

MODEL NAME			PUD-SWM80YAA(-BS)	PUD-SHWM80YAA(-BS)
POWER SUPPLY(Phase, voltage, frequency)			3φ, 400 V, 50 Hz	3φ, 400 V, 50 Hz
	Max. Current	A	8.0	8.0
Braker size		A	16	16
Outer casing			Galvanized plate	Galvanized plate
External finish			Munsell N8.75, N2.75 (FRONT PANEL)	Munsell N8.75, N2.75 (FRONT PANEL)
Refrigerant control			Linear expansion valve	Linear expansion valve
Compressor			Hermetic scroll	Hermetic scroll
	Model		DVB28FBBMT	DVK28FBBMT
	Motor output	kW	2.2	2.2
	Start type		Inverter	Inverter
	Protection devices		HP switch Discharge thermo Comp. Surface thermo Over current detection	HP switch Discharge thermo Comp. Surface thermo Over current detection
	Oil (Model)	L	0.9 (FW68S)	0.9 (FW68S)
Crankcase heater			-	-
Heat exchanger	Air		Plate fin coil	Plate fin coil
	Water		-	-
Fan	Fan(drive) x No.		Propeller fan x1	Propeller fan x1
	Fan motor output	kW	0.074	0.074
	Air flow	m³/min (CFM)	40 (1410)	40 (1410)
Defrost method			Reverse cycle	Reverse cycle
Noise level (SPL)	Heating	dB	42	42
	Cooling	dB	-	-
Noise level (PWL)	Heating	dB	56	56
Dimensions	Width	mm(in)	1050 (41-5/16)	1050 (41-5/16)
	Depth	mm(in)	480 (18-7/8)	480 (18-7/8)
	Height	mm(in)	1020 (40-3/16)	1020 (40-3/16)
Weight		kg(lbs)	114 (251)	115 (254)
Refrigerant (GWP)			R32	R32
	Chargeless	kg	1.3 (2.9)	1.4 (3.1)
	MAX.	kg	1.6 (3.5)	1.7 (3.8)
Pipe size O.D.	Liquid	mm(in)	6.35 (1/4)	6.35 (1/4)
	Gas	mm(in)	12.7 (1/2)	12.7 (1/2)
Connection method			Flared	Flared
Between the indoor & outdoor unit	Height difference	m	30	30
	Piping length	m	2 to 30	2 to 30
Guaranteed operating range (Outdoor)	Heating	°C	-25 to +24	-28 to +24
	DHW	°C	-25 to +35	-28 to +35
	Cooling	°C	-	-
Outlet water temp. (Max in Heating, Min in Cooling)	Heating	°C	+60	+60
	Cooling	°C	-	-
Nominal return water temperature range	Heating	°C	+10 to +59	+10 to +59
	Cooling	°C	-	-
Water Flow rate range		L/min	9.0 to 22.9	9.0 to 22.9

MODEL NAME			PUD-SWM80VAA(-BS)	PUD-SWM80YAA(-BS)
Nominal water flow rate (Heating mode)		L/min	17.2	17.2
Heating (A7/W35)	Capacity	kW	6.00	6.00
	COP		4.76	4.76
	Power input	kW	1.26	1.26
Heating (A2/W35)	Capacity	kW	8.00	8.00
	COP		3.55	3.55
	Power input	kW	2.25	2.25
Pressure difference (Water circuit)		kPa	-	-
Heating pump input (Based on EN14511)		kW	-	-
Nominal water flow rate (Cooling mode)		L/min	-	-
Cooling (A35/W7)	Capacity	kW	-	-
	EER (COP)		-	-
	Power input	kW	-	-
Cooling (A35/W18)	Capacity	kW	-	-
	EER (COP)		-	-
	Power input	kW	-	-
Pressure difference (Water circuit)		kPa	-	-
Cooling pump input (Based on EN14511)		kW	-	-
Recommended plate heat exchanger			MWA1-44DM	MWA1-44DM

The table shows performance data obtained when a plate heat exchanger is connected.

MODEL NAME			PUD-SHWM80VAA(-BS)	PUD-SHWM80YAA(-BS)
Nominal water flow rate (Heating mode)		L/min	17.2	17.2
Heating (A7/W35)	Capacity	kW	6.00	6.00
	COP		5.03	5.03
	Power input	kW	1.19	1.19
Heating (A2/W35)	Capacity	kW	8.00	8.00
	COP		3.75	3.75
	Power input	kW	2.13	2.13
Pressure difference (Water circuit)		kPa	-	-
Heating pump input (Based on EN14511)		kW	-	-
Nominal water flow rate (Cooling mode)		L/min	-	-
Cooling (A35/W7)	Capacity	kW	-	-
	EER (COP)		-	-
	Power input	kW	-	-
Cooling (A35/W18)	Capacity	kW	-	-
	EER (COP)		-	-
	Power input	kW	-	-
Pressure difference (Water circuit)		kPa	-	-
Cooling pump input (Based on EN14511)		kW	-	-
Recommended plate heat exchanger			MWA1-44DM	MWA1-44DM

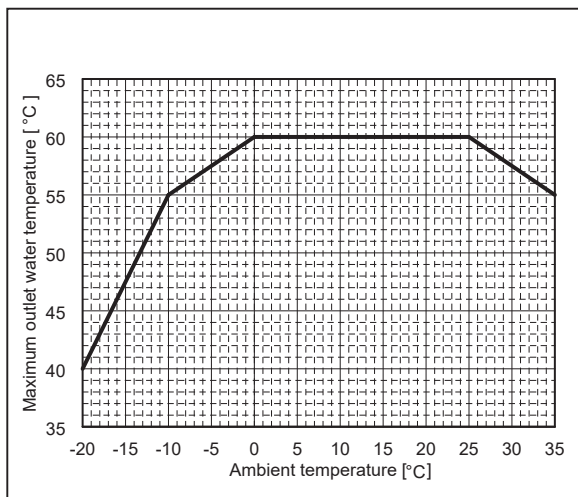
The table shows performance data obtained when a plate heat exchanger is connected.

Outdoor unit	Indoor unit	For medium-temperature application								For low-temperature application							
		Seasonal space heating energy efficiency class	Water heating energy efficiency class	Rated heat output under average climate conditions		Seasonal space heating energy efficiency under average climate conditions	Water heating energy efficiency under average climate conditions	Sound power level LWA indoor	Sound power level LWA outdoor	Seasonal space heating energy efficiency class	Water heating energy efficiency class	Rated heat output under average climate conditions		Seasonal space heating energy efficiency under average climate conditions	Water heating energy efficiency under average climate conditions	Sound power level LWA indoor	Sound power level LWA outdoor
				kW	%							kW	%				
SUZ-SWM40VA	EHST17D-***D	A++	A+	4.6	129	148	41	58	58	A+++	A+	5.1	180	148	41	58	58
	ERST17D-***D	A++	A+	4.6	132	148	41	58	58	A+++	A+	5.1	187	148	41	58	58
	EHST20D-***D	A++	A+	4.6	129	159	41	58	58	A+++	A+	5.1	180	159	41	58	58
	ERST20D-***D	A++	A+	4.6	132	159	41	58	58	A+++	A+	5.1	187	159	41	58	58
	EHST30D-***D	A++	A+	4.6	129	128	41	58	58	A+++	A+	5.1	180	128	41	58	58
	ERST30D-***D	A++	A+	4.6	132	128	41	58	58	A+++	A+	5.1	187	128	41	58	58
	EHSD-***D	A++	-	4.6	129	-	41	58	58	A+++	-	5.1	180	-	41	58	58
	ERSD-***D	A++	-	4.6	132	-	41	58	58	A+++	-	5.1	187	-	41	58	58
SUZ-SWM60VA	EHST17D-***D	A++	A+	6.0	130	144	41	60	60	A+++	A+	6.6	181	144	41	60	60
	ERST17D-***D	A++	A+	6.0	133	144	41	60	60	A+++	A+	6.6	187	144	41	60	60
	EHST20D-***D	A++	A+	6.0	130	148	41	60	60	A+++	A+	6.6	181	148	41	60	60
	ERST20D-***D	A++	A+	6.0	133	148	41	60	60	A+++	A+	6.6	187	148	41	60	60
	EHST30D-***D	A++	A+	6.0	130	128	41	60	60	A+++	A+	6.6	181	128	41	60	60
	ERST30D-***D	A++	A+	6.0	133	128	41	60	60	A+++	A+	6.6	187	128	41	60	60
	EHSD-***D	A++	-	6.0	130	-	41	60	60	A+++	-	6.6	181	-	41	60	60
	ERSD-***D	A++	-	6.0	133	-	41	60	60	A+++	-	6.6	187	-	41	60	60
SUZ-SWM80VA	EHST17D-***D	A++	A+	7.1	131	144	41	62	62	A+++	A+	7.1	182	144	41	62	62
	ERST17D-***D	A++	A+	7.1	133	144	41	62	62	A+++	A+	7.1	187	144	41	62	62
	EHST20D-***D	A++	A+	7.1	131	148	41	62	62	A+++	A+	7.1	182	148	41	62	62
	ERST20D-***D	A++	A+	7.1	133	148	41	62	62	A+++	A+	7.1	187	148	41	62	62
	EHST30D-***D	A++	A+	7.1	131	128	41	62	62	A+++	A+	7.1	182	128	41	62	62
	ERST30D-***D	A++	A+	7.1	133	128	41	62	62	A+++	A+	7.1	187	128	41	62	62
	EHSD-***D	A++	-	7.1	131	-	41	62	62	A+++	-	7.1	182	-	41	62	62
	ERSD-***D	A++	-	7.1	133	-	41	62	62	A+++	-	7.1	187	-	41	62	62
PUD-SWM60VAA(-BS)	E*ST17D-***D	A++	A+	6.0	130	136	41	55	55	A+++	A+	6.0	175	136	41	55	55
	E*ST20D-***D	A++	A+	6.0	130	148	41	55	55	A+++	A+	6.0	175	148	41	55	55
	E*ST30D-***D	A++	A	6.0	130	121	41	55	55	A+++	A	6.0	175	121	41	55	55
	E*SD-***D	A++	-	6.0	130	-	41	55	55	A+++	-	6.0	175	-	41	55	55
PUD-SWM80V/YAA(-BS)	E*ST17D-***D	A++	A+	8.0	131/130	136	41	56	56	A+++	A+	8.0	178/176	136	41	56	56
	E*ST20D-***D	A++	A+	8.0	131/130	148	41	56	56	A+++	A+	8.0	178/176	148	41	56	56
	E*ST30D-***D	A++	A	8.0	131/130	121	41	56	56	A+++	A	8.0	178/176	121	41	56	56
	E*SD-***D	A++	-	8.0	131/130	-	41	56	56	A+++	-	8.0	178/176	-	41	56	56
PUD-SWM100V/YAA(-BS)	E*ST20D-***D	A++	A+	10.0	131/130	148	41	59	59	A+++	A+	10.0	178/177	148	41	59	59
	E*ST30D-***D	A++	A	10.0	131/130	121	41	59	59	A+++	A	10.0	178/177	121	41	59	59
	E*SD-***D	A++	-	10.0	131/130	-	41	59	59	A+++	-	10.0	178/177	-	41	59	59
PUD-SWM120V/YAA(-BS)	E*ST20D-***D	A++	A+	12.0	129/128	148	41	60	60	A+++	A+	12.0	177/176	148	41	60	60
	E*ST30D-***D	A++	A	12.0	129/128	121	41	60	60	A+++	A	12.0	177/176	121	41	60	60
	E*SD-***D	A++	-	12.0	129/128	-	41	60	60	A+++	-	12.0	177/176	-	41	60	60
PUD-SHWM60VAA(-BS)	E*ST17D-***D	A++	A+	6.0	134	136	41	55	55	A+++	A+	6.0	178	136	41	55	55
	E*ST20D-***D	A++	A+	6.0	134	148	41	55	55	A+++	A+	6.0	178	148	41	55	55
	E*ST30D-***D	A++	A	6.0	134	121	41	55	55	A+++	A	6.0	178	121	41	55	55
	E*SD-***D	A++	-	6.0	134	-	41	55	55	A+++	-	6.0	178	-	41	55	55
PUD-SHWM80V/YAA(-BS)	E*ST17D-***D	A++	A+	8.0	135/134	136	41	56	56	A+++	A+	8.0	181/179	136	41	56	56
	E*ST20D-***D	A++	A+	8.0	135/134	148	41	56	56	A+++	A+	8.0	181/179	148	41	56	56
	E*ST30D-***D	A++	A	8.0	135/134	121	41	56	56	A+++	A	8.0	181/179	121	41	56	56
	E*SD-***D	A++	-	8.0	135/134	-	41	56	56	A+++	-	8.0	181/179	-	41	56	56

