

MODEL NAME			SUZ-SHWM60VAH(-SC)	SUZ-SWM80VA2
POWER SUPPLY(Phase, voltage, frequency)			1φ, 230 V, 50 Hz	1φ, 230 V, 50 Hz
	Max. Current	A	17.3	17.3
Braker size		A	20	20
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		SVB220FUAM2T	SVB220FUAM2T
	Motor output	kW	1.5	1.5
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	0.120	-
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 <sup>3</sup> /min (CFM)	41.7 (1471)	46.5 (1642)
Defrost method			Reverse cycle	Reverse cycle
Noise level (SPL)	Heating	dB(A)	45	46
	Cooling	dB(A)	47	47
Noise level (PWL)	Heating	dB(A)	60	60
Dimensions	Width	mm(in)	840 (33-1/16)	840 (33-1/16)
	Depth	mm(in)	330 (13)	330 (13)
	Height	mm(in)	880 (34-5/8)	880 (34-5/8)
Weight		kg(lbs)	53.5 (118)	53 (117)
Refrigerant			R32	R32
	Chargeless	kg(lbs)	1.1 (2.4)	1.1 (2.4)
	MAX.	kg(lbs)	1.7 (3.7)	1.7 (3.7)
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. 30	Max. 30
	Piping length	m	2 to 46	2 to 46
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	10.9 to 21.5	10.9 to 21.5

\*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

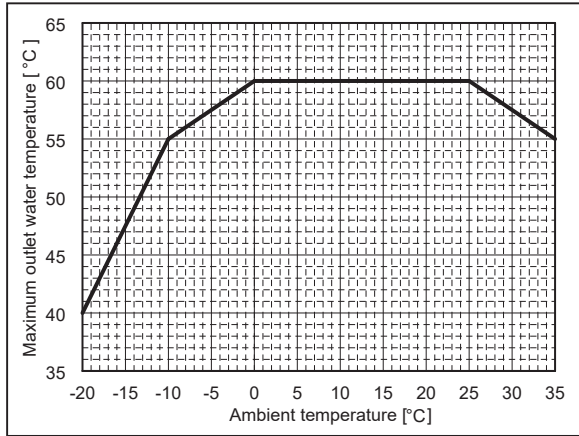
The table shows performance data obtained when a plate heat exchanger is connected.

# 1 Specifications

## Outdoor unit

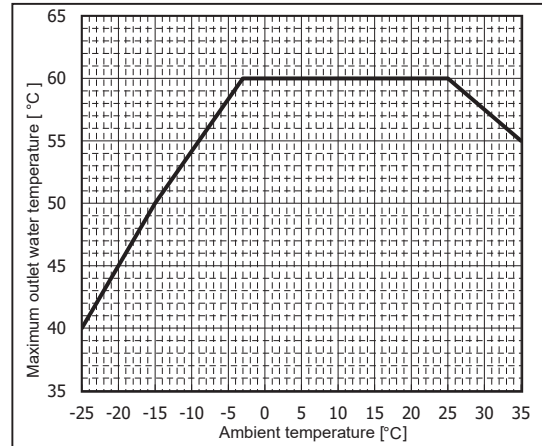
### (2) Split-type units

SUZ-SWM40VA  
 SUZ-SWM60VA  
 SUZ-SWM80VA

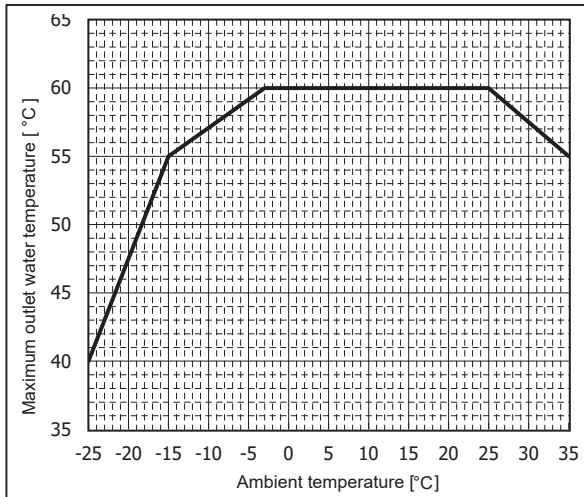


SUZ-SWM30VA  
 SUZ-SHWM30VAH

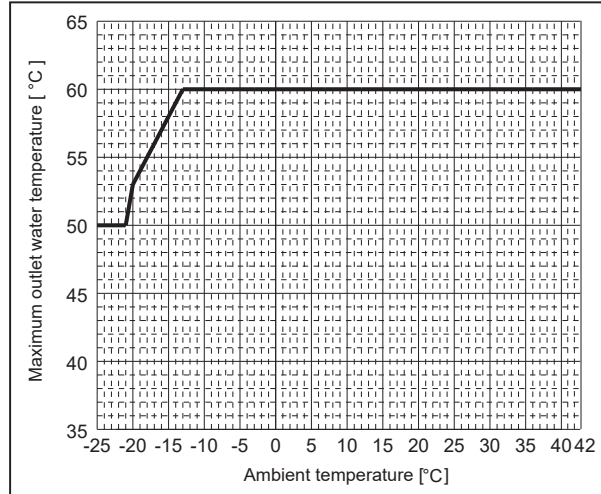
SUZ-SWM40VA2(-SC)  
 SUZ-SHWM40VAH(-SC)  
 SUZ-SWM60VA2(-SC)



