



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**

WHY CHOOSE ORCA?

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



HIGHEST C.O.P. – UP TO 5.06

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 using high-quality European and Japanese parts.



INSTALLATION IN A MERE 14 HOURS

Installation of Orca Heat Pumps takes only 14 hours.



QUICK AND PROFESSIONAL MAINTENANCE

Our reliable service network ensures quick and professional maintenance.

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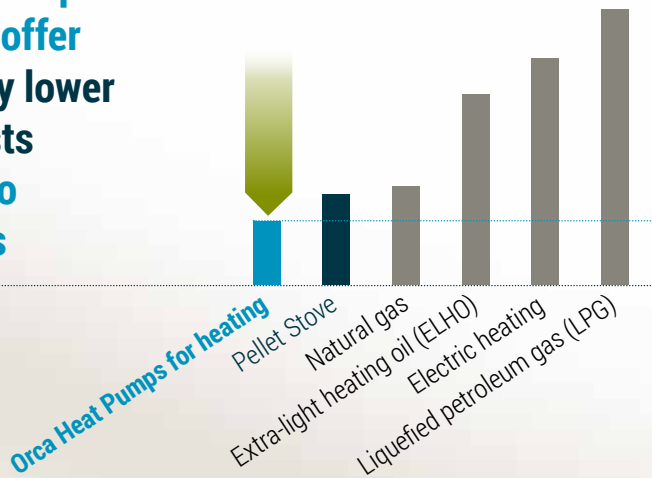
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ORCA HEAT PUMPS FOR HEATING

Facts.

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



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.

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.

ONLY 1 kWh
IS ACQUIRED FROM
ELECTRICITY

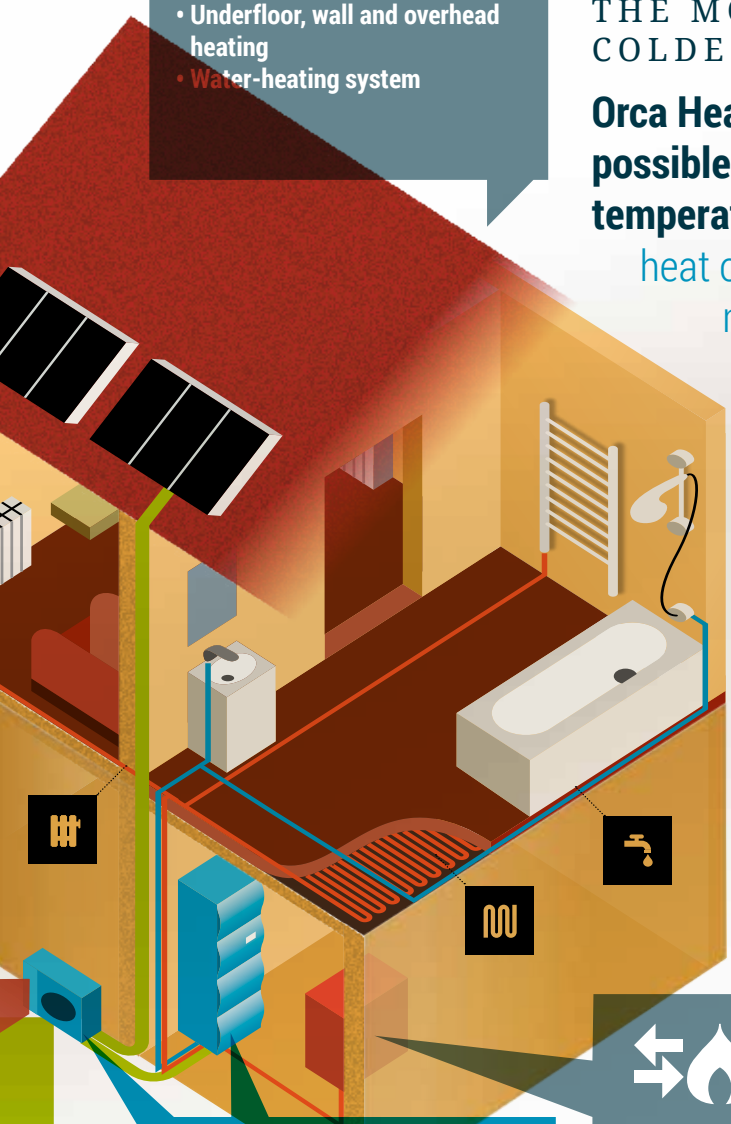
2 - 4 kWh
OF REQUIRED ENERGY
IS OBTAINED FROM THE
AIR, WHICH IS OF COURSE
FREE OF CHARGE!



A COMPLETE HEATING SOLUTION

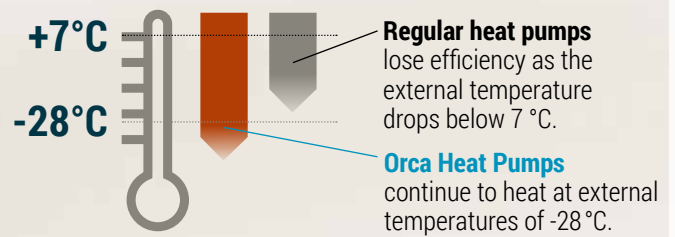
It is possible to connect to a new or existing heating system in a building:

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



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.



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.


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.





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.

