

1 Specifications

MODEL NAME			PUZ-WM112VAA(-BS)	PUZ-WM112YAA(-BS)
POWER SUPPLY(Phase, voltage, frequency)			1φ, 230 V, 50 Hz	3φ, 400 V, 50 Hz
	Max. Current	A	28.0	13.0
Braker size		A	32	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		DVB28FBAMT	DVB28FBBMT
	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	L	0.9	0.9
Crankcase heater			-	-
Heat exchanger	Air		Plate fin coil	Plate fin coil
	Water		Plate heat exchanger	Plate heat exchanger
Fan	Fan(drive) x No.		Propeller fan ×1	Propeller fan ×1
	Fan motor output	kW	0.200	0.200
	Air flow	m ³ /min (CFM)	50 (1760)	50 (1760)
Defrost method			Reverse cycle	Reverse cycle
Noise level (SPL)	Heating *1	dBA	47 *3	47 *3
	Cooling *2	dBA	49 *3	49 *3
Noise level (PWL) (Based on EN12102:2013)	Heating	dBA	60	60
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)	119 (262)	132 (291)
Refrigerant			R32	R32
	Chargeless	kg(lbs)	3.0 (6.7)	3.0 (6.7)
	MAX.	kg(lbs)	-	-
Pipe size O.D.	Liquid	mm(in)	-	-
	Gas	mm(in)	-	-
Connection method			Water Connect	Water Connect
Between the indoor & outdoor unit	Height difference	m	-	-
	Piping length	m	-	-
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	Heating	°C	+9 to +59 *4	+9 to +59 *4
	Cooling	°C	+8 to +28 *4	+8 to +28 *4
Water Flow rate range		L/min	14.4 to 32.1	14.4 to 32.1

*1 Heating: Dry-bulb temperature 7°C, Wet-bulb temperature 6°C

*2 Cooling: Dry-bulb temperature 35°C

*3 For measurement conditions, see the Section "6 Noise criterion curves".

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

1 Specifications

MODEL NAME			PUZ-WM85YAA(-BS)	PUZ-WM112VAA(-BS)	PUZ-WM112YAA(-BS)
Heating (A7/W35)	Capacity	kW	6.50	9.00	9.00
	COP		4.90	4.70	4.70
	Power input	kW	1.33	1.91	1.91
	Test condition flow rate	L/min	18.6	25.8	25.8
Heating (A2/W35)	Capacity	kW	8.50	11.20	11.20
	COP		3.51	3.44	3.44
	Power input	kW	2.42	3.26	3.26
	Test condition flow rate	L/min	24.4	32.1	32.1
Pressure difference (Water circuit)		kPa	15	24	24
Heating pump input (Based on EN14511)		kW	0.020	0.043	0.043
Cooling (A35/W7)	Capacity	kW	6.50	9.00	9.00
	EER (COP)		3.30	3.30	3.30
	Power input	kW	1.97	2.73	2.73
	Test condition flow rate	L/min	18.6	25.8	25.8
Cooling (A35/W18)	Capacity	kW	6.50	9.00	9.00
	EER (COP)		5.00	4.90	4.90
	Power input	kW	1.30	1.84	1.84
	Test condition flow rate	L/min	18.6	25.8	25.8
Pressure difference (Water circuit)		kPa	11	20	20
Cooling pump input (Based on EN14511)		kW	0.014	0.032	0.032
Recommended plate heat exchanger			Built-in	Built-in	Built-in

Note: "COP" and "Power input" in the above table are values that contains the "pump input (Based on EN 14511) ".

MODEL NAME			PUZ-HWM140VHA(-BS)	PUZ-HWM140YHA(-BS)
Heating (A7/W35)	Capacity	kW	12.00	12.00
	COP		4.50	4.50
	Power input	kW	2.67	2.67
	Test condition flow rate	L/min	34.4	34.4
Heating (A2/W35)	Capacity	kW	14.00	14.00
	COP		3.15	3.15
	Power input	kW	4.44	4.44
	Test condition flow rate	L/min	40.1	40.1
Pressure difference (Water circuit)		kPa	9	9
Heating pump input (Based on EN14511)		kW	0.020	0.020
Cooling (A35/W7)	Capacity	kW	11.90	11.90
	EER (COP)		3.00	3.00
	Power input	kW	3.97	3.97
	Test condition flow rate	L/min	34.1	34.1
Cooling (A35/W18)	Capacity	kW	11.10	11.10
	EER (COP)		4.10	4.10
	Power input	kW	2.71	2.71
	Test condition flow rate	L/min	31.8	31.8
Pressure difference (Water circuit)		kPa	7	7
Cooling pump input (Based on EN14511)		kW	0.020	0.020
Recommended plate heat exchanger			Built-in	Built-in

Note: "COP" and "Power input" in the above table are values that contains the "pump input (Based on EN 14511) ".

1 Specifications

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	%	%	dBA	dBA			kW	%	%	dBA	dBA
PUZ-WZ50VAA(-BS)	EHPT17X-****E	A++	A+	5	135	120	40	56	A+++	A+	5	177	120	40	56
	ERPT17X-****E	A++	A+	5	138	120	40	56	A+++	A+	5	182	120	40	56
	EHPT20X-****E(W)	A++	A+	5	135	134	40	56	A+++	A+	5	177	134	40	56
	ERPT20X-****E	A++	A+	5	138	134	40	56	A+++	A+	5	182	134	40	56
	EHPT30X-****E	A++	A	5	135	120	40	56	A+++	A	5	177	120	40	56
	ERPT30X-****E	A++	A	5	138	120	40	56	A+++	A	5	182	120	40	56
	ERPX-****E	A++	-	5	138	-	40	56	A+++	-	5	182	-	40	56
PUZ-WZ60VAA(-BS)	EHPT17X-****E	A++	A+	6	137	120	40	56	A+++	A+	6	175	120	40	56
	ERPT17X-****E	A++	A+	6	139	120	40	56	A+++	A+	6	179	120	40	56
	EHPT20X-****E(W)	A++	A+	6	137	134	40	56	A+++	A+	6	175	134	40	56
	ERPT20X-****E	A++	A+	6	139	134	40	56	A+++	A+	6	179	134	40	56
	EHPT30X-****E	A++	A	6	137	120	40	56	A+++	A	6	175	120	40	56
	ERPT30X-****E	A++	A	6	139	120	40	56	A+++	A	6	179	120	40	56
	ERPX-****E	A++	-	6	139	-	40	56	A+++	-	6	179	-	40	56
PUZ-WZ80VAA(-BS)	EHPT17X-****E	A++	A+	8	138	120	40	58	A++	A+	8	174	120	40	58
	ERPT17X-****E	A++	A+	8	140	120	40	58	A+++	A+	8	176	120	40	58
	EHPT20X-****E(W)	A++	A+	8	138	134	40	58	A++	A+	8	174	134	40	58
	ERPT20X-****E	A++	A+	8	140	134	40	58	A+++	A+	8	176	134	40	58
	EHPT30X-****E	A++	A	8	138	120	40	58	A++	A	8	174	120	40	58
	ERPT30X-****E	A++	A	8	140	120	40	58	A+++	A	8	176	120	40	58
	ERPX-****E	A++	-	8	140	-	40	58	A+++	-	8	176	-	40	58
PUZ-WM50VHA(-BS)	EHPT17X-****E	A++	A+	5	129	115	40	61	A+++	A+	5	183	115	40	61
	ERPT17X-****E	A++	A+	5	131	115	40	61	A+++	A+	5	188	115	40	61
	EHPT20X-****E(W)	A++	A+	5	129	140	40	61	A+++	A+	5	183	140	40	61
	ERPT20X-****E	A++	A+	5	131	140	40	61	A+++	A+	5	188	140	40	61
	ERPX-****E	A++	-	5	131	-	40	61	A+++	-	5	188	-	40	61
PUZ-WM60VAA(-BS)	EHPT17X-****E	A++	A+	6	139	115	40	58	A+++	A+	6	188	115	40	58
	ERPT17X-****E	A++	A+	6	141	115	40	58	A+++	A+	6	192	115	40	58
	EHPT20X-****E(W)	A++	A+	6	139	128	40	58	A+++	A+	6	188	128	40	58
	ERPT20X-****E	A++	A+	6	141	128	40	58	A+++	A+	6	192	128	40	58
	ERPX-****E	A++	-	6	141	-	40	58	A+++	-	6	192	-	40	58
PUZ-WM85V/YAA(-BS)	EHPT17X-****E	A++	A+	9	140/139	115	40	58	A+++	A+	9	192/190	115	40	58
	ERPT17X-****E	A++	A+	9	141/141	115	40	58	A+++	A+	9	195/194	115	40	58
	EHPT20X-****E(W)	A++	A+	9	140/139	128	40	58	A+++	A+	9	192/190	128	40	58
	ERPT20X-****E	A++	A+	9	141/141	128	40	58	A+++	A+	9	195/194	128	40	58
	EHPT30X-****E	A++	A	9	140/139	113	40	58	A+++	A	9	192/190	113	40	58
	ERPT30X-****E	A++	A	9	141/141	113	40	58	A+++	A	9	195/194	113	40	58
	ERPX-****E	A++	-	9	141/141	-	40	58	A+++	-	9	195/194	-	40	58
PUZ-WM112V/YAA(-BS)	EHPT20X-****E(W)	A++	A+	10	135/134	136	40	60	A+++	A+	10	193/191	136	40	60
	ERPT20X-****E	A++	A+	10	136/136	136	40	60	A+++	A+	10	195/195	136	40	60
	EHPT30X-****E	A++	A	10	135/134	112	40	60	A+++	A	10	193/191	112	40	60
	ERPT30X-****E	A++	A	10	136/136	112	40	60	A+++	A	10	195/195	112	40	60
	ERPX-****E	A++	-	10	136/136	-	40	60	A+++	-	10	195/195	-	40	60