Note: E**T17/20*-***D use "Load profile L".
E**T30*-***D use "Load profile XL".

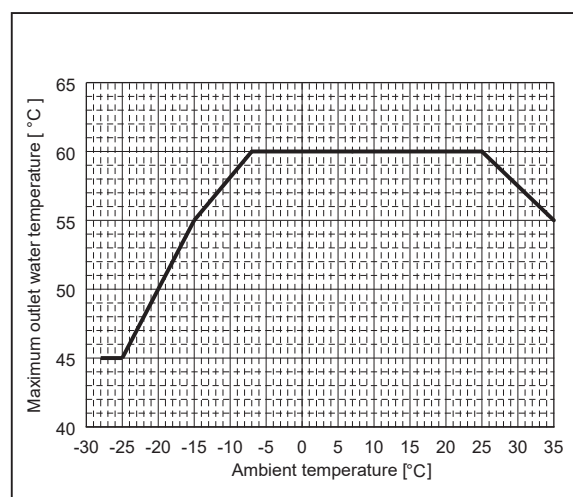
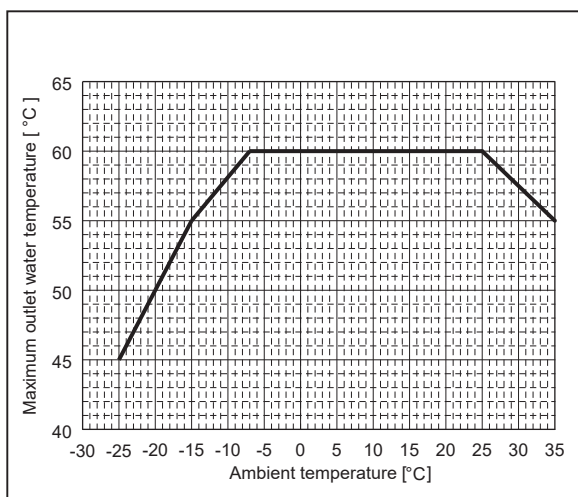
(2) Split-type units

SUZ-SWM40VA
SUZ-SWM60VA
SUZ-SWM80VA



PUD-SWM60VAA(-BS) PUD-SWM100VAA(-BS)
PUD-SWM80VAA(-BS) PUD-SWM100YAA(-BS)
PUD-SWM80YAA(-BS) PUD-SWM120VAA(-BS)
PUD-SWM120YAA(-BS)

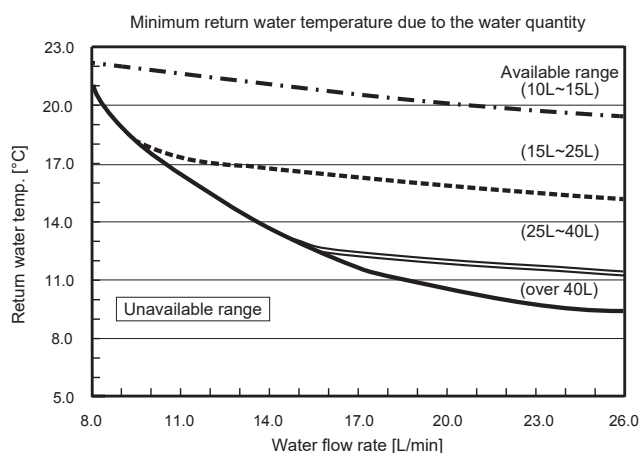
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PUD-SHWM80VAA(-BS) PUD-SHWM120YAA(-BS)
PUD-SHWM80YAA(-BS) PUD-SHWM140VAA(-BS)
PUD-SHWM100VAA(-BS) PUD-SHWM140YAA(-BS)
PUD-SHWM100YAA(-BS)



PUD-SWM60VAA(-BS)
PUD-SHWM60VAA(-BS)

PUD-SWM80VAA(-BS)
PUD-SHWM80VAA(-BS)

PUD-SWM80YAA(-BS)
PUD-SHWM80YAA(-BS)

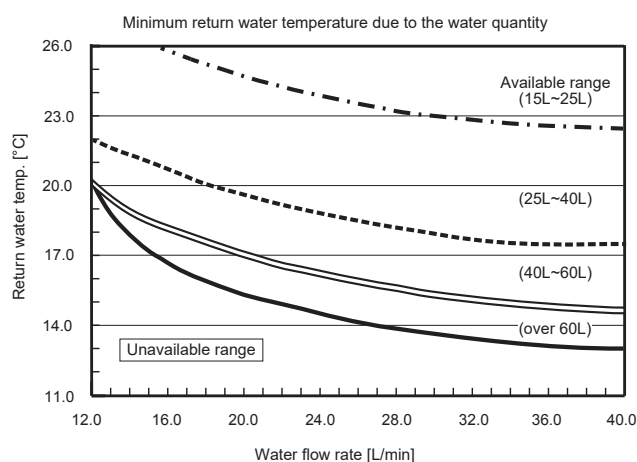


PUD-SWM100VAA(-BS)
PUD-SHWM100VAA(-BS)
PUD-SHWM140VAA(-BS)

PUD-SWM100YAA(-BS)
PUD-SHWM100YAA(-BS)
PUD-SHWM140YAA(-BS)

PUD-SWM120VAA(-BS)
PUD-SHWM120VAA(-BS)

PUD-SWM120YAA(-BS)
PUD-SHWM120YAA(-BS)



Note:
Be sure to avoid the unavailable range during defrosting.
Otherwise, the outdoor unit is insufficiently defrosted and/or the heat exchanger of the indoor unit may freeze.