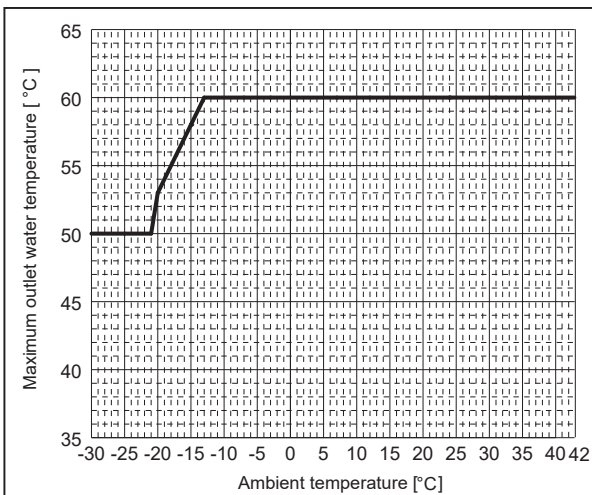
SUZ-SHWM60VAH(-SC) SUZ-SWM100VA  
 SUZ-SWM80VA2 SUZ-SWM100VAH  
 SUZ-SWM80VAH2



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

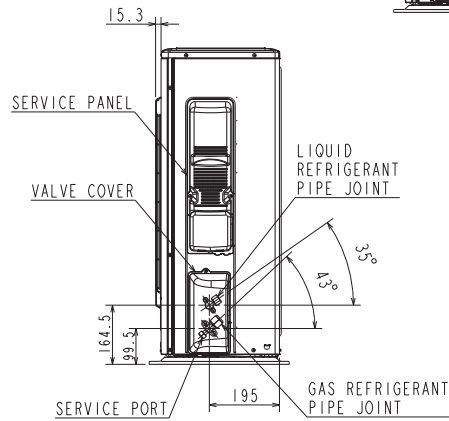
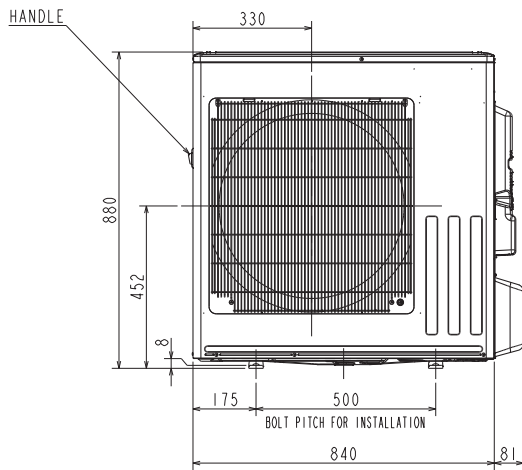
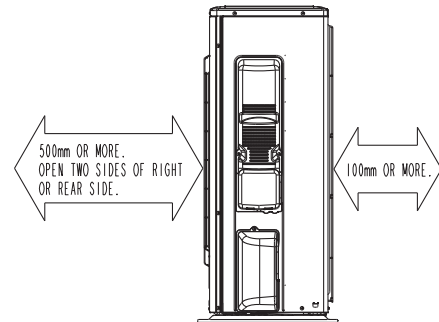
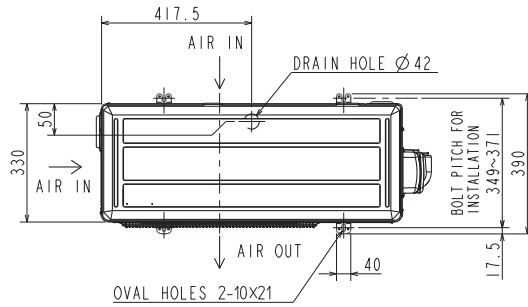
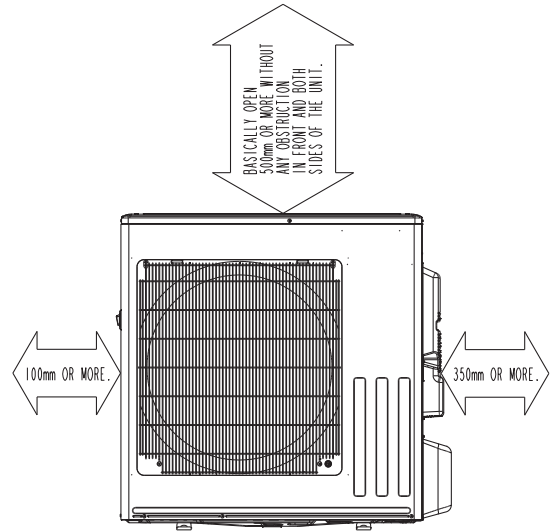


