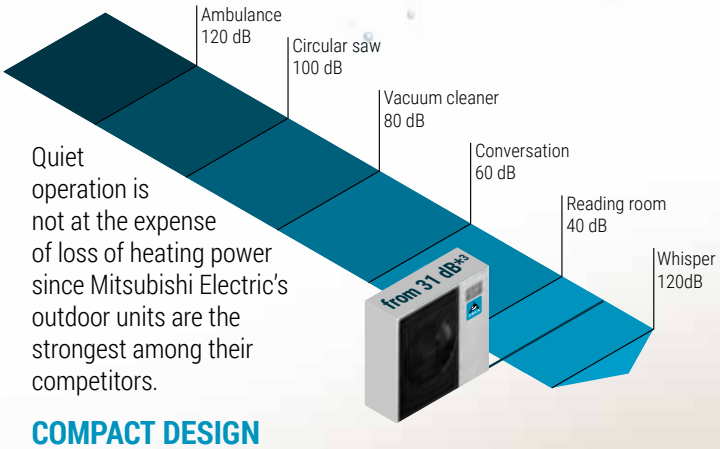
MITSUBISHI ELECTRIC OUTDOOR UNITS

MITSUBISHI ELECTRIC OUTDOOR UNITS

We choose only from superior outside units that withstand even the harshest weather conditions.

SILENT OPERATION

NEW FAN AND THE PERIPHERY OF THE COMPRESSOR ENABLE A 10 DB(A) QUIETER OPERATION



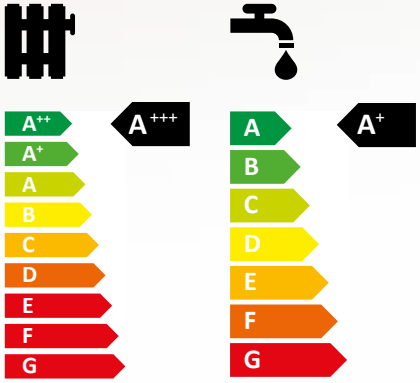
Quiet operation is not at the expense of loss of heating power since Mitsubishi Electric's outdoor units are the strongest among their competitors.

COMPACT DESIGN

The economy of space is certainly one of the advantages of the new Mitsubishi outdoor units Zubadan. The units occupy significantly less space than competitive units. Much smaller space is required for the operation in front of the device itself, and takes up only 350 mm with the new Mitsubishi Electric outdoor units.

ENERGY CLASS

Our devices attain the highest energy classes. When heating, the efficiency attains an A+++ class and the efficiency of heating the sanitary water attains an A+ class.



HIGH RELIABILITY

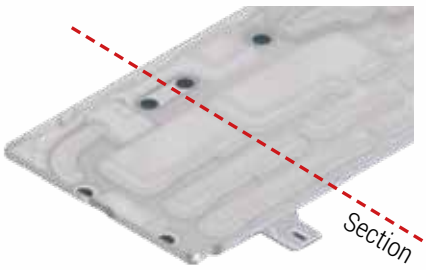
OPTIMIZED DEFROSTING AND PREVENTION OF ICE ACCUMULATION

A new design of the base is more reliable than ever before:

- improved drainage
- optimized defrost control
- optimized heat exchanger that prevents the formation of ice on the outdoor unit.

New base design

- optimized structure of the base improves drainage flow
- inclination of the base enables smooth and faster drainage



Section

INDOOR UNITS OVERVIEW

ORCA MONO
WITHOUT AN IN-BUILT HOT WATER TANK

MONO

HIGH-TEMPERATURE VERSION
LOW-TEMPERATURE VERSION

- Without an integrated hot water tank - for users with an existing hot water tank.
- Wide range of system performance (4-23 kW) and outside units.
- Wall-mounted model for better space economy.
- Appropriate also for domestic water heating in multi-appartments buildings.

MONO CASCADE

HIGH-TEMPERATURE VERSION
LOW-TEMPERATURE VERSION

- High heat output with connections to two, three or four external units of various performance.
- For larger (public) areas: heat up to 2,500 m^2.
- Appropriate also for domestic water heating in multi-appartments buildings

	MONO	MONO CASCADE
Comfort		
Built-in hot water tank	-	-
Built-in switching valve for space heating/water heating	✓	-
Setting timers for heat cycles and warm water	✓	✓
Option of controlling a second heating source	✓	✓
Weather-responsive control.	✓	✓
Option of automatic and outside switch between heating and cooling	✓	✓
Option of connecting a room sensor	✓	✓
Solar system control	✓	✓
Built-in expansion vessel	✓	-
Circulating pump - energy class A	✓	✓
Closing valves for simple cleaning of the mechanical filter	-	-
Function PV	✓	✓
Possibility of heating with a solar system	✓	✓
Possibility of internet control	optional	optional
Silent operation	✓	✓
Additional third heating cycle	✓	✓
Security		
5 year warranty for the built-in hot water tank	-	-
Anti-freezing and overheating protection	✓	✓
Anti-legionella program	✓	✓
Built-in electric heater	✓	-
Built-in mechanical filter, flow switch and safety group	✓	**Flow switch and safety group, without filter**
Safety switch for cut-off	✓	✓
Hot water tank corrosion protection with Mg anode	-	-
Revision opening for hot water tank cleaning	-	-

ORCA DUO
HEAT PUMPS WITH AN IN-BUILT HOT WATER TANK

DUO 200

HIGH-TEMPERATURE VERSION
LOW-TEMPERATURE VERSION

- Integrated 200-litre hot water tank.
- Appropriate for families of 1-3 people.
- Wide range of system performance (4-16kW) of outside units.

DUO 300

HIGH-TEMPERATURE VERSION
LOW-TEMPERATURE VERSION

- Integrated 300-litre hot water tank.
- Appropriate for families of 4 or more.
- Wide range of system performance (4-23kW) of outside units.

DUO 300 SOLAR

HIGH-TEMPERATURE VERSION
LOW-TEMPERATURE VERSION

- Integrated 300-litre hot water tank.
- Appropriate for families of 4 or more.
- Wide range of system performance (4-23kW) of outside units.
- Possible connection to solar power system

	200 L	300 L	300 L
	✓	✓	✓
	✓	✓	✓
	✓	✓	✓
	✓	✓	✓
	✓	✓	✓
	✓	✓	✓
	✓	✓	✓
	✓	✓	✓
	✓	✓	✓
	✓	✓	✓
	✓	✓	✓
	optional	optional	optional
	✓	✓	✓
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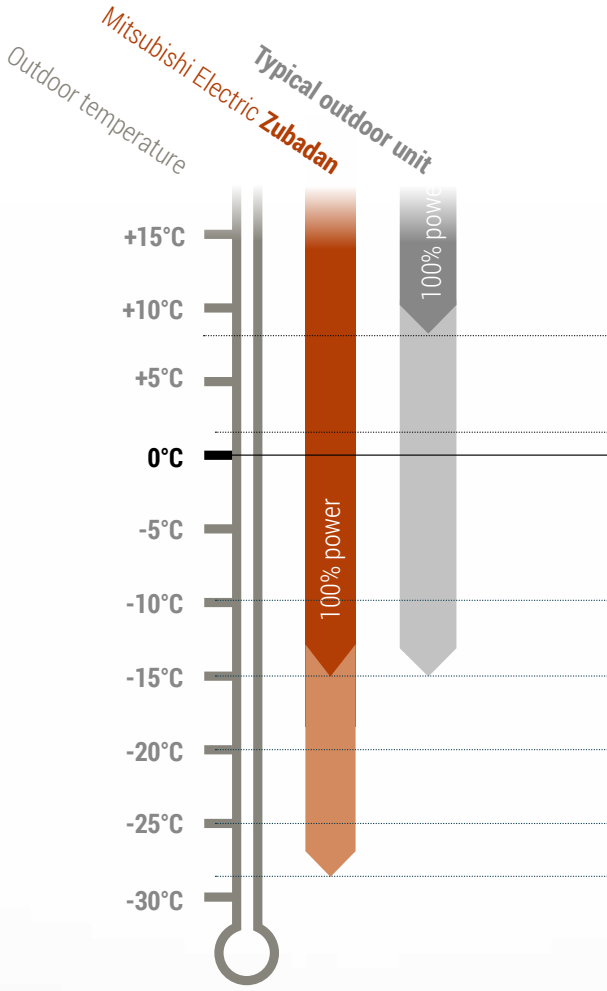
	✓	✓	✓
	✓	✓	✓

OUTDOOR UNITS OVERVIEW

HIGH TEMPERATURE VERSIONS

Suitable for:
- radiators and domestic water heating,
- buildings with large heating surfaces,
- older and poorly insulated buildings.