■ PUD-SWM60VAA(-BS)
PUD-SWM100YAA(-BS)
PUD-SHWM80VAA(-BS)
PUD-SHWM120VAA(-BS)

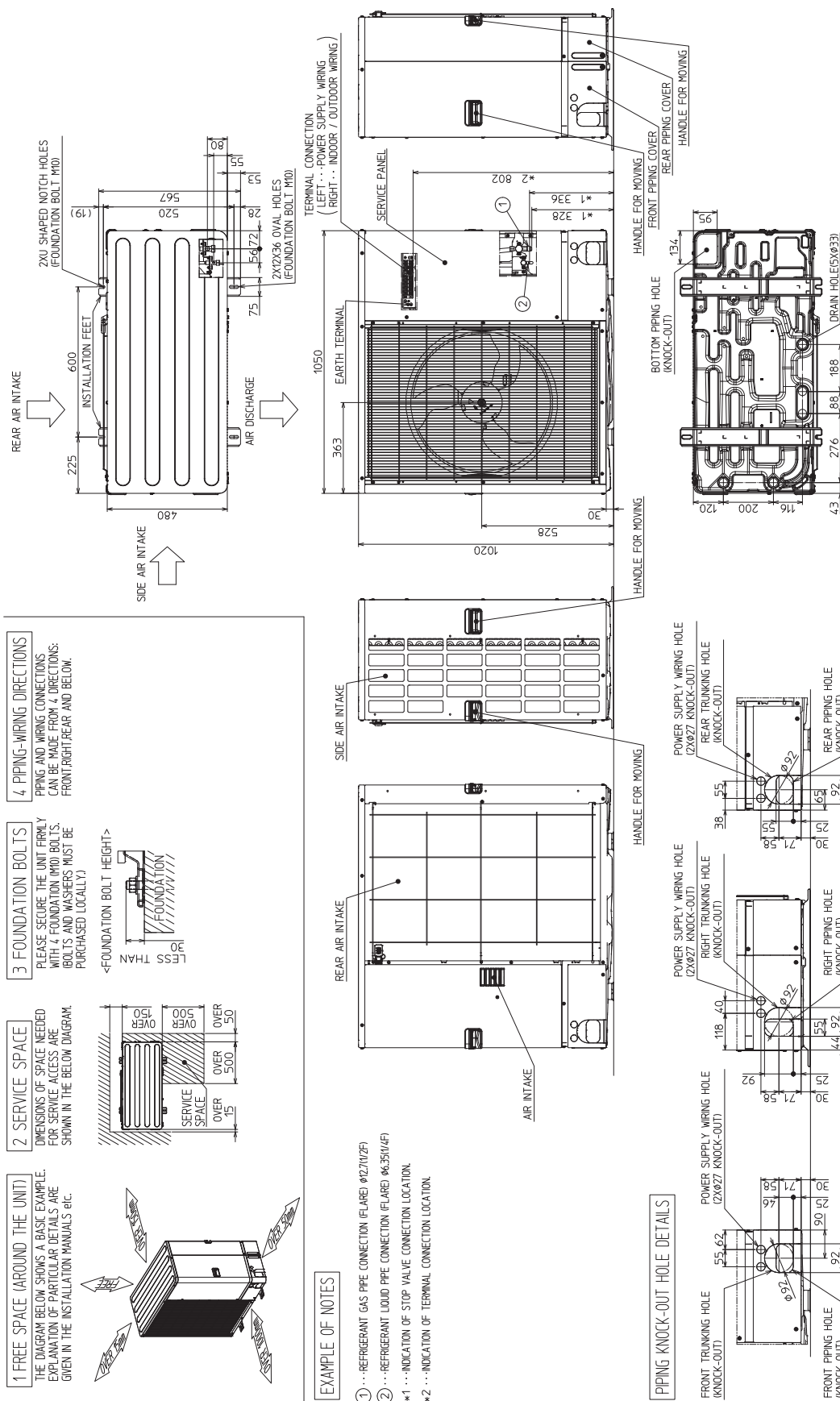
PUD-SWM80VAA(-BS)
PUD-SWM120VAA(-BS)
PUD-SHWM80YAA(-BS)
PUD-SHWM120YAA(-BS)

PUD-SWM80YAA(-BS)
PUD-SWM120YAA(-BS)
PUD-SHWM100VAA(-BS)
PUD-SHWM140VAA(-BS)

PUD-SWM100VAA(-BS)
PUD-SHWM60VAA(-BS)
PUD-SHWM100YAA(-BS)
PUD-SHWM140YAA(-BS)

Unit: mm

Outdoor unit



■ PUD-SHWM60VAA(-BS)

Water outlet temperature [°C]		25		35		40		45		50		55		60	
Ambient temperature [°C]		Capacity	COP	Capacity	COP	Capacity	COP	Capacity	COP	Capacity	COP	Capacity	COP	Capacity	COP
Max	-28 (INJ)	-	-	4.7	1.70	4.6	1.55	4.4	1.42	-	-	-	-	-	-
	-20 (INJ)	-	-	6.0	2.25	5.9	2.00	5.7	1.75	5.3	1.55	-	-	-	-
	-15 (INJ)	-	-	7.3	2.60	7.2	2.35	7.0	2.05	6.6	1.90	5.8	1.70	-	-
	-10 (INJ)	8.7	3.50	8.0	3.05	7.7	2.70	7.3	2.35	7.0	2.10	6.5	1.90	-	-
	-7 (INJ)	9.0	3.60	8.3	3.10	8.0	2.80	7.6	2.45	7.3	2.15	6.9	1.95	5.8	1.70
	2	7.5	4.40	7.0	3.60	6.8	3.25	6.5	2.90	6.2	2.45	6.0	1.91	6.0	1.75
	7	9.0	5.50	8.3	4.70	8.0	4.15	7.6	3.55	7.2	3.15	6.9	2.65	6.2	2.35
	12	9.6	6.55	9.2	5.50	9.1	4.85	8.9	4.15	8.4	3.65	7.9	3.15	7.0	2.75
	15	9.9	7.05	9.6	5.90	9.5	5.20	9.3	4.50	8.8	3.90	8.3	3.45	7.3	3.00
	20	10.2	8.10	10.0	6.80	9.9	6.00	9.7	5.20	9.5	4.55	9.2	3.75	8.4	3.45
Nominal	-28 (INJ)	-	-	4.7	1.70	4.6	1.55	4.4	1.42	-	-	-	-	-	-
	-20 (INJ)	-	-	6.0	2.25	5.9	2.00	5.7	1.75	5.3	1.55	-	-	-	-
	-15 (INJ)	-	-	6.0	2.66	6.0	2.35	6.0	2.05	6.0	1.85	5.8	1.70	-	-
	-10 (INJ)	6.0	3.75	6.0	3.21	6.0	2.85	6.0	2.50	6.0	2.10	6.0	2.02	-	-
	-7	6.0	3.85	6.0	3.15	6.0	2.85	6.0	2.50	6.0	2.20	6.0	2.00	5.8	1.70
	2	6.0	4.60	6.0	3.80	6.0	3.40	6.0	2.95	6.0	2.50	6.0	1.91	6.0	1.75
	7	5.0	5.45	5.0	4.99	5.0	4.25	5.0	3.60	5.0	3.15	5.0	2.65	5.0	2.45
	12	5.0	6.15	5.0	5.15	5.0	4.70	5.0	4.20	5.0	3.60	5.0	3.10	5.0	2.70
	15	5.0	6.95	5.0	5.80	5.0	5.10	5.0	4.40	5.0	3.85	5.0	3.35	5.0	2.95
	20	5.0	7.75	5.0	6.75	5.0	5.90	5.0	5.05	5.0	4.40	5.0	3.75	5.0	3.35
Mid	-28	-	-	3.8	1.65	3.6	1.50	3.4	1.35	-	-	-	-	-	-
	-20	-	-	4.8	2.35	4.7	2.10	4.6	1.80	4.3	1.50	-	-	-	-
	-15	-	-	4.9	2.55	4.9	2.30	4.8	2.00	4.8	1.80	4.6	1.60	-	-
	-10	4.8	3.75	4.8	3.10	4.8	2.75	4.8	2.40	4.8	2.05	4.8	1.80	-	-
	-7	4.8	3.75	4.8	3.20	4.8	2.80	4.8	2.40	4.8	2.15	4.8	1.90	4.6	1.70
	2	4.8	4.65	4.8	3.80	4.8	3.40	4.8	2.95	4.8	2.50	4.8	2.15	4.8	1.85
	7	4.0	5.25	4.0	4.35	4.0	3.95	4.0	3.50	4.0	3.00	4.0	2.70	4.0	2.40
	12	4.0	5.75	4.0	4.85	4.0	4.50	4.0	4.10	4.0	3.50	4.0	3.00	4.0	2.60
	15	4.0	6.80	4.0	5.70	4.0	5.00	4.0	4.30	4.0	3.75	4.0	3.25	4.0	2.90
	20	4.2	7.45	4.0	6.60	4.0	5.75	4.0	4.90	4.0	4.20	4.0	3.65	4.0	3.30
Min	-28	-	-	3.6	1.60	3.5	1.50	3.4	1.35	-	-	-	-	-	-
	-20	-	-	4.3	2.35	4.2	2.10	4.1	1.80	3.9	1.50	-	-	-	-
	-15	-	-	4.9	2.55	4.8	2.30	4.7	2.00	4.6	1.75	4.5	1.55	-	-
	-10	3.8	3.60	3.5	2.85	3.4	2.55	3.3	2.20	3.2	1.90	3.1	1.60	-	-
	-7	3.8	3.70	3.5	2.90	3.4	2.60	3.2	2.25	3.1	2.00	2.9	1.70	3.7	1.65
	2	3.4	4.60	3.1	3.60	2.9	3.20	2.6	2.75	2.4	2.05	2.1	1.80	3.2	1.80
	7	2.7	4.80	2.4	3.50	2.3	3.30	2.2	3.05	2.0	2.50	1.7	2.30	2.6	2.20
	12	3.3	5.35	3.0	4.45	2.8	4.20	2.6	3.90	2.2	3.20	1.8	2.60	2.9	2.50
	15	3.8	6.75	3.2	5.60	3.0	4.85	2.8	4.10	2.4	3.45	1.9	2.90	3.1	2.80
	20	4.2	7.45	3.7	6.55	3.4	5.65	3.1	4.75	2.9	3.90	2.6	3.30	3.5	3.25

■ PUD-SHWM80VAA(-BS)

PUD-SHWM80YAA(-BS)