- SUZ-SHWM60VAH
- SUZ-SHWM60VAH-SC
- SUZ-SWM80VA2
- SUZ-SWM80VAH2
- SUZ-SWM100VA
- SUZ-SWM100VAH

Unit : mm

Outdoor unit

### REQUIRED SPACE



REFRIGERANT PIPE JOINT	LIQUID REFRIGERANT PIPE	FLARED ø6.35 (1/4")
	GAS REFRIGERANT PIPE	FLARED ø12.7 (1/2")

Water outlet temperature [°C]		7		18		
Model	Ambient temperature [°C]	Capacity	COP	Capacity	COP	
SUZ-SWM80VA2 SUZ-SWM80VAH2	Max	35	6.9	2.98	9.1	3.89
		30	7.2	3.50	9.3	4.60
		25	7.5	4.15	9.7	5.58
		20	7.7	4.89	10.0	6.83
	Nominal	35	6.7	3.20	6.7	5.06
		30	6.7	3.66	6.7	5.93
		25	6.7	4.44	6.7	7.28
	Mid	20	6.7	5.49	6.7	8.61
		35	5.4	3.43	5.4	5.23
		30	5.4	4.16	5.4	6.41
		25	5.4	5.04	5.4	7.91
	Min	20	5.4	6.23	5.4	9.47
		35	2.3	3.15	3.0	4.72
		30	2.4	3.78	3.2	5.86
		25	2.5	4.62	3.3	7.20
	SUZ-SWM100VA SUZ-SWM100VAH	Max	20	2.6	5.80	3.5
35			7.5	2.78	10.1	3.46
30			7.9	3.25	10.4	4.10
25			8.2	3.82	10.8	4.91
Nominal		20	8.5	4.53	11.1	5.93
		35	7.3	3.00	8.1	4.44
		30	7.3	3.46	8.1	5.14
		25	7.3	4.17	8.1	6.18
Mid		20	7.3	5.22	8.1	7.28
		35	5.8	3.28	6.5	4.79
		30	5.8	3.96	6.5	5.77
		25	5.8	4.87	6.5	7.09
Min		20	5.8	6.00	6.5	8.37
		35	2.3	3.10	3.0	4.41
		30	2.4	3.72	3.2	5.48
		25	2.5	4.55	3.3	6.73
	20	2.6	5.71	3.5	8.19	