Notes:

- E**T17/20*-***E use "Load profile L".
- E**T30*-***E use "Load profile XL".
- Water heating energy efficiency is measured based on EN16147: 2022 (PUZ-(H)WM models) or EN16147: 2017 (Other models).

1 Specifications

1.3 Maximum outlet water temperature

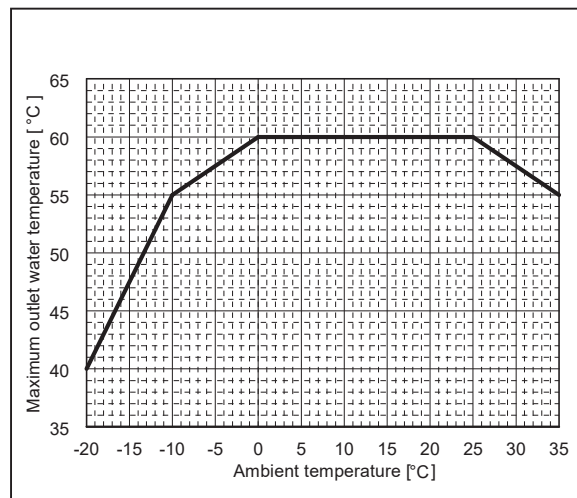
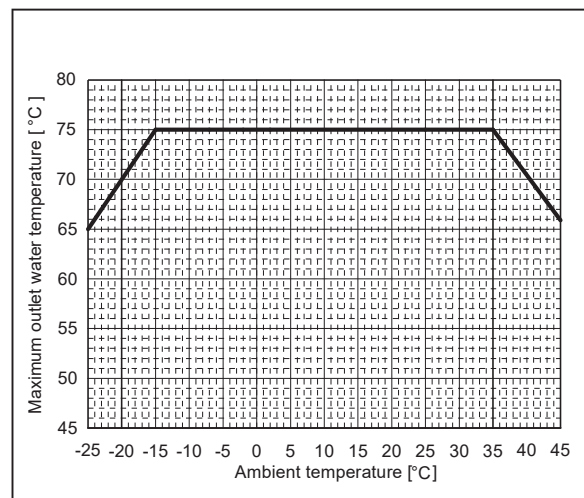
(1) Packaged-type units

PUZ-WZ50VAA(-BS)

PUZ-WZ60VAA(-BS)

PUZ-WZ80VAA(-BS)

PUZ-WM50VHA(-BS)



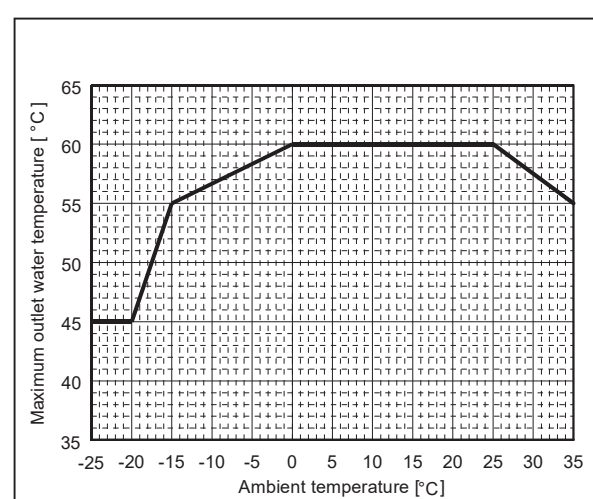
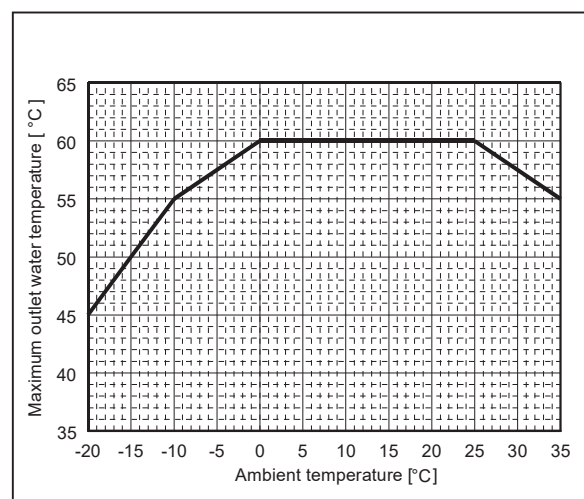
PUZ-WM60VAA(-BS)

PUZ-WM85VAA(-BS)

PUZ-WM85YAA(-BS)

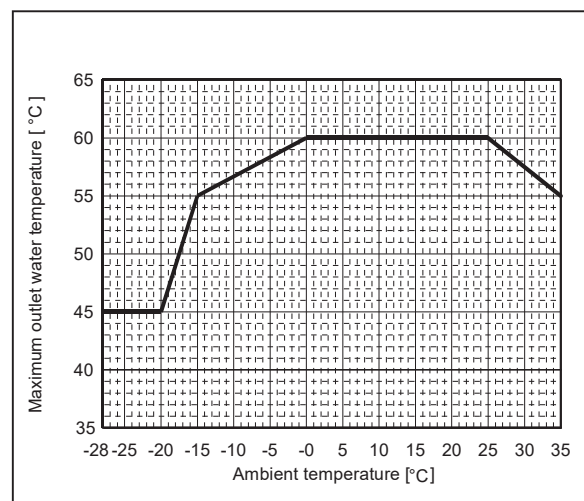
PUZ-WM112VAA(-BS)

PUZ-WM112YAA(-BS)



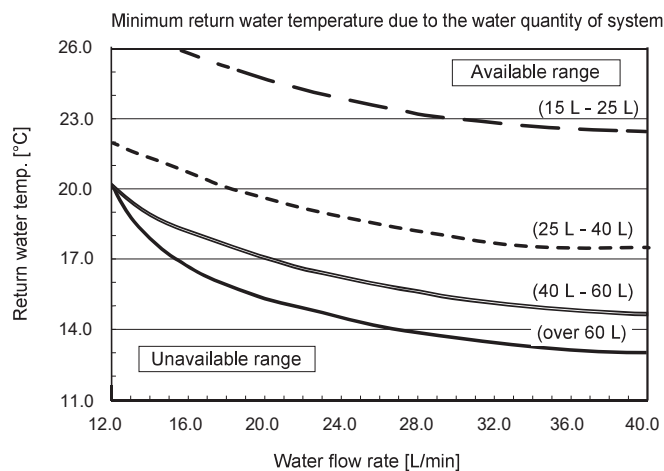
PUZ-HWM140VHA(-BS)

PUZ-HWM140YHA(-BS)