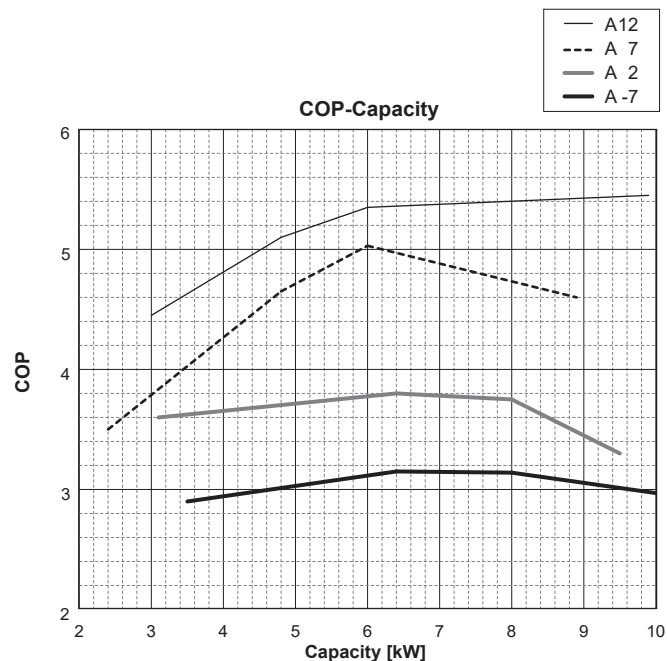
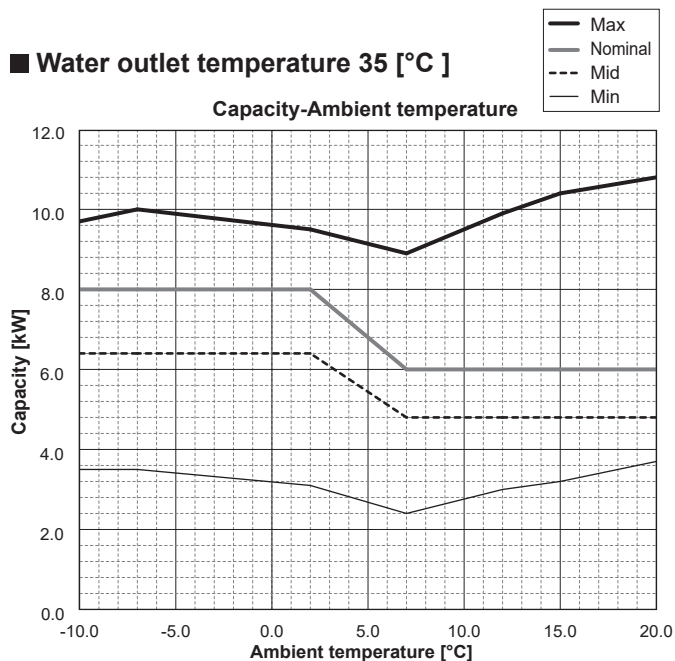
Water outlet temperature [°C]		25		35		40		45		50		55		60	
Ambient temperature [°C]		Capacity	COP	Capacity	COP	Capacity	COP	Capacity	COP	Capacity	COP	Capacity	COP	Capacity	COP
Max	-28 (INJ)	-	-	5.6	1.75	5.5	1.60	5.3	1.41	-	-	-	-	-	-
	-20 (INJ)	-	-	7.6	2.20	7.5	1.95	7.3	1.70	7.0	1.45	-	-	-	-
	-15 (INJ)	-	-	8.8	2.50	8.5	2.25	8.2	1.95	7.9	1.85	7.4	1.60	-	-
	-10 (INJ)	10.3	3.30	9.7	2.90	9.4	2.65	9.1	2.40	8.7	2.10	8.4	1.95	-	-
	-7 (INJ)	10.6	3.30	10.0	2.97	9.7	2.65	9.4	2.35	9.1	2.15	8.8	1.95	7.6	1.55
	2	10.1	3.90	9.5	3.30	9.3	2.95	9.0	2.60	8.7	2.40	8.4	1.75	8.2	1.65
	7	9.6	5.40	8.9	4.60	8.6	4.05	8.2	3.45	7.9	3.10	7.5	2.55	6.8	2.30
	12	10.4	6.35	9.9	5.45	9.7	4.80	9.5	4.10	9.1	3.60	8.6	3.10	7.7	2.70
	15	10.7	6.95	10.4	5.85	10.2	5.20	10.0	4.50	9.5	3.85	9.0	3.45	8.0	2.95
	20	10.9	7.90	10.8	6.70	10.6	5.95	10.4	5.15	10.2	4.45	9.7	3.70	9.1	3.45
Nominal	-28 (INJ)	-	-	5.6	1.75	5.5	1.60	5.3	1.41	-	-	-	-	-	-
	-20 (INJ)	-	-	7.6	2.20	7.5	1.95	7.3	1.70	7.0	1.45	-	-	-	-
	-15 (INJ)	-	-	8.0	2.66	8.0	2.35	8.0	2.00	7.9	1.85	7.4	1.60	-	-
	-10 (INJ)	8.0	3.55	8.0	3.09	8.0	2.75	8.0	2.40	8.0	2.15	8.0	1.97	-	-
	-7 (INJ)	8.0	3.75	8.0	3.14	8.0	2.80	8.0	2.45	8.0	2.25	8.0	2.05	7.6	1.55
	2	8.0	4.45	8.0	3.75	8.0	3.30	8.0	2.85	8.0	2.50	8.0	1.88	8.0	1.70
	7	6.0	5.65	6.0	5.03	6.0	4.35	6.0	3.65	6.0	3.20	6.0	2.65	6.0	2.40
	12	6.0	6.45	6.0	5.35	6.0	4.80	6.0	4.25	6.0	3.65	6.0	3.10	6.0	2.75
	15	6.0	7.05	6.0	5.95	6.0	5.25	6.0	4.55	6.0	3.95	6.0	3.45	6.0	2.95
	20	6.0	8.05	6.0	6.90	6.0	6.05	6.0	5.15	6.0	4.55	6.0	3.75	6.0	3.40
Mid	-28 (INJ)	-	-	4.5	1.70	4.4	1.55	4.2	1.40	-	-	-	-	-	-
	-20 (INJ)	-	-	6.1	2.35	6.0	2.05	5.8	1.75	5.6	1.50	-	-	-	-
	-15 (INJ)	-	-	6.4	2.70	6.4	2.40	6.4	2.05	6.3	1.90	5.9	1.65	-	-
	-10 (INJ)	6.4	3.75	6.4	3.10	6.4	2.80	6.4	2.50	6.4	2.15	6.4	1.80	-	-
	-7	6.4	3.85	6.4	3.15	6.4	2.85	6.4	2.50	6.4	2.25	6.4	2.05	6.1	1.65
	2	6.4	4.60	6.4	3.80	6.4	3.40	6.4	2.95	6.4	2.55	6.4	2.15	6.4	1.85
	7	4.8	5.40	4.8	4.65	4.8	4.15	4.8	3.60	4.8	3.10	4.8	2.65	4.8	2.45
	12	4.8	6.10	4.8	5.10	4.8	4.65	4.8	4.20	4.8	3.60	4.8	3.05	4.8	2.70
	15	4.8	6.95	4.8	5.85	4.8	5.15	4.8	4.45	4.8	3.85	4.8	3.35	4.8	2.90
	20	4.8	7.70	4.8	6.75	4.8	5.90	4.8	5.00	4.8	4.35	4.8	3.65	4.8	3.35
Min	-28	-	-	3.6	1.60	3.5	1.50	3.4	1.35	-	-	-	-	-	-
	-20	-	-	4.3	2.35	4.2	2.10	4.1	1.80	3.9	1.50	-	-	-	-
	-15	-	-	4.9	2.55	4.8	2.30	4.7	2.00	4.6	1.75	4.5	1.55	-	-
	-10	3.8	3.60	3.5	2.85	3.4	2.55	3.3	2.20	3.2	1.90	3.1	1.60	-	-
	-7	3.8	3.70	3.5	2.90	3.4	2.60	3.2	2.25	3.1	2.00	2.9	1.70	3.7	1.65
	2	3.4	4.60	3.1	3.60	2.9	3.20	2.6	2.75	2.4	2.05	2.1	1.80	3.2	1.80
	7	2.7	4.80	2.4	3.50	2.3	3.30	2.2	3.05	2.0	2.50	1.7	2.30	2.6	2.20
	12	3.3	5.35	3.0	4.45	2.8	4.20	2.6	3.90	2.2	3.20	1.8	2.60	2.9	2.50
	15	3.8	6.75	3.2	5.60	3.0	4.85	2.8	4.10	2.4	3.45	1.9	2.90	3.1	2.75
	20	4.2	7.45	3.7	6.55	3.4	5.65	3.1	4.75	2.9	3.90	2.6	3.30	3.5	3.25

PUD-SHWM80VAA(-BS)

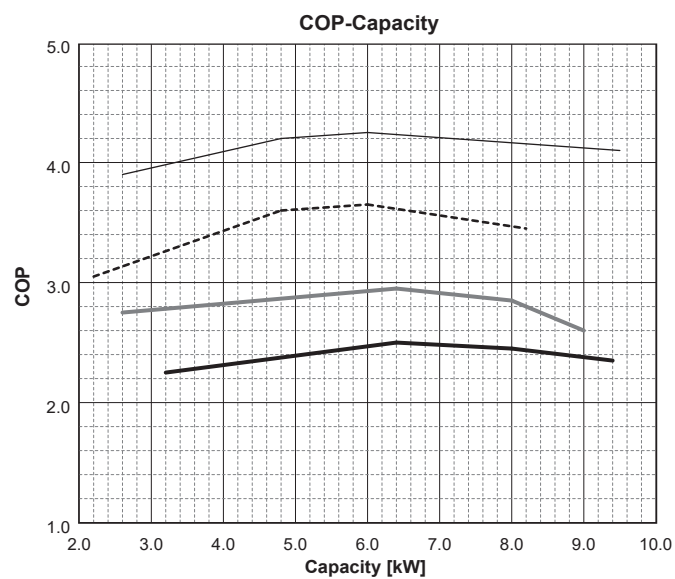
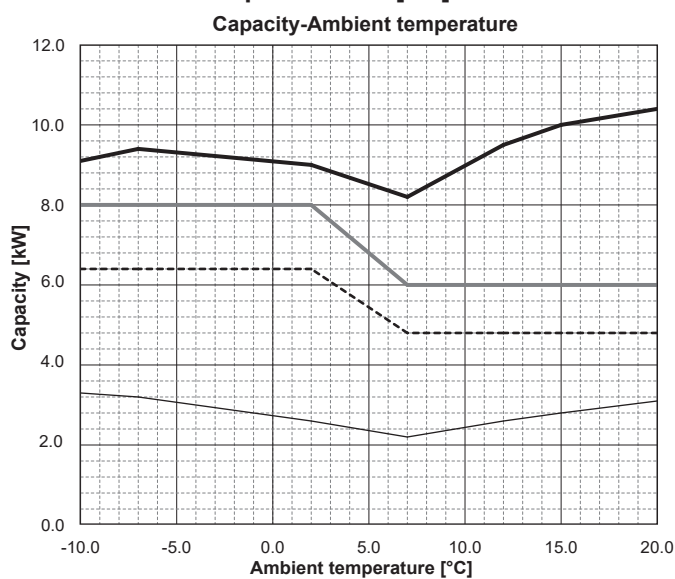
PUD-SHWM80YAA(-BS)