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

 **Underfloor, wall and overhead heating**
for new buildings with low temperature versions.

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

 **Cooling**, even at +43°C external temperature².

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

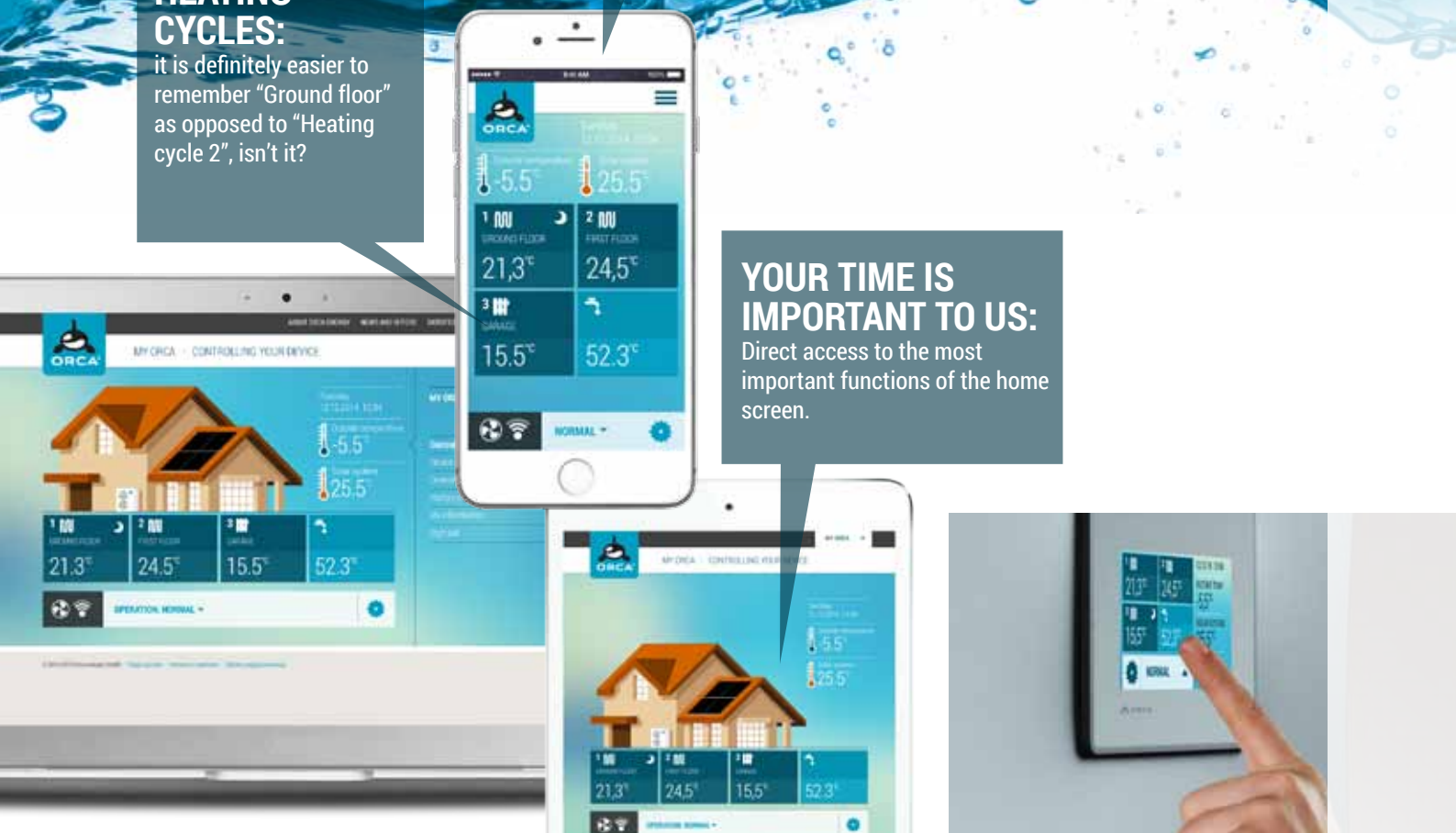
The design of the user interface is automatically adjusted to the device it is used on.

RENAME YOUR HEATING CYCLES:

it is definitely easier to remember "Ground floor" as opposed to "Heating cycle 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 TRANSMITTER

An optimized heat transmitter 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

WATER HEATERS FOR SANITARY WATER

Duo series models have an in-built vacuum enameled water heater with a big heat transmitter 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.

OUR OWN PRODUCTION

Orca heat pumps are manufactured in Maribor Slovenia, in our own production facilities. This ensures us an extraordinary level of quality control and insures you with decades of uninterrupted performance. If a malfunction does occur, our maintenance services are always near you.



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.

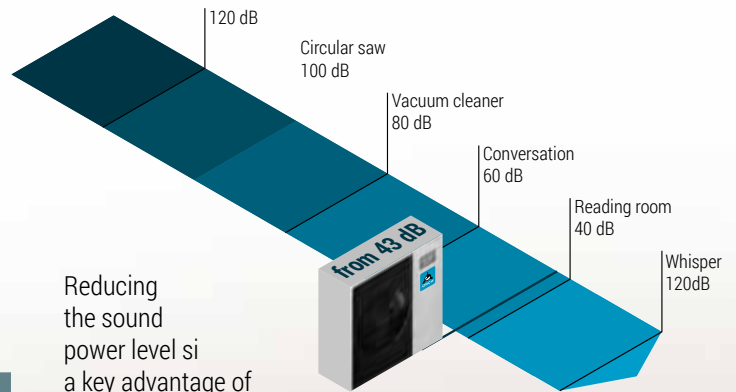


We choose only from superior outside units with evaporators that have the power to counter even the harshest of weather conditions.

Manufacturer: Mitsubishi Electric

SILENT OPERATION

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



Reducing the sound power level is a key advantage of the new model compared to previous models. Quiet operation is not at the expense of loss of heating power since Mitsubishi Electric's outdoor units are the strongest among their competitors.

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.

HIGH RELIABILITY

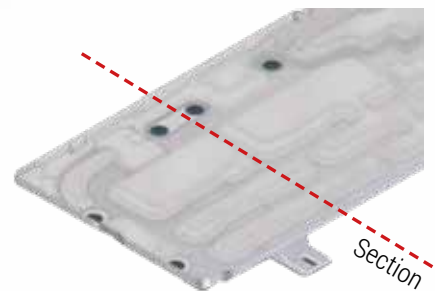
OPTIMIZED DEFROSTING AND PREVENTION OF ICE ACCUMULATION

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



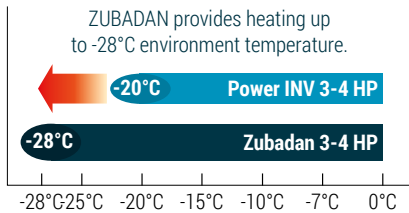
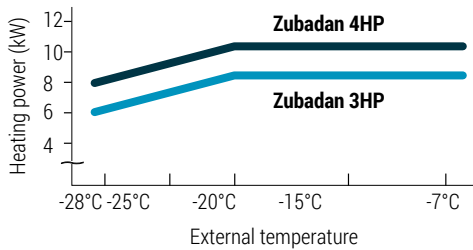


OVERVIEW OF OUTDOOR UNITS

HIGH TEMPERATURE VERSIONS

Suitable for:

- Radiator and water heating
- Buildings with large heating surfaces
- Older and poorly insulated buildings.