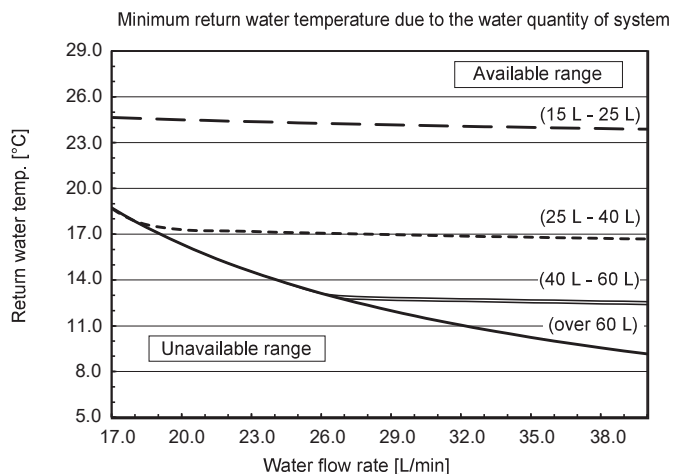


1 Specifications

PUZ-WM112VAA(-BS) PUZ-WM112YAA(-BS)



PUZ-HWM140VHA(-BS) PUZ-HWM140YHA(-BS)



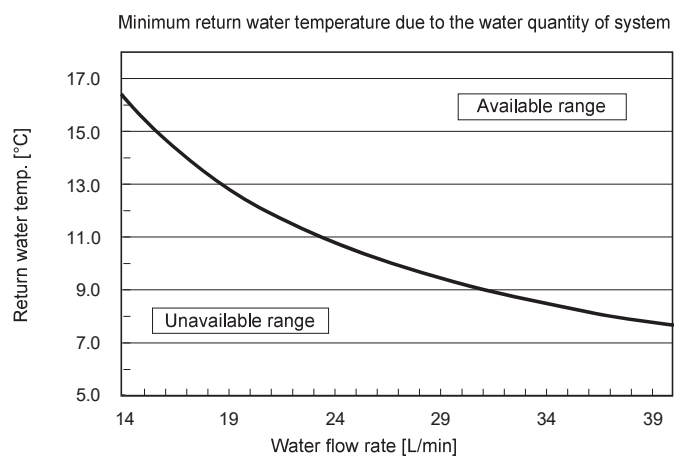
Note:

Be sure to avoid the unavailable range during defrosting.

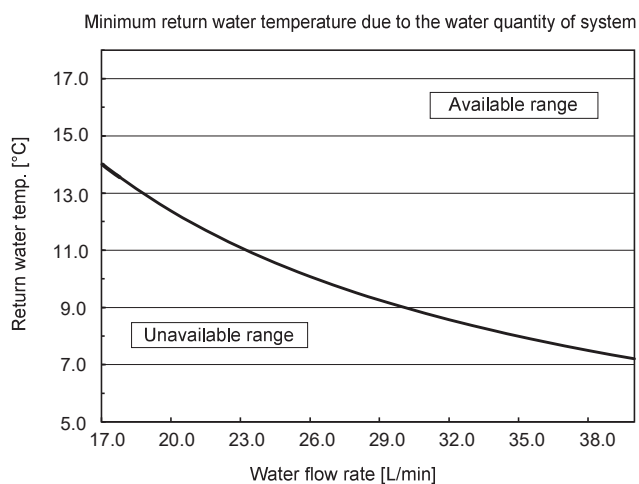
Otherwise, the outdoor unit is insufficiently defrosted and/or the heat exchanger of the indoor unit may freeze.

1 Specifications

PUZ-WM112VAA(-BS) PUZ-WM112YAA(-BS)



PUZ-HWM140VHA(-BS) PUZ-HWM140YHA(-BS)



Note:

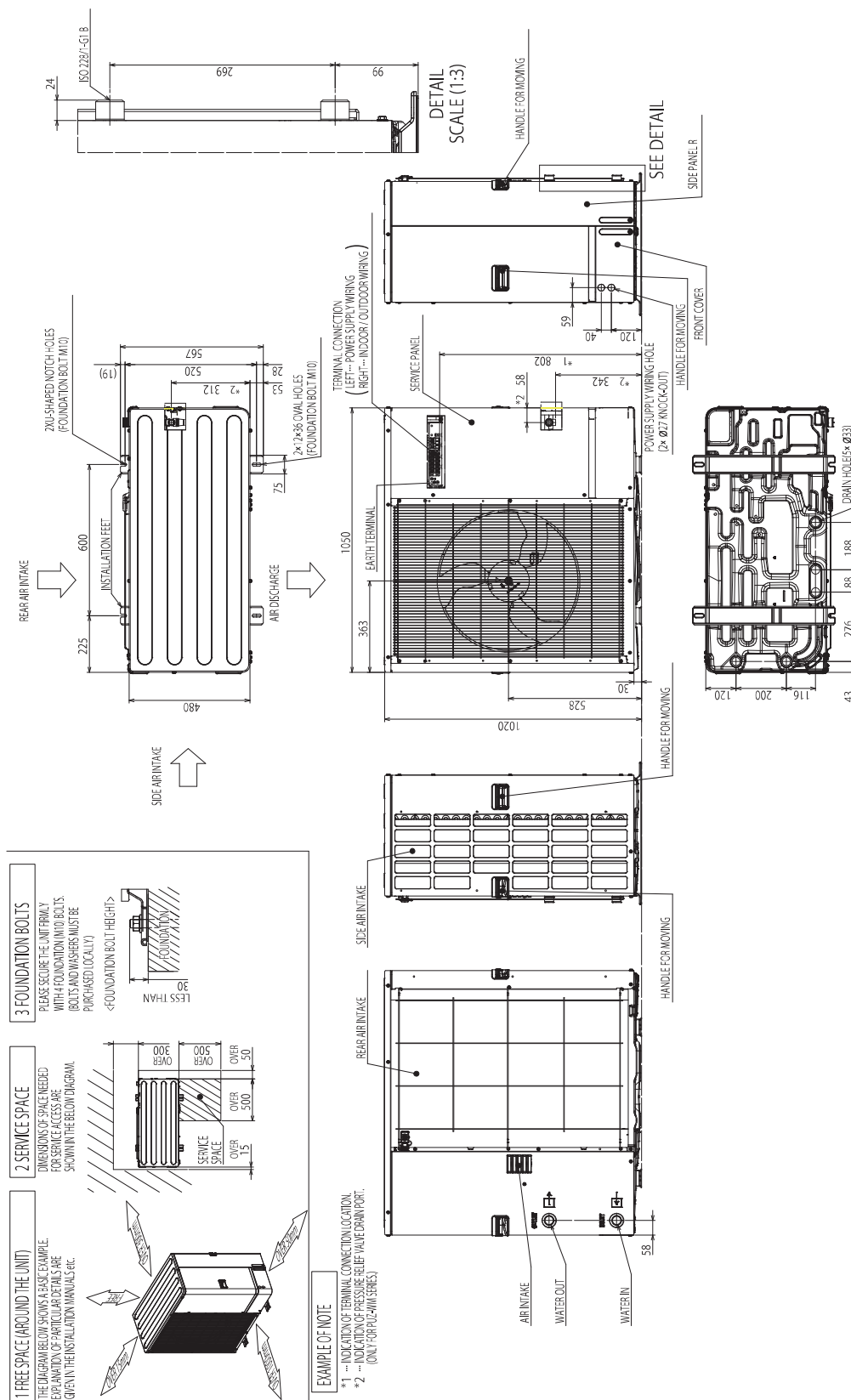
Be sure to avoid the unavailable range during defrosting.

Otherwise, the outdoor unit is insufficiently defrosted and/or the heat exchanger of the indoor unit may freeze.