Outdoor unit

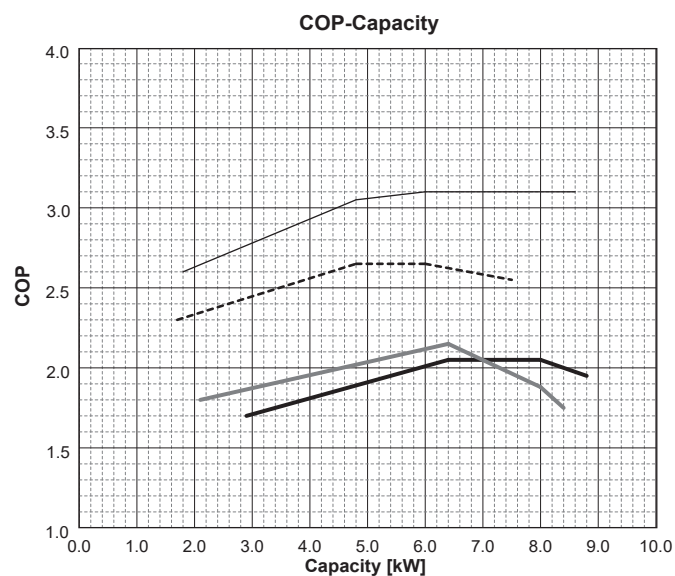
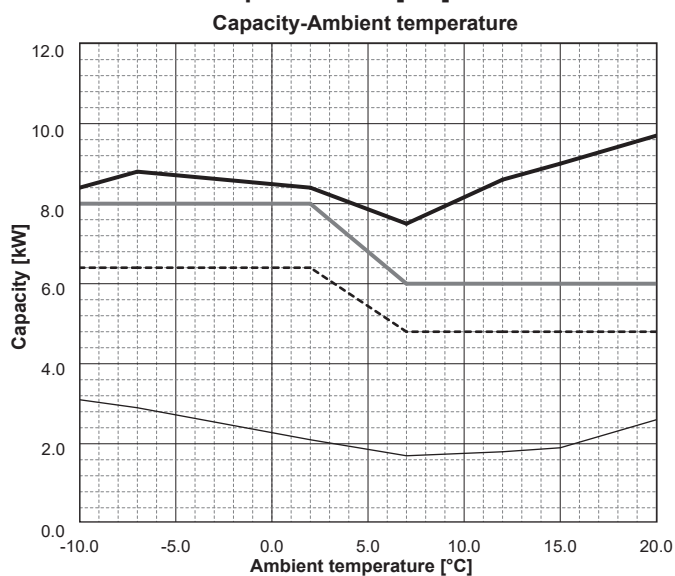
■ Water outlet temperature 35 [°C]



■ Water outlet temperature 45 [°C]



■ Water outlet temperature 55 [°C]



5.4 Best COP

<Notes>

1) These data are measured based on EN14511-2013.

2) Max COP of each model at each condition are shown.

3) Gray highlighted data means integrated data including defrost operation.

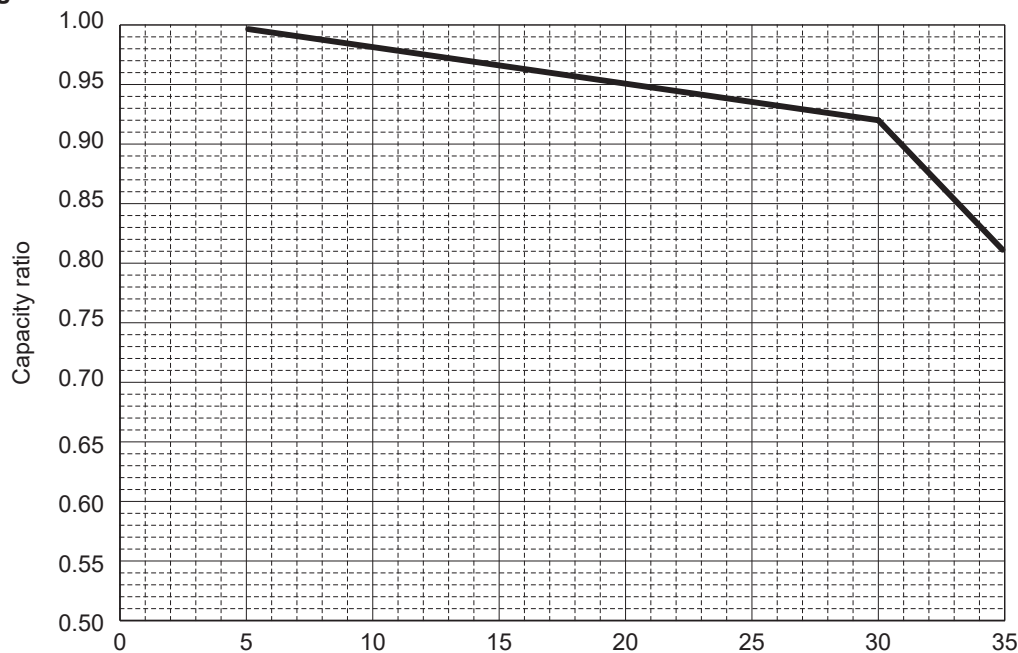
Water outlet temperature[°C]		35		45		55	
Ambient temperature[°C]		Capacity	COP	Capacity	COP	Capacity	COP
PUZ-WM50VHA(-BS)	-7	2.7	3.25	3.7	2.42	3.5	1.90
	2	4.0	3.69	4.0	2.77	4.0	2.20
	7	2.5	3.42	2.5	3.47	2.3	2.78
PUZ-WM60VAA(-BS)	-7	1.8	5.46	4.0	4.11	4.0	2.99
	2	4.8	3.25	4.8	2.45	4.8	2.05
	7	4.8	4.00	4.8	3.20	4.8	2.50
PUZ-WM85VAA(-BS) PUZ-WM85YAA(-BS)	-7	3.4	4.40	3.2	3.40	5.3	2.63
	2	2.9	5.45	4.8	4.00	4.8	3.00
	7	6.8	2.60	6.8	2.30	6.4	1.90
PUZ-WM112VAA(-BS) PUZ-WM112YAA(-BS)	-7	6.8	3.75	6.8	3.00	6.8	2.35
	2	3.4	4.15	7.5	3.15	7.5	2.47
	7	3.2	5.20	6.8	3.80	6.8	2.85
PUZ-HWM140VHA(-BS) PUZ-HWM140YHA(-BS)	-7	9.0	3.05	9.0	2.55	8.0	1.90
	2	9.0	3.75	9.0	2.80	8.0	2.10
	7	9.9	3.94	9.9	2.94	8.8	2.21
SUZ-SWM40VA	-7	9.0	4.80	9.0	3.90	8.0	3.00
	2	11.2	3.00	11.2	2.50	11.2	2.10
	7	5.1	3.65	11.2	2.90	11.2	2.55
SUZ-SWM60VA	-7	6.0	3.69	12.3	3.05	12.3	2.68
	2	11.2	4.80	11.2	3.85	11.2	2.90
	7	2.3	3.17	2.1	2.42	1.7	1.61
SUZ-SWM80VA	-7	3.2	4.17	3.2	3.14	3.2	2.19
	2	3.0	4.27	2.9	3.20	2.7	2.23
	7	4.0	5.20	4.0	3.70	4.0	2.61
PUD-SWM60VAA(-BS)	-7	3.9	3.08	3.7	2.51	3.2	1.97
	2	5.8	3.38	5.0	2.68	5.0	2.12
	7	5.4	4.17	4.5	3.31	4.2	2.39
PUD-SWM80VAA(-BS) PUD-SWM80YAA(-BS)	-7	4.8	5.21	5.3	3.62	5.4	2.73
	2	3.9	3.03	3.4	2.46	2.9	1.95
	7	6.5	3.40	6.5	2.73	6.5	2.11
PUD-SWM100VAA(-BS) PUD-SWM100YAA(-BS)	-7	6.0	4.13	5.8	3.28	5.5	2.37
	2	6.0	5.10	6.0	3.72	6.0	2.85
	7	5.0	3.20	5.2	2.50	5.4	2.05
PUD-SHWM60VAA(-BS)	-7	5.2	3.70	5.0	2.90	4.3	2.25
	2	4.3	3.75	4.2	2.95	4.0	2.30
	7	5.5	4.90	5.3	3.65	4.5	2.70
PUD-SHWM80VAA(-BS) PUD-SHWM80YAA(-BS)	-7	5.0	3.20	5.2	2.50	5.4	2.05
	2	5.2	3.70	5.0	2.90	4.3	2.25
	7	4.3	3.75	4.2	2.95	4.0	2.30
PUD-SHWM100VAA(-BS) PUD-SHWM100YAA(-BS)	-7	5.5	4.90	5.3	3.65	4.8	2.65
	2	6.6	3.15	6.4	2.50	6.2	2.00
	7	7.0	3.70	6.9	3.00	6.8	2.20
PUD-SHWM120VAA(-BS) PUD-SHWM120YAA(-BS)	-7	6.0	4.05	5.9	3.15	5.8	2.30
	2	5.6	5.10	5.4	3.75	5.2	2.80
	7	6.6	3.15	6.4	2.50	6.2	2.10
PUD-SHWM140VAA(-BS) PUD-SHWM140YAA(-BS)	-7	7.0	3.70	6.9	3.00	6.8	2.20
	2	6.0	4.05	5.9	3.15	5.8	2.30
	7	5.6	5.10	5.4	3.75	5.2	2.80
PUD-SHWM160VAA(-BS) PUD-SHWM160YAA(-BS)	-7	5.4	3.20	6.0	2.50	6.0	2.00
	2	5.2	3.85	5.0	3.00	4.3	2.25
	7	4.3	3.95	4.2	3.05	4.0	2.30
PUD-SHWM180VAA(-BS) PUD-SHWM180YAA(-BS)	-7	5.6	5.05	5.4	3.70	4.8	2.70
	2	5.4	3.20	6.0	2.55	6.0	2.10
	7	5.2	3.85	5.0	3.00	4.3	2.25
PUD-SHWM200VAA(-BS) PUD-SHWM200YAA(-BS)	-7	4.3	3.95	4.2	3.05	4.0	2.30
	2	5.6	5.05	5.4	3.70	4.8	2.70
	7	6.6	3.25	6.4	2.60	6.2	2.10
PUD-SHWM220VAA(-BS) PUD-SHWM220YAA(-BS)	-7	7.0	3.70	6.9	3.00	6.8	2.20
	2	6.0	4.05	5.9	3.15	5.8	2.30
	7	5.6	5.10	5.4	3.75	5.2	2.80
PUD-SHWM240VAA(-BS) PUD-SHWM240YAA(-BS)	-7	6.6	3.25	6.4	2.60	6.2	2.10
	2	7.0	3.70	6.9	3.00	6.8	2.20
	7	6.0	4.05	5.9	3.15	5.8	2.30
PUD-SHWM260VAA(-BS) PUD-SHWM260YAA(-BS)	-7	5.6	5.10	5.4	3.75	5.2	2.80
	2	6.9	3.30	6.7	2.60	6.5	2.15
	7	7.3	3.70	7.2	2.95	7.0	2.20
PUD-SHWM280VAA(-BS) PUD-SHWM280YAA(-BS)	-7	6.0	4.00	5.9	3.20	5.8	2.40
	2	6.7	5.00	6.6	3.75	6.5	2.80
	7						

