

MODEL NAME			SUZ-SHWM40VAH(-SC)	SUZ-SWM60VA2(-SC)
POWER SUPPLY(Phase, voltage, frequency)			1φ, 230 V, 50 Hz	1φ, 230 V, 50 Hz
	Max. Current	A	13.5	13.5
Braker size			16	16
Outer casing			Galvanized plate	Galvanized plate
External finish			Munsell 3Y 7.8/1.1 (FRONT PANEL)	Munsell 3Y 7.8/1.1 (FRONT PANEL)
Refrigerant control			Linear expansion valve	Linear expansion valve
Compressor			Hermetic twin rotary	Hermetic twin rotary
	Model		SVB172FPKM1T	SVB172FPKM1T
	Motor output	kW	1.2	1.2
	Start type		Inverter	Inverter
	Protection devices		Discharge thermo Over current Thermal Protector High pressure cut (Indoor unit)	Discharge thermo Over current Thermal Protector High pressure cut (Indoor unit)
	Oil	L	0.6	0.6
Base heater	Input	kW	0.060	-
Heat exchanger	Air		Plate fin coil	Plate fin coil
	Water		-	-
Fan	Fan(drive) x No.		Propeller fan ×1	Propeller fan ×1
	Fan motor output	kW	0.050	0.050
	Air flow	m ³ /min (CFM)	30.2 (1065)	30.2 (1065)
Defrost method			Reverse cycle	Reverse cycle
Noise level (SPL)	Heating	dBA	44	45
	Cooling	dBA	47	47
Noise level (PWL)	Heating	dBA	58	60
Dimensions	Width	mm(in)	714 (28-1/8)	714 (28-1/8)
	Depth	mm(in)	285 (11-1/4)	285 (11-1/4)
	Height	mm(in)	800 (31-1/2)	800 (31-1/2)
Weight		kg(lbs)	40 (88)	40 (88)
Refrigerant			R32	R32
	Chargeless	kg(lbs)	0.8 (1.8)	0.8 (1.8)
	MAX.	kg(lbs)	1.3 (2.9)	1.3 (2.9)
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	Max. 26	Max. 26
	Piping length	m	2 to 26	2 to 26
Guaranteed operating range (Outdoor)	Heating	°C	-25 to +24	-25 to +24
	DHW	°C	-25 to +35	-25 to +35
	Cooling	°C	+10 to +46	+10 to +46
Outlet water temp. (Max in Heating, Min in Cooling)	Heating	°C	+60	+60
	Cooling	°C	+5	+5
Nominal return water temperature range *1	Heating	°C	+5 to +59	+5 to +59
	Cooling	°C	+8 to +28	+8 to +28
Water Flow rate range		L/min	7.2 to 17.2	7.2 to 17.2

*1 Due to the water quantity of system. See the graph of Section "1.4 Available range".

MODEL NAME			SUZ-SHWM40VAH(-SC)	SUZ-SWM60VA2(-SC)	SUZ-SHWM60VAH(-SC)
Heating (A7/W35)	Capacity	kW	3.00	5.00	5.00
	COP		4.77	4.85	4.95
	Power input	kW	0.63	1.03	1.01
	Flow rate	L/min	8.6	14.3	14.3
Heating (A2/W35)	Capacity	kW	4.00	6.00	6.00
	COP		3.61	3.62	3.47
	Power input	kW	1.11	1.66	1.73
	Flow rate	L/min	11.5	17.2	17.2
Pressure difference (Water circuit)		kPa	-	-	-
Heating pump input (Based on EN14511)		kW	-	-	-
Cooling (A35/W7)	Capacity	kW	4.50	5.00	6.00
	EER (COP)		3.33	3.18	3.28
	Power input	kW	1.35	1.57	1.83
	Flow rate	L/min	12.9	14.3	17.2
Cooling (A35/W18)	Capacity	kW	5.60	6.00	6.00
	EER (COP)		4.70	4.65	5.21
	Power input	kW	1.19	1.29	1.15
	Flow rate	L/min	16.1	17.2	17.2
Pressure difference (Water circuit)		kPa	-	-	-
Cooling pump input (Based on EN14511)		kW	-	-	-
Recommended plate heat exchanger			MWA1-44DM	MWA1-44DM	MWA1-44DM

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

MODEL NAME			SUZ-SWM80VA2	SUZ-SWM80VAH2	SUZ-SWM100VA
Heating (A7/W35)	Capacity	kW	6.00	6.00	7.50
	COP		5.10	5.10	4.85
	Power input	kW	1.18	1.18	1.55
	Flow rate	L/min	17.2	17.2	21.5
Heating (A2/W35)	Capacity	kW	7.50	7.50	9.00
	COP		3.50	3.31	3.12
	Power input	kW	2.14	2.27	2.88
	Flow rate	L/min	21.5	21.5	25.8
Pressure difference (Water circuit)		kPa	-	-	-
Heating pump input (Based on EN14511)		kW	-	-	-
Cooling (A35/W7)	Capacity	kW	6.70	6.70	7.30
	EER (COP)		3.20	3.20	3.00
	Power input	kW	2.09	2.09	2.43
	Flow rate	L/min	19.2	19.2	20.9
Cooling (A35/W18)	Capacity	kW	6.70	6.70	8.10
	EER (COP)		5.06	5.06	4.44
	Power input	kW	1.32	1.32	1.82
	Flow rate	L/min	19.2	19.2	23.2
Pressure difference (Water circuit)		kPa	-	-	-
Cooling pump input (Based on EN14511)		kW	-	-	-
Recommended plate heat exchanger			MWA1-44DM	MWA1-44DM	MWA1-44DM

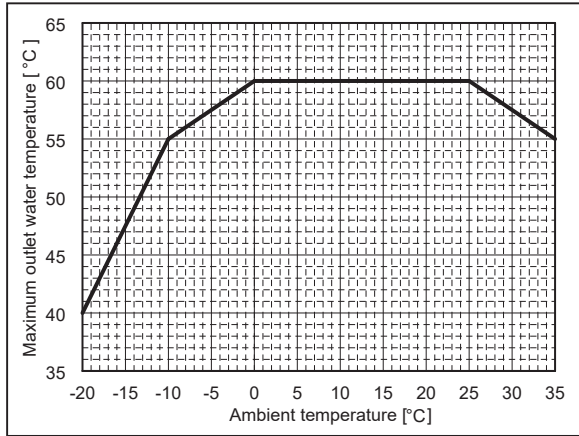
The table shows performance data obtained when a plate heat exchanger is connected.