2 Outlines and dimensions

Unit : mm

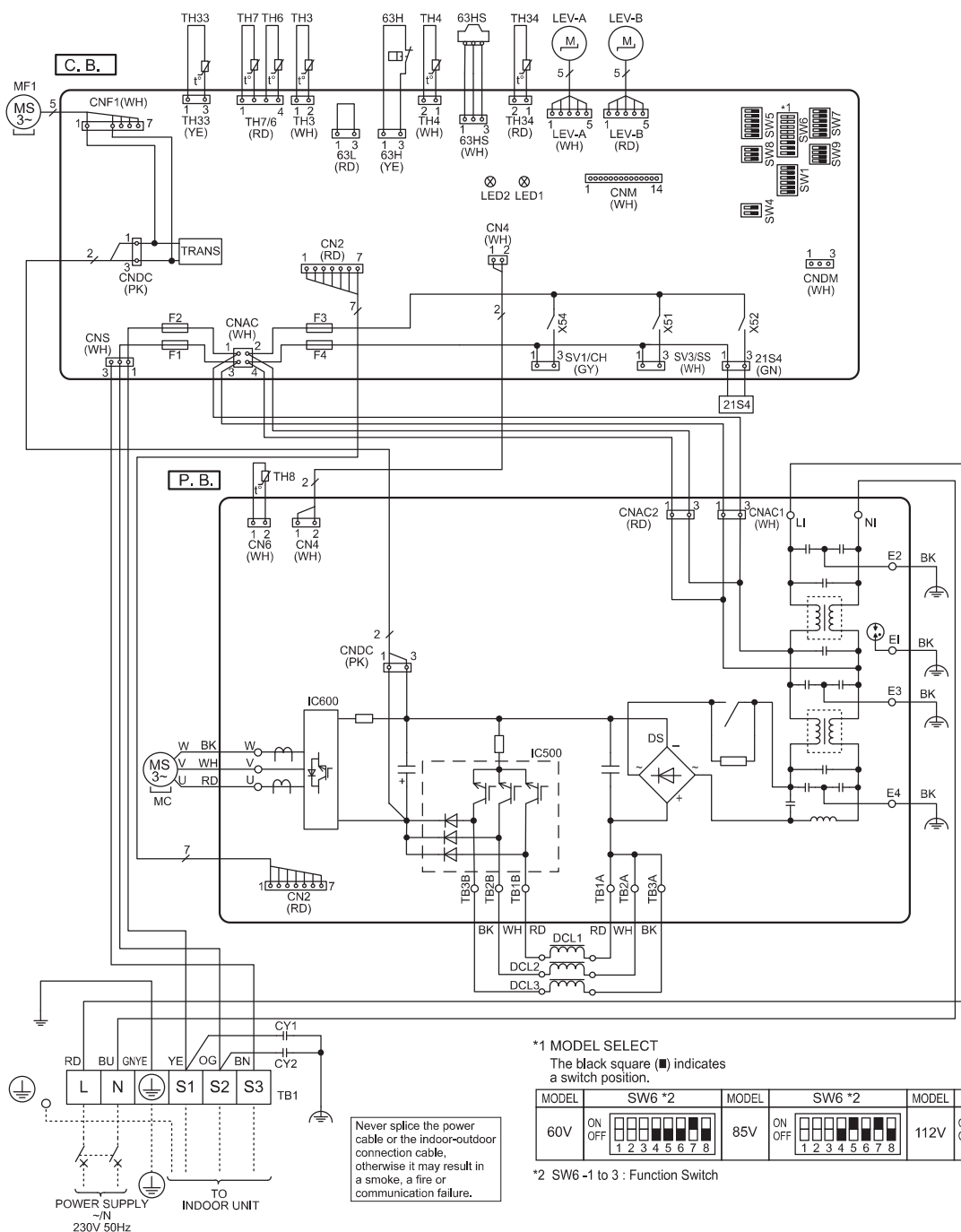
- PUZ-WM60VAA(-BS)
- PUZ-WM85VAA(-BS)
- PUZ-WM85YAA(-BS)
- PUZ-WM112VAA(-BS)
- PUZ-WM112YAA(-BS)



3 Wiring diagrams

■ PUZ-WM60VAA(-BS) PUZ-WM85VAA(-BS) PUZ-WM112VAA(-BS)

SYMBOL	NAME	SYMBOL	NAME
TB1	Terminal Block <Power Supply, Indoor/Outdoor>	P.B.	Power Circuit Board
MC	Motor for Compressor	C.B.	Controller Circuit Board
MF1	Fan Motor	SW1	Switch <Manual Defrost, Defect History Record Reset, Refrigerant Address>
21S4	Solenoid Valve (4-Way Valve)	SW4	Switch <Function Switch>
63H	High Pressure Switch	SW5	Switch <Function Switch>
63HS	Pressure Sensor	SW6	Switch <Function Switch, Model Select>
TH3	Thermistor <Liquid>	SW7	Switch <Function Switch>
TH4	Thermistor <Discharge>	SW8	Switch <Function Switch>
TH6	Thermistor <2-Phase Pipe>	SW9	Switch <Function Switch>
TH7	Thermistor <Ambient>	CNDM	Connector <Connection for Option>
TH8	Thermistor <Heat Sink>	SV1/CH	Connector <Connection for Option>
TH33	Thermistor <Comp. Surface>	SV3/SS	Connector <Connection for Option>
TH34	Thermistor <Plate Hex Liquid>	CNM	Connector <Connection for Option>
LEV-A, LEV-B	Linear Expansion Valve	F1, F2, F3, F4	Fuse <T6.3AL250V>
DCL1, DCL2, DCL3	Reactor		
CY1, CY2	Capacitor		