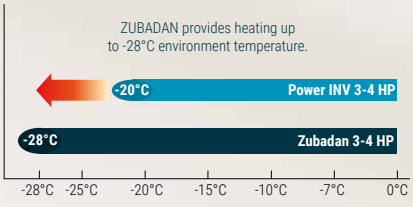


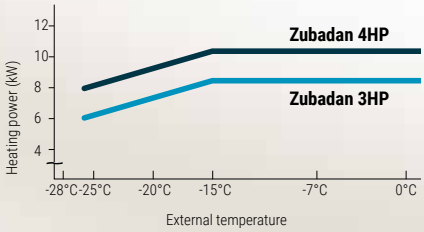
MITSUBISHI ELECTRIC ZUBADAN SERIES

FOR INDOOR UNITS MONO AND DUO

Zubadan is probably the most efficient outdoor unit available on the market.

- **Coolant injection enables operation of the heat pump at temperatures of -28 °C.**
- **100% heat output is possible at -15 °C because of advanced Flash Injection Technology.**
- **High output water temperature: 60 °C.**
- **Operation of the outdoor unit is extremely quiet.**

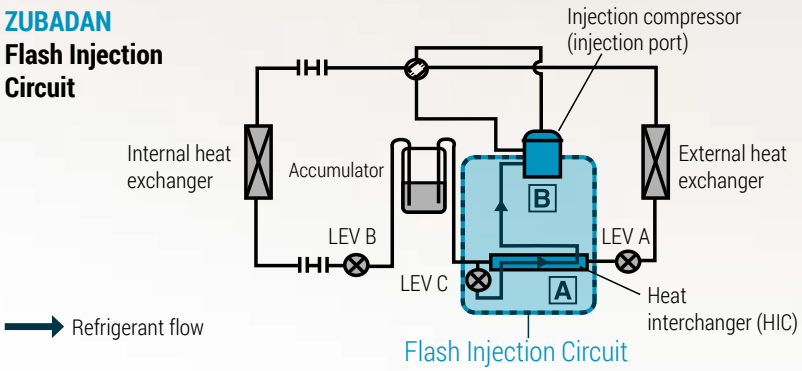




THE ZUBADAN SERIES ACHIEVES A HIGH HEATING POWER AT VERY LOW OUTDOOR TEMPERATURES

Excellent heating features of ZUBADAN units reflect the technology of the Flash Injection effective gas circulation, the result of the research by MITSUBISHI ELECTRIC experts.
While conventional heating pumps lose their heating power because of the drop in the range of gas circulation through the system, the unique bypass circuit "Flash Injection " improves the circulation volume of gas using two circulatory systems. This technology provides high efficiency and reliable heating of facilities in the coldest areas.

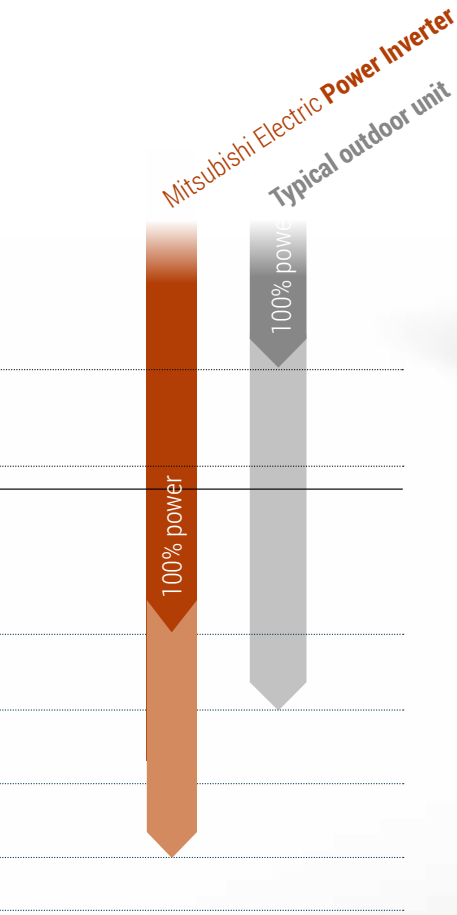
ZUBADAN
Flash Injection Circuit



OUTDOOR UNITS OVERVIEW

LOW TEMPERATURE VERSIONS

Suitable for:
- floor/wall/celling heating and water heating,
- new and well insulated buildings,
- buildings with large heating surfaces.



MITSUBISHI ELECTRIC POWER INVERTER SERIES

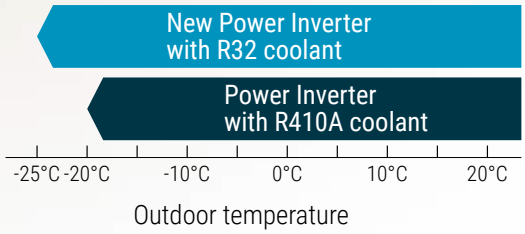
FOR INDOOR UNITS MONO AND DUO

The excellent Power Inverter outdoor unit preserves full heating output at external temperatures as low as 2°C and only loses 20% of heating output at external temperatures as low as -15 °C, which is an excellent achievement in comparison with other heat pumps.

- **Heating at temperatures as low as -25 °C.**
- **High output water temperatures: up to 60 °C at 5 °C and even 55 °C at -10 °C.**
- **The advanced Power Inverter Technology with additional coolant subcooler enables high heat output at lower outside temperatures.**
- **The above-average dimensions of the heat exchanger use very little electricity.**
- **Operation of the outdoor unit is extremely quiet.**

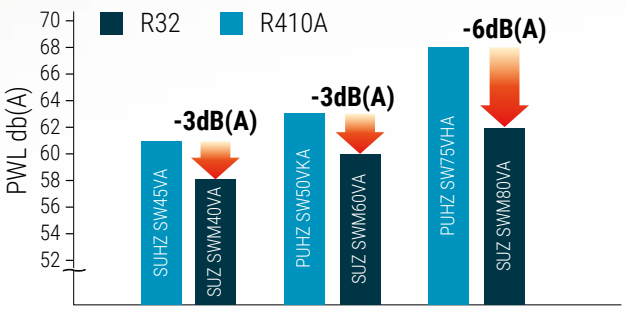
MITSUBISHI SUZ POWER INVERTER UNITS WITH R32 COOLANT

- **high heating efficiency,**
- **reliable function up to -20 ° C outdoor temperature,**
- **maximum output water temperature is 60 ° C.**



MORE QUIET OPERATION

From 3 to 6 dB(A) more quite operation of new models compared to previous Power Inverter units with R410 coolant.



COMBINATION OF INDOOR AND OUTDOOR UNITS

CHOOSE THE RIGHT COMBINATION

The right combination of indoor unit Orca and outdoor unit Mitsubishi Electric assures high COP of your heat pump, which lowers the costs of heating..