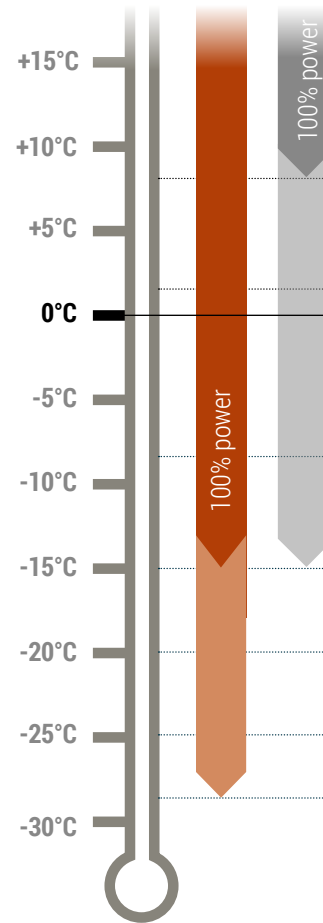
MITSUBISHI ELECTRIC ZUBADAN SERIES

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.

Mitsubishi Electric Zubadan
Typical outdoor unit
Outdoor temperature



Flash Injection Technology

Flash Injection circulation is made up of a compressor with a bypass and a heat exchanger (HIC) which prevent reduction of flow of the coolant because of the lowered pressure of the coolant on the influx of the compressor. Thus the coolant does not overheat at the outflux from the compressor, which could occur due to pressure increases – consequently there is increased heating performance at lower temperatures, an increased output temperature in the indoor unit and quicker defrosting of the outdoor unit.

Liquid Injection Technology

Liquid Injection Technology increases the gas temperature in the condenser without overheating the output gas during compression. This makes it possible to heat output water to 60 °C during external temperatures of -20 °C.





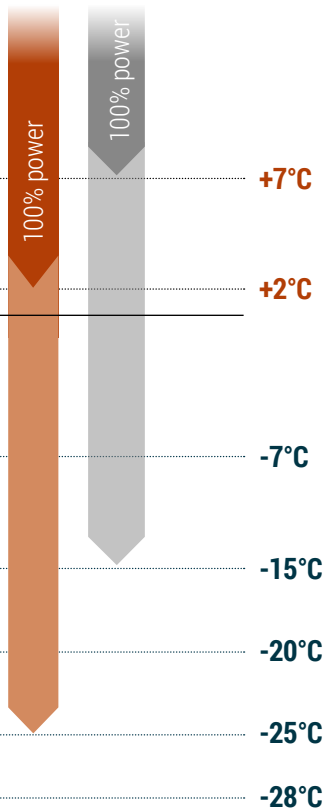
OVERVIEW OF OUTDOOR UNITS

LOW TEMPERATURE VERSIONS

Suitable for:

- Underfloor/wall/overhead heating and water heating,
- new and well insulated buildings,
- buildings with large heating surfaces

Mitsubishi Electric Power Inverter
Typical outdoor unit



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 Freon 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.

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.



OUR CONCRETE BASES

for outdoor units represent a perfect solution which makes maintenance and installation of the outdoor unit a lot easier, and additionally:

- prevents condensate from freezing,
- there is no need for condensate drainage
- there is no dirt build-up because the dimensions of our concrete bases are precisely adapted to the outdoor units.



STARTING AT 32 dB(A)³
Mitsubishi Electric outdoor units are currently deemed as one of the quietest on the market.

Mitsubishi Power Inverter Technology

The outdoor units of the Power Inverter Series are equipped with a Freon subcooler which prevents compressor overheating and the subsequent power reduction.

OVERVIEW OF PRODUCTS

MONO EXCLUSIVE SERIES HEAT PUMPS WITHOUT AN IN-BUILT WATER HEATER



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.



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 m².

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



DUO EXCLUSIVE SERIES HEAT PUMPS WITH AN IN-BUILT WATER HEATER



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	optional
✓	✓	✓	✓
✓	✓	✓	-
✓	✓	✓	✓
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✓	✓	✓	✓
✓	✓	✓	✓
✓	✓	✓	✓
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✓	✓	✓	✓
✓	✓	✓	✓

ORCA MONO EXCLUSIVE SERIES

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 exclusive. 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 EXCLUSIVE SERIES

VERSION OVERVIEW



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



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

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

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.
- Room air conditioning.

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.

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 EXCLUSIVE SERIES

HIGH TEMPERATURE VERSIONS

Suitable for:

- Radiator and water heating in an existing hot water tank,
- older and poorly-insulated buildings.



OUTDOOR UNIT		MITSUBISHI ELECTRIC ZUBADAN					
Heating		to -28°C				to -25°C	
Output water temperature		60 °C				60 °C	
Cooling		to +46 °C				to +46 °C	
Voltage [V]		1/230		3/400		3/400	
Outdoor unit		PUHZ SHW80 VAA	PUHZ SHW112 VAA	PUHZ SHW80 YAA	PUHZ SHW112 YAA	PUHZ SHW140 YHA	PUHZ SHW230 YKA
Nominal heat output [kW]		9	12.7	9	12.7	14	23
C.O.P. (A7/W35)		4.65	4.46	4.65	4.46	4.22	4.45
S.C.O.P. (W35)		4.35	4.16	4.14	4.24	3.59	
Fuse [No.×A]		1×25	1×32	3×16	3×16	3×16	3×32
Power cable [No.×mm ²]						5×2.5	5×6
Dimensions of gas connections		3/8", 5/8"	3/8", 5/8"	3/8", 5/8"	3/8", 5/8"	3/8", 5/8"	1/2", 3/4"
Maximum height difference IU-OU [m]		30	30	30	30	30	30
Length of gas connection IU-OU [m]		75	75	75	75	2-75	2-80
Pre-charged gas up to the length of the gas connection [m]		30	30	30	30	30	30
Heating medium's nominal flow [l/min]						35.8	65.9
Sound power level [dB(A)]		59	60	59	60	70	75
Weight [kg]		116	116	128	128	134	148
Dimensions (W×D×H) [cm]		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)						10647 +10705	10720 +10730
Dimensions of gas connections		3/8", 5/8"				1/2", 3/4"	
Dimensions of connections for the heating system		1"				1"	
Built in circulation pump		Circulating pump - energy class A				Circulating pump - energy class A	
Electric heater		3×3 kW				3×3 kW	
Heat exchanger		Swep				Swep	
Switchover heating-water heating		Integrated				Integrated	
Dimensions (H×W×D) [cm]		90×60×40				90×60×40	
Weight [kg]		80				85	
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 (η _s)						164	164
Device's seasonal efficiency in average climate conditions W55 (η _s)						124	124





ORCA MONO EXCLUSIVE SERIES

LOW TEMPERATURE VERSIONS

Suitable for:

- Underfloor/wall/overhead heating and water heating,
- new and well-insulated buildings
- buildings with large heating surfaces



OUTDOOR UNIT	MITSUBISHI ELECTRIC POWER INVERTER							
Heating	to -15°C				to -20°C		to -25°C	
Output water temperature	60 °C				60 °C		60 °C	
Cooling	to +46 °C				to +46 °C		to +46 °C	
Voltage [V]	1/230				1/230		3/400	
Outdoor unit	SUHZ SW45 VAH	PUHZ SW50 VKA	PUHZ SW75 VAA	PUHZ SW100 VAA	PUHZ SW75 YAA	PUHZ SW100 YAA	PUHZ SW120 VHA	PUHZ SW120 YHA
Nominal heat output [kW]	4	5	7.1	10	7.1	10	12	12
C.O.P. (A7/W35)	5.06	4.42	4.40	4.45	4.40	4.45	4.10	4.10
S.C.O.P. (W35)		4.16	3.51	3.46	3.51	3.46	4.13	3.27
Fuse [No.xA]	1x20	1x16	1x25	1x32	3x16	3x16	1x40	3x16
Power cable [No.xmm ²]	3x2.5	3x2.5	3x2.5	3x4			3x6	5x1.5
Dimensions of gas connections	1/4", 1/2"	1/4", 1/2"	3/8", 5/8"	3/8", 5/8"	3/8", 5/8"	3/8", 5/8"	3/8", 5/8"	3/8", 5/8"
Maximum height difference IU-OU [m]	30	30	30	30	30	30	30	30
Length of gas connection IU-OU [m]	2 - 30	2 - 40	40	75	40	75	75	75
Pre-charged gas up to the length of the gas connection [m]	5	5	10	10	10	10	10	10
Heating medium's nominal flow [l/min]	11.8	17.2					45.9	45.9
Sound power level [dB(A)]	42	46	58	60	58	60	51	51
Weight [kg]	54	43	92	114	104	126	118	130
Dimensions WxDxH [cm]	84x33x88	81x30x63	105x48x102	105x48x102	105x48x102	105x48x102	95x33x135	95x33x135
INDOOR UNIT	MONO							
Product number (set)	11204 +11356	11204 +10734					10647 +11030	10647 +10706
Dimensions of gas connections	3/8", 5/8"							
Dimensions of connections for the heating system	1"							
Built in circulation pump	Circulating pump - energy class A							
Electric heater	3x3 kW							
Heat exchanger	Swep							
Switchover heating-water heating	Integrated							
Dimensions (HxWxD) [cm]	90x60x40							
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 (η _s)	153	163	165	164		164	162	162
Device's seasonal efficiency in average climate conditions W55 (η _s)	116	125	127	125		125	125	125





ORCA MONO EXCLUSIVE SERIES

CASCADES HIGH TEMPERATURE VERSIONS

Suitable for:

- radiator heating in larger buildings
- larger, older and poorly-insulated buildings.

OUTDOOR UNIT		MITSUBISHI ELECTRIC ZUBADAN					
Heating		to -28°C				to -25°C	
Output water temperature		60 °C				60 °C	
Cooling		to +46 °C				to +46 °C	
Voltage [V]		1/230		3/400		3/400	
Outdoor unit		PUHZ SHW80 VAA	PUHZ SHW112 VAA	PUHZ SHW80 YAA	PUHZ SHW112 YAA	PUHZ SHW140 YHA	PUHZ SHW230 YKA
Nominal heat output [kW]		9	12.7	9	12.7	14	23
C.O.P. (A7/W35)		4.65	4.46	4.65	4.46	4.22	4.45
S.C.O.P. (W35)		4.35	4.16	4.14	4.24	3.59	
Fuse [No. x A]		1x25	1x32	3x16	3x16	3x16	3x32
Power cable [No. x mm ²]						5x2.5	5x6
Dimensions of gas connections		3/8", 5/8"	3/8", 5/8"	3/8", 5/8"	3/8", 5/8"	3/8", 5/8"	1/2", 3/4"
Maximum height difference IU-OU [m]		30	30	30	30	30	30
Length of gas connection IU-OU [m]		75	75	75	75	2 - 75	2-80
Pre-charged gas up to the length of the gas connection [m]		30	30	30	30	30	30
Heating medium's nominal flow [l/min]						35.8	65.9
Sound power level [dB(A)]		59	60	59	60	70	75
Weight [kg]		116	116	128	128	134	148
Dimensions (WxDxH) [cm]		105x48x102	105x48x102	105x48x102	105x48x102	95x33x135	105x33x134
SELECTION OF INDOOR AND OUTDOOR UNITS		MONO M VERSIONS 2-4x8-14 kW				MONO L VERSIONS 2-4x8-23 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 [m ²]		400-700				775-1,150	
Dimensions of gas connections		2x 3/8", 5/8"				2x 1/2", 3/4"	
Dimensions of connections for the heating system		6/4"				6/4"	
Built in circulation pump		2x Circulating pump - energy class A				2x Circulating pump - energy class A	
Heat exchanger		2x Swep				2x Swep	
Dimensions (HxWxD) [cm]		90x60x40				90x60x40	
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 [m ²]		600-1,050				975-1,725	
Dimensions of gas connections		3x 3/8", 5/8"				3x 1/2", 3/4"	
Dimensions of connections for the heating system		2"				2"	
Built in circulation pump		3x Circulating pump - energy class A				3x Circulating pump - energy class A	
Heat exchanger		3x Swep				3x Swep	
Dimensions (HxWxD) [cm]		90x120x40				90x120x40	
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 [m ²]		800-1,400				1,175-2,300	
Dimensions of gas connections		4x 3/8", 5/8"				4x 1/2", 3/4"	
Dimensions of connections for the heating system		2"				2"	
Built in circulation pump		4x Circulating pump - energy class A				4x Circulating pump - energy class A	
Heat exchanger		4x Swep				4x Swep	
Dimensions (HxWxD) [cm]		90x120x40				90x120x40	
Weight [kg]		190				210	





ORCA MONO EXCLUSIVE SERIES

CASCADES LOW TEMPERATURE VERSIONS

Suitable for:

- Underfloor/wall/overhead heating and water heating,
- new and well-insulated buildings
- buildings with large heating surfaces