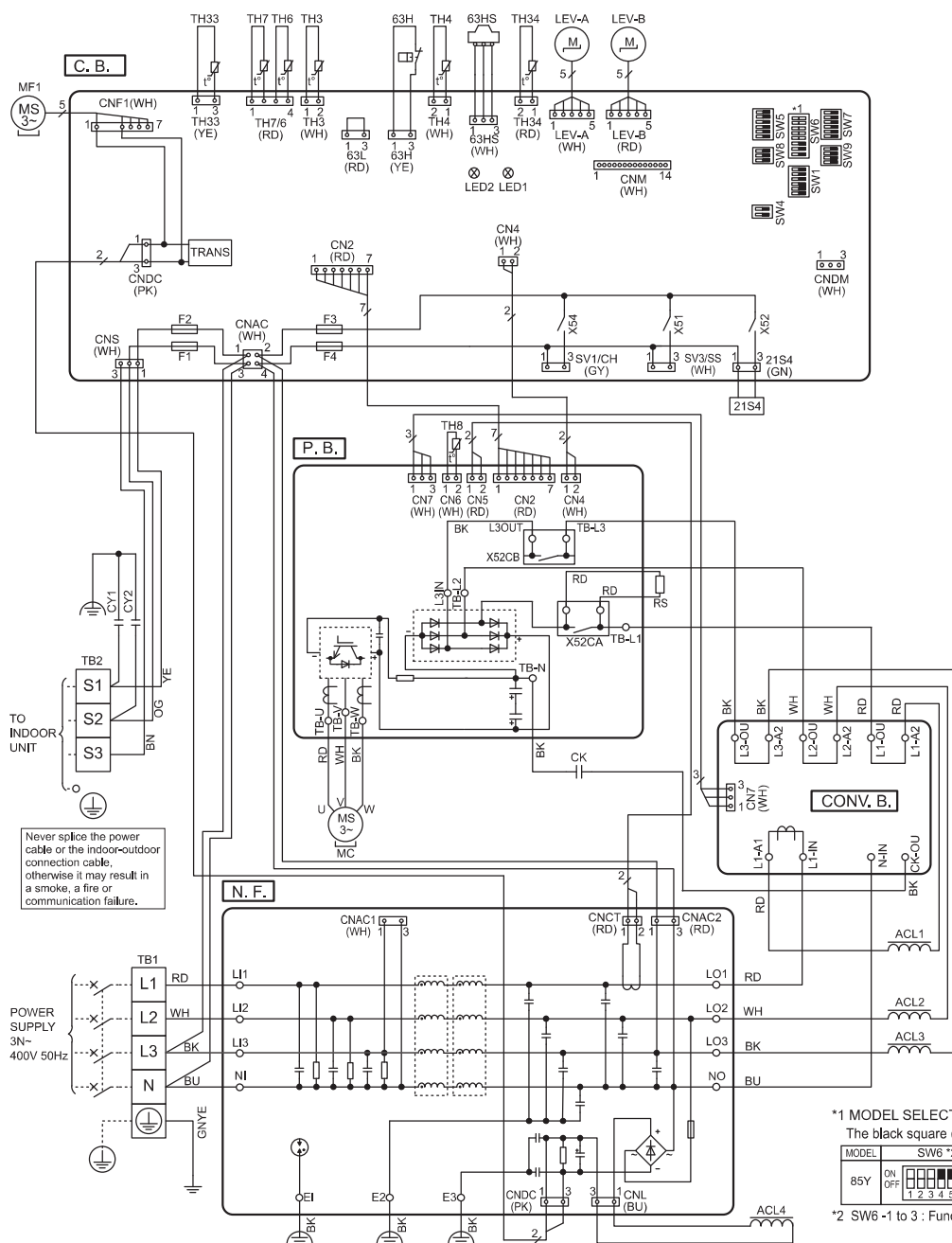


3 Wiring diagrams

■ PUZ-WM85YAA(-BS) PUZ-WM112YAA-BS

Outdoor unit

SYMBOL	NAME	SYMBOL	NAME
TB1	Terminal Block <Power Supply>	P. B.	Power Circuit Board
TB2	Terminal Block <Indoor/Outdoor>	N. F.	Noise Filter Circuit Board
MC	Motor for Compressor	CONV. B.	Converter Circuit Board
MF1	Fan Motor	C. B.	Controller Circuit Board
21S4	Solenoid Valve (4-Way Valve)	SW1	Switch <Manual Defrost, Defect History Record Reset, Refrigerant Address>
63H	High Pressure Switch	SW4	Switch <Function Switch>
63HS	Pressure Sensor	SW5	Switch <Function Switch>
TH3	Thermistor <Liquid>	SW6	Switch <Function Switch, Model Select>
TH4	Thermistor <Discharge>	SW7	Switch <Function Switch>
TH6	Thermistor <2-Phase Pipe>	SW8	Switch <Function Switch>
TH7	Thermistor <Ambient>	SW9	Switch <Function Switch>
TH8	Thermistor <Heat Sink>	CNDM	Connector <Connection for Option>
TH33	Thermistor <Comp. Surface>	SV1/CH	Connector <Connection for Option>
TH34	Thermistor <Plate Hex Liquid>	SV3/SS	Connector <Connection for Option>
LEV-A, LEV-B	Linear Expansion Valve	CNM	Connector <Connection for Option>
ACL1, ACL2, ACL3, ACL4	Reactor	F1, F2, F3, F4	Fuse <T6.3AL250V>
CY1, CY2	Capacitor		
CK	Capacitor		
RS	Rush Current Protect Resistor		



5 Performance data

Water outlet temperature [°C]			7		18	
Model	Ambient temperature [°C]		Capacity	COP	Capacity	COP
PUZ-WM50VHA(-BS)	Max	35	4.5	3.40	6.9	4.16
		30	5.3	3.60	7.1	4.46
		25	4.9	3.64	6.7	4.62
		20	4.8	3.40	6.2	3.74
	Partload1	35	4.5	3.40	4.5	5.00
		30	4.5	3.62	4.5	5.40
		25	4.5	4.06	4.5	6.30
		20	4.0	4.31	4.0	6.31
	Partload2	35	3.6	3.69	3.6	5.40
		30	3.6	3.80	3.6	5.69
		25	3.6	4.11	3.6	6.23
		20	3.6	3.89	3.6	5.88
	Min	35	1.9	4.01	2.6	5.66
		30	2.0	4.69	2.7	6.38
		25	2.1	5.46	2.8	7.28
		20	2.1	5.82	2.8	7.37
PUZ-WM60VAA(-BS)	Max	35	6.0	3.30	8.4	3.51
		30	6.3	3.73	8.7	3.98
		25	6.0	3.32	8.2	3.25
		20	6.0	3.02	7.6	2.75
	Partload1	35	6.0	3.30	6.0	4.45
		30	6.0	3.89	6.0	6.42
		25	6.0	3.32	6.0	6.24
		20	6.0	3.02	6.0	5.93
	Partload2	35	4.8	3.84	4.8	4.88
		30	4.8	4.53	4.8	6.92
		25	4.8	4.33	4.8	7.20
		20	4.8	4.07	4.8	7.31
	Min	35	2.3	4.58	3.2	5.46
		30	2.4	5.54	3.3	6.82
		25	2.5	5.68	3.4	7.72
		20	2.6	5.54	3.4	8.41
PUZ-WM85VAA(-BS) PUZ-WM85YAA(-BS)	Max	35	7.5	3.15	10.5	3.87
		30	7.9	3.56	10.9	4.38
		25	7.5	3.17	10.2	3.58
		20	7.2	2.88	9.5	3.03
	Partload1	35	7.5	3.15	7.5	4.90
		30	7.5	3.71	7.5	7.07
		25	7.5	3.17	7.5	6.87
		20	7.2	2.88	7.5	6.53
	Partload2	35	6.0	3.66	6.0	5.38
		30	6.0	4.33	6.0	7.62
		25	6.0	4.13	6.0	7.93
		20	6.0	3.89	6.0	8.05
	Min	35	2.3	4.38	3.2	6.01
		30	2.4	5.29	3.3	7.51
		25	2.5	5.43	3.4	8.50
		20	2.6	5.29	3.4	9.26
PUZ-WM112VAA(-BS) PUZ-WM112YAA(-BS)	Max	35	10.0	3.30	13.9	3.98
		30	10.6	3.91	14.8	4.67
		25	10.4	3.72	14.1	4.18
		20	10.1	3.44	13.4	3.63
	Partload1	35	10.0	3.30	10.0	4.90
		30	10.0	4.14	10.0	5.83
		25	10.0	3.92	10.0	5.81
		20	10.0	3.49	10.0	5.48
	Partload2	35	8.0	3.80	8.0	5.04
		30	8.0	4.57	8.0	5.94
		25	8.0	4.66	8.0	6.27
		20	8.0	4.58	8.0	6.27
	Min	35	2.8	3.00	4.1	4.91
		30	3.0	3.45	4.3	5.79
		25	3.1	4.09	4.3	6.81
		20	3.2	4.51	4.4	7.44

5 Performance data

■ PUZ-WM112VAA(-BS)

PUZ-WM112YAA(-BS)