1 Specifications

Outdoor unit

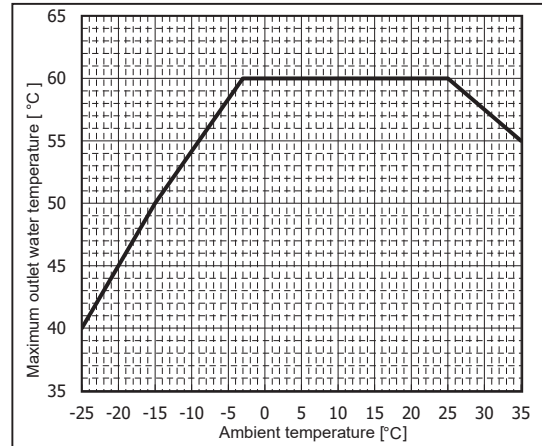
(2) Split-type units

SUZ-SWM40VA
 SUZ-SWM60VA
 SUZ-SWM80VA

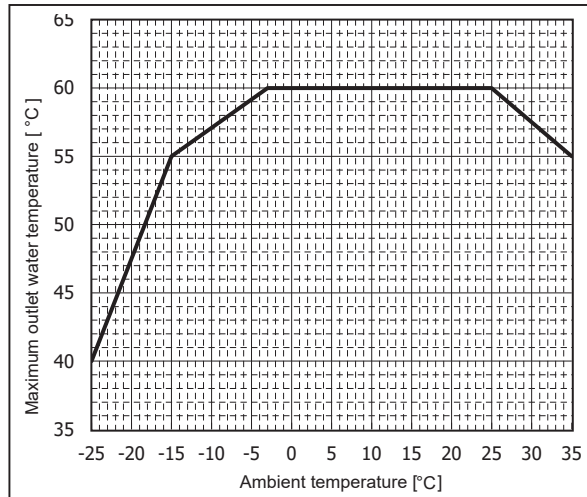


SUZ-SWM30VA
 SUZ-SHWM30VAH

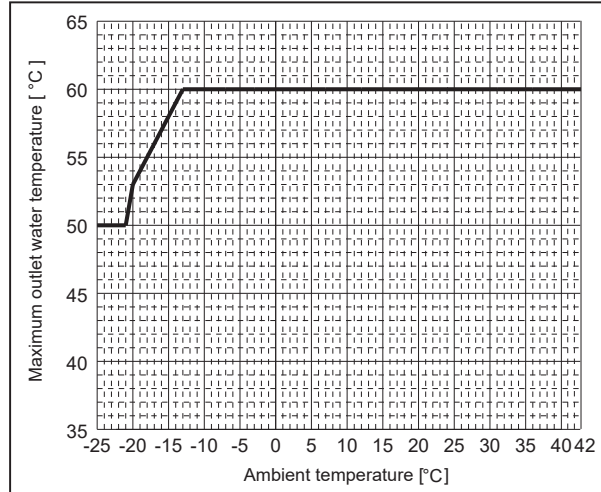
SUZ-SWM40VA2(-SC)
 SUZ-SHWM40VAH(-SC)
 SUZ-SWM60VA2(-SC)



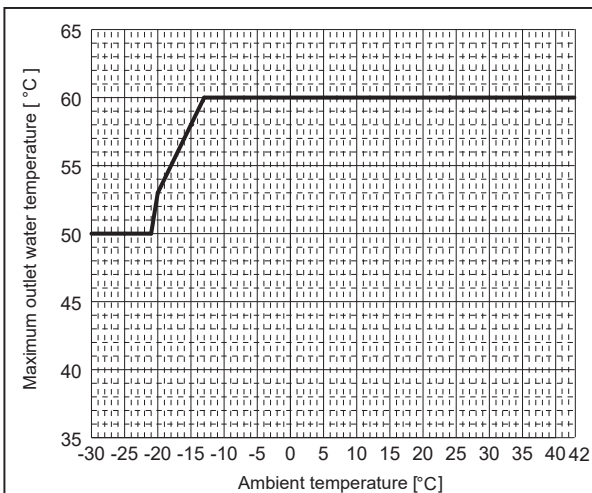
SUZ-SHWM60VAH(-SC) SUZ-SWM100VA
 SUZ-SWM80VA2 SUZ-SWM100VAH
 SUZ-SWM80VAH2



PUZ-SWM60VAA PUZ-SWM120VAA
 PUZ-SWM80VAA PUZ-SWM120YAA
 PUZ-SWM80YAA PUZ-SWM140VAA
 PUZ-SWM100VAA PUZ-SWM140YAA
 PUZ-SWM100YAA