**■ SUZ-SWM80VA2**

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	1.81	4.4	1.64	-	-	-	-	-	-	-	-
	-20	-	-	6.0	1.94	5.6	1.81	5.2	1.67	-	-	-	-	-	-
	-15	-	-	7.0	2.26	6.6	2.05	6.1	1.83	6.0	1.67	5.9	1.50	-	-
	-10	8.6	2.82	8.0	2.36	7.3	2.20	7.0	1.90	6.7	1.73	6.3	1.56	-	-
	-7	9.0	3.30	8.0	2.63	7.7	2.30	7.4	1.96	7.0	1.78	6.6	1.59	-	-
	2	8.8	3.78	8.4	3.15	8.2	2.84	8.0	2.52	7.8	2.33	7.5	2.13	6.5	1.94
	7	10.4	4.58	10.1	3.79	10.0	3.40	9.8	3.00	9.0	2.77	8.2	2.54	6.0	2.31
	12	10.5	5.90	10.1	4.79	9.9	4.24	9.7	3.68	9.0	3.36	8.2	3.03	6.0	2.71
	15	11.5	6.41	11.0	5.19	10.8	4.58	10.5	3.97	9.4	3.67	8.2	3.36	6.0	3.06
20	13.2	6.94	12.7	5.87	12.5	5.16	12.2	4.44	10.2	4.18	8.2	3.92	6.0	3.66	
Nominal	-25	-	-	4.8	1.81	4.4	1.64	-	-	-	-	-	-	-	-
	-20	-	-	6.0	1.94	5.6	1.81	5.2	1.67	-	-	-	-	-	-
	-15	-	-	7.0	2.26	6.6	2.05	6.1	1.83	6.0	1.67	5.9	1.50	-	-
	-10	7.0	2.80	7.0	2.35	7.0	2.13	7.0	1.90	6.7	1.73	6.3	1.56	-	-
	-7	7.0	3.79	7.0	2.90	7.0	2.46	7.0	2.01	7.0	1.78	6.6	1.59	-	-
	2	7.5	4.39	7.5	3.50	7.5	3.06	7.5	2.61	7.8	2.33	7.5	2.17	6.5	1.94
	7	6.0	6.63	6.0	5.10	6.0	4.34	6.0	3.57	6.0	3.29	6.0	3.00	6.0	2.31
	12	7.5	7.01	7.5	5.54	7.5	4.81	7.5	4.07	7.5	3.60	7.5	3.12	6.0	2.71
	15	7.5	8.12	7.5	6.34	7.5	5.45	7.5	4.56	7.5	4.02	7.5	3.47	6.0	3.06
20	7.5	9.79	7.5	7.88	7.5	6.67	7.5	5.45	7.5	4.74	7.5	4.03	6.0	3.66	
Mid	-25	-	-	3.8	1.83	3.6	1.66	-	-	-	-	-	-	-	-
	-20	-	-	4.8	2.07	4.5	1.75	4.2	1.43	-	-	-	-	-	-
	-15	-	-	5.6	2.31	5.2	1.97	4.9	1.62	4.8	1.28	4.7	1.30	-	-
	-10	5.6	3.22	5.6	2.55	5.6	2.22	5.6	1.88	5.3	1.72	5.0	1.55	-	-
	-7	6.2	3.73	5.9	2.92	5.6	2.52	5.6	2.11	5.6	1.90	5.3	1.68	-	-
	2	6.0	4.45	6.0	3.66	6.0	3.27	6.0	2.87	6.2	2.60	6.0	2.32	5.2	2.05
	7	4.8	6.34	4.8	5.00	4.8	4.33	4.8	3.66	4.8	3.34	4.8	3.01	4.8	2.69
	12	6.0	7.53	6.0	5.90	6.0	5.09	6.0	4.27	6.0	3.79	6.0	3.31	4.8	2.83
	15	6.0	8.64	6.0	6.70	6.0	5.73	6.0	4.76	6.0	4.20	6.0	3.64	4.8	3.08
20	6.0	10.36	6.0	8.27	6.0	6.95	6.0	5.63	6.0	4.92	6.0	4.20	4.8	3.49	
Min	-25	-	-	3.8	1.83	3.6	1.66	-	-	-	-	-	-	-	-
	-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	

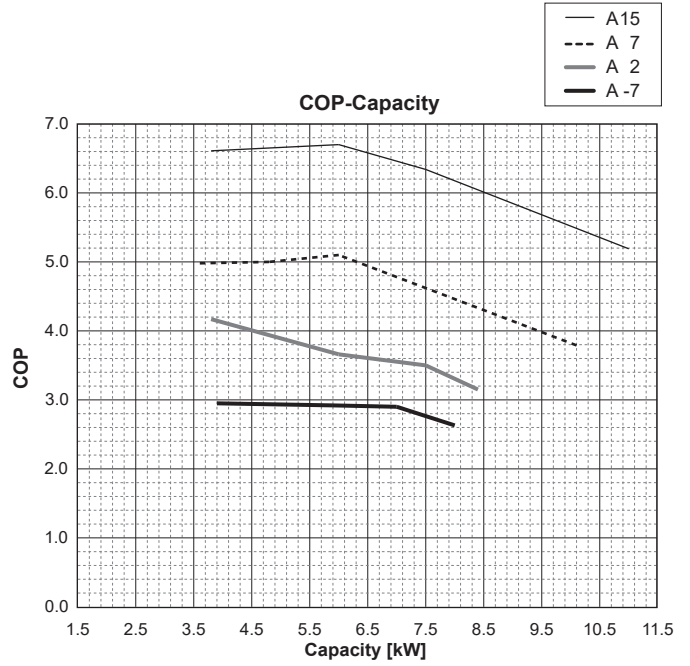
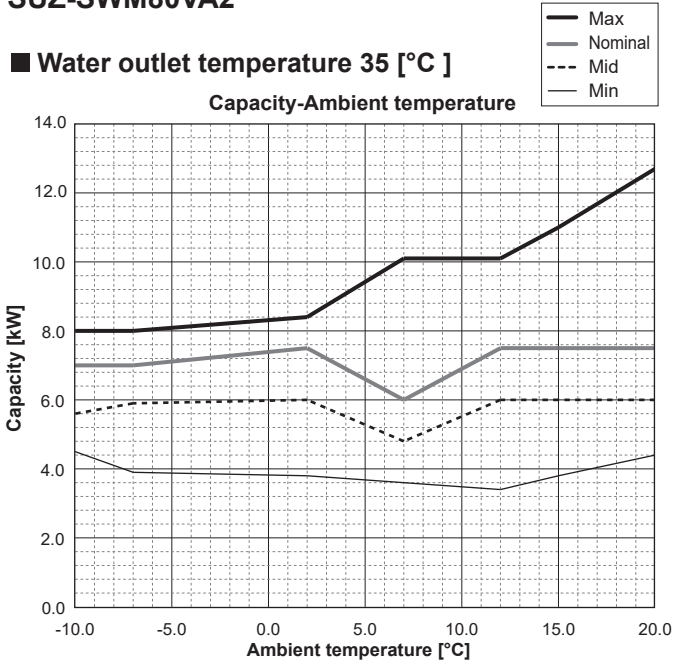
**■ SUZ-SWM80VAH2**