- High temperature versions
- Low temperature versions

			MONO				MONO XL	DUO 200			
			10647	12292	12334	12347	10720	10714	12293	12335	12348
	PUHZ-SHW140YHA	R410	●					●			
	PUHZ-SHW230YKA	R410					●				
	PUD-SHWM80(V)YAA	R32				●					●
	PUD-SHWM100(V)YAA	R32			●					●	
	PUD-SHWM120(V)YAA	R32			●					●	
	PUD-SHWM140(V)YAA	R32			●					●	
	SUZ-SWM40VA	R32		●					●		
	SUZ-SWM60VA	R32		●					●		
	SUZ-SWM80VA	R32		●					●		
	PUD-SWM80V(Y)AA	R32				●					●
	PUD-SWM100V(Y)AA	R32			●					●	
	PUD-SWM120V(Y)AA	R32			●					●	

	DUO 300				DUO 300 XL	DUO 300 SOLAR			DUO 300 SOLAR XL
	10514	12294	12336	12349	10718	10591	12295	12337	12350	10719
	●				●	●				
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HEAT PUMPS FOR HEATING WITHOUT A BUILT-IN HOT WATER TANK.

WALL-MOUNTED VERSIONS OF THE INDOOR UNIT AVAILABLE FOR GREATER SPACE ECONOMY

HEAT SPACE OF UP TO 2500 m² WITH CASCADE VERSIONS.

Mono Series Choice.

FOR VIRTUALLY EVERY ROOM

The Orca Mono Series enables room and water heating in an existing hot water tank. Many high and low temperature versions are available which enable you to connect them to radiators or underfloor, wall or overhead heating in buildings of various sizes and insulation levels. With various versions you can heat from the smallest of rooms to buildings with a surface area of up to 2,500 m².

ORCA MONO

VERSION OVERVIEW

UP TO
2,500 M²
TWO, THREE OR FOUR
OUTDOOR UNITS

MONO EXCLUSIVE

FOR COMFORTABLE ROOM AND WATER HEATING IN AN EXISTING HOT WATER TANK.

Savings

- **Room and water heating without an electric heater to outdoor temperatures as low as -28 °C.**
- **Complete heating output to -15 °C.**
- **Weather-responsive control.**

Comfort

- **A simple multilingual menu.**
- **Intelligent control: set up three heating circuits according to the indoor and outdoor temperature.**
- **Set up multiple time intervals including 'Party', 'Eco' and 'Holiday' programs.**
- **Possibility of space cooling.**

Safety and Security

- **Active Legionella protection.**
- **Option of automatic switchover to a different heating source (bivalent heating).**

Orca Mono Heat Pumps are available in a classical and XL version. The latter enables heating of larger areas since it is equipped with a larger heat exchanger with 23 kW of outdoor unit performance.

MONO CASCADE

FOR HEATING LARGER AREAS WITH A SINGLE INDOOR CONTROL UNIT AND UP TO FOUR OUTDOOR UNITS.

Heat pumps for heating may be connected into cascades. As opposed to most cascade heat pumps on the market, the innovative Mono Cascades only require one indoor and one control unit.

It is possible to connect two, three or four outdoor units of various heating outputs. Using several larger outdoor units, economical heating for areas of up to 2,500m² is possible.

ORCA MONO

HIGH TEMPERATURE VERSIONS

Suitable for:
- radiators and water heating in an existing hot water tank,
- combination of floor heating and radiator heating,
- older and poorly-insulated buildings.

OUTDOOR UNIT	MITSUBISHI ELECTRIC ZUBADAN						
Heating	**to -28°C**					**to -28°C**	**to -25°C**
Output water temperature	60 °C					60 °C	
Cooling	–					to +46 °C	
Voltage [V]	**1/230**	**3/400**	**3/400**	**3/400**	**3/400**	**3/400**	**3/400**
Outdoor unit	**PUD-SHWM80VAA**	**PUD-SHWM80YAA**	**PUD-SHWM100YAA**	**PUD-SHWM120YAA**	**PUD-SHWM140YAA**	**PUHZ SHW140YHA**	**PUHZ SHW230YKA**
Nominal heat output [kW]	**8**	**8**	**10**	**12**	**14**	**14**	**23**
C.O.P. (A7/W35)	**5.03**	**5.03**	**5.00**	**4.80**	**4.70**	**4.22**	**3.65**
S.C.O.P. (W35)	**4.53**	**4.53**	**4.50**	**4.48**	**4.48**	**4.16**	**4.18**
Fuse [No.×A]	1x25	3x16	3x16	3x16	3x16	3×16	3×32
Dimensions of gas connections	1/4", 1/2"	1/4", 1/2"	1/4", 1/2"	1/4", 1/2"	1/4", 1/2"	3/8", 5/8"	1/2", 1"
Maximum height difference IU-OU [m]	30	30	30	30	25	30	30
Length of gas connection IU-OU [m]	2-30	2-30	2-30	2-30	2-25	2-75	2-80
Pre-charged gas up to the length of the gas connection [m]	10	10	10	10	10	30	30
Heating medium's nominal flow [l/min]	10-59	10-59	10-59	10-59	10-59	17.9-40.1	28.7-65.9
Sound power level [dB(A)]	56	56	59	60	62	70	75
Weight [kg]	102	115	121	120	122	134	148
Dimensions (W×D×H) [cm]	105×48×102	105×48×102	105×48×102	105×48×102	105×48×102	95×33×135	105×33×134

INDOOR UNIT	MONO						MONO XL
Product number (set)	**12347 + 12231**	**12347 + 12230**	**11334 + 12230**	**11334 + 12235**	**11334 + 12337**	**10647 + 10705**	**10720 + 10730**
Dimensions of gas connections	1/2", 1/4"					3/5", 5/8"	1/2", 1"
Dimensions of connections for the heating system	1"					1"	1"
Built in circulation pump	Circulating pump - energy class A					Circulating pump - energy class A	
Electric heater	3×3 kW					3×3 kW	3×3 kW
Heat exchanger	Swep					Swep	Swep
Switchover heating-water heating	Integrated					Integrated	Integrated
Dimensions (H×W×D) [cm]	90×60×40					90×60×40	90×60×40
Weight [kg]	80 kg					85	85
Device's seasonal efficiency class in average climate conditions W35	A+++	A+++	A+++	A+++	A+++	A++	A++
Device's seasonal efficiency class in average climate conditions W55	A++	A++	A++	A++	A++	A++	A++
Device's seasonal efficiency in average climate conditions W35 (ηs)	181	179	178	177	177	164	164
Device's seasonal efficiency in average climate conditions W55 (ηs)	135	134	135	134	134	124	124

ORCA MONO

LOW TEMPERATURE VERSIONS

Suitable for:
- floor/wall/celling and domestic water heating,
- new and well-insulated buildings.