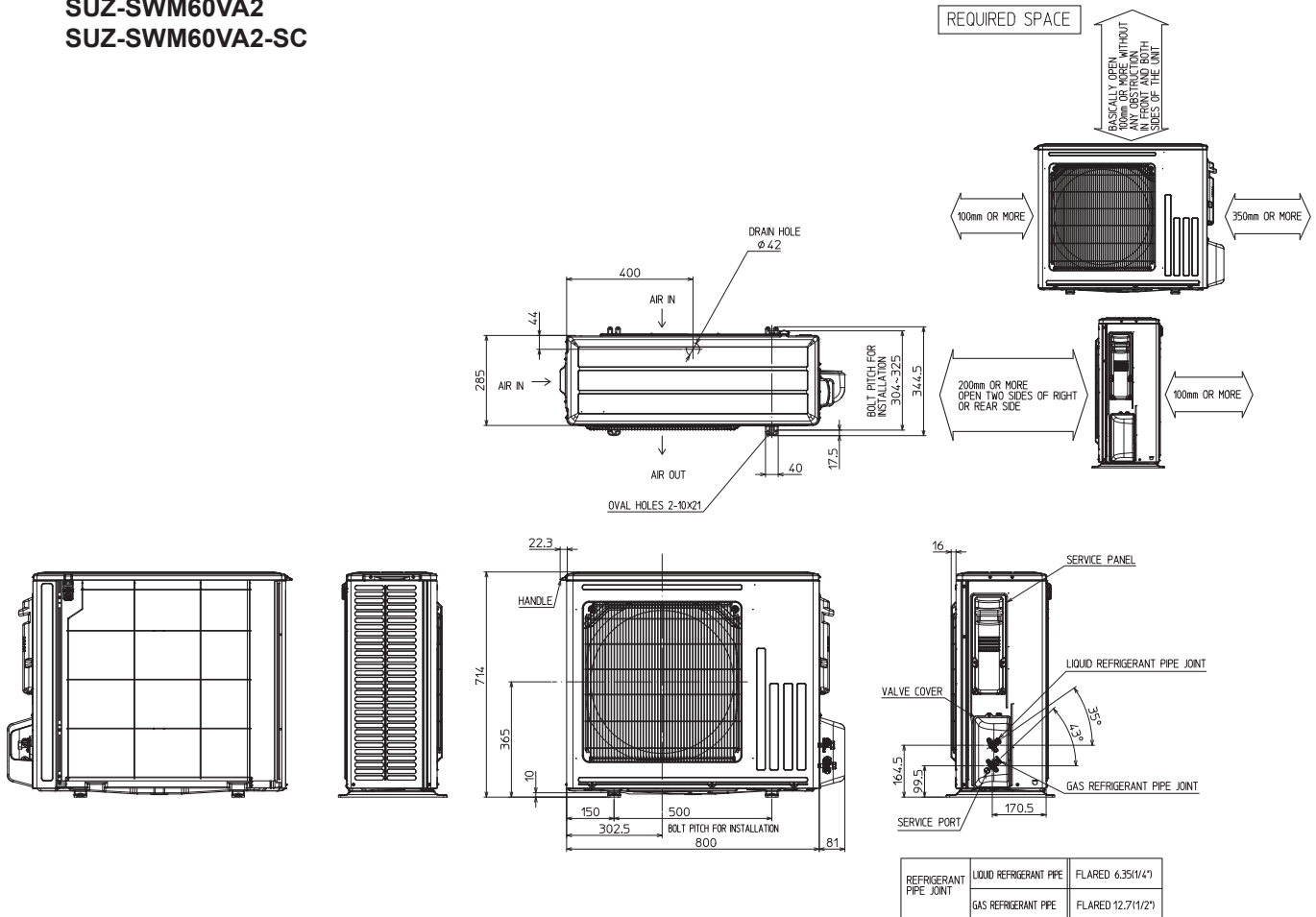
PUZ-SHWM60VAA PUZ-SHWM120VAA
 PUZ-SHWM80VAA PUZ-SHWM120YAA
 PUZ-SHWM80YAA PUZ-SHWM140VAA
 PUZ-SHWM100VAA PUZ-SHWM140YAA
 PUZ-SHWM100YAA



Unit : mm

- SUZ-SWM30VA
- SUZ-SHWM30VAH
- SUZ-SWM40VA2
- SUZ-SWM40VA2-SC
- SUZ-SHWM40VAH
- SUZ-SHWM40VAH-SC
- SUZ-SWM60VA2
- SUZ-SWM60VA2-SC

Outdoor unit



Water outlet temperature [°C]		7		18		
Model	Ambient temperature [°C]	Capacity	COP	Capacity	COP	
SUZ-SWM40VA2(-SC)	Max	35	4.7	3.13	6.5	4.18
		30	5.0	3.67	7.0	5.01
		25	5.2	4.33	7.2	5.96
		20	5.4	5.12	7.5	7.26
	Nominal	35	4.5	3.31	5.6	4.71
		30	4.5	3.88	5.6	5.65
		25	4.5	4.67	5.6	6.72
		20	4.5	5.62	5.6	7.50
	Mid	35	3.6	3.54	4.5	5.16
		30	3.6	4.19	4.5	6.18
		25	3.6	5.00	4.5	7.28
		20	3.6	6.02	4.5	8.28
	Min	35	1.3	3.55	1.6	5.45
		30	1.3	4.05	1.6	6.34
		25	1.4	4.98	1.7	7.82
		20	1.4	5.78	1.8	9.13
SUZ-SHWM40VAH(-SC)	Max	35	4.9	2.98	6.5	3.97
		30	5.3	3.65	6.9	4.62
		25	5.5	4.51	7.2	5.35
		20	5.6	5.83	7.5	6.17
	Nominal	35	4.5	3.33	5.6	4.70
		30	4.5	3.90	5.6	5.41
		25	4.5	4.97	5.6	6.15
		20	4.5	6.37	5.6	6.88
	Mid	35	3.6	3.37	4.5	4.60
		30	3.6	4.04	4.5	5.27
		25	3.6	5.00	4.5	5.79
		20	3.6	6.16	4.5	6.35
	Min	35	1.7	3.14	2.1	4.28
		30	1.8	3.88	2.2	4.95
		25	1.9	4.76	2.3	5.59
		20	2.0	5.84	2.3	6.11
SUZ-SWM60VA2(-SC)	Max	35	5.3	2.82	7.2	3.75
		30	5.7	3.45	7.6	4.36
		25	5.9	4.27	8.0	5.05
		20	6.1	5.52	8.3	5.83
	Nominal	35	5.0	3.18	6.0	4.65
		30	5.0	3.69	6.0	5.11
		25	5.0	4.70	6.0	5.81
		20	5.0	6.03	6.0	6.50
	Mid	35	4.0	3.32	4.8	4.65
		30	4.0	3.98	4.8	5.33
		25	4.0	4.93	4.8	5.85
		20	4.0	6.07	4.8	6.42
	Min	35	1.7	3.11	2.1	4.23
		30	1.8	3.84	2.2	4.90
		25	1.9	4.71	2.3	5.53
		20	2.0	5.77	2.3	6.05
SUZ-SHWM60VAH(-SC)	Max	35	6.3	3.18	8.3	4.23
		30	6.6	3.73	8.5	5.00
		25	6.8	4.43	8.8	6.07
		20	7.0	5.22	9.1	7.43
	Nominal	35	6.0	3.28	6.0	5.21
		30	6.0	3.91	6.0	6.45
		25	6.0	4.74	6.0	7.91
		20	6.0	5.86	6.0	9.36
	Mid	35	4.8	3.52	4.8	5.39
		30	4.8	4.26	4.8	6.60
		25	4.8	5.17	4.8	8.15
		20	4.8	6.39	4.8	9.75
	Min	35	2.3	3.23	3.0	4.86
		30	2.4	3.87	3.2	6.04
		25	2.5	4.74	3.3	7.41
		20	2.6	5.95	3.5	9.03

