



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							
Output water temperature		60 °C				to -28°C		to -25°C	
Cooling		to +46 °C							
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		
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	





ORCA DUO

LOW TEMPERATURE VERSIONS

Suitable for:

- floor/wall/ceiling and domestic water heating in built-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	3/400	
Outdoor unit	SUZ-SWM40VA	SUZ-SWM60VA	SUZ-SWM80VA	PUD-SWM80VAA	PUD-SWM80YAA	PUD-SWM100VAA	PUD-SWM100YAA	PUD-SWM120YAA	PUD-SWM120YAA	
Nominal heat output [kW]	4	6	8	8	8	10	10	12	12	
C.O.P. (A7/W35)	5.2	4.86	4.7	4.76	4.76	5	5	4.7	4.7	
S.C.O.P. (W35)	4.58	4.61	4.62	4.07	4.45	4.45	4.45	4.43	4.43	
Fuse [No.xA]	1x16	1x16	1x16	1x25	3x16	1x30	3x16	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"	1/4", 1/2"	
Maximum height difference IU-OU [m]	30	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	2-30	
Pre-charged gas up to the length of the gas connection [m]	10	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	10-59	
Sound power level [dB(A)]	58	60	62	56	56	59	59	60	60	
Weight [kg]	54	54	54	101	114	107	120	120	120	
Dimensions WxDxH [cm]	84x33x88	84x33x88	84x33x88	105x48x102	105x48x102	105x48x102	105x48x102	105x48x102	105x48x102	
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]	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++	A++	A++	A++	A+++	
Device's seasonal efficiency class in average climate conditions W55	A+	A+	A+	A+	A+	A+	A+	A+	A+	
Device's seasonal efficiency in average climate conditions W35 (ηs)	180	181	182	169	169	169	169	176		
Device's seasonal efficiency in average climate conditions W55 (ηs)	129	130	131	131	131	131	131	128		
Use of hot water cycle	L	L	L	L	L	L	L	L	L	
Sanitary water heating energy class	A+	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]	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++	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)		181	182	169	169	169	169	176		
Device's seasonal efficiency in average climate conditions W55 (ηs)		130	131	131	131	131	131	128		
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	