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	1.61	-	-	-	-	-	-
	-15	-	-	7.0	2.18	6.6	1.97	6.1	1.77	6.0	1.61	5.9	1.46	-	-
	-10	8.6	2.71	8.0	2.28	7.3	2.12	7.0	1.84	6.7	1.68	6.3	1.51	-	-
	-7	9.0	3.16	8.0	2.53	7.7	2.22	7.4	1.90	7.0	1.72	6.6	1.55	-	-
	2	8.8	3.59	8.4	3.01	8.2	2.72	8.0	2.43	7.8	2.24	7.5	2.06	6.5	1.87
	7	10.4	4.58	10.1	3.79	10.0	3.40	9.8	3.00	9.0	2.77	8.2	2.54	6.0	2.31
	12	10.5	5.90	10.1	4.79	9.9	4.24	9.7	3.68	9.0	3.36	8.2	3.03	6.0	2.71
	15	11.5	6.41	11.0	5.19	10.8	4.58	10.5	3.97	9.4	3.67	8.2	3.36	6.0	3.06
20	13.2	6.94	12.7	5.87	12.5	5.16	12.2	4.44	10.2	4.18	8.2	3.92	6.0	3.66	
Nominal	-25	-	-	4.8	1.73	4.4	1.57	-	-	-	-	-	-	-	-
	-20	-	-	6.0	1.87	5.6	1.74	5.2	1.61	-	-	-	-	-	-
	-15	-	-	7.0	2.18	6.6	1.97	6.1	1.77	6.0	1.61	5.9	1.46	-	-
	-10	7.0	2.67	7.0	2.26	7.0	2.05	7.0	1.84	6.7	1.68	6.3	1.51	-	-
	-7	7.0	3.56	7.0	2.76	7.0	2.36	7.0	1.94	7.0	1.72	6.6	1.55	-	-
	2	7.5	4.10	7.5	3.31	7.5	2.91	7.5	2.51	7.8	2.24	7.5	2.10	6.5	1.87
	7	6.0	6.63	6.0	5.10	6.0	4.34	6.0	3.57	6.0	3.29	6.0	3.00	6.0	2.31
	12	7.5	7.01	7.5	5.54	7.5	4.81	7.5	4.07	7.5	3.60	7.5	3.12	6.0	2.71
	15	7.5	8.12	7.5	6.34	7.5	5.45	7.5	4.56	7.5	4.02	7.5	3.47	6.0	3.06
20	7.5	9.79	7.5	7.88	7.5	6.67	7.5	5.45	7.5	4.74	7.5	4.03	6.0	3.66	
Mid	-25	-	-	3.8	1.73	3.6	1.57	-	-	-	-	-	-	-	-
	-20	-	-	4.8	1.97	4.5	1.67	4.2	1.38	-	-	-	-	-	-
	-15	-	-	5.6	2.20	5.2	1.88	4.9	1.56	4.8	1.24	4.7	1.26	-	-
	-10	5.6	3.01	5.6	2.42	5.6	2.11	5.6	1.81	5.3	1.65	5.0	1.49	-	-
	-7	6.2	3.48	5.9	2.76	5.6	2.39	5.6	2.02	5.6	1.82	5.3	1.62	-	-
	2	6.0	4.09	6.0	3.41	6.0	3.06	6.0	2.71	6.2	2.47	6.0	2.22	5.2	1.95
	7	4.8	6.34	4.8	5.00	4.8	4.33	4.8	3.66	4.8	3.34	4.8	3.01	4.8	2.69
	12	6.0	7.53	6.0	5.90	6.0	5.09	6.0	4.27	6.0	3.79	6.0	3.31	4.8	2.83
	15	6.0	8.64	6.0	6.70	6.0	5.73	6.0	4.76	6.0	4.20	6.0	3.64	4.8	3.08
20	6.0	10.36	6.0	8.27	6.0	6.95	6.0	5.63	6.0	4.92	6.0	4.20	4.8	3.49	
Min	-25	-	-	3.8	1.73	3.6	1.57	-	-	-	-	-	-	-	-
	-20	-	-	3.9	2.41	3.6	2.04	3.3	1.67	-	-	-	-	-	-
	-15	-	-	4.2	2.47	3.8	2.13	3.4	1.79	3.0	1.45	3.2	1.46	-	-
	-10	5.0	3.33	4.5	2.48	4.3	2.18	4.0	1.88	3.9	1.71	3.8	1.54	-	-
	-7	4.3	3.70	3.9	2.70	3.7	2.38	3.5	2.05	3.5	1.86	3.4	1.67	-	-
	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	