■ SUZ-SWM60VA2(-SC)

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	-25	-	-	2.7	1.72	2.5	1.60	-	-	-	-	-	-	-	-
	-20	-	-	4.0	1.79	3.8	1.68	3.5	1.57	-	-	-	-	-	-
	-15	-	-	5.0	2.06	4.7	1.91	4.3	1.77	4.3	1.62	-	-	-	-
	-10	6.8	2.58	6.1	2.23	5.9	2.17	5.4	1.88	5.4	1.76	-	-	-	-
	-7	7.8	3.43	7.0	2.69	6.6	2.32	6.2	1.95	5.4	1.74	4.5	1.53	-	-
	2	8.3	4.03	7.3	3.13	6.8	2.68	6.3	2.23	5.7	2.15	5.0	2.07	3.9	1.99
	7	8.6	4.54	8.4	3.58	8.3	3.10	8.2	2.62	7.5	2.47	6.7	2.32	4.8	2.17
	12	8.9	5.17	8.5	4.15	8.3	3.64	8.1	3.13	7.4	2.98	6.7	2.83	4.8	2.68
	15	9.7	5.30	9.3	4.30	9.1	3.80	8.9	3.30	7.8	3.20	6.7	3.09	4.8	2.99
	20	11.1	5.40	10.7	4.65	10.5	4.14	10.3	3.62	8.5	3.62	6.7	3.61	4.8	3.61
Nominal	-25	-	-	2.7	1.72	2.5	1.60	-	-	-	-	-	-	-	-
	-20	-	-	4.0	1.79	3.8	1.68	3.5	1.57	-	-	-	-	-	-
	-15	-	-	5.0	2.06	4.7	1.91	4.3	1.77	4.3	1.62	-	-	-	-
	-10	6.0	3.00	6.0	2.44	5.9	2.17	5.4	1.88	5.4	1.76	-	-	-	-
	-7	6.0	4.36	6.0	3.16	6.0	2.56	6.0	1.96	5.3	1.75	4.5	1.53	-	-
	2	6.0	4.86	6.0	3.62	6.0	3.00	6.0	2.38	5.5	2.23	5.0	2.07	3.9	1.99
	7	5.0	6.47	5.0	4.85	5.0	4.04	5.0	3.23	5.0	3.00	5.0	2.77	4.8	2.17
	12	6.0	6.21	6.0	4.88	6.0	4.22	6.0	3.55	6.0	3.28	6.0	3.01	4.8	2.68
	15	6.0	6.55	6.0	5.22	6.0	4.56	6.0	3.89	6.0	3.58	6.0	3.27	4.8	2.99
	20	6.0	6.85	6.0	5.87	6.0	5.20	6.0	4.53	6.0	4.17	6.0	3.80	4.8	3.61
Mid	-25	-	-	2.3	1.76	2.0	1.63	-	-	-	-	-	-	-	-
	-20	-	-	3.2	2.07	3.0	1.85	2.8	1.63	-	-	-	-	-	-
	-15	-	-	4.0	2.35	3.8	2.11	3.5	1.88	3.5	1.64	-	-	-	-
	-10	4.8	3.39	4.8	2.65	4.7	2.28	4.3	1.91	4.3	1.71	-	-	-	-
	-7	4.8	4.33	4.8	3.19	4.8	2.62	4.8	2.05	4.2	1.83	3.6	1.61	-	-
	2	4.8	5.19	4.8	3.86	4.8	3.20	4.8	2.53	4.4	2.31	4.0	2.09	3.1	1.87
	7	4.0	6.16	4.0	4.74	4.0	4.03	4.0	3.32	4.0	3.13	4.0	2.94	3.8	2.75
	12	4.8	6.40	4.8	5.05	4.8	4.38	4.8	3.70	4.8	3.46	4.8	3.22	3.8	2.98
	15	4.8	6.63	4.8	5.32	4.8	4.67	4.8	4.01	4.8	3.77	4.8	3.53	3.8	3.29
	20	4.8	6.72	4.8	5.83	4.8	5.21	4.8	4.59	4.8	4.31	4.8	4.03	3.8	3.75
Min	-25	-	-	2.3	1.76	2.2	1.63	-	-	-	-	-	-	-	-
	-20	-	-	2.4	2.11	2.4	1.90	2.4	1.69	-	-	-	-	-	-
	-15	-	-	2.9	2.35	2.8	2.13	2.6	1.90	2.6	1.68	-	-	-	-
	-10	3.5	3.84	3.4	2.93	3.3	2.48	3.3	2.03	3.3	1.75	-	-	-	-
	-7	2.9	5.10	2.8	3.64	2.7	2.91	2.7	2.18	2.6	1.94	2.6	1.70	-	-
	2	2.7	5.72	2.6	4.21	2.6	3.46	2.5	2.70	2.5	2.37	2.4	2.04	2.4	1.71
	7	2.8	5.80	2.7	4.49	2.7	3.84	2.6	3.18	2.5	3.02	2.3	2.86	2.2	2.70
	12	2.6	5.61	2.5	4.49	2.5	3.93	2.4	3.37	2.3	3.24	2.2	3.11	2.1	2.98
	15	3.0	5.81	2.8	4.73	2.7	4.19	2.6	3.65	2.5	3.52	2.4	3.39	2.3	3.26
	20	3.4	5.65	3.2	5.24	3.1	4.72	3.0	4.20	2.9	4.03	2.8	3.85	2.7	3.68