OUTDOOR UNIT	MITSUBISHI ELECTRIC POWER INVERTER							
Heating	to -15°C		to -20°C				to -25°C	
Output water temperature	60 °C		60 °C				60 °C	
Cooling	to +46 °C		to +46 °C				to +46 °C	
Voltage [V]	1/230		1/230		3/400		1/230	
Outdoor unit	PUHZ SW45 VAH	PUHZ SW50 VKA	PUHZ SW75 VAA	PUHZ SW100 VAA	PUHZ SW75 YAA	PUHZ SW100 YAA	PUHZ SW120 VHA	PUHZ SW120 YHA
Nominal heat output [kW]	4	4.42	7.1	10	7.1	10	12	12
C.O.P. (A7/W35)	5.06	4.42	4.40	4.45	4.40	4.45	4.10	4.10
S.C.O.P. (W35)	4.16	4.16	3.51	3.46	3.51	3.46	4.13	3.27
Fuse [No. xA]	1x20	1x16	1x25	1x32	3x16	3x16	1x40	3x16
Power cable [No. xmm ²]	3x2.5	3x2.5	3x2.5	3x4			3x6	5x1.5
Dimensions of gas connections	1/4", 1/2"	1/4", 1/2"	3/8", 5/8"	3/8", 5/8"	3/8", 5/8"	3/8", 5/8"	3/8", 5/8"	3/8", 5/8"
Maximum height difference IU-OU [m]	30	30	30	30	30	30	30	30
Length of gas connection IU-OU [m]	2 - 30	2 - 40	40	75	40	75	75	75
Pre-charged gas up to the length of the gas connection [m]	5	5	10	10	10	10	10	10
Heating medium's nominal flow [l/min]	11.8	17.2					45.9	45.9
Sound power level [dB(A)]	42	46	58	60	58	60	51	51
Weight [kg]	54	43	92	114	104	126	118	130
Dimensions WxDxH [cm]	84x33x88	81x30x63	105x48x102	105x48x102	105x48x102	105x48x102	95x33x135	95x33x135

SELECTION OF INDOOR AND OUTDOOR UNITS

MONO M VERSIONS
2-4x4-12 kW

INDOOR UNIT FOR 2 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 [m ²]	150-470
Dimensions of gas connections	2x 3/8", 5/8"
Dimensions of connections for the heating system	6/4"
Built in circulation pump	2x Circulating pump - energy class A
Heat exchanger	2x Swep
Dimensions (HxWxD) [cm]	90x60x40
Weight [kg]	95

INDOOR UNIT FOR 3 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 [m ²]	225-705
Dimensions of gas connections	3x 3/8", 5/8"
Dimensions of connections for the heating system	2"
Built in circulation pump	3x Circulating pump - energy class A
Heat exchanger	3x Swep
Dimensions (HxWxD) [cm]	90x120x40
Weight [kg]	160

INDOOR UNIT FOR 4 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 [m ²]	300-940
Dimensions of gas connections	4x 3/8", 5/8"
Dimensions of connections for the heating system	2"
Built in circulation pump	4x Circulating pump - energy class A
Heat exchanger	4x Swep
Dimensions (HxWxD) [cm]	90x120x40
Weight [kg]	190

ORCA DUO
EXCLUSIVE
SERIES

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

BUILT-IN
HOT WATER
TANK

C.O.P. 5,06

(A7/W35)
MITSUBISHI
(SUHZ-15 SW45 VAH)

OPERATE IN OUTSIDE
TEMPERATURES AS

LOW AS **-28°C**
WITHOUT AN ELECTRIC
HEATERHEATER

*Duo
exclusive
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.



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

Orca Duo 200 is ideal for households of two to four people, because of its 200 litre 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.
- Room air conditioning.

Safety and Security

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



**SOLAR
SYSTEM**
OPTION OF A
CONNECTION TO A
SOLAR SYSTEM

BESTSELLER

**DUO 300
DUO 300 EXCLUSIVE
SOLAR**
SPACE AND WATER HEATING
IN A BUILT-IN 300 L HOT WATER
TANK.

Orca Duo 300 is a very capable heating system intended for households with more than four family members. The built-in 300L 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 m². Thus heating costs can be further reduced.



ORCA DUO EXCLUSIVE SERIES

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 -25°C		
Output water temperature		60 °C			60 °C		
Cooling		to +46 °C			to +46 °C		
Voltage [V]		1/230		3/400		3/400	
Outdoor unit		PUHZ SHW80 VAA	PUHZ SHW112 VAA	PUHZ SHW80 YAA	PUHZ SHW112 YAA	PUHZ SHW140 YHA	PUHZ SHW230 YKA
Nominal heat output [kW]		9	12.7	9	12.7	14	23
C.O.P. (A7/W35)		4.65	4.46	4.65	4.46	4.22	4.45
S.C.O.P. (W35)		4.35	4.16	4.14	4.24	3.59	
Fuse [No.xA]		1x25	1x32	3x16	3x16	3x16	3x32
Power cable [No.xmm ²]						5x2.5	5x6
Dimensions of gas connections		3/8", 5/8"	3/8", 5/8"	3/8", 5/8"	3/8", 5/8"	3/8", 5/8"	1/2", 3/4"
Maximum height difference IU-OU [m]		30	30	30	30	30	30
Length of gas connection IU-OU [m]		75	75	75	75	2-75	2-80
Pre-charged gas up to the length of the gas connection [m]		30	30	30	30	30	30
Heating medium's nominal flow [l/min]						35.8	65.9
Sound power level [dB(A)]		59	60	59	60	70	75
Weight [kg]		116	116	128	128	134	148
Dimensions (WxDxH) [cm]		105x48x102	105x48x102	105x48x102	105x48x102	95x33x135	105x33x134
INDOOR UNIT		DUO 200					
Product number (set)						10714 +10705	
Hot water tank volume [L]		200					
Dimensions of gas connections		3/8", 5/8"					
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]		3x3					
Heat exchanger		Swep					
Dimensions (HxWxD) [cm]		142x60x78					
Weight [kg]		180					
Device's seasonal efficiency class in average climate conditions W35		A ⁺⁺	A ⁺⁺	A ⁺⁺	A ⁺⁺	A ⁺⁺	-
Device's seasonal efficiency class in average climate conditions W55		A ⁺⁺	A ⁺⁺	A ⁺⁺	A ⁺⁺	A ⁺⁺	-
Device's seasonal efficiency in average climate conditions W35 (η _s)		171					164
Device's seasonal efficiency in average climate conditions W55 (η _s)		131					124
Use of hot water cycle		L	L	L	L	L	-
Sanitary water heating energy class		A	A ⁺⁺	A ⁺⁺	A ⁺⁺	A	-
INDOOR UNIT		DUO 300 / DUO 300 SOLAR				DUO 300 XL / DUO 300 XL SOLAR	
Product number (set)		11206 +10731				10514 +10705	10718 +10730
Product number - solar (set)		11207 +10731				10591 +10705	10719 +10730
Hot water tank volume [L]		300					
Dimensions of gas connections		3/8", 5/8"					
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]		3x3					
Heat exchanger		Swep					
Dimensions (HxWxD) [cm]		182x60x78					
Weight [kg]		235					
Weight (Solar) [kg]		255					
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 (η _s)		171					164
Device's seasonal efficiency in average climate conditions W55 (η _s)		131					124
Use of hot water cycle		XL	XL	XL	XL	XL	XL
Sanitary water heating energy class		A	A ⁺⁺	A ⁺⁺	A ⁺⁺	A	A