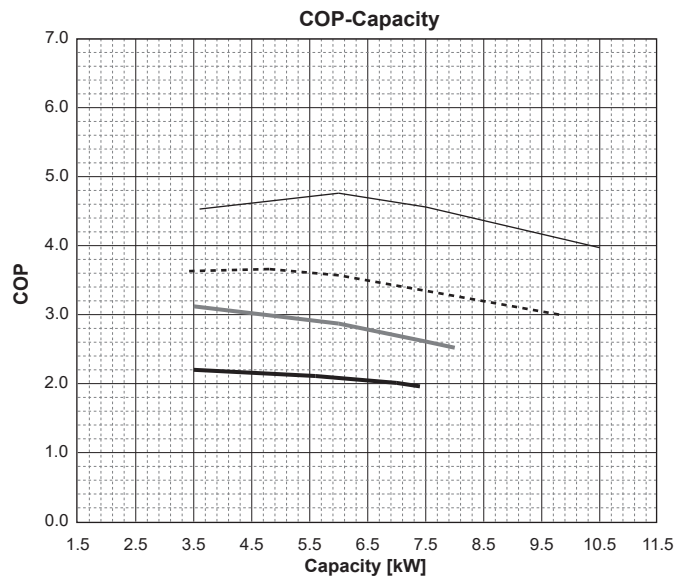
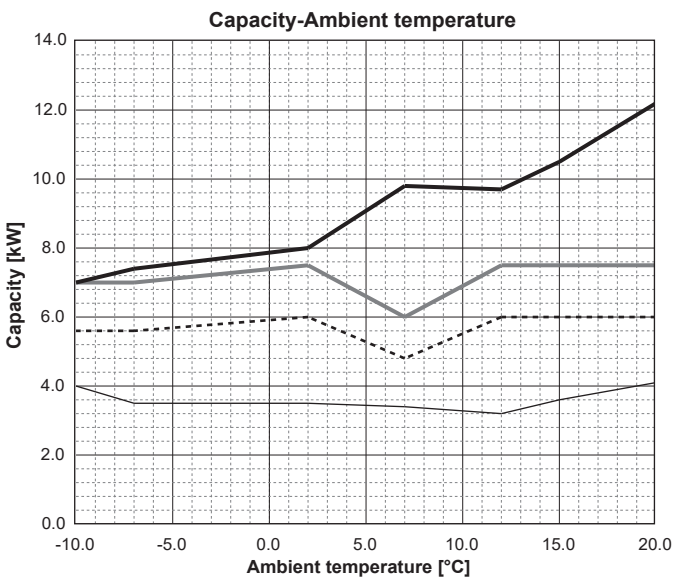
Outdoor unit

SUZ-SWM80VA2

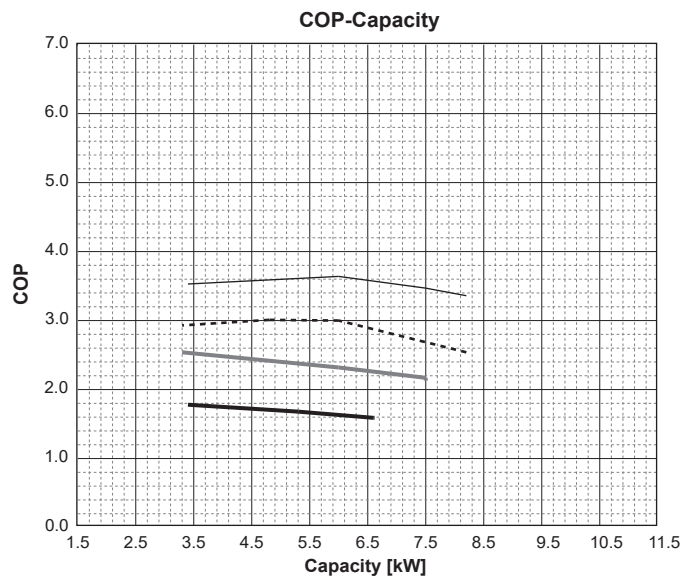
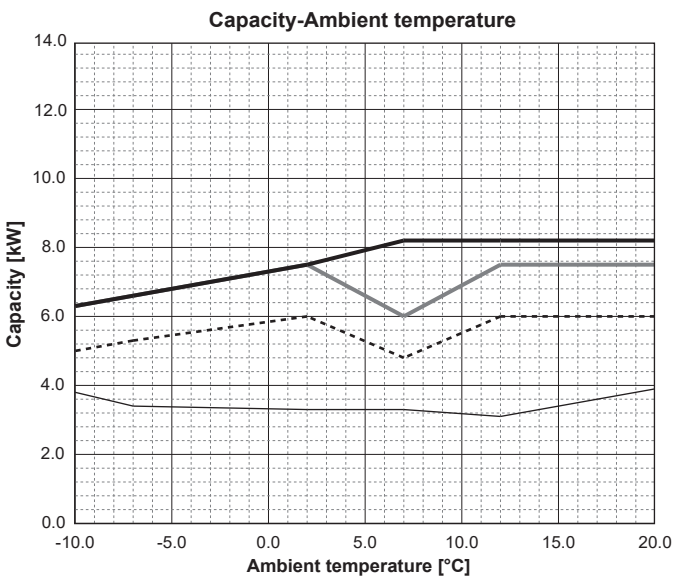
Water outlet temperature 35 [°C]