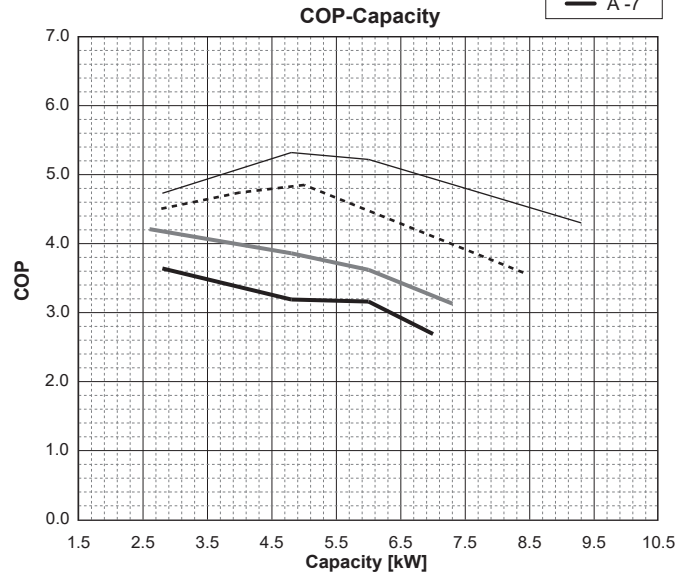
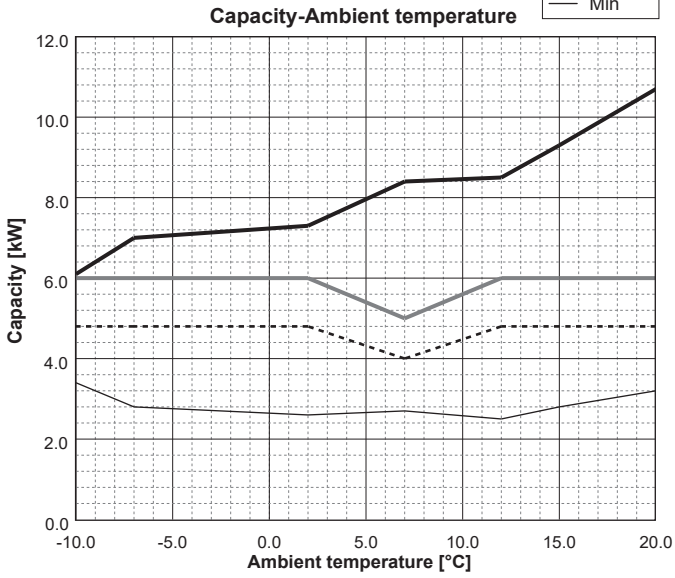
■ SUZ-SHWM60VAH(-SC)

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	-25	-	-	4.8	1.73	4.4	1.57	-	-	-	-	-	-	-	-
	-20	-	-	6.0	1.87	5.6	1.74	5.2	1.36	-	-	-	-	-	-
	-15	-	-	6.6	2.05	6.6	1.97	5.7	1.47	5.3	1.35	4.8	1.23	-	-
	-10	8.2	2.69	7.6	2.17	7.3	1.91	7.0	1.65	6.4	1.55	5.7	1.44	-	-
	-7	8.2	3.16	7.6	2.58	7.3	2.29	7.0	2.00	6.6	1.84	6.1	1.68	-	-
	2	7.8	3.74	7.4	3.13	7.2	2.83	7.0	2.52	6.5	2.27	6.0	2.02	5.0	1.78
	7	8.9	4.93	8.6	4.04	8.5	3.60	8.3	3.15	7.5	2.90	6.7	2.64	4.8	2.39
	12	8.9	6.25	8.5	5.04	8.3	4.44	8.1	3.83	7.4	3.47	6.7	3.11	4.8	2.75
	15	9.7	6.85	9.3	5.50	9.1	4.83	8.9	4.15	7.8	3.79	6.7	3.42	4.8	3.06
	20	11.1	7.47	10.7	6.27	10.5	5.48	10.3	4.68	8.5	4.32	6.7	3.95	4.8	3.59
Nominal	-25	-	-	4.8	1.73	4.4	1.57	-	-	-	-	-	-	-	-
	-20	-	-	6.0	1.87	5.6	1.74	5.2	1.61	-	-	-	-	-	-
	-15	-	-	6.0	2.09	6.0	1.78	5.7	1.47	5.3	1.35	4.8	1.23	-	-
	-10	6.0	3.01	6.0	2.38	6.0	2.07	6.0	1.75	5.9	1.60	5.7	1.44	-	-
	-7	6.0	3.64	6.0	2.87	6.0	2.49	6.0	2.10	6.0	1.84	6.0	1.69	-	-
	2	6.0	4.38	6.0	3.47	6.0	3.01	6.0	2.56	6.0	2.27	6.0	2.18	5.0	1.78
	7	5.0	6.31	5.0	4.95	5.0	4.27	5.0	3.59	5.0	3.27	5.0	2.94	4.8	2.39
	12	6.0	7.29	6.0	5.73	6.0	4.95	6.0	4.17	6.0	3.68	6.0	3.19	4.8	2.75
	15	6.0	8.34	6.0	6.49	6.0	5.57	6.0	4.64	6.0	4.08	6.0	3.51	4.8	3.06
	20	6.0	9.97	6.0	7.98	6.0	6.73	6.0	5.47	6.0	4.76	6.0	4.04	4.8	3.59
Mid	-25	-	-	3.8	1.61	3.6	1.46	-	-	-	-	-	-	-	-
	-20	-	-	4.8	1.86	4.5	1.57	4.2	1.28	-	-	-	-	-	-
	-15	-	-	4.8	2.19	4.8	1.87	4.6	1.54	4.2	1.22	3.8	1.28	-	-
	-10	4.8	3.18	4.8	2.52	4.8	2.19	4.8	1.86	4.7	1.68	4.6	1.49	-	-
	-7	4.8	3.68	4.8	2.95	4.8	2.59	4.8	2.22	4.8	2.00	4.8	1.78	-	-
	2	4.8	4.51	4.8	3.65	4.8	3.22	4.8	2.79	4.8	2.51	4.8	2.23	4.0	1.95
	7	4.0	6.32	4.0	4.96	4.0	4.28	4.0	3.60	4.0	3.28	4.0	2.95	3.8	2.63
	12	4.8	7.51	4.8	5.88	4.8	5.07	4.8	4.25	4.8	3.78	4.8	3.30	3.8	2.83
	15	4.8	8.57	4.8	6.63	4.8	5.66	4.8	4.69	4.8	4.14	4.8	3.59	3.8	3.04
	20	4.8	10.18	4.8	8.10	4.8	6.79	4.8	5.48	4.8	4.79	4.8	4.09	3.8	3.40
Min	-25	-	-	3.8	1.61	3.6	1.46	-	-	-	-	-	-	-	-
	-20	-	-	3.9	2.61	3.6	2.19	3.3	1.78	-	-	-	-	-	-
	-15	-	-	4.2	2.66	3.8	2.29	3.4	1.91	3.0	1.54	3.2	1.54	-	-
	-10	5.0	3.33	4.5	2.66	4.3	2.33	4.0	1.99	3.9	1.81	3.8	1.62	-	-
	-7	4.3	3.70	3.9	2.95	3.7	2.58	3.5	2.20	3.5	1.99	3.4	1.78	-	-
	2	4.1	5.22	3.8	4.17	3.7	3.65	3.5	3.12	3.4	2.83	3.3	2.54	3.2	2.25
	7	3.8	6.33	3.6	4.98	3.5	4.31	3.4	3.63	3.4	3.28	3.3	2.93	3.3	2.58
	12	3.6	7.58	3.4	5.84	3.3	4.97	3.2	4.10	3.2	3.67	3.1	3.24	3.1	2.81
	15	4.0	8.69	3.8	6.61	3.7	5.57	3.6	4.53	3.5	4.03	3.4	3.53	3.3	3.03
	20	4.7	10.02	4.4	8.28	4.3	6.86	4.1	5.43	4.0	4.77	3.9	4.10	3.8	3.44

