



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.xA]	1x25	3x16	3x16	3x16	3x16	3x16	3x32	
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 (WxDxH) [cm]	105x48x102	105x48x102	105x48x102	105x48x102	105x48x102	95x33x135	105x33x134	

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	3x3 kW					3x3 kW	3x3 kW
Heat exchanger	Swep					Swep	Swep
Switchover heating-water heating	Integrated					Integrated	Integrated
Dimensions (HxWxD) [cm]	90x60x40					90x60x40	90x60x40
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)	176	176	166	159	157	164	164
Device's seasonal efficiency in average climate conditions W55 (ηs)	130	130	126	125	121	124	124





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		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 xA]	1x25	3x16	3x16	3x16	3x16	3x16	3x32	
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 (WxDxH) [cm]	105x48x102	105x48x102	105x48x102	105x48x102	105x48x102	95x33x135	105x33x134	
SELECTION OF INDOOR AND OUTDOOR UNITS	MONO M VERSIONS 2-4 x 8-14 kW					MONO L VERSIONS 2-4 x 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	2x 1/4", 1/2" (PUD) ali 2x 3/8", 5/8" (PUHZ)					2x 1/2", 1"		
Dimensions of connections for the heating system	6/4"					6/4"		
Built in circulation pump	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 [m²]	600-1,050					975-1,725		
Dimensions of gas connections	3x 1/4", 1/2" (PUD) ali 3x 3/8", 5/8" (PUHZ)					3x 1/2", 1"		
Dimensions of connections for the heating system	2"					2"		
Built in circulation pump	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 [m²]	800-1,400					1,175-2,300		
Dimensions of gas connections	4x 1/4", 1/2" (PUD) ali 4x 3/8", 5/8" (PUHZ)					4x 1/2", 1"		
Dimensions of connections for the heating system	2"					2"		
Built in circulation pump	4x Circulating pump - energy class A							
Heat exchanger	4x Swep					4x Swep		
Dimensions (HxWxD) [cm]	90x120x40					90x120x40		
Weight [kg]	190					210		



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		to +46 °C	
Cooling	-							
Voltage [V]	1/230	3/400	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.xA]	1x25	3x16	3x16	3x16	3x16	3x16	3x32	
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 (WxDxH) [cm]	105x48x102	105x48x102	105x48x102	105x48x102	105x48x102	95x33x135	105x33x134	
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]	3x3				3x3		-	
Heat exchanger	Swep				Swep		-	
Dimensions (HxWxD) [cm]	142x60x78				142x60x78		-	
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)	176	176	166	159	157	164	-	
Device's seasonal efficiency in average climate conditions W55 (ηs)	130	130	126	125	121	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		Circulating pump - energy class A	
Switchover heating - hot water	Integrated				Integrated		Integrated	
Electric heater [kW]	3x3				3x3		3x3	
Heat exchanger	Swep				Swep		Swep	
Dimensions (HxWxD) [cm]	182x60x78				182x60x78		182x60x78	
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)	176	176	166	159	157	164	164	
Device's seasonal efficiency in average climate conditions W55 (ηs)	130	130	126	125	121	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	