■ PUD-SWM60VAA(-BS)	PUD-SHWM60VAA(-BS)	PUD-SWM80VAA(-BS)	PUD-SHWM80VAA(-BS)
PUD-SWM80YAA(-BS)	PUD-SHWM80YAA(-BS)	PUD-SWM100VAA(-BS)	PUD-SHWM100VAA(-BS)
PUD-SWM100YAA(-BS)	PUD-SHWM100YAA(-BS)	PUD-SWM120VAA(-BS)	PUD-SHWM120VAA(-BS)
PUD-SWM120YAA(-BS)	PUD-SHWM120YAA(-BS)		

<Method for obtaining the equivalent piping length>

Equivalent length = (piping length) + 0.3 × (number of bends in the piping)

<Heating>

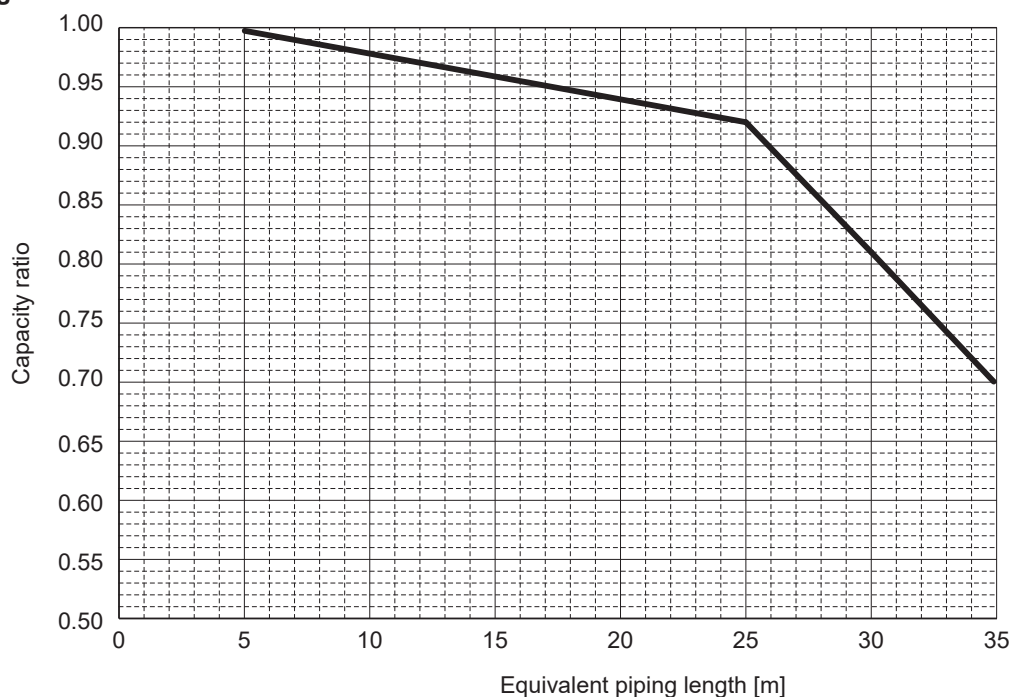


■ PUD-SHWM140VAA(-BS) PUD-SHWM140YAA(-BS)

<Method for obtaining the equivalent piping length>

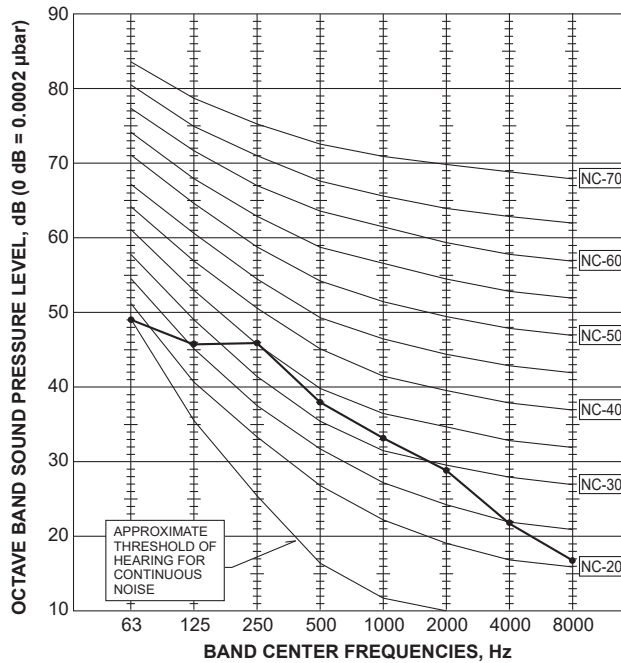
Equivalent length = (piping length) + 0.3 × (number of bends in the piping)

<Heating>



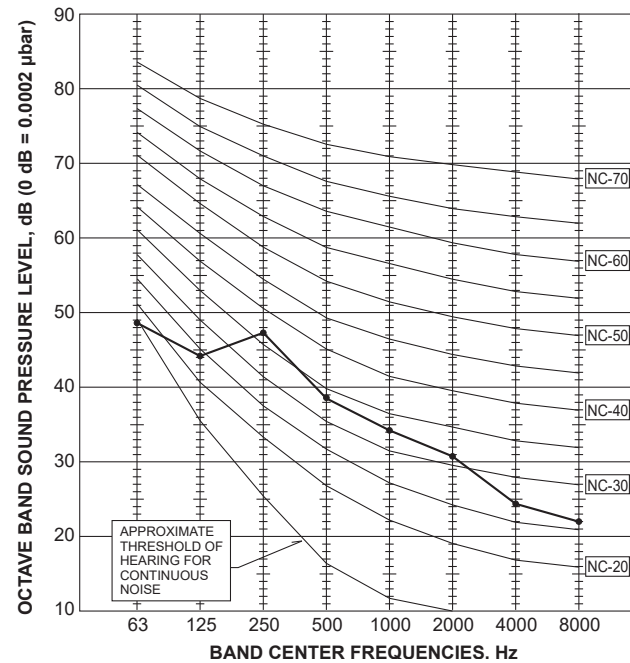
■ PUD-SWM60VAA(-BS) PUD-SHWM60VAA(-BS)