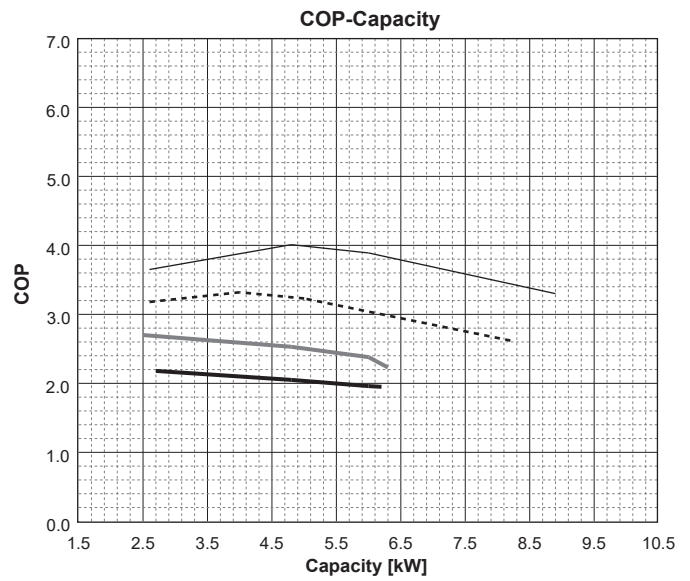
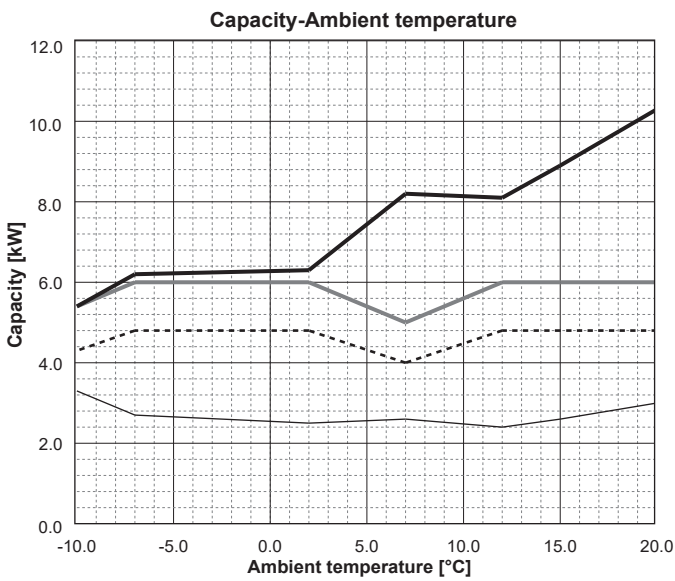
Outdoor unit

SUZ-SWM60VA2(-SC)