Water outlet temperature 45 [°C]



Water outlet temperature 55 [°C]



Outdoor unit

## Split-type units

■ SUZ-SHWM60VAH(-SC)

SUZ-SWM80VA(H)2

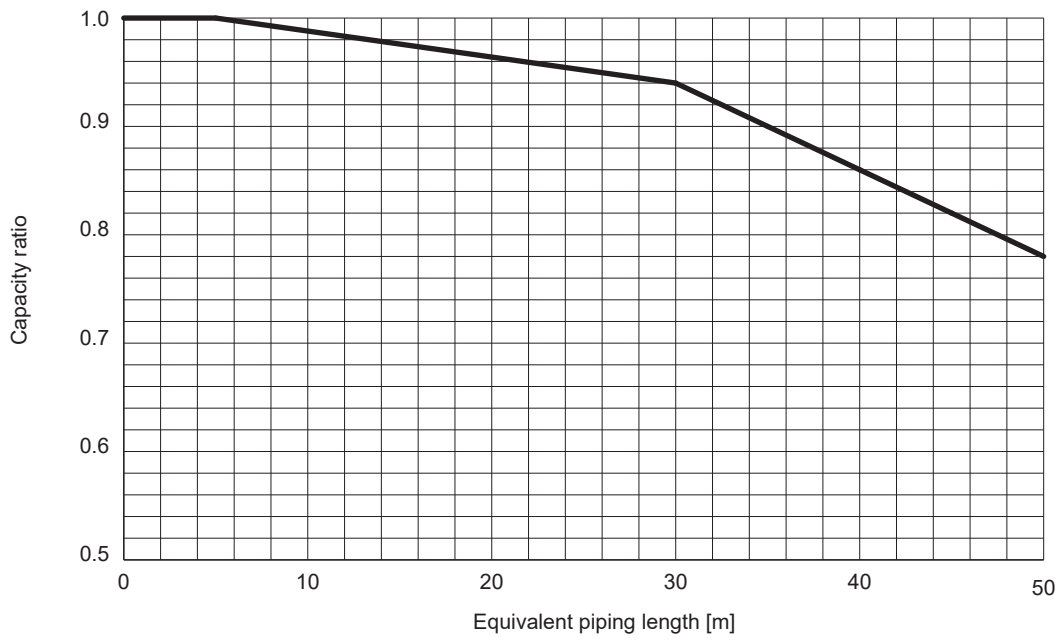
SUZ-SWM100VA(H)

<Method for obtaining the equivalent piping length>

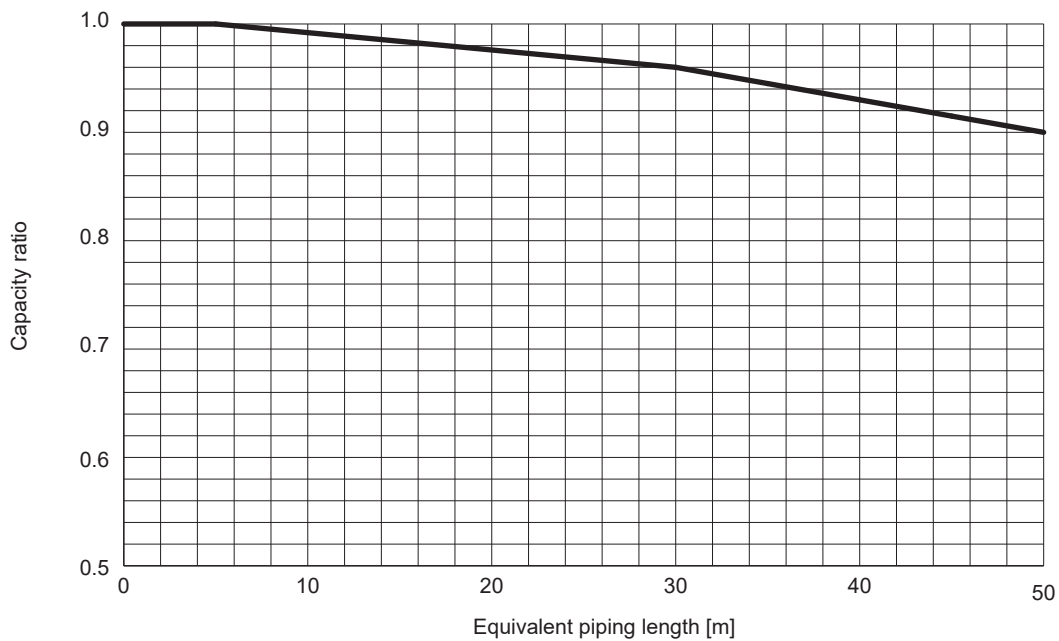
$$\text{Equivalent length} = (\text{piping length}^{*1}) + 0.3 \times (\text{number of bends in the piping})$$