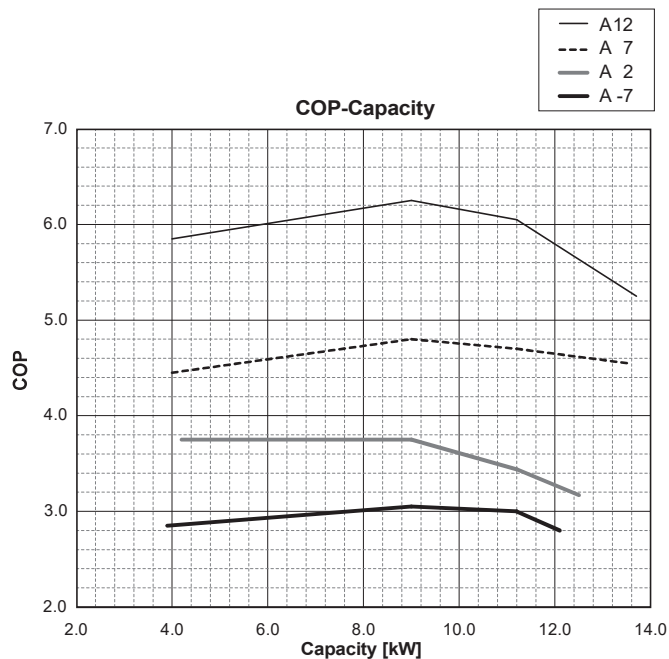
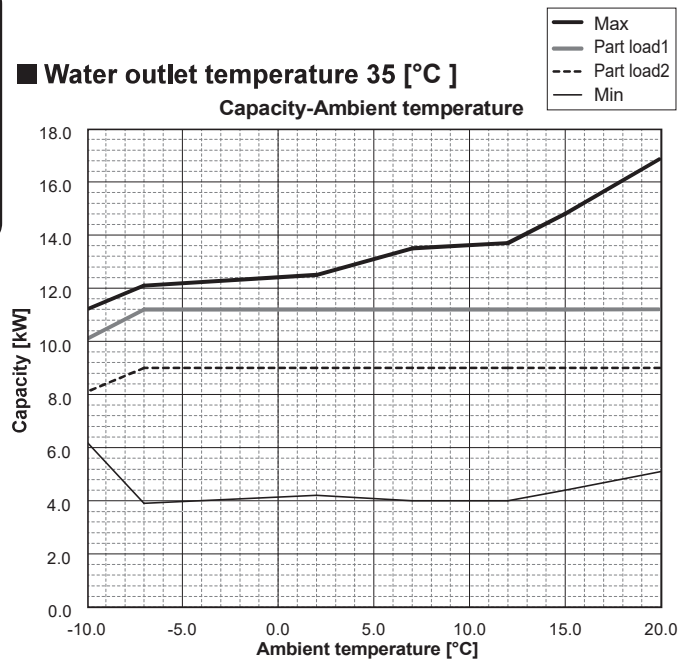
Water outlet temperature [°C]		25		35		40		45		50		55		60	
Ambient temperature [°C]		Capacity	COP	Capacity	COP	Capacity	COP	Capacity	COP	Capacity	COP	Capacity	COP	Capacity	COP
Max	-25	-	-	6.5	1.70	6.2	1.55	5.9	1.40	-	-	-	-	-	-
	-20	-	-	7.7	2.35	7.4	2.10	7.0	1.90	-	-	-	-	-	-
	-15	-	-	8.4	2.55	8.0	2.30	7.5	2.05	7.1	1.75	6.7	1.50	-	-
	-10	10.1	2.80	11.2	2.60	10.6	2.40	10.1	2.25	9.5	1.90	9.0	1.55	-	-
	-7	11.2	2.95	12.1	2.80	11.7	2.65	11.2	2.50	10.6	2.20	10.0	1.90	-	-
	2	13.1	3.54	12.5	3.17	12.2	2.80	11.9	2.49	11.6	2.20	11.3	1.93	11.0	1.69
	7	14.3	5.05	13.5	4.55	13.1	4.05	12.7	3.55	12.2	3.10	11.7	2.70	11.2	2.40
	12	14.4	5.65	13.7	5.25	13.3	4.85	13.0	4.50	12.6	3.95	12.1	3.45	11.6	2.96
	15	15.5	5.65	14.8	5.35	14.5	5.05	14.1	4.80	13.6	4.25	13.2	3.75	12.8	3.22
	20	17.3	7.80	16.9	6.95	16.5	6.10	16.1	5.30	15.6	4.65	15.1	4.05	14.6	3.55
Partload1	-25	-	-	6.5	1.70	6.2	1.55	5.9	1.40	-	-	-	-	-	-
	-20	-	-	7.7	2.35	7.4	2.10	7.0	1.90	-	-	-	-	-	-
	-15	-	-	8.4	2.55	8.0	2.30	7.5	2.05	7.1	1.75	6.7	1.50	-	-
	-10	10.1	3.00	10.1	2.75	10.1	2.50	10.1	2.25	9.5	1.90	9.0	1.55	-	-
	-7	11.2	3.25	11.2	3.00	11.2	2.75	11.2	2.50	10.6	2.20	10.0	1.90	-	-
	2	11.2	3.83	11.2	3.44	11.2	3.05	11.2	2.74	10.6	2.30	10.0	1.95	9.4	1.70
	7	11.2	5.20	11.2	4.70	11.2	4.20	11.2	3.70	10.6	3.35	10.0	3.00	9.4	2.40
	12	11.2	6.65	11.2	6.05	11.2	5.45	11.2	4.85	10.6	4.20	10.0	3.55	9.4	3.00
	15	11.2	7.55	11.2	6.85	11.2	6.15	11.2	5.50	10.6	4.75	10.0	4.00	9.4	3.35
	20	11.2	9.70	11.2	8.65	11.2	7.60	11.2	6.60	10.6	5.65	10.0	4.75	9.4	3.95
Partload2	-25	-	-	5.2	1.75	5.0	1.60	4.7	1.45	-	-	-	-	-	-
	-20	-	-	6.2	2.25	5.9	2.05	5.6	1.85	-	-	-	-	-	-
	-15	-	-	6.7	2.50	6.4	2.25	6.0	2.00	5.7	1.75	5.4	1.50	-	-
	-10	8.1	3.05	8.1	2.80	8.1	2.55	8.1	2.30	7.6	2.00	7.2	1.70	-	-
	-7	9.0	3.30	9.0	3.05	9.0	2.80	9.0	2.55	8.5	2.20	8.0	1.90	-	-
	2	9.0	4.25	9.0	3.75	9.0	3.25	9.0	2.80	8.5	2.45	8.0	2.10	7.5	1.80
	7	9.0	5.25	9.0	4.80	9.0	4.35	9.0	3.90	8.5	3.45	8.0	3.00	7.5	2.40
	12	9.0	6.85	9.0	6.25	9.0	5.65	9.0	5.05	8.5	4.35	8.0	3.65	7.5	3.10
	15	9.0	7.80	9.0	7.05	9.0	6.30	9.0	5.60	8.5	4.80	8.0	4.05	7.5	3.40
	20	9.0	9.85	9.0	8.75	9.0	7.65	9.0	6.60	8.5	5.65	8.0	4.75	7.5	4.00
Min	-25	-	-	4.1	1.70	3.9	1.50	3.7	1.35	-	-	-	-	-	-
	-20	-	-	4.9	2.25	4.6	2.00	4.4	1.75	-	-	-	-	-	-
	-15	-	-	6.7	2.50	5.2	2.20	4.9	1.95	4.0	1.65	3.1	1.40	-	-
	-10	6.9	3.00	6.2	2.75	5.9	2.50	5.7	2.25	5.4	1.95	5.1	1.70	-	-
	-7	4.3	3.15	3.9	2.85	3.7	2.55	3.4	2.30	3.2	2.00	3.0	1.70	-	-
	2	4.6	4.25	4.2	3.75	4.0	3.25	3.7	2.75	3.5	2.40	3.2	2.10	3.0	1.70
	7	4.4	4.95	4.0	4.45	3.7	3.95	3.5	3.50	3.4	3.05	3.0	2.60	2.8	2.05
	12	4.3	6.30	4.0	5.85	3.8	5.40	3.7	4.95	3.5	4.30	3.3	3.65	3.1	3.05
	15	4.8	7.30	4.4	6.55	4.2	5.80	4.0	5.05	3.7	4.40	3.5	3.75	3.3	3.15
	20	5.7	9.25	5.1	8.10	4.8	6.95	4.6	5.80	4.3	5.00	4.1	4.25	3.9	3.70

5 Performance data

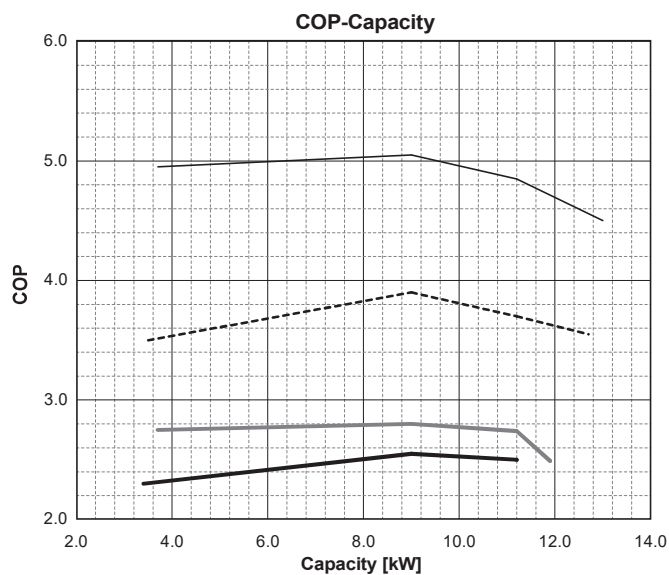
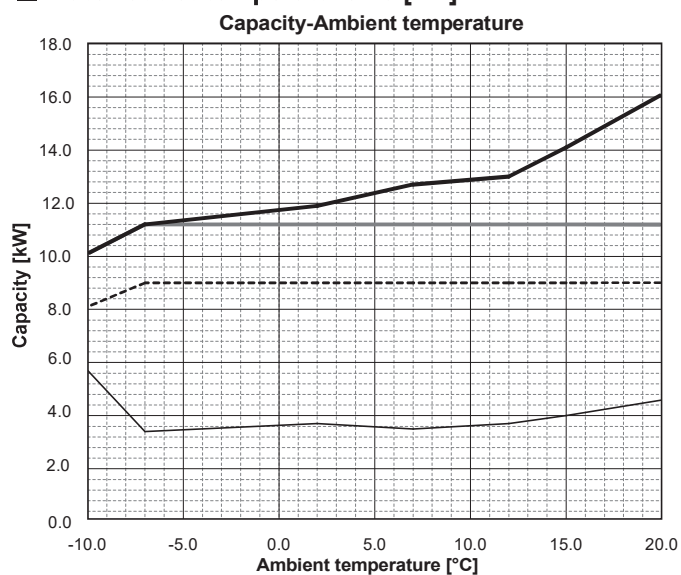
PUZ-WM112VAA(-BS)