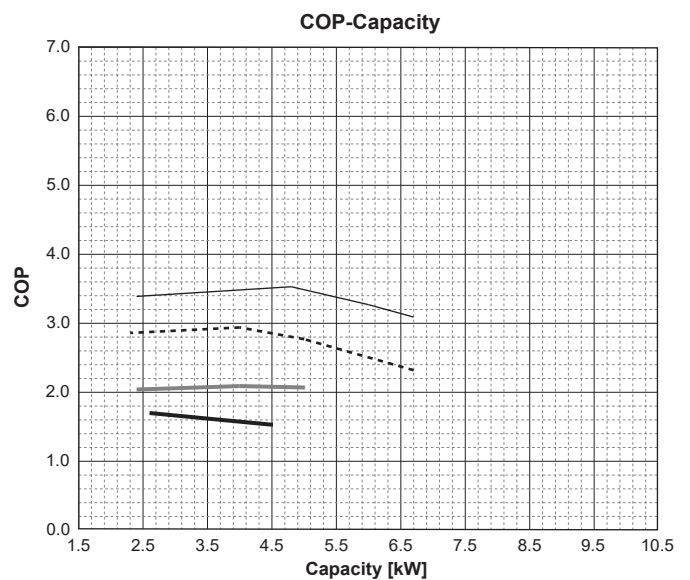
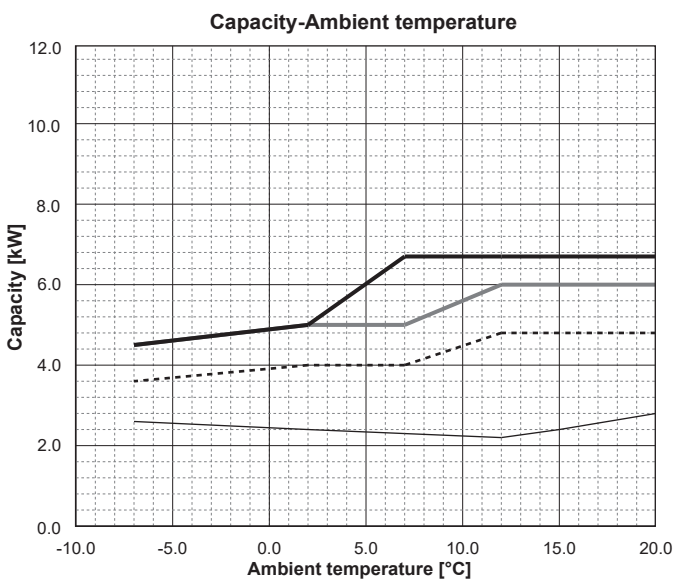
■ Water outlet temperature 35 [°C]



■ Water outlet temperature 45 [°C]



■ Water outlet temperature 55 [°C]



Split-type units

■ SUZ-SWM30VA

SUZ-SHWM30VAH

SUZ-SWM40VA2(-SC)

SUZ-SHWM40VAH(-SC)

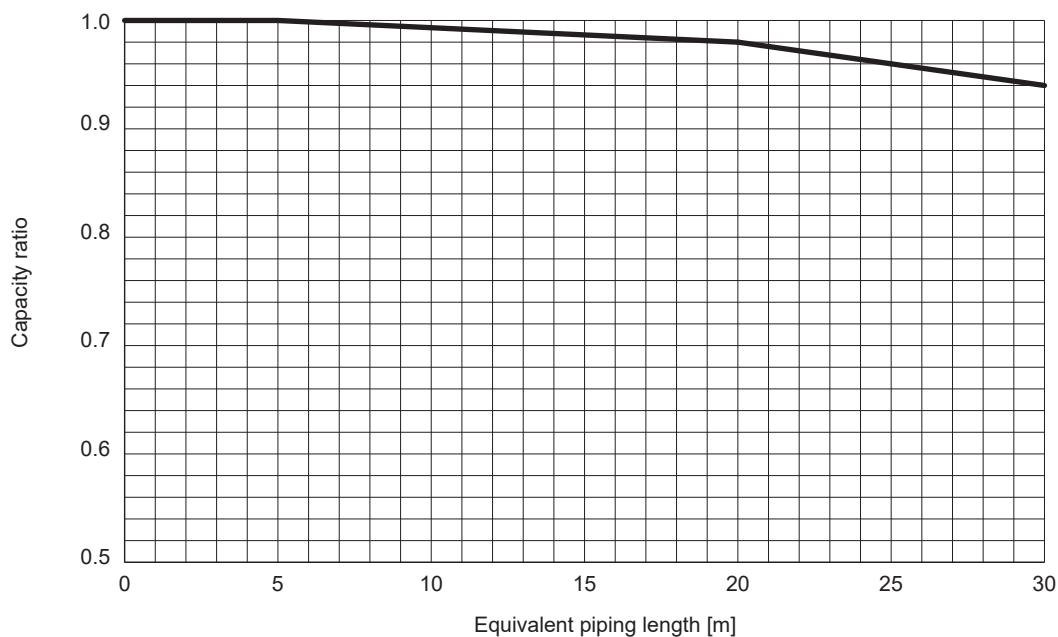
SUZ-SWM60VA2(-SC)

<Method for obtaining the equivalent piping length>

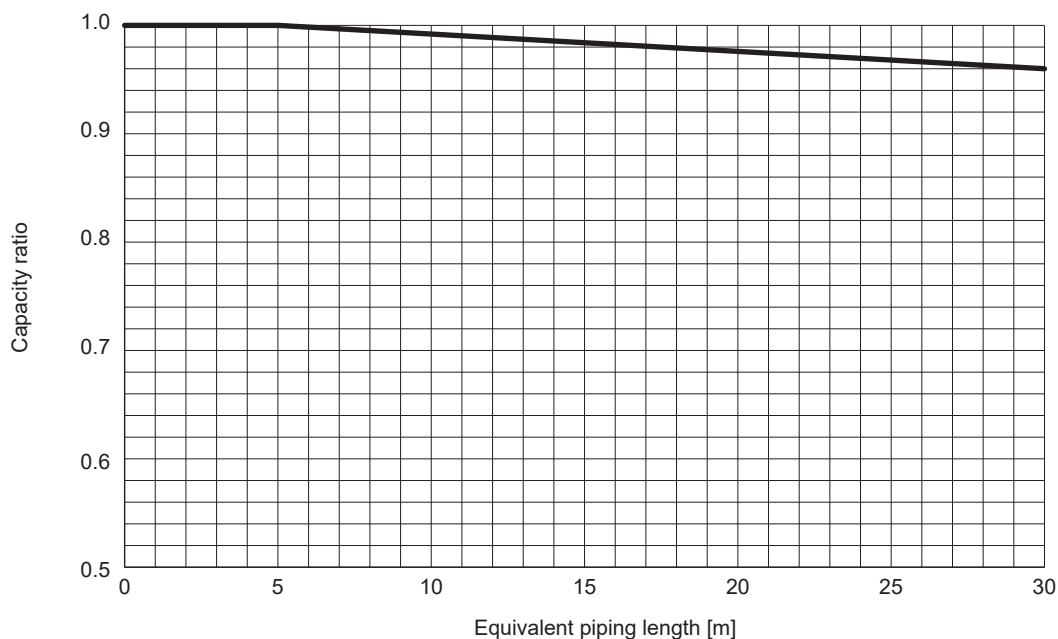
$$\text{Equivalent length} = (\text{piping length}^{*1}) + 0.3 \times (\text{number of bends in the piping})$$

*1 Max piping length of SUZ series is 30m.