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

### <Cooling>



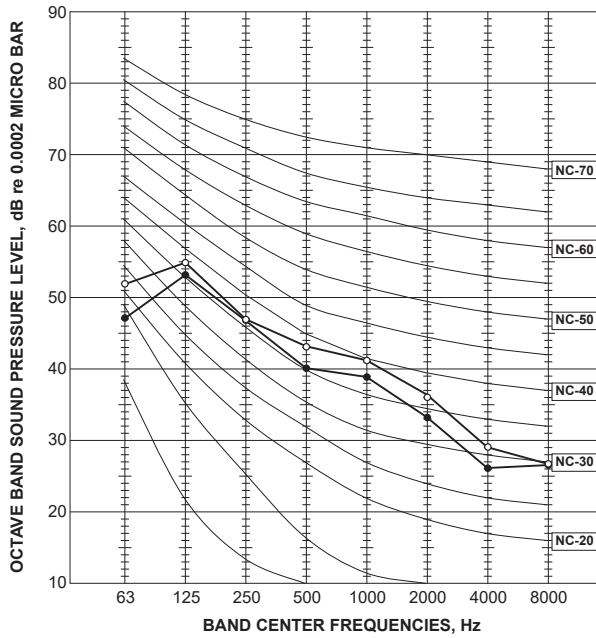
### <Heating>





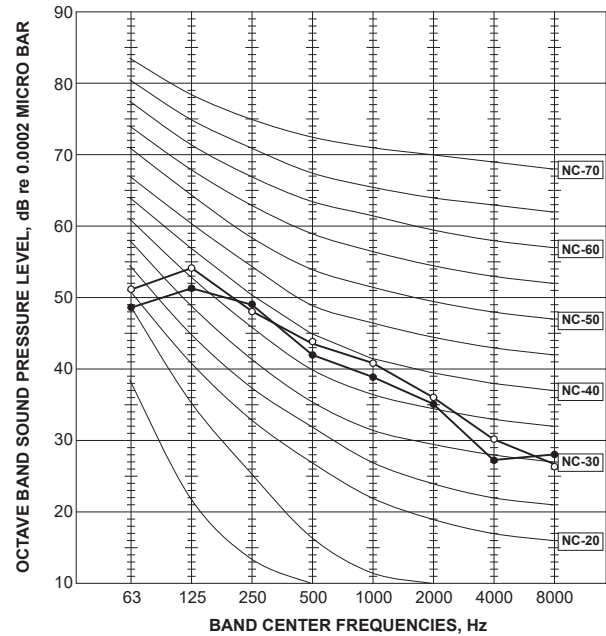
## ■ SUZ-SHWM60VAH(-SC)

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



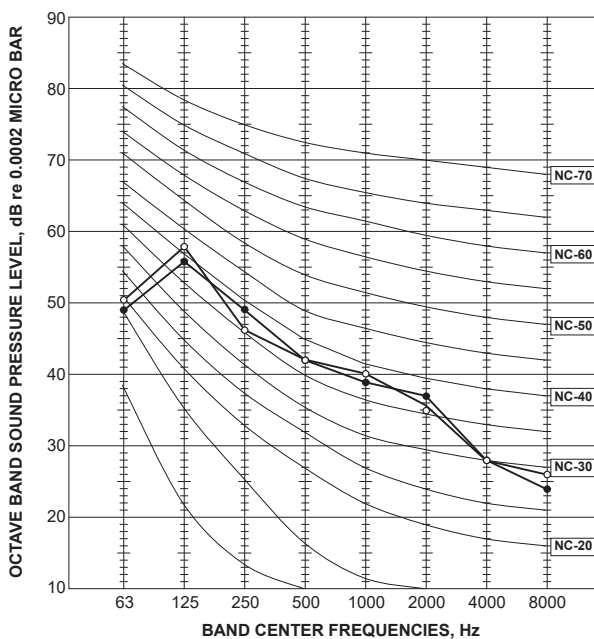
## ■ SUZ-SWM80VA(H)2

FUNCTION	SPL(dBA)	LINE
COOLING	47	○—○
HEATING	46	●—●



## ■ SUZ-SWM100VA(H)

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



### Test conditions

Cooling: Dry-bulb temperature 35°C

Heating: Dry-bulb temperature 7°C Wet-bulb temperature 6°C