PUZ-WM112YAA(-BS)

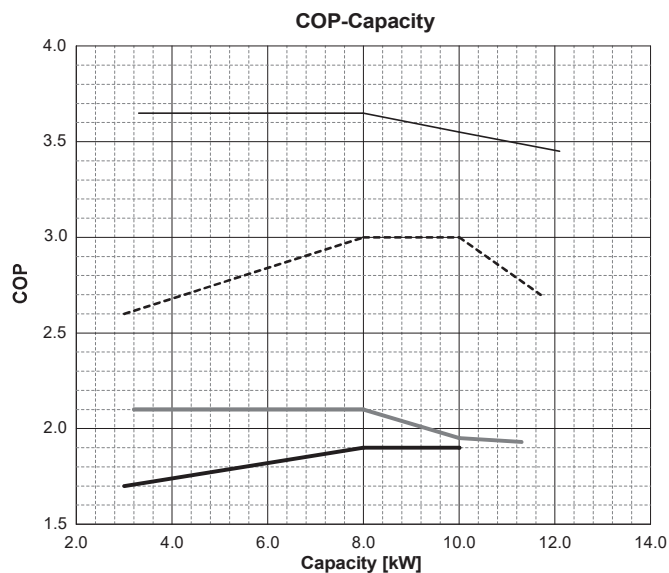
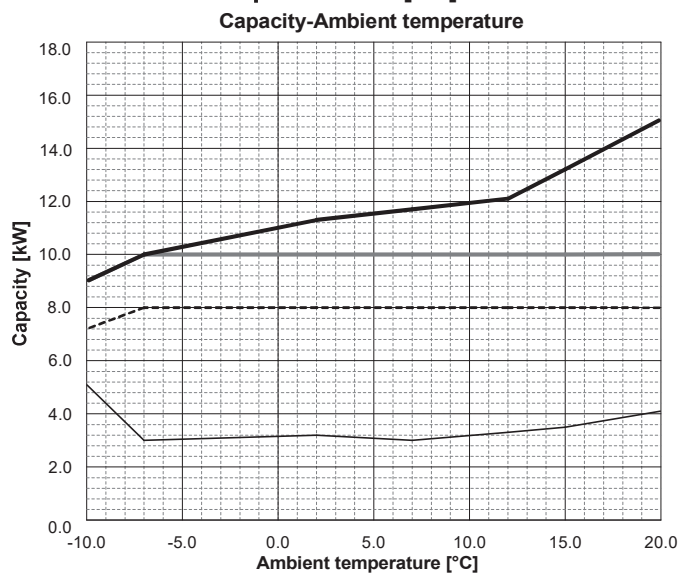
■ Water outlet temperature 35 [°C]



■ Water outlet temperature 45 [°C]



■ Water outlet temperature 55 [°C]



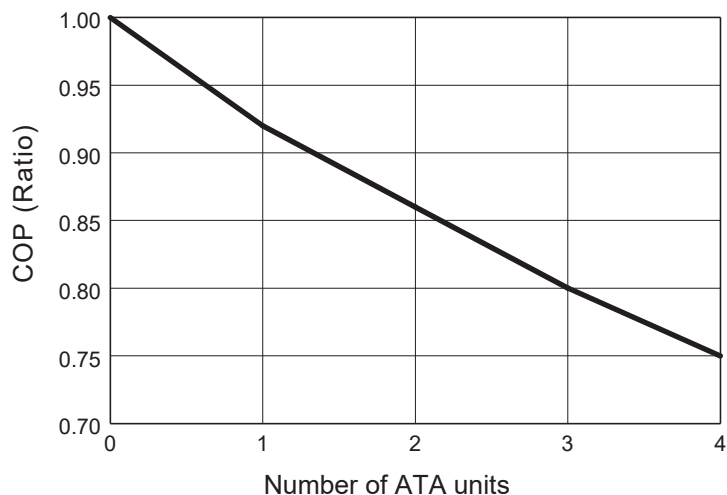
1 Specifications

MODEL NAME			PXZ-4F75VG	PXZ-5F85VG
Heating (A7/W35)	Capacity	kW	7.5	8.5
	COP		4.17	4.34
	Power input	kW	1.80	1.96
	Test condition flow rate	L/min	21.5	24.4
Heating (A2/W35)	Capacity	kW	6.8	7.8
	COP		2.80	3.00
	Power input	kW	2.43	2.60
	Test condition flow rate	L/min	19.5	22.4
Pressure difference (Water circuit)		kPa	-	-
Heating pump input (Based on EN14511)		kW	-	-
Cooling (A35/W7)	Capacity	kW	-	-
	EER (COP)		-	-
	Power input	kW	-	-
	Test condition flow rate	L/min	-	-
Cooling (A35/W18)	Capacity	kW	-	-
	EER (COP)		-	-
	Power input	kW	-	-
	Test condition flow rate	L/min	-	-
Pressure difference (Water circuit)		kPa	-	-
Cooling pump input (Based on EN14511)		kW	-	-
Recommended indoor unit model			E*S***D-***E	E*S***D-***E

The table shows performance data obtained when an indoor unit is connected.

* In case of ATW unit single connection, the COP for ATW heating decreases depending on the number of connected ATA units. (Refer to the figure below.)

ATW COP reduction ratio by ATA indoor units

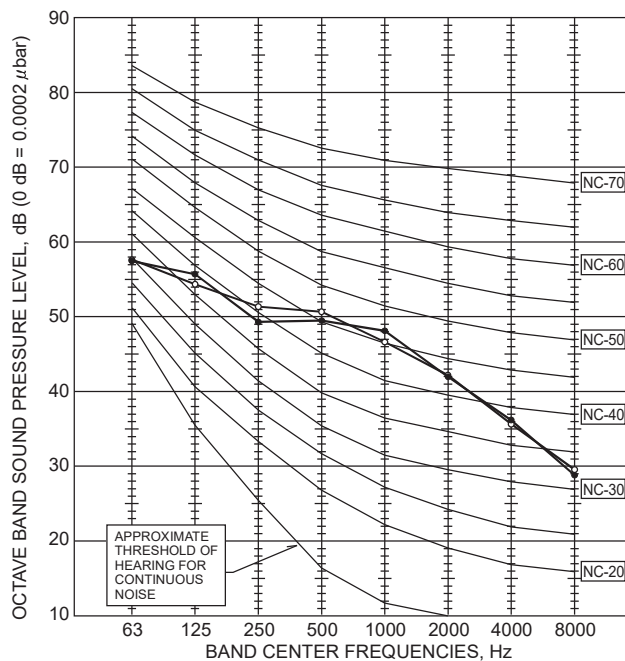


Number of ATA units	0	1	2	3	4
COP (Ratio)	1.00	0.92	0.86	0.80	0.75

6 Noise criterion curves

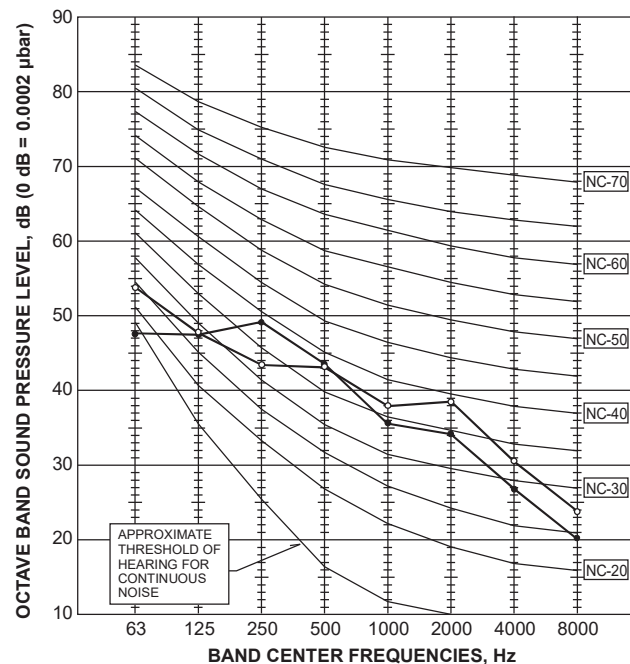
■ PUZ-WM50VHA(-BS)

