



## HEAT PUMPS FOR HEATING MONO/SINGLE EXCLUSIVE DUO/DOUBLE EXCLUSIVE AIR-TO-WATER LOW TEMPERATURE VERSIONS

### A COMPLETE HEATING SOLUTION

#### Orca Mono/Single Exclusive Series and Duo/Double Exclusive Series

enables you to heat space and water. Warm water of the Duo/Double 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 Mono/Single** Heat Pumps are available in power range from 4 to 12kW and enables water heating in an existing hot water tank.

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

**Orca Duo/Double 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/Double 300 Solar** has the same properties as the Duo/Double 300, however, it also enables connection to solar panels with an additional heat exchanger with a surface area of 1.3 m<sup>2</sup>. Thus heating costs can be further reduced.

#### Savings

- Space and water heating without an electric heater in outdoor temperatures as low as -25 °C
- High output water temperatures: up to 60 °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).



HEATING ENERGY CLASS  
A++  
DEVICE'S SEASONAL EFFICIENCY

OPERATE IN OUTSIDE TEMPERATURES AS LOW AS  
-25°C  
WITHOUT AN ELECTRIC HEATER

5 YEAR WARRANTY ON HOT WATER TANK

Your seller

A small change.  
Big savings.  
[orcaenergy.eu](http://orcaenergy.eu)

# 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							FUJITSU COMFORT		
Heating	to -20 °C		to -25 °C					to -25 °C		
Output water temperature	60 °C		60 °C					55 °C		
Cooling	to +46 °C		to +46 °C					to +43 °C		
Outdoor unit	SUHZ-SW45 VAH	PUHZ-SW50 VKA	PUHZ-SW75 VHA	PUHZ-SW100 VHA	PUHZ-SW100 YHA	PUHZ-SW120 VHA	PUHZ-SW120 YHA	WOYA 060LFCA	WOYA 080LFCA	WOYA 100LFCA
Heat output (kW) Minimal/Nominal/Maximal	22/4/6,4	23/5/7,3	3,8/7,5/10,2	5,4/10/14,8	5,4/10/14,8	5,8/12/17,3	5,8/12/17,3	1,8/6/7,2	2,8/8/9,6	3,5/10/12
Heating surface (A-15/W35) <sup>F</sup>	75 m <sup>2</sup>	85 m <sup>2</sup>	150 m <sup>2</sup>	205 m <sup>2</sup>	205 m <sup>2</sup>	235 m <sup>2</sup>	235 m <sup>2</sup>	100 m <sup>2</sup>	135 m <sup>2</sup>	180 m <sup>2</sup>
C.O.P. (A7/W35)	5,02	5,01	4,97	4,96	4,96	4,96	4,96	4,27	4,08	4,02
Voltage	1Ph/230 V	1Ph/230 V	1Ph/230 V	1Ph/230 V	3Ph/400 V	1Ph/230 V	3Ph/400 V	1Ph/230 V	1Ph/230 V	1Ph/230 V
Fuse	1x16 A	1x16 A	1x25 A	1x32 A	3x16 A	1x32 A	3x16 A	1x16 A	1x20 A	1x25 A
Power cable	3x2,5 mm <sup>2</sup>	3x2,5 mm <sup>2</sup>	3x4 mm <sup>2</sup>	3x6 mm <sup>2</sup>	5x2,5 mm <sup>2</sup>	3x6 mm <sup>2</sup>	5x2,5 mm <sup>2</sup>	3x4 mm <sup>2</sup>	3x4 mm <sup>2</sup>	3x4 mm <sup>2</sup>
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"	1/4", 1/2"	1/4", 5/8"	3/8", 5/8"
Maximum height difference IU-OU (m)	30	30	30	30	30	30	30	15	15	15
Length of gas connection IU-OU (m)	2 - 30	2 - 40	2 - 40	2 - 75	2 - 75	2 - 75	2 - 75	5 - 20	5 - 20	5 - 20
Pre-charged gas up to the length of the gas connection (m)	5	5	10	10	10	10	10	10	10	10
Filling of gas above the pre-charged length (g/m)	20	20	20	20	20	20	20	20	20	40
Heating medium's nominal flow (l/min)	12,9	17,2	22,9	32,1	32,1	45,9	45,9	16,3	20,3	27,1
Weight	54 kg	43 kg	75 kg	118 kg	130 kg	118 kg	130 kg	41 kg	42 kg	90 kg
Weight WxDxH (cm)	84x33x88	81x30x63	95x33x94,3	95x33x135	95x33x135	95x33x135	95x33x135	79x29x62	79x29x62	90x33x83