MODE	SPL(dB)	LINE
HEATING	41	●—●



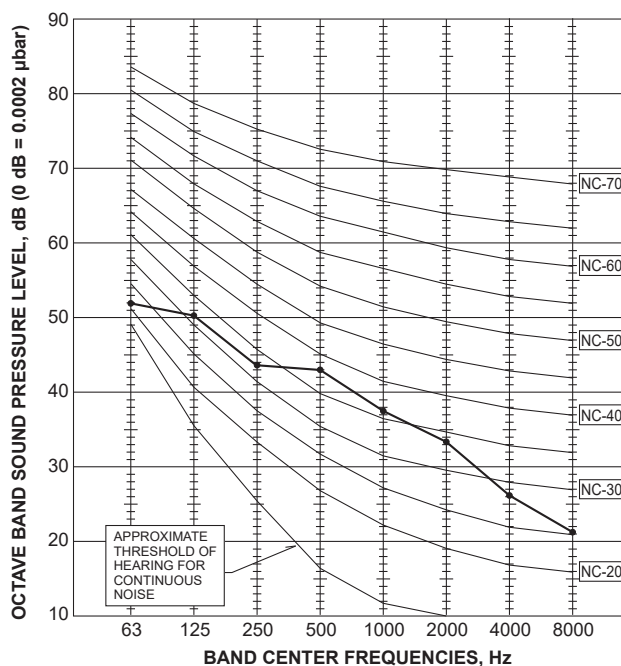
■ PUD-SWM80VAA(-BS) PUD-SWM80YAA(-BS) PUD-SHWM80VAA(-BS) **PUD-SHWM80YAA(-BS)**

MODE	SPL(dB)	LINE
HEATING	42	●—●



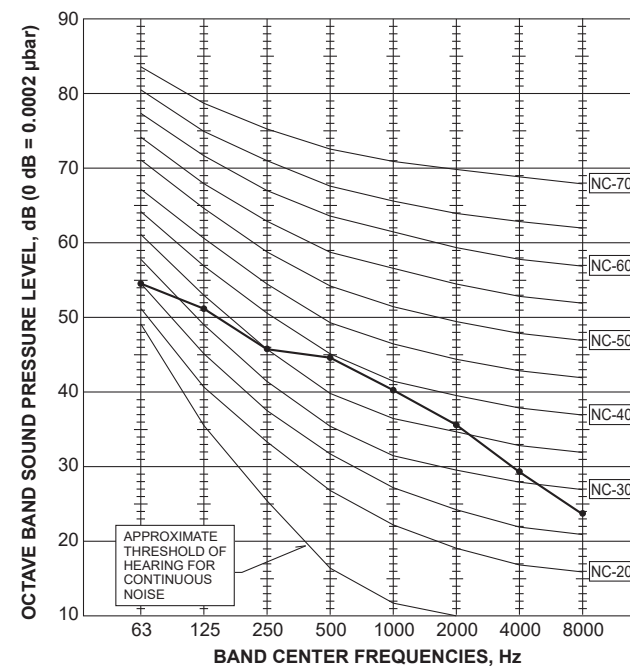
■ PUD-SWM100VAA(-BS) PUD-SWM100YAA(-BS) PUD-SHWM100VAA(-BS) PUD-SHWM100YAA(-BS)

MODE	SPL(dB)	LINE
HEATING	44	●—●



■ PUD-SWM120VAA(-BS) PUD-SWM120YAA(-BS) PUD-SHWM120VAA(-BS) PUD-SHWM120YAA(-BS)

MODE	SPL(dB)	LINE
HEATING	46	●—●



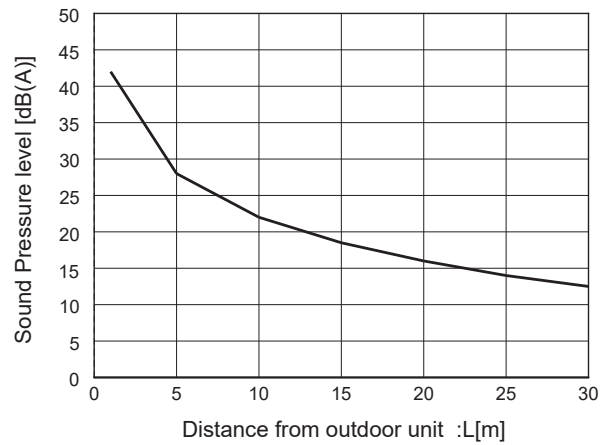
<Notes>

- 1) Sound data is taken when the system is running stably.
- 2) Relatively large noise could be heard transiently in the case 4-way valve, or LEV operates.

■ PUD-SWM60VAA(-BS)
PUD-SHWM60VAA(-BS)



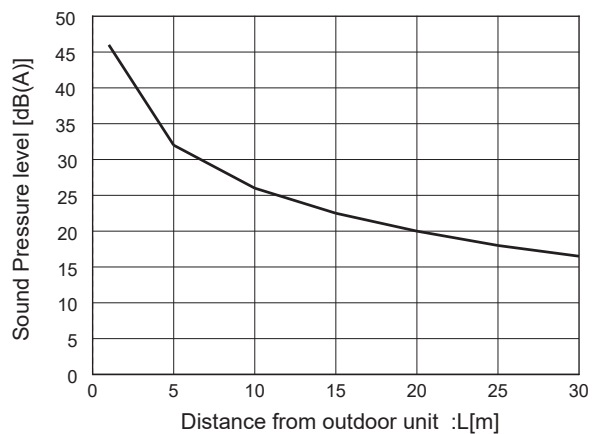
■ PUD-SWM80VAA(-BS)
PUD-SWM80YAA(-BS)
PUD-SHWM80VAA(-BS)
PUD-SHWM80YAA(-BS)



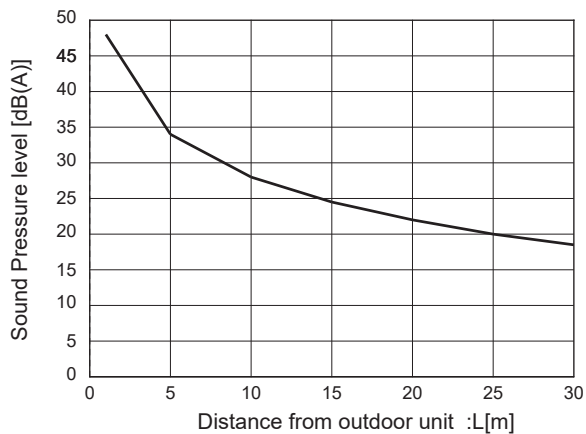
■ PUD-SWM100VAA(-BS)
PUD-SWM100YAA(-BS)
PUD-SHWM100VAA(-BS)
PUD-SHWM100YAA(-BS)



■ PUD-SWM120VAA(-BS)
PUD-SWM120YAA(-BS)
PUD-SHWM120VAA(-BS)
PUD-SHWM120YAA(-BS)



■ PUD-SHWM140VAA(-BS)
PUD-SHWM140YAA(-BS)



■ PUD-SWM60VAA(-BS)	PUD-SWM80VAA(-BS)	PUD-SWM80YAA(-BS)	PUD-SWM100VAA(-BS)
PUD-SWM100YAA(-BS)	PUD-SWM120VAA(-BS)	PUD-SWM120YAA(-BS)	PUD-SHWM60VAA(-BS)
PUD-SHWM80VAA(-BS)	PUD-SHWM80YAA(-BS)	PUD-SHWM100VAA(-BS)	PUD-SHWM100YAA(-BS)
PUD-SHWM120VAA(-BS)	PUD-SHWM120YAA(-BS)	PUD-SHWM140VAA(-BS)	PUD-SHWM140YAA(-BS)

1. Selecting the installation location

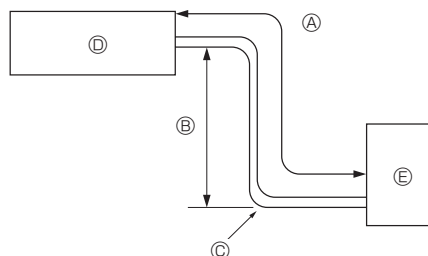


Fig. 1-1

1.1. Refrigerant pipe (Fig. 1-1)

- Check that the difference between the heights of the indoor and outdoor units, the length of refrigerant pipe, and the number of bends in the pipe are within the limits shown below.

Model	Ⓐ Pipe length (one way)	Ⓑ Height difference	Ⓒ Number of bends (one way)
SWM60 - 120	2 m - 30 m	Max. 30 m	Max. 10
SHWM60 - 120	2 m - 30 m	Max. 30 m	Max. 10
SHWM140	2 m - 25 m	Max. 25 m	Max. 10

- Height difference limitation is defined regardless of which unit, indoor or outdoor, is positioned higher.

Ⓓ Indoor unit
Ⓔ Outdoor unit

1.2. Choosing the outdoor unit installation location

- R32 is heavier than air—as well as other refrigerants—so tends to accumulate at the base (in the vicinity of the floor). If R32 accumulates around base, it may reach a flammable concentration in case room is small. To avoid ignition, maintaining a safe work environment is required by ensuring appropriate ventilation. If a refrigerant leak is confirmed in a room or an area where there is insufficient ventilation, refrain from using of flames until the work environment can be improved by ensuring appropriate ventilation.
- Avoid locations exposed to direct sunlight or other sources of heat.
- Select a location from which noise emitted by the unit will not inconvenience neighbors.
- Select a location permitting easy wiring and pipe access to the power source and indoor unit.
- Avoid locations where combustible gases may leak, be produced, flow, or accumulate.
- Note that water may drain from the unit during operation.
- Select a level location that can bear the weight and vibration of the unit.
- Avoid locations where the unit can be covered by snow. In areas where heavy snow fall is anticipated, special precautions such as raising the installation location or installing a hood on the air intake must be taken to prevent the snow from blocking the air intake or blowing directly against it. This can reduce the airflow and a malfunction may result.
- Avoid locations exposed to oil, steam, or sulfuric gas.
- Use the transportation handles of the outdoor unit to transport the unit. If the unit is carried from the bottom, hands or fingers may be pinched.
- Refrigerant pipes connection shall be accessible for maintenance purposes.
- Ⓔ Install outdoor units in a place where at least one of the four sides is open, and in a sufficiently large space without depressions. (Fig. 1-2)

⚠ CAUTION:

- **Perform grounding.**
Do not connect the ground wire to a gas pipe, water pipe arrester or telephone ground wire. Defective grounding could cause an electric shock.
- **Do not install the unit in a place where an inflammable gas leaks.**
If gas leaks and accumulates in the area surrounding the unit, it could cause an explosion.
- **Install a ground leakage breaker depending on the installation place (where it is humid).**
If a ground leakage breaker is not installed, it could cause an electric shock.
- **Perform the drainage/piping work securely according to the installation manual.**
If there is a defect in the drainage/piping work, water could drop from the unit and household goods could be wet and damaged.
- **Fasten a flare nut with a torque wrench as specified in this manual.**
When fastened too tight, a flare nut may be broken after a long period and cause a leakage of refrigerant.