OUTDOOR UNIT	MITSUBISHI ELECTRIC POWER INVERTER							
Heating	**to -20°C**			**to -25°C**				
Output water temperature	60 °C			60 °C				
Cooling	to +46 °C			–				
Voltage [V]	**1/230**	**1/230**	**1/230**	**1/230**	**3/400**	**1/230**	**3/400**	**3/400**
Outdoor unit	**SUZ-SWM40VA**	**SUZ-SWM60VA**	**SUZ-SWM80VA**	**PUD-SWM80VAA**	**PUD-SWM80YAA**	**PUD-SWM100VAA**	**PUD-SWM100YAA**	**PUD-SWM120YAA**
Nominal heat output [kW]	**4**	**6**	**8**	**8**	**8**	**10**	**10**	**12**
C.O.P. (A7/W35)	**5.2**	**4.86**	**4.7**	**4.76**	**4.76**	**5**	**5**	**4.7**
S.C.O.P. (W35)	**4.58**	**4.61**	**4.62**	**4.07**	**4.45**	**4.45**	**4.45**	**4.43**
Fuse [No.×A]	1x16	1x16	1x16	1x25	3x16	1x30	3x16	3x16
Dimensions of gas connections	1/4", 1/2"	1/4", 1/2"	1/4", 1/2"	1/4", 1/2"	1/4", 1/2"	1/4", 1/2"	1/4", 1/2"	1/4", 1/2"
Maximum height difference IU-OU [m]	30	30	30	30	30	30	30	30
Length of gas connection IU-OU [m]	5-30	5-30	5-30	2-30	2-30	2-30	2-30	2-30
Pre-charged gas up to the length of the gas connection [m]	10	10	10	10	10	10	10	10
Heating medium's nominal flow [l/min]	5-54	5-54	5-54	10-59	10-59	10-59	10-59	10-59
Sound power level [dB(A)]	58	60	62	56	56	59	59	60
Weight [kg]	54	54	54	101	114	107	120	120
Dimensions W×D×H [cm]	84×33×88	84×33×88	84×33×88	105×48×102	105×48×102	105×48×102	105×48×102	105×48×102

INDOOR UNIT	MONO							
Product number (set)	**12292 + 12201**	**12292 + 12194**	**12292 + 12202**	**12347 + 12224**	**12347 + 12229**	**12334 + 12225**	**12334 + 12228**	**12334 + 12227**
Dimensions of gas connections	1/2"							
Dimensions of connections for the heating system	1/4"							
Built in circulation pump	Circulating pump - energy class A							
Electric heater	3×3 kW							
Heat exchanger	Swep							
Switchover heating-water heating	Integrated							
Dimensions (H×W×D) [cm]	90×60×40							
Weight [kg]	80 kg							
Device's seasonal efficiency class in average climate conditions W35	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++
Device's seasonal efficiency class in average climate conditions W55	A++	A++	A++	A++	A++	A++	A++	A++
Device's seasonal efficiency in average climate conditions W35 (ηs)	180	181	182	178	176	178	177	176
Device's seasonal efficiency in average climate conditions W55 (ηs)	129	130	131	131	130	131	130	128

ORCA MONO

CASCADES HIGH TEMPERATURE VERSIONS

Suitable for:
- radiator heating in larger buildings,
- larger, older and poorly-insulated buildings,
- appropriate for higher amounts of domestic water heating.

OUTDOOR UNIT	MITSUBISHI ELECTRIC ZUBADAN						
Heating	**to -28°C**					**to -28°C**	**to -25°C**
Output water temperature	60 °C					60 °C	
Cooling	–					to +46 °C	
Voltage [V]	**1/230**	**3/400**	**3/400**	**3/400**	**3/400**	**3/400**	**3/400**
Outdoor unit	**PUD-SHWM80VAA**	**PUD-SHWM80YAA**	**PUD-SHWM100YAA**	**PUD-SHWM120YAA**	**PUD-SHWM140YAA**	**PUHZ SHW140YHA**	**PUHZ SHW230YKA**
Nominal heat output [kW]	**8**	**8**	**10**	**12**	**14**	**14**	**23**
C.O.P. (A7/W35)	**5.03**	**5.03**	**5.00**	**4.80**	**4.70**	**4.22**	**3.65**
S.C.O.P. (W35)	**4.53**	**4.53**	**4.50**	**4.48**	**4.48**	**4.16**	**4.18**
Fuse [No.×A]	1x25	3x16	3x16	3x16	3x16	3×16	3×32
Dimensions of gas connections	1/4", 1/2"	1/4", 1/2"	1/4", 1/2"	1/4", 1/2"	1/4", 1/2"	3/8", 5/8"	1/2", 1"
Maximum height difference IU-OU [m]	30	30	30	30	25	30	30
Length of gas connection IU-OU [m]	2-30	2-30	2-30	2-30	2-25	2-75	2-80
Pre-charged gas up to the length of the gas connection [m]	10	10	10	10	10	30	30
Heating medium's nominal flow [l/min]	10-59	10-59	10-59	10-59	10-59	17.9-40.1	28.7-65.9
Sound power level [dB(A)]	56	56	59	60	62	70	75
Weight [kg]	102	115	121	120	122	134	148
Dimensions (W×D×H) [cm]	105×48×102	105×48×102	105×48×102	105×48×102	105×48×102	95×33×135	105×33×134
SELECTION OF INDOOR AND OUTDOOR UNITS	**MONO M VERSIONS** 2-4 × 8-14 kW						**MONO L VERSIONS** 2-4 × 8-23 kW
INDOOR UNIT **FOR 2 OUTDOOR UNITS**	**MONO 2 M**						**MONO 2 L**
Product number (set)	**10721 + 2 outdoor units**						**10722 + 2 outdoor units**
Overall heat output [kW] (sum of output of outdoor units)	**16-28**						**31-46**
Heating surface [m²]	**400-700**						**775-1,150**
Dimensions of gas connections	2× 1/4", 1/2" (PUD, SUZ) ali 2× 3/8", 5/8" (PUHZ)						2× 1/2", 1"
Dimensions of connections for the heating system	6/4"						6/4"
Built in circulation pump	2× Circulating pump - energy class A						
Heat exchanger	2× Swep						2× Swep
Dimensions (HxWxD) [cm]	90×60×40						90×60×40
Weight [kg]	95						105
INDOOR UNIT **FOR 3 OUTDOOR UNITS**	**MONO 3 M**						**MONO 3 L**
Product number (set)	**10723 + 3 outdoor units**						**10724 + 3 outdoor units**
Overall heat output [kW] (sum of output of outdoor units)	**24-42**						**39-69**
Heating surface [m²]	**600-1,050**						**975-1,725**
Dimensions of gas connections	3× 1/4", 1/2" (PUD, SUZ) ali 3× 3/8", 5/8" (PUHZ)						3× 1/2", 1"
Dimensions of connections for the heating system	2"						2"
Built in circulation pump	3× Circulating pump - energy class A						
Heat exchanger	3× Swep						3× Swep
Dimensions (HxWxD) [cm]	90×120×40						90×120×40
Weight [kg]	160						175
INDOOR UNIT **FOR 4 OUTDOOR UNITS**	**MONO 4 M**						**MONO 4 L**
Product number (set)	**10725 + 4 outdoor units**						**10726 + 4 outdoor units**
Overall heat output [kW] (sum of output of outdoor units)	**32-56**						**47-92**
Heating surface [m²]	**800-1,400**						**1,175-2,300**
Dimensions of gas connections	4× 1/4", 1/2" (PUD, SUZ) ali 4× 3/8", 5/8" (PUHZ)						4× 1/2", 1"
Dimensions of connections for the heating system	2"						2"
Built in circulation pump	4× Circulating pump - energy class A						
Heat exchanger	4× Swep						4× Swep
Dimensions (HxWxD) [cm]	90×120×40						90×120×40
Weight [kg]	190						210

ORCA MONO

CASCADES
LOW TEMPERATURE VERSIONS

Suitable for:
- floor/wall/celling and domestic water heating,
- new and well-insulated buildings.