MODE	SPL(dBA)	LINE
COOLING	52	○—○
HEATING	52	●—●



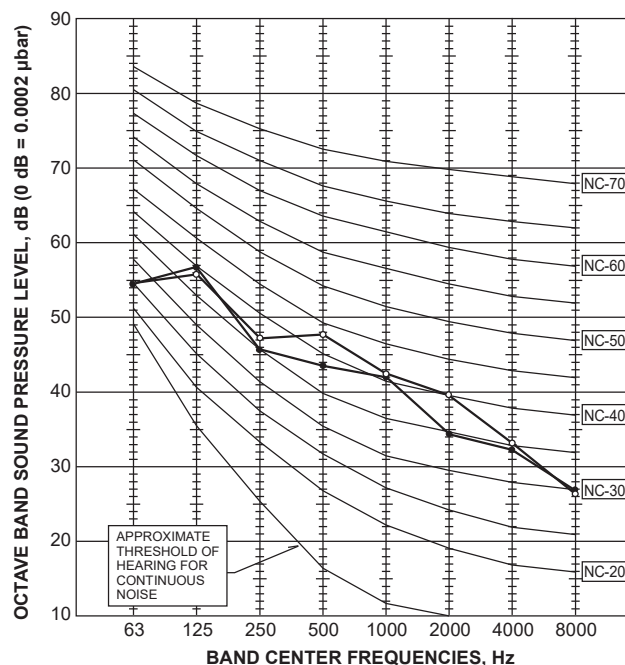
■ PUZ-WM60VAA(-BS) PUZ-WM85VAA(-BS) PUZ-WM85YAA(-BS)

MODE	SPL(dBA)	LINE
COOLING	45	○—○
HEATING	45	●—●



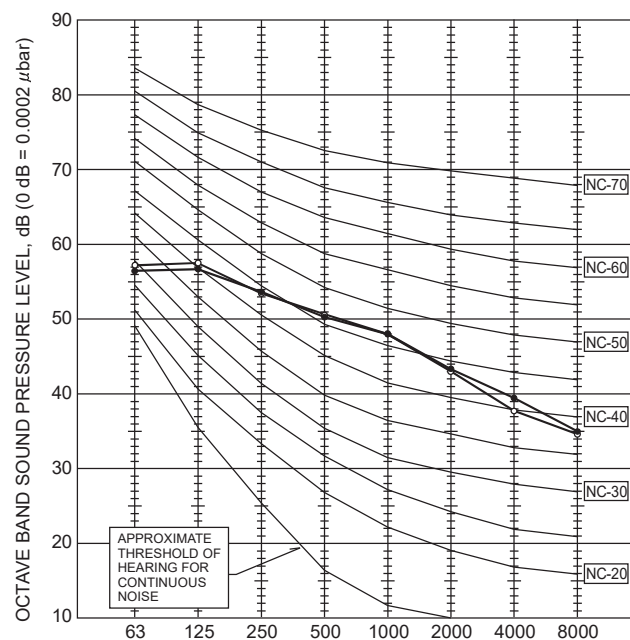
■ PUZ-WM112VAA(-BS) PUZ-WM112YAA(-BS)

MODE	SPL(dBA)	LINE
COOLING	49	○—○
HEATING	47	●—●



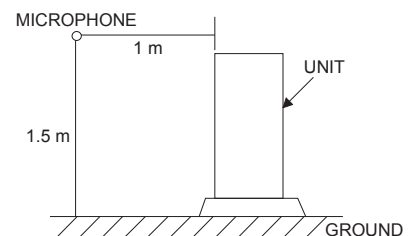
■ PUZ-HWM140VHA(-BS) PUZ-HWM140YHA(-BS)

MODE	SPL(dBA)	LINE
COOLING	53	○—○
HEATING	53	●—●



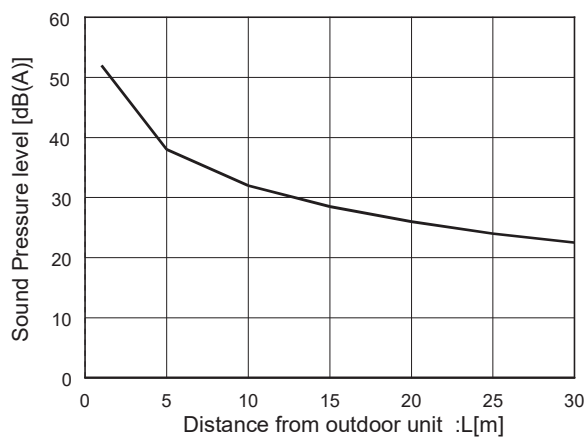
<Notes>

- 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.
- 3) These values are only for reference purpose.

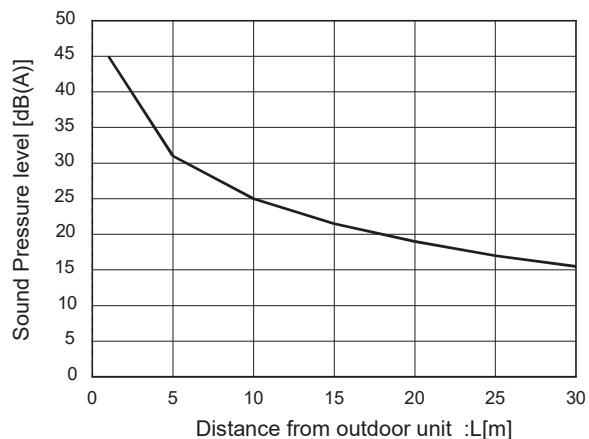


7 Estimated noise level based on the distance from Outdoor unit

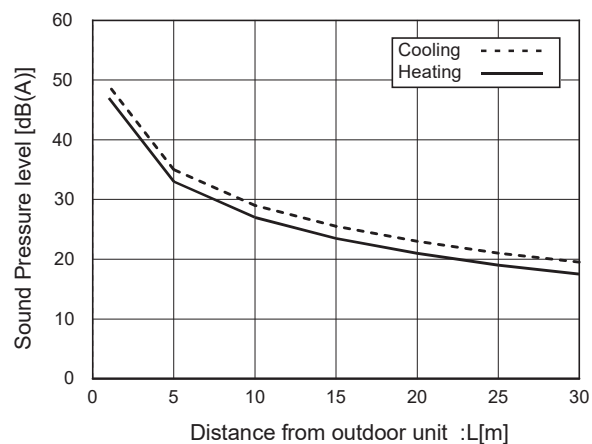
■ PUZ-WM50VHA(-BS)



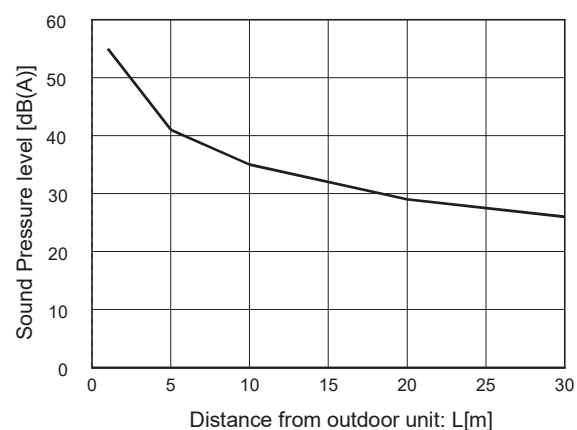
■ PUZ-WM60VAA(-BS) PUZ-WM85VAA(-BS) PUZ-WM85YAA(-BS)



■ PUZ-WM112VAA(-BS) PUZ-WM112YAA(-BS)



■ PUZ-HWM140VHA(-BS) PUZ-HWM140YHA(-BS)



<Note>
These values are only for reference purpose.