ORCA DUO EXCLUSIVE SERIES

LOW TEMPERATURE VERSIONS

Suitable for:

- Underfloor/wall/overhead heating and water heating in a built-in hot water tank,
- new and well-insulated buildings
- buildings with large heating surfaces



OUTDOOR UNIT	MITSUBISHI ELECTRICPOWER INVERTER									
Heating	to -15°C				to -20°C				to -25°C	
Output water temperature	60 °C				60 °C				60 °C	
Cooling	to +46 °C				to +46 °C				to +46 °C	
Voltage [V]	1/230		1/230		3/400		1/230		3/400	
Outdoor unit	SUHZ SW45 VAH	PUHZ SW50 VKA	PUHZ SW75 VAA	PUHZ SW100 VAA	PUHZ SW75 YAA	PUHZ SW100 YAA	PUHZ SW120 VHA	PUHZ SW120 YHA		
Nominal heat output [kW]	4	5	7.1	10	7.1	10	12	12		
C.O.P. (A7/W35)	5.06	4.42	4.40	4.45	4.40	4.45	4.10	4.10		
S.C.O.P. (W35)		4.16	3.51	3.46	3.51	3.46	4.13	3.27		
Fuse [No.xA]	1x20	1x16	1x25	1x32	3x16	3x16	1x40	3x16		
Power cable [No.xmm ²]	3x2.5	3x2.5	3x2.5	3x4			3x6	5x1.5		
Dimensions of gas connections	1/4", 1/2"	1/4", 1/2"	3/8", 5/8"	3/8", 5/8"	3/8", 5/8"	3/8", 5/8"	3/8", 5/8"	3/8", 5/8"		
Maximum height difference IU-OU [m]	30	30	30	30	30	30	30	30		
Length of gas connection IU-OU [m]	2 - 30	2 - 40	40	75	40	75	75	75		
Pre-charged gas up to the length of the gas connection [m]	5	5	10	10	10	10	10	10		
Heating medium's nominal flow [l/min]	11.8	17.2					45.9	45.9		
Sound power level [dB(A)]	42	46	58	60	58	60	51	51		
Weight [kg]	54	43	92	114	104	126	118	130		
Dimensions WxDxH [cm]	84x33x88	81x30x63	105x48x102	105x48x102	105x48x102	105x48x102	95x33x135	95x33x135		

INDOOR UNIT	DUO 200							
Product number (set)	11205 +11356	11205 +10734					10714 +11030	10714 +10706
Hot water tank volume [L]	200							
Dimensions of gas connections	3/8", 5/8"							
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]	3x3							
Heat exchanger	Sweep							
Dimensions (HxWxD) [cm]	142x60x78							
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 (η _s)	153	163	165	164		164	162	162
Device's seasonal efficiency in average climate conditions W55 (η _s)	116	125	127	125		125	125	125
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

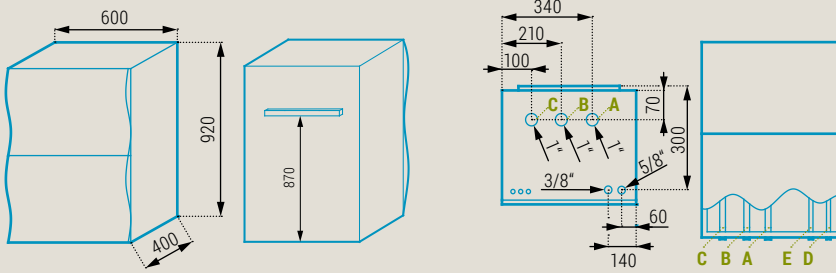
INDOOR UNIT	DUO 300 / DUO 300 SOLAR								
Product number (set)	11206 +11356	11206 +10734	11206 +10733				10514 +10732	10514 +11030	10514 +10706
Product number - solar (set)	11207 +11356	11207 +10734	11207 +10733				10591 +10732	10591 +11030	10591 +10706
Hot water tank volume [L]	300								
Dimensions of gas connections	3/8", 5/8"								
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]	3x3								
Heat exchanger	Sweep								
Dimensions (HxWxD) [cm]	182x60x78								
Weight [kg]	235								
Weight (Solar) [kg]	255								
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 (η _s)	153	163	165	164		164	162	162	
Device's seasonal efficiency in average climate conditions W55 (η _s)	116	125	127	125		125	125	125	
Use of hot water cycle	XL	XL	XL	XL	XL	XL	XL	XL	
Sanitary water heating energy class	A	A	A	A	A	A	A	A	

BLUEPRINTS OF DIMENSIONS AND CONNECTIONS

INDOOR UNITS

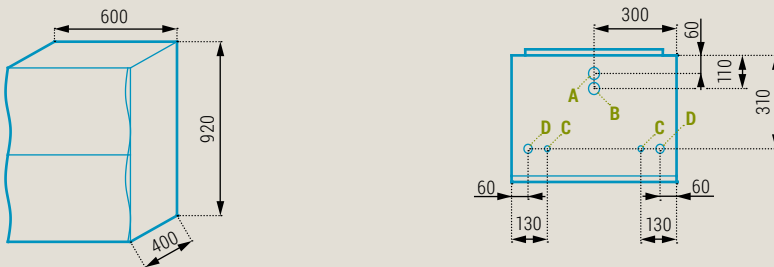
ORCA MONO SERIES

MONO / MONO XL



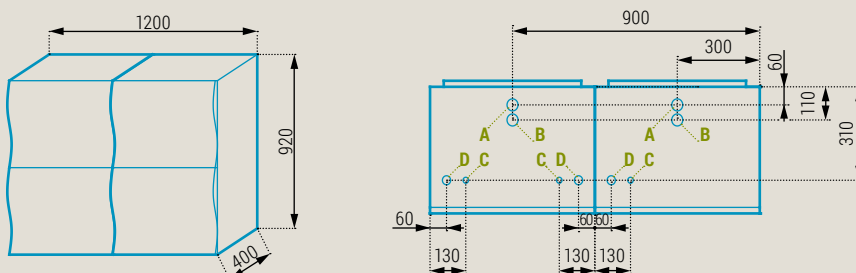
A	Heating water outlet (hot water) - 1" outside thread
B	Heating water outlet (riser) - 1" outside thread
C	Heating water inlet (return line) - 1" outside thread
D	Liquid connection 3/8" (MONO XL 1/2")
E	Gas connection 5/8" (MONO XL 3/4")