OUTDOOR UNIT	MITSUBISHI ELECTRIC POWER INVERTER							
Heating	**to -20°C**			**to -25°C**				
Output water temperature	60 °C			60 °C				
Cooling	to +46 °C			–				
Voltage [V]	**1/230**	**1/230**	**1/230**	**1/230**	**3/400**	**1/230**	**3/400**	**3/400**
Outdoor unit	**SUZ-SWM40VA**	**SUZ-SWM60VA**	**SUZ-SWM80VA**	**PUD-SWM80VAA**	**PUD-SWM80YAA**	**PUD-SWM100VAA**	**PUD-SWM100YAA**	**PUD-SWM120YAA**
Nominal heat output [kW]	**4**	**6**	**8**	**8**	**8**	**10**	**10**	**12**
C.O.P. (A7/W35)	**5.2**	**4.86**	**4.7**	**4.76**	**4.76**	**5**	**5**	**4.7**
S.C.O.P. (W35)	**4.58**	**4.61**	**4.62**	**4.07**	**4.45**	**4.45**	**4.45**	**4.43**
Fuse [No.×A]	1x16	1x16	1x16	1x25	3x16	1x30	3x16	3x16
Dimensions of gas connections	1/4", 1/2"	1/4", 1/2"	1/4", 1/2"	1/4", 1/2"	1/4", 1/2"	1/4", 1/2"	1/4", 1/2"	1/4", 1/2"
Maximum height difference IU-OU [m]	30	30	30	30	30	30	30	30
Length of gas connection IU-OU [m]	5-30	5-30	5-30	2-30	2-30	2-30	2-30	2-30
Pre-charged gas up to the length of the gas connection [m]	10	10	10	10	10	10	10	10
Heating medium's nominal flow [l/min]	5-54	5-54	5-54	10-59	10-59	10-59	10-59	10-59
Sound power level [dB(A)]	58	60	62	56	56	59	59	60
Weight [kg]	54	54	54	101	114	107	120	120
Dimensions W×D×H [cm]	84×33×88	84×33×88	84×33×88	105×48×102	105×48×102	105×48×102	105×48×102	105×48×102
SELECTION OF INDOOR AND OUTDOOR UNITS				**MONO M VERSIONS** 2-4 × 4-12 kW				
INDOOR UNIT **FOR 1 OUTDOOR UNITS**				**MONO 2 M**				
Product number (set)				**10721 + 2 outdoor units**				
Overall heat output [kW] (sum of output of outdoor units)				**8-24**				
Heating surface [m²]				**150-470**				
Dimensions of gas connections				2× 1/4", 1/2"				
Dimensions of connections for the heating system				6/4"				
Built in circulation pump				2× Circulating pump - energy class A				
Heat exchanger				2× Swep				
Dimensions (HxWxD) [cm]				90×60×40				
Weight [kg]				95				
INDOOR UNIT **FOR 2 OUTDOOR UNITS**				**MONO 3 M**				
Product number (set)				**10723 + 3 outdoor units**				
Overall heat output [kW] (sum of output of outdoor units)				**12-36**				
Heating surface [m²]				**225-705**				
Dimensions of gas connections				3× 1/4", 1/2"				
Dimensions of connections for the heating system				2"				
Built in circulation pump				3× Circulating pump - energy class A				
Heat exchanger				3× Swep				
Dimensions (HxWxD) [cm]				90×120×40				
Weight [kg]				160				
INDOOR UNIT **FOR 3 OUTDOOR UNITS**				**MONO 4 M**				
Product number (set)				**10725 + 4 outdoor units**				
Overall heat output [kW] (sum of output of outdoor units)				**16-48**				
Heating surface [m²]				**300-940**				
Dimensions of gas connections				4× 1/4", 1/2"				
Dimensions of connections for the heating system				2"				
Built in circulation pump				4× Circulating pump - energy class A				
Heat exchanger				4× Swep				
Dimensions (HxWxD) [cm]				90×120×40				
Weight [kg]				190				

HEAT PUMPS FOR HEATING WITH A BUILT-IN HOT WATER TANK

Duo Series Comfort.

A COMPLETE HEATING SOLUTION

Orca Duo Series enables you to heat space and water. Warm water of the Duo heat pump is heated in the built-in 200- or 300-litre hot water tank, which means that an additional room is not required for it. A wide range of versions enables you to heat any kind of living spaces, from older or new buildings. Versions with the possibility of connections to solar power systems are also available.

ORCA DUO

VERSION OVERVIEW

DUO 200

SPACE AND WATER HEATING IN A BUILT-IN 200 L HOT WATER TANK.

DUO 300
DUO 300 SOLAR

SPACE AND WATER HEATING IN A BUILT-IN 300 L HOT WATER TANK.

Savings
- **Space and water heating without an electric heater in outdoor temperatures as low as -28 °C**
- **Complete heating output to -15 °C.**
- **Weather-responsive control.**

Comfort
- **Simple control menu.**
- **Intelligent control: set up three heating circuits according to the indoor and outdoor temperature.**
- **Set up multiple time intervals including 'Party', 'Eco' and 'Holiday' programs.**
- **Possibility of space cooling.**

Safety and Security
- **Active Legionella protection.**
- **5-year hot water tank warranty.**
- **Possibility of automatic switchover to different heating source (bivalent heating).**

Orca Duo 200 is ideal for households of two to four people, because of its 200-litre hot water tank.

Orca Duo 300 is a very capable heating system intended for households with more than four family members. The built-in 300-litre hot water tank will ensure that there is enough hot water for the entire family, while there are various versions for different heating systems and living areas.

Orca Duo 300 Solar

The Solar Version has the same properties as the Duo 300, however, it also enables connection to solar panels with an additional heat exchanger with a surface area of 1.3 m^2. Thus heating costs can be further reduced.

ORCA DUO

HIGH TEMPERATURE VERSIONS

Suitable for:
- radiator and water heating in a built-in hot water tank,
- older and poorly-insulated buildings.

OUTDOOR UNIT	MITSUBISHI ELECTRIC ZUBADAN						
Heating	**to -28°C**					**to -28°C**	**to -25°C**
Output water temperature	60 °C					60 °C	
Cooling	–					to +46 °C	
Voltage [V]	**1/230**	**3/400**	**3/400**	**3/400**	**3/400**	**3/400**	**3/400**
Outdoor unit	**PUD-SHWM80VAA**	**PUD-SHWM80YAA**	**PUD-SHWM100YAA**	**PUD-SHWM120YAA**	**PUD-SHWM140YAA**	**PUHZ SHW140YHA**	**PUHZ SHW230YKA**
Nominal heat output [kW]	**8**	**8**	**10**	**12**	**14**	**14**	**23**
C.O.P. (A7/W35)	**5.03**	**5.03**	**5.00**	**4.80**	**4.70**	**4.22**	**3.65**
S.C.O.P. (W35)	**4.53**	**4.53**	**4.50**	**4.48**	**4.48**	**4.16**	**4.18**
Fuse [No.×A]	1x25	3x16	3x16	3x16	3x16	3×16	3×32
Dimensions of gas connections	1/4", 1/2"	1/4", 1/2"	1/4", 1/2"	1/4", 1/2"	1/4", 1/2"	3/8", 5/8"	1/2", 1"
Maximum height difference IU-OU [m]	30	30	30	30	25	30	30
Length of gas connection IU-OU [m]	2-30	2-30	2-30	2-30	2-25	2-75	2-80
Pre-charged gas up to the length of the gas connection [m]	10	10	10	10	10	30	30
Heating medium's nominal flow [l/min]	10-59	10-59	10-59	10-59	10-59	17.9-40.1	28.7-65.9
Sound power level [dB(A)]	56	56	59	60	62	70	75
Weight [kg]	102	115	121	120	122	134	148
Dimensions (W×D×H) [cm]	105×48×102	105×48×102	105×48×102	105×48×102	105×48×102	95×33×135	105×33×134