INDOOR UNIT	MONO							SINGLE		
Product number (set)	11204 +11356	11204 +10734	11204 +10733	10647 +7280	10647 +10732	10647 +11030	10647 +10706	11208 +10741	11208 +11373	10262 +10743
Dimensions of gas connections	3/8", 5/8"							3/8", 5/8"		
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	3x3 kW							3x3 kW		
Heat exchanger	Swep							Swep		
Switchover heating-water heating	Integrated							Integrated		
Dimensions (HxWxD)	900x600x400 mm							900x600x400 mm		
Weight	80 kg							80 kg		

INDOOR UNIT	DUO 200							DOUBLE 200		
Product number (set)	11205 +11356	11205 +10734	11205 +10733	10714 +7280	10714 +10732	10714 +11030	10714 +10706	11209 +10741	11209 +11373	10716 +10743
Hot water tank volume	200 L							200 L		
Dimensions of gas connections	3/8", 5/8"							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	3x3 kW							3x3 kW		
Heat exchanger	Swep							Swep		
Dimensions (HxWxD)	142x60x78							142x60x78		
Weight	180 kg							180 kg		

INDOOR UNIT	DUO 300 / DUO 300 SOLAR							DOUBLE 300 / DOUBLE 300 SOLAR		
Product number (set)	11206 +11356	11206 +10734	11206 +10733	10514 +7280	10514 +10732	10514 +11030	10514 +10706	11210 +10741	11210 +11373	10261 +10743
Product number - solar (set)	11207 +11356	11207 +10734	11207 +10733	10591 +7280	10591 +10732	10591 +11030	10591 +10706	11211 +10741	11211 +11373	10667 +10743
Hot water tank volume	300 L							300 L		
Dimensions of gas connections	3/8", 5/8"							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	3x3 kW							3x3 kW		
Heat exchanger	Swep							Swep		
Dimensions (HxWxD)	182x60x78							182x60x78		
Weight	235 kg							235 kg		
Weight (Solar)	255 kg							255 kg		
Device's seasonal efficiency class in average climate conditions W35	A <sup>+</sup>	A <sup>++</sup>	A <sup>++</sup>	A <sup>++</sup>	A <sup>++</sup>	A <sup>++</sup>	A <sup>++</sup>	A <sup>++</sup>	A <sup>++</sup>	A <sup>++</sup>
Device's seasonal efficiency class in average climate conditions W55	A <sup>+</sup>	A <sup>+</sup>	A <sup>+</sup>	A <sup>+</sup>	A <sup>+</sup>	A <sup>+</sup>	A <sup>+</sup>	A <sup>+</sup>	A <sup>+</sup>	A <sup>+</sup>
Device's seasonal efficiency in average climate conditions W35 (η <sub>s</sub> )	153	163	165	164	164	162	162	169	156	155
Device's seasonal efficiency in average climate conditions W55 (η <sub>s</sub> )	116	125	127	125	125	125	125	115	118	113
Use of hot water cycle DUO 200	L	L	L	L	L	L	L	L	L	L
Use of hot water cycle DUO 300	XL	XL	XL	XL	XL	XL	XL	XL	XL	XL
Sanitary water heating energy class	A	A	A	A	A	A	A	A	A	A