MONO CASCADE: MONO 2M, MONO 2L



A	Water outlet (riser) 6/4"	Outside thread
B	Water inlet (return line) 6/4"	Outside thread
C	Gas connection 1/2" - MONO 2L	MONO 2M has a 3/8" connection
D	Gas connection 3/4" - MONO 2L	MONO 2M has a 5/8" connection

MONO CASCADE: MONO 3M, MONO 3L, MONO 4M, MONO 4L



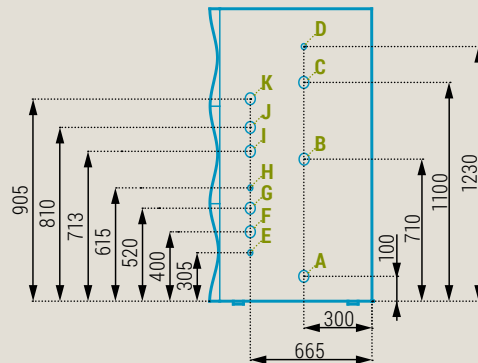
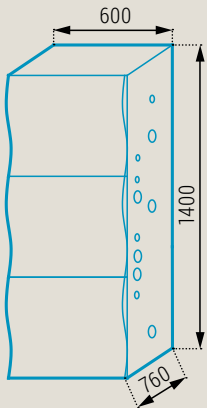
A	Water outlet (riser) 6/4"	Outside thread
B	Water inlet (return line) 6/4"	Outside thread
C	Gas connection 1/2" - MONO 2L	MONO 2M has a 3/8" connection
D	Gas connection 3/4" - MONO 2L	MONO 2M has a 5/8" connection

BLUEPRINTS OF DIMENSIONS AND CONNECTIONS

INDOOR UNITS

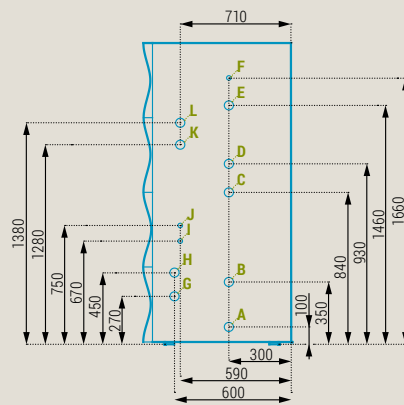
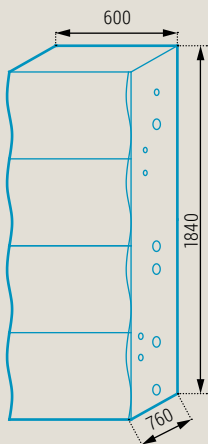
ORCA DUO SERIES

DUO 200



A	Cold heating water inlet - 1" outside thread
B	Circuit connection of hot water - 3/4" inside thread
C	Hot heating water outlet - 1" outside thread
D	Safety group connection
E	Gas connection 3/8"
F	Heating water inlet (return line) - 1" inside thread
G	Heating water outlet (riser) - 1" inside thread
H	Gas connection 5/8"
I	Opening for maintenance of electric heater
J	Opening for laying electric cables
K	

DUO 300 / DUO 300 SOLAR



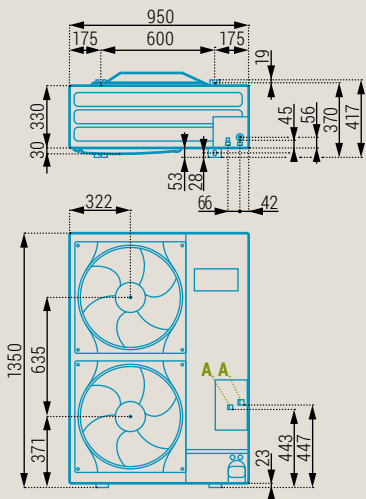
A	Cold heating water inlet - 1" outside thread
B	Solar outlet (only DUO SOLAR) - 1" inside thread
C	Solar inlet (only DUO SOLAR) - 1" inside thread
D	Circuit connection of hot water - 3/4" inside thread
E	Hot heating water outlet - 1" outside thread
F	Safety group connection
G	Heating water inlet (return line) - 1" inside thread
H	Heating water outlet (riser) - 1" inside thread
I	Gas connection 3/8" (DUO XL 1/2")
J	Gas connection 5/8" (DUO XL 3/4")
K	Opening for laying electric cables
L	