INDOOR UNIT	DUO 200						
Product number (set)	**12348 + 12231**	**12348 + 12230**	**12335 + 12233**	**12335 + 12235**	**12335 + 12337**	**10714 + 10705**	
Hot water tank volume [L]	200					200	-
Dimensions of gas connections	1/4", 1/2"					3/8", 5/8"	-
Dimensions of heating system connections	1"					1"	-
Dimensions of hot water connections	1" (3/4 circulation)					1" (3/4 circulation)	-
Built in circulation pump	Circulating pump - energy class A					Circulating pump - energy class A	-
Switchover heating – hot water	Integrated					Integrated	-
Electric heater [kW]	3×3					3×3	-
Heat exchanger	Swep					Swep	-
Dimensions (H×W×D) [cm]	142×60×78					142×60×78	-
Weight [kg]	180					180	-
Device's seasonal efficiency class in average climate conditions W35	A+++	A+++	A+++	A+++	A+++	A++	-
Device's seasonal efficiency class in average climate conditions W55	A++	A++	A++	A++	A++	A++	-
Device's seasonal efficiency in average climate conditions W35 (ηs)	181	179	178	177	177	164	-
Device's seasonal efficiency in average climate conditions W55 (ηs)	135	134	135	134	134	124	-
Use of hot water cycle	L	L	L	L	L	L	-
Sanitary water heating energy class	A+	A+	A+	A+	A+	A+	-

INDOOR UNIT	DUO 300 / DUO 300 SOLAR						DUO 300 XL / DUO 300 XL SOLAR
Product number (set)	**12349 + 12231**	**12349 + 12230**	**12336 + 12233**	**12336 + 12235**	**12336 + 12337**	**10514 + 10705**	**10718 + 10730**
Product number - solar (set)	**12350 + 12231**	**12350 + 12230**	**12337 + 12233**	**12337 + 12235**	**12337 + 12337**	**10591 + 10705**	**10719 + 10730**
Hot water tank volume [L]	300					300	300
Dimensions of gas connections	1/4", 1/2"					3/8", 5/8"	1/2", 1"
Dimensions of heating system connections	1"					1"	1"
Dimensions of hot water connections	1" (3/4 circulation)					1" (3/4 circulation)	1" (3/4 circulation)
Built in circulation pump	Circulating pump - energy class A					Circulating pump - energy class A	
Switchover heating – hot water	Integrated					Integrated	Integrated
Electric heater [kW]	3×3					3×3	3×3
Heat exchanger	Swep					Swep	Swep
Dimensions (H×W×D) [cm]	182×60×78					182×60×78	182×60×78
Weight [kg]	235					235	240
Weight (Solar) [kg]	255					255	260
Device's seasonal efficiency class in average climate conditions W35	A+++	A+++	A+++	A+++	A+++	A++	A++
Device's seasonal efficiency class in average climate conditions W55	A++	A++	A++	A++	A++	A++	A++
Device's seasonal efficiency in average climate conditions W35 (ηs)	181	179	178	177	177	164	164
Device's seasonal efficiency in average climate conditions W55 (ηs)	135	134	135	134	134	124	124
Use of hot water cycle	XL	XL	XL	XL	XL	XL	XL
Sanitary water heating energy class	A	A	A	A	A	A	A

ORCA DUO

LOW TEMPERATURE VERSIONS

Suitable for:
- floor/wall/celling and domestic water heating in buil-in hot water tank,
- new and well-insulated buildings,
- buildings with large heating surfaces.

OUTDOOR UNIT	MITSUBISHI ELECTRIC POWER INVERTER							
Heating	**to -20°C**			**to -25°C**				
Output water temperature	60 °C			60 °C				
Cooling	to +46 °C			–				
Voltage [V]	**1/230**	**1/230**	**1/230**	**1/230**	**3/400**	**1/230**	**3/400**	**3/400**
Outdoor unit	**SUZ-SWM40VA**	**SUZ-SWM60VA**	**SUZ-SWM80VA**	**PUD-SWM80VAA**	**PUD-SWM80YAA**	**PUD-SWM100VAA**	**PUD-SWM100YAA**	**PUD-SWM120YAA**
Nominal heat output [kW]	**4**	**6**	**8**	**8**	**8**	**10**	**10**	**12**
C.O.P. (A7/W35)	**5.2**	**4.86**	**4.7**	**4.76**	**4.76**	**5**	**5**	**4.7**
S.C.O.P. (W35)	**4.58**	**4.61**	**4.62**	**4.07**	**4.45**	**4.45**	**4.45**	**4.43**
Fuse [No.×A]	1x16	1x16	1x16	1x25	3x16	1x30	3x16	3x16
Dimensions of gas connections	1/4", 1/2"	1/4", 1/2"	1/4", 1/2"	1/4", 1/2"	1/4", 1/2"	1/4", 1/2"	1/4", 1/2"	1/4", 1/2"
Maximum height difference IU-OU [m]	30	30	30	30	30	30	30	30
Length of gas connection IU-OU [m]	5-30	5-30	5-30	2-30	2-30	2-30	2-30	2-30
Pre-charged gas up to the length of the gas connection [m]	10	10	10	10	10	10	10	10
Heating medium's nominal flow [l/min]	5-54	5-54	5-54	10-59	10-59	10-59	10-59	10-59
Sound power level [dB(A)]	58	60	62	56	56	59	59	60
Weight [kg]	54	54	54	101	114	107	120	120
Dimensions W×D×H [cm]	84×33×88	84×33×88	84×33×88	105×48×102	105×48×102	105×48×102	105×48×102	105×48×102

INDOOR UNIT	DUO 200							
Product number (set)	**12293 + 12201**	**12293 + 12194**	**12293 + 12202**	**12348 + 12224**	**12348 + 12229**	**12335 + 12225**	**12335 + 12228**	**12335 + 10706**
Hot water tank volume [L]	200							
Dimensions of gas connections	1/4", 1/2"							
Dimensions of heating system connections	1"							
Dimensions of hot water connections	1" (3/4 circulation)							
Built in circulation pump	Circulating pump - energy class A							
Switchover heating – hot water	Integrated							
Electric heater [kW]	3×3							
Heat exchanger	Swep							
Dimensions (H×W×D) [cm]	142×60×78							
Weight [kg]	180							
Device's seasonal efficiency class in average climate conditions W35	A+++	A+++	A+++	A+++	A+++	A+++	A+++	A+++
Device's seasonal efficiency class in average climate conditions W55	A++	A++	A++	A++	A++	A++	A++	A++
Device's seasonal efficiency in average climate conditions W35 (ηs)	180	181	182	178	176	178	177	176
Device's seasonal efficiency in average climate conditions W55 (ηs)	129	130	131	131	130	131	130	128
Use of hot water cycle	L	L	L	L	L	L	L	L
Sanitary water heating energy class	A+	A+	A+	A+	A+	A+	A+	A+

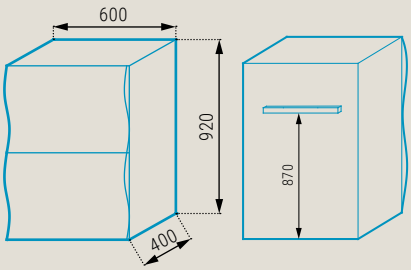
INDOOR UNIT	DUO 300 / DUO 300 SOLAR							
Product number (set)		**12294 + 12194**	**12294 + 12202**	**12349 + 12224**	**12349 + 12229**	**12336 + 12225**	**12336 + 12228**	**12336 + 12227**
Product number - solar (set)		**12295 + 12194**	**11207+12202**	**12350 + 12224**	**12350 + 12229**	**12337 + 12225**	**12337 + 12228**	**12337 + 12227**
Hot water tank volume [L]		300						
Dimensions of gas connections		1/4", 1/2"						
Dimensions of heating system connections		1"						
Dimensions of hot water connections		1" (3/4 circulation)						
Built in circulation pump		Circulating pump - energy class A						
Switchover heating – hot water		Integrated						
Electric heater [kW]		3×3						
Heat exchanger		Swep						
Dimensions (H×W×D) [cm]		182×60×78						
Weight [kg]		235						
Weight (Solar) [kg]		255						
Device's seasonal efficiency class in average climate conditions W35		A+++	A+++	A+++	A+++	A+++	A++	A++
Device's seasonal efficiency class in average climate conditions W55		A++	A++	A++	A++	A++	A++	A++
Device's seasonal efficiency in average climate conditions W35 (ηs)		181	182	178	176	178	177	176
Device's seasonal efficiency in average climate conditions W55 (ηs)		130	131	131	130	131	130	128
Use of hot water cycle		XL	XL	XL	XL	XL	XL	XL
Sanitary water heating energy class		A	A	A	A	A	A	A