<Cooling>

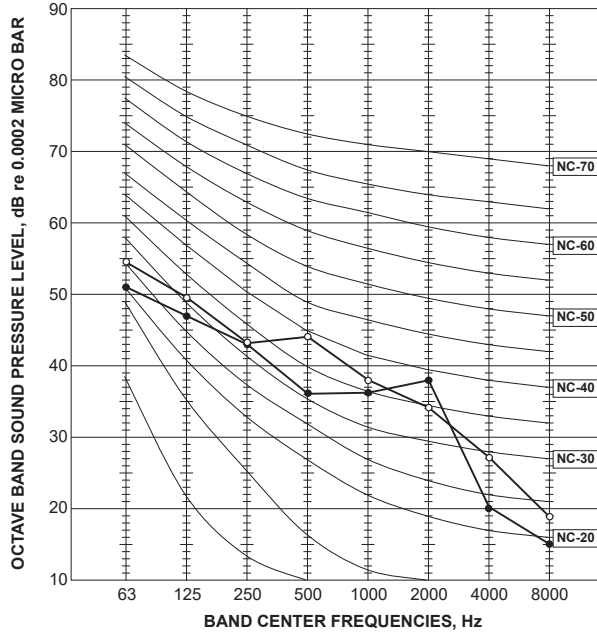


<Heating>



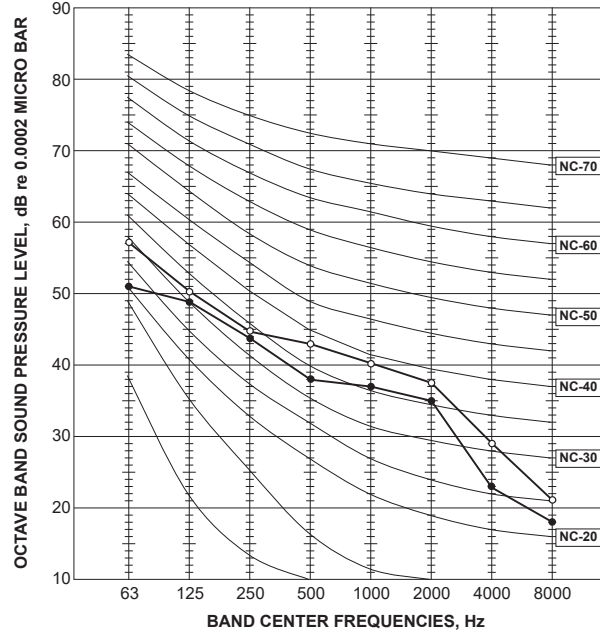
■ SUZ-S(H)WM30VA(H)

FUNCTION	SPL(dBA)	LINE
COOLING	45	○—○
HEATING	43	●—●



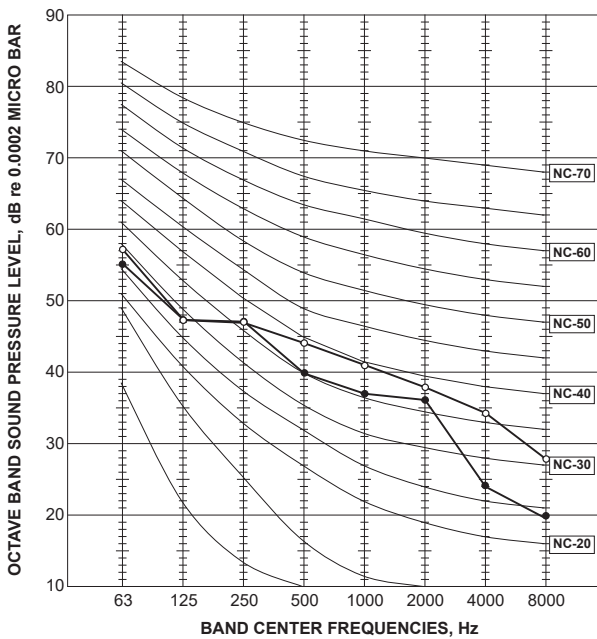
■ SUZ-SWM40VA2(-SC)

FUNCTION	SPL(dBA)	LINE
COOLING	46	○—○
HEATING	43	●—●



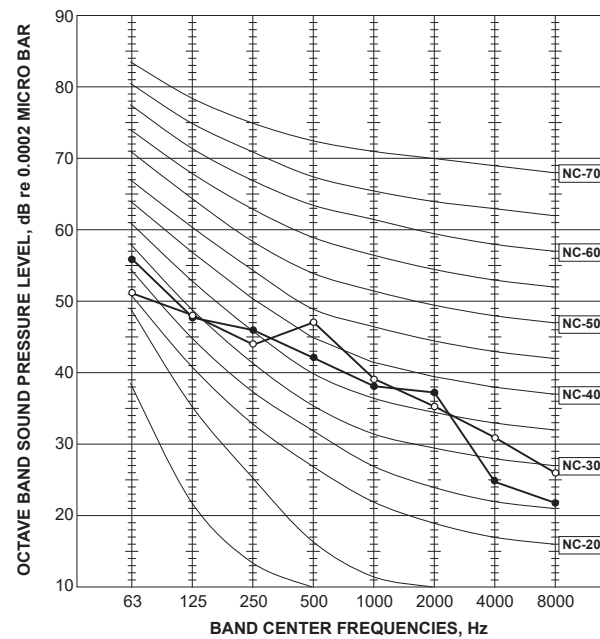
■ SUZ-SHWM40VAH(-SC)

FUNCTION	SPL(dBA)	LINE
COOLING	47	○—○
HEATING	44	●—●



■ SUZ-SWM60VA2(-SC)

FUNCTION	SPL(dBA)	LINE
COOLING	47	○—○
HEATING	45	●—●



<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.