BLUEPRINTS OF DIMENSIONS AND CONNECTIONS

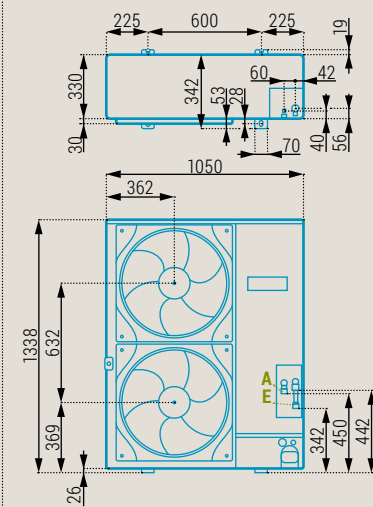
OUTDOOR UNITS

MISUBISHI ELECTRIC ZUBADAN

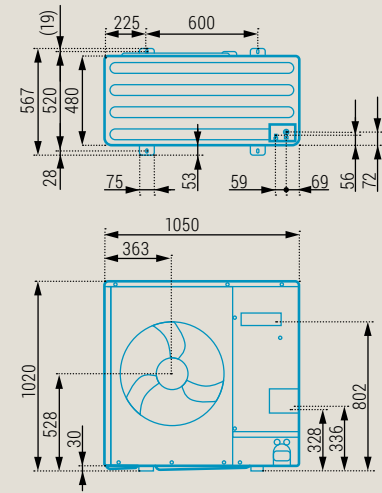
PUHZ-SHW140YHA



PUHZ-SHW230YKA

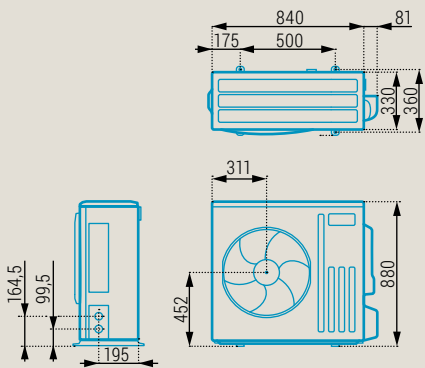


PUHZ-SHW80VAA/YAA
PUHZ-SHW112VAA/YAA

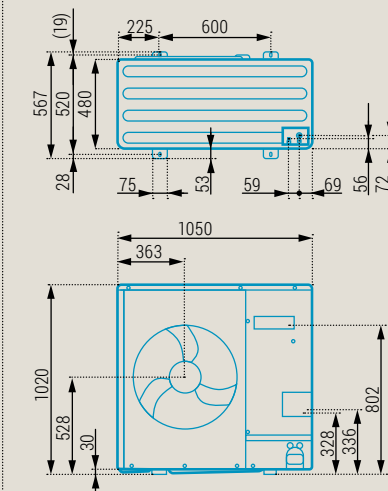


MISUBISHI ELECTRIC POWER INVERTER

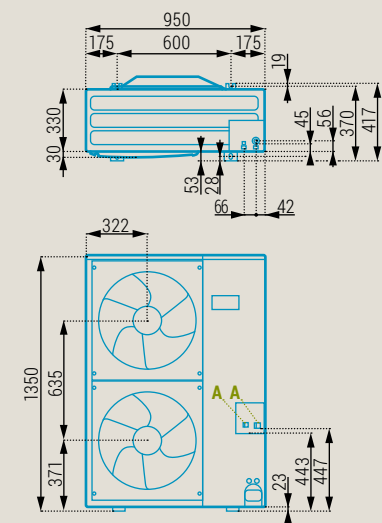
SUHZ-SW45VAH



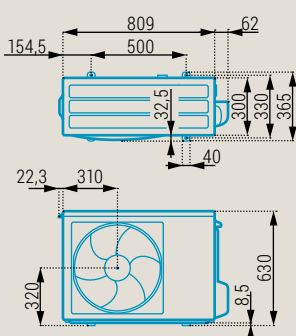
PUHZ-SW75VAA/YAA
PUHZ-SW100VAA/YAA



PUHZ-SW100YHA/VHA



PUHZ-SW50VKA

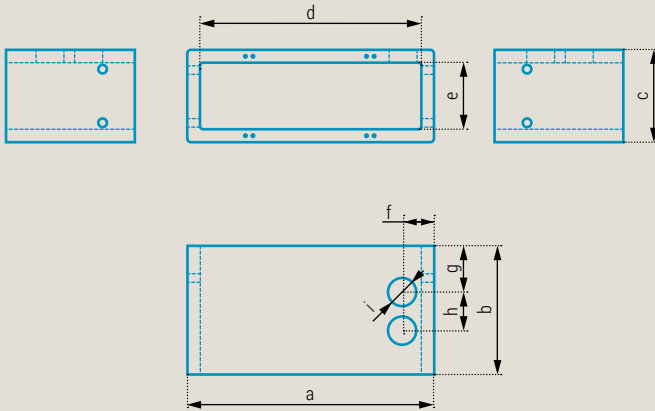


BLUEPRINTS OF DIMENSIONS AND CONNECTIONS

CONCRETE BASES

SENSORS

CONCRETE BASES



	Small SW 45/50	Medium SW 75/100/120 SHW 80/112/140	Veliki SHW 230	Large - for new units SHW 80/112 VAA SHW 80/112 YAA SHW 75/100 VAA SHW 75/100 YAA
(cm)				
a	98	105	115	117
b	60	60	60	60
c	40	43	43	60
d	86	93	103	105
e	28	31	31	48
f	15	15	15	15
g	21.5	21.5	21.5	21.5
h	18	18	18	18
i	∅13	∅13	∅13	∅13

SENSORS

NTC

- Precision $\pm 0.5^{\circ}\text{C}$
- 2-wire connection
- Product number: 9678+9859



DWPT010000 – CAREL

- Precision $\pm 0.3^{\circ}\text{C}$
- 3-wire connection
- Product number: 9680



TH-TUNE – CAREL

- Precision $\pm 1.0^{\circ}\text{C}$
- Temperature settings
- 5-wire connection
- Product number: 11941



ON-OFF WIRELESS THERMOSTAT EMOS

- Range up to 70m
- 4-wire connection
- Product number: 10663





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

Orcas are sociable animals which take great care of their families. They behave so very much like humans that certain tribes believed that human souls were trapped in these beautiful animals. Orcas don't mind the heat or the cold. They live in the extreme cold of the Arctic Sea as well as in the tropical seas near the equator. Despite the cold or the heat, they hunt, socialize and love.

FREEDOM

You and your family wish to be just as free and independent from weather conditions. And financially as well? Because we share your wishes and values we have given our company the name of this powerful and free sea creature.

QUALITY

We have top experts from the field of cost-efficient heating working in our development labs, designing the flawless production of heating and cooling systems with advanced technologies and pinpoint precision. To consistently maintain quality, our systems are manufactured in the EU, except for certain components supplied by Mitsubishi Electric and Fujitsu, both high quality manufacturers from Japan. We are aware that purchasing our heating and cooling systems represents a long term investment for you, and that is why we keep the flawless operation of our devices in mind, from the first sketch to the final product.

ENVIRONMENT

We use green energy sources for our products, and we are very responsible towards the local and global environment. Together we can make a small step towards fighting climate change, which endangers humanity and the oceans of our symbol – the orca.

Your seller

Remarks

1. Certificates confirming the quality of heat pumps Orca: EHPA Certificate given by Swiss national EHPA Quality Label Commission; Seal of Approval given by Fachvereinigung Wärmepumpen Schweiz; LVD, EMC, C.O.P. certificates made by Strojirenský 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 75-YAA 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.



TC-ENG-019-05-07

Photos may differ from the actual product. We take no responsibility for printing errors • Design: Kontrastika

**Decades of cooling.
Decades of comfort.**
orcaenergy.eu