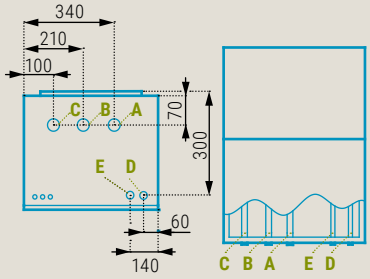
BLUEPRINTS OF DIMENSIONS AND CONNECTIONS

INDOOR UNITS

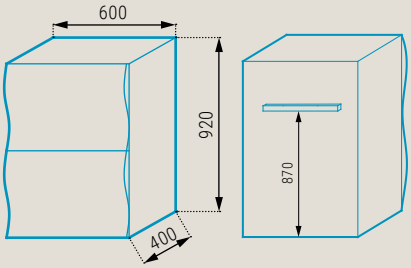
ORCA MONO SERIES

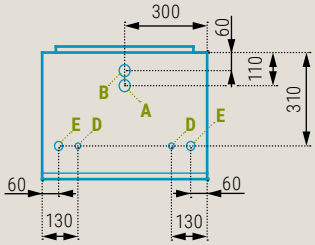
MONO / MONO XL



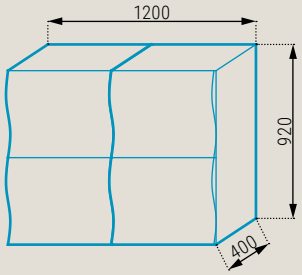


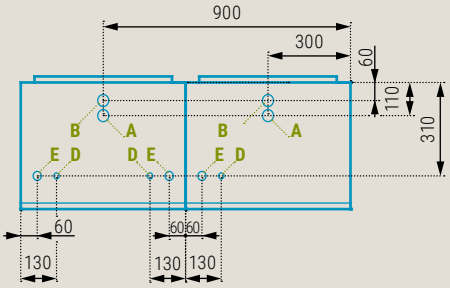
MONO 2M, MONO 2L





MONO 3M, MONO 3L
MONO 4M, MONO 4L





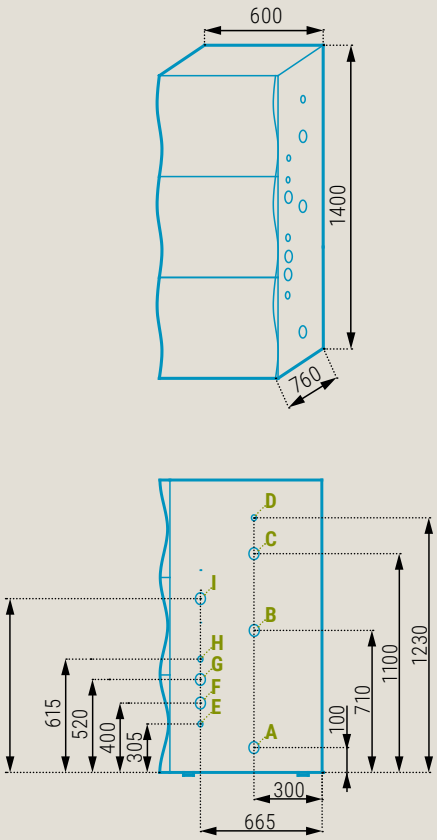
OUTDOOR UNIT	A Heating water inlet (return line) outside thread	B Heating water outlet (riser) outside thread	C Domestic water outlet outside thread	D Gas connection (liquid side)	E Gas connection (gas side)
MONO					
SUZ-SWM	1 "	1"	1"	1/4"	1/2"
PUD-S(H)WM	1"	1"	1"	1/4"	1/2"
PUHZ-SHW140YHA	1"	1"	1"	3/8"	5/8"
MONO XL					
PUHZ-SHW230YKA	1"	1"	1"	1/2"	1"
MONO CASCADE M					
PUD-S(H)WM	6/4"	6/4"	/	1/4"	1/2"
PUHZ-SHW140YHA	6/4"	6/4"	/	3/8"	5/8"
MONO CASCADE L					
PUHZ-SHW230YKA	6/4"	6/4"	/	1/2"	1"

BLUEPRINTS OF DIMENSIONS AND CONNECTIONS

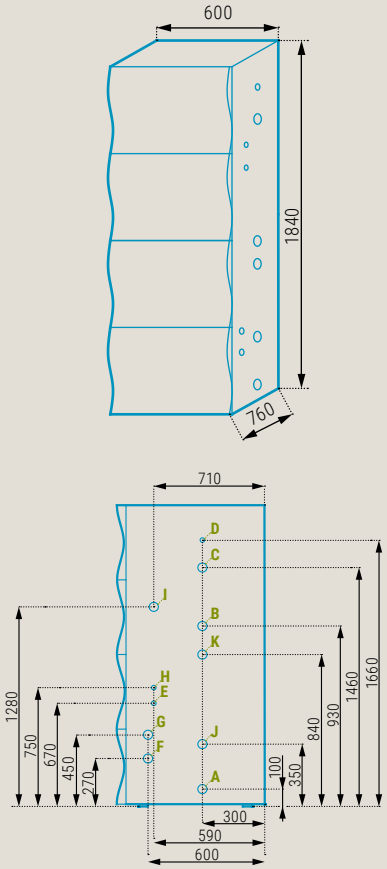
INDOOR UNITS

ORCA DUO SERIES

DUO 200



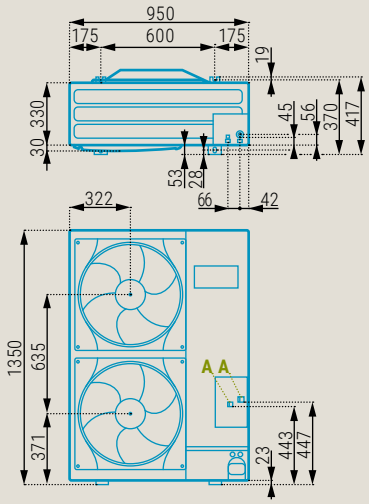
DUO 300 / DUO 300 SOLAR



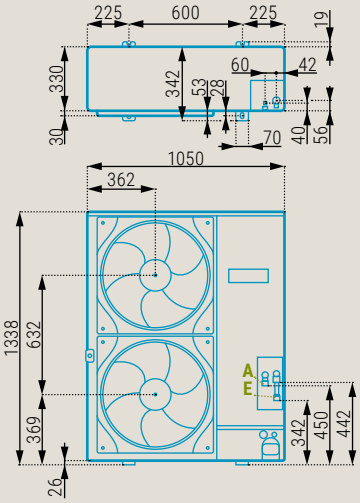
Connections	DUO 200			DUO 300 / DUO 300 SOLAR			DUO 300 XL
	SUZ-SWM	PUD-S(H)WM	PUHZ-SHW140YHA	SUZ-SWM	PUD-S(H)WM	PUHZ-SHW140YHA	PUHZ-SHW230YKA
A Cold domestic water inlet - outside thread	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
B Circuit connection of hot domestic water - inside thread	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
C Hot domestic water outlet - outside thread	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
D Safety group connection	See the blueprint						
E Gas connection – liquid side	1/4"	1/4"	3/8"	1/4"	1/4"	3/8"	1/2"
F Heating water inlet (return line) - inside thread	1"	1"	1"	1"	1"	1"	1"
G Heating water outlet (riser) - inside thread	1"	1"	1"	1"	1"	1"	1"
H Gas connection – gas side	1/2"	1/2"	5/8"	1/2"	1/2"	5/8"	1"
I Electric cable access	See the blueprint						
J Solar outlet - inside thread	/			1"	1"	1"	/
K Solar inlet - inside thread	/			1"	1"	1"	/