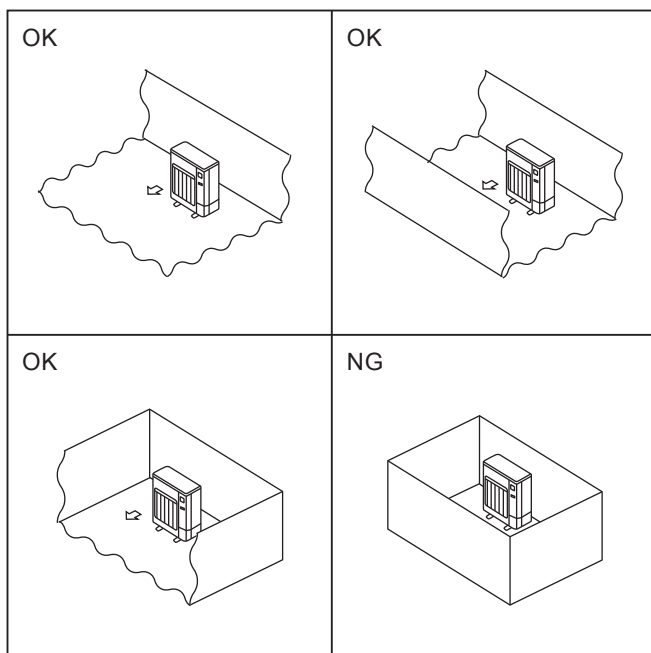


Fig. 1-2

1 Combination table

Split indoor/outdoor unit combination		R32												R410A								ATA/ATW Hybrid system							
		POWER INVERTER						ZUBADAN						POWER INVERTER				ZUBADAN				Mr. SLIM+	PUMY						
		SUZ-SWM40VA	SUZ-SWM60VA	SUZ-SWM80VA	PUD-SWM60VAA	PUD-SWM80V/YAA	PUD-SWM100V/YAA	PUD-SWM120V/YAA	PUD-SHM60VAA	PUD-SHM80V/YAA	PUD-SHM100V/YAA	PUD-SHM120V/YAA	PUD-SHM140V/YAA	PUHZ-SW75V/YAA	PUHZ-SW100V/YAA	PUHZ-SW120V/YHA	PUHZ-SW160YKA	PUHZ-SW200YKA	PUHZ-SHW80V/YAA	PUHZ-SHW112V/YAA	PUHZ-SHW140YHA	PUHZ-SHW230YKA2	PUHZ-FRP71VHA2	PUMY-P112V/KM5	PUMY-P125V/KM5	PUMY-P140V/KM5	PUMY-P112YKM(E)4	PUMY-P125YKM(E)4	PUMY-P140YKM(E)4
Heating only Cylinder	EHST17D-VM2D	●	●	●	●	●			●	●				●															
	EHST17D-YM9D	●	●	●	●	●			●	●				●															
	EHST20D-MED	●	●	●	●	●	●	●	●	●	●	●	●	●															
	EHST20D-VM2D	●	●	●	●	●	●	●	●	●	●	●	●	●															
	EHST20D-VM6D	●	●	●	●	●	●	●	●	●	●	●	●	●															
	EHST20D-YM9D	●	●	●	●	●	●	●	●	●	●	●	●	●															
	EHST20D-YM9ED	●	●	●	●	●	●	●	●	●	●	●	●	●															
	EHST20D-TM9D	●	●	●	●	●	●	●	●	●	●	●	●	●															
	EHST30D-MED	●	●	●	●	●	●	●	●	●	●	●	●	●															
	EHST30D-VM6ED	●	●	●	●	●	●	●	●	●	●	●	●	●															
	EHST30D-YM9ED	●	●	●	●	●	●	●	●	●	●	●	●	●															
	EHST30D-TM9ED	●	●	●	●	●	●	●	●	●	●	●	●	●															
	EHST20C-MED													●	●			●	●	●		●							
	EHST20C-VM2D													●	●			●	●	●		●	●	●	●	●	●	●	●
	EHST20C-VM6D													●	●			●	●	●		●	●	●	●	●	●	●	●
	EHST20C-YM9D													●	●			●	●	●		●	●	●	●	●	●	●	●
	EHST20C-YM9ED													●	●			●	●	●		●	●	●	●	●	●	●	●
	EHST20C-TM9D													●	●			●	●	●		●	●	●	●	●	●	●	●
	EHST30C-MED													●	●			●	●	●									
	EHST30C-VM6ED													●	●			●	●	●									
	EHST30C-YM9ED													●	●			●	●	●									
	EHST30C-TM9ED													●	●			●	●	●									
Reversible Cylinder	ERST17D-VM2D	●	●	●	▲	▲			▲	▲				●															
	ERST17D-VM6D	●	●	●	▲	▲			▲	▲				●															
	ERST20D-VM2D	●	●	●	▲	▲	▲	▲	▲	▲	▲	▲	●																
	ERST20D-VM6D	●	●	●	▲	▲	▲	▲	▲	▲	▲	▲	●																
	ERST20D-YM9D	●	●	●	▲	▲	▲	▲	▲	▲	▲	▲	●																
	ERST30D-VM2ED	●	●	●	▲	▲	▲	▲	▲	▲	▲	▲	●																
	ERST30D-VM6ED	●	●	●	▲	▲	▲	▲	▲	▲	▲	▲	●																
	ERST30D-YM9ED	●	●	●	▲	▲	▲	▲	▲	▲	▲	▲	●																
	ERST20C-VM2D													●	●			●	●	●									
	ERST20C-VM6D													●	●			●	●	●									
	ERST20C-YM9D													●	●			●	●	●									
	ERST30C-VM2ED													●	●			●	●	●									
	ERST30C-VM6ED													●	●			●	●	●									
	ERST30C-YM9ED													●	●			●	●	●									

●: Combination is available.

▲: Combination is possible but cooling function is still not available.

Blank: Combination is NOT available.

1 Combination table

Split indoor/outdoor unit combination		R32												R410A								ATA/ATW Hybrid system								
		POWER INVERTER						ZUBADAN						POWER INVERTER				ZUBADAN				Mr. SLIM+	PUMY							
		SUZ-SWM40VA	SUZ-SWM60VA	SUZ-SWM80VA	PUD-SWM60VAA	PUD-SWM80VYAA	PUD-SWM100VYAA	PUD-SWM120VYAA	PUD-SHM60VAA	PUD-SHWM80VYAA	PUD-SHWM100VYAA	PUD-SHWM120VYAA	PUD-SHWM140VYAA	PUHZ-SW75VYAA	PUHZ-SW100VYAA	PUHZ-SW120VYHA	PUHZ-SW160YKA	PUHZ-SW200YKA	PUHZ-SHW80VYAA	PUHZ-SHW112VYAA	PUHZ-SHW140YHA	PUHZ-SHW230YKA2	PUHZ-FRP71VHA2	PUMY-P112VKM5	PUMY-P125VKM5	PUMY-P140VKM5	PUMY-P112YKM(E)4	PUMY-P125YKM(E)4	PUMY-P140YKM(E)4	
Heating only Hydrobox	EHSD-MED	●	●	●	●	●	●	●	●	●	●	●	●																	
	EHSD-VM2D	●	●	●	●	●	●	●	●	●	●	●	●																	
	EHSD-VM6D	●	●	●	●	●	●	●	●	●	●	●	●																	
	EHSD-YM9D	●	●	●	●	●	●	●	●	●	●	●	●																	
	EHSD-YM9ED	●	●	●	●	●	●	●	●	●	●	●	●																	
	EHSD-TM9D	●	●	●	●	●	●	●	●	●	●	●	●	●																
	EHSC-MED													●	●			●	●	●		●								
	EHSC-VM2D													●	●			●	●	●		●	●	●	●	●	●	●	●	
	EHSC-VM6D													●	●			●	●	●		●	●	●	●	●	●	●	●	
	EHSC-YM9D													●	●			●	●	●		●	●	●	●	●	●	●	●	
	EHSC-YM9ED													●	●			●	●	●		●	●	●	●	●	●	●	●	
	EHSC-TM9D													●	●			●	●	●		●	●	●	●	●	●	●	●	
EHSE-YM9ED																●	●				●									
EHSE-MED																●	●				●									
Reversible Hydrobox	ERSD-MED	●	●	●	▲	▲	▲	▲	▲	▲	▲	▲	●																	
	ERSD-VM2D	●	●	●	▲	▲	▲	▲	▲	▲	▲	▲	●																	
	ERSD-VM6D	●	●	●	▲	▲	▲	▲	▲	▲	▲	▲	●																	
	ERSD-YM9D	●	●	●	▲	▲	▲	▲	▲	▲	▲	▲	●																	
	ERSC-MED													●	●			●	●	●										
	ERSC-VM2D													●	●			●	●	●										
	ERSC-VM6D													●	●			●	●	●										
	ERSC-YM9D													●	●			●	●	●										
	ERSE-YM9ED																●	●				●								
	ERSE-MED																●	●				●								

●: Combination is available.

▲: Combination is possible but cooling function is still not available.

Blank: Combination is NOT available.

Cylinder unit /
Hydrobox / GSHP

* The pump input value is not included.

Heating A7W35: Heating outside air DB 7°C/WB 6°C, Water outlet temperature 37°C ($\Delta T=5^{\circ}\text{C}$)
 A7W45: Heating outside air DB 7°C/WB 6°C, Water outlet temperature 45°C ($\Delta T=5^{\circ}\text{C}$)
 A2W35: Heating outside air DB 2°C/WB 1°C, Water outlet temperature 35°C ($\Delta T=5^{\circ}\text{C}$)

Cooling A35W7: Cooling outside air DB 35°C, Water outlet temperature 7°C ($\Delta T=5^{\circ}\text{C}$)
 A35W18: Cooling outside air DB 35°C, Water outlet temperature 18°C ($\Delta T=5^{\circ}\text{C}$)