OUTDOOR UNITS

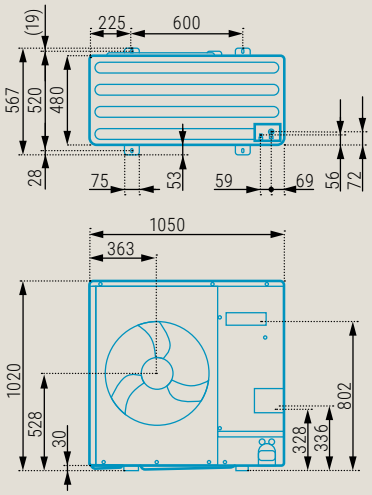
PUHZ- SHW140YHA



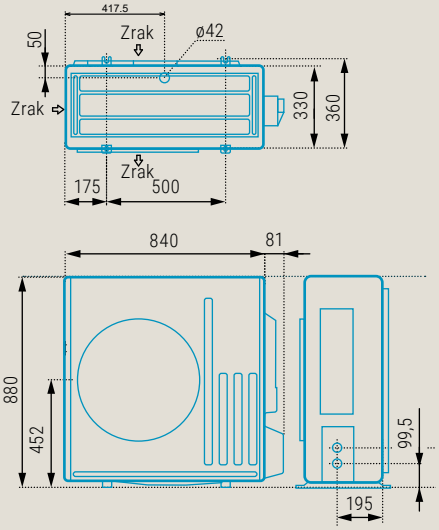
PUHZ-SHW230YKA



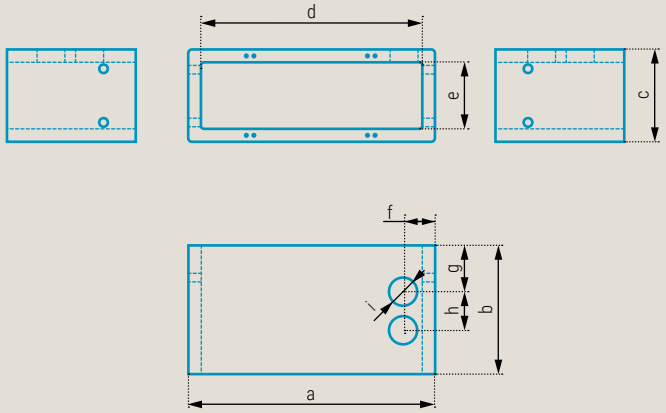
PUD-S(H)WM



SUZ-SWM



CONCRETE BASES

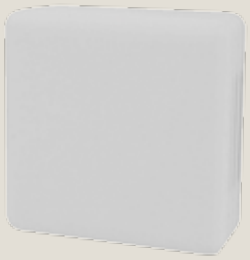


	Small	Medium	Large	Large - for new units
	SUZ-SWM	**PUHZ-SHW140YHA**	**PUHZ-SHW230YKA**	**PUD-S(H)WM**
Product number	**11196**	**10684**	**10685**	**11680**
a [cm]	98	107	115	117
b [cm]]	60	60	60	60
c [cm]	40	40	43	60
d [cm]	86	93	103	105
e [cm]	28	31	31	48
f [cm]	15	15	15	15
g [cm]	21.5	21.5	21.5	21.5
h [cm]	18	18	18	18
i [cm]	ø13	ø13	ø13	ø13

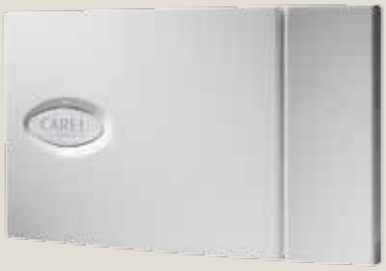
ACCESSORIES

SENSORS AND THERMOSTATES

NTC
- Precision ±0.5°C
- 2-wire connection
- Product number: 9678 (sensor) + 9859 (housing)



DWPT010000 – CAREL
- Precision ±0.3°C
- 3-wire connection
- Product number: 9680



ON-OFF WIRELESS THERMOSTAT EMOS
- Range up to 70m
- 4-wire connection
- Product number: 10663

TH-TUNE – CAREL
- Precision ±1.0°C
- 24V, 5-wire connection,
- Product number: 11941
- 230V,
- Product number: 12046

ORCA IS ALREADY RESPONSIBLE FOR HEATING OVER 15,000 HOMES IN EUROPE.

We were convinced by the efficient operation even in the worst winter.«

Zvone Š.,
Gornja Radgona,
Slovenia

We wanted an economical product, a nice design that would match our house, both outside and in the basement. The installer presented everything to us professionally, thus gaining trust. In addition, the masters did everything necessary in two days. We were convinced by the efficient operation even in the worst winter. At -20 ° C it was not necessary to turn on the electric heater. The pump operated completely independently and economically even in these extreme conditions.

I absolutely recommend the Orca heat pump to anyone who decides to replace the heating system. «

Jozef Leopold,
Eggersdorf,
Austria

Prior to the renovation, we spent 4,500 € per year on heating with heating oil. Now our annual cost is less than € 1,700, which means 2,800 € in annual savings. With a small change, we came up with big savings ... I absolutely recommend the Orca heat pump to anyone who decides to replace the heating system. Their own development, production, quality control, installation, service network throughout the EU and the guarantee of the EHPA certificate convinced even the most demanding customers on the Austrian market. Everyone is also convinced by the data on heating costs, which now amount to only max 1,700 € per year. This means 2,800 € less than before the renovation.

Your seller

Remarks

1. Certificates confirming the quality of heat pumps Orca: EHPA Certificate given by Swiss national EHPA Quality Label Commision; Seal of Approval given by Fachvereinigung Wärmepumpen Schweiz; LVD, EMC, C.O.P. certificates made by Strojírenský zkušební ústav;
2. Option of cooling: Our devices have an option of cooling (preparation of cold water). However, cooling requires an existing appropriate system in the building: overhead heating, wall heating or convection heating. Cooling is not possible with heating systems such as underfloor or radiator heating.
3. Sound level of outside unit: The described sound level is valid for Mitsubishi PUD-SWM80VAA at a distance of 5 metres, unhindered in open air, with temperature regime A7/W35.

Orca Energija d.o.o. (Orca Energy Ltd.) states that it selected the outdoor units of manufacturers Mitsubishi Electric and Fujitsu without consulting the manufacturers and bares sole responsibility for the inclusion of these units in its integrated systems.

Strojírenský zkušební ústav, s.p. Certified product

Eko sklad Slovenski okoljski javni sklad

European Quality Label for Heat Pumps ehpa

Fördergemeinschaft Wärmepumpen Schweiz FWS

TC-ENG-020-09-30 • Photos may differ from the actual product. We take no responsibility for printing errors • Design Kontrastika

Decades of cooling.
Decades of comfort.
orcaenergy.eu