

1 Specifications

Outdoor unit

Outdoor unit

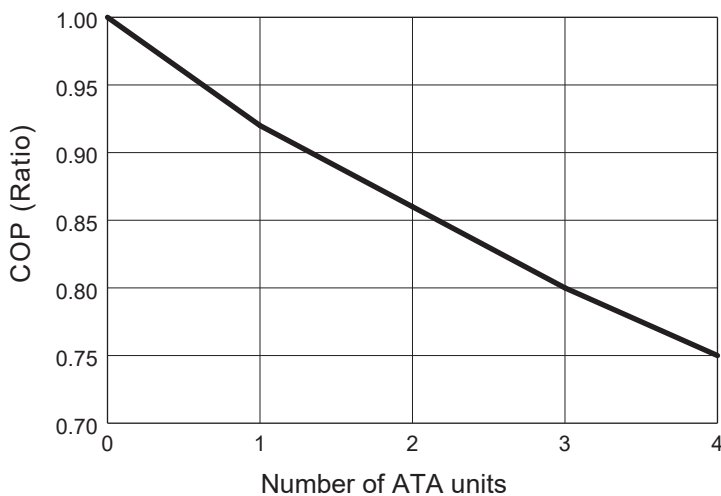
MODEL NAME				PXZ-4F75VG	PXZ-5F85VG
POWER SUPPLY(Phase, voltage, frequency)				1φ, 230V, 50Hz	1φ, 230V, 50Hz
	Max. Current	A	18.0	21.4	
Braker size				25.0	25.0
Outer casing				Galvanized plate	Galvanized plate
External finish				Munsell No. 3Y 7.8/1.1	Munsell No. 3Y 7.8/1.1
Refrigerant control				Linear expansion valve	Linear expansion valve
Compressor				Hermetic twin rotary	Hermetic twin rotary
	Model		SVB172FPKM1T	SVB220FUGMC-L1	
	Motor output	kW	2.0	2.2	
Start type				Inverter	Inverter
Protection devices				HP switch TheramI Protector Comp. Surface thermo Over current detection	HP switch TheramI Protector Comp. Surface thermo Over current detection
	Oil (Model)	L	0.6 (FW68CA)	0.6 (FW68CA)	
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	0.064	0.088	
	Air flow	m ³ /min (CFM)	42.7 (1508)	62.0 (2182)	
Defrost method				Reverse cycle	Reverse cycle
Noise level (SPL)	ATW	Heating (Full Load)	dB	57	54
		Cooling	dB	-	-
	ATA	Heating (Full Load)	dB	54	51
		Cooling	dB	48	49
Noise level (PWL)	ATW	Heating	dB	67	64
	ATA	Cooling	dB	63	61
Dimensions		Width	mm(in)	840 (33-11/16)	950 (37-3/8)
		Depth	mm(in)	330 (13)	330 (13)
		Height	mm(in)	710 (27-15/16)	796 (31-5/16)
Weight		kg(lbs)	59 (130)	62 (137)	
Refrigerant				R32	R32
	Chargeless	kg(lbs)	2.4 (5.3)	2.4 (5.3)	
	MAX.	kg(lbs)	2.4 (5.3)	2.4 (5.3)	
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. 20	Max. 20
		Piping length	m	Max. 60m total Max. 30m for each	Max. 70m total Max. 30m for each
Guaranteed operating range (Outdoor)	ATW	Heating	°C	-20 to +24	-20 to +24
		DHW	°C	-20 to +35	-20 to +35
		Cooling	°C	-	-
	ATA	Heating	°C	-20 to +24	-20 to +24
		Cooling	°C	-10 to +46	-10 to +46
Outlet water temp. (Max in Heating, Min in Cooling)		Heating	°C	+55	+55
		Cooling	°C	-	-
Nominal return water temperature range		Heating	°C	+10 to +54	+10 to +54
		Cooling	°C	-	-
Water Flow rate range		L/min	11.5 to 21.7	11.5 to 24.6	

MODEL NAME			PXZ-4F75VG	PXZ-5F85VG
Nominal water flow rate (Heating mode)		L/min	21.7	24.6
Heating (A7/W35)	Capacity	kW	7.5	8.5
	COP*		4.17	4.34
	Power input	kW	1.80	1.96
Heating (A2/W35)	Capacity	kW	6.8	7.8
	COP*		2.80	3.00
	Power input	kW	2.43	2.60
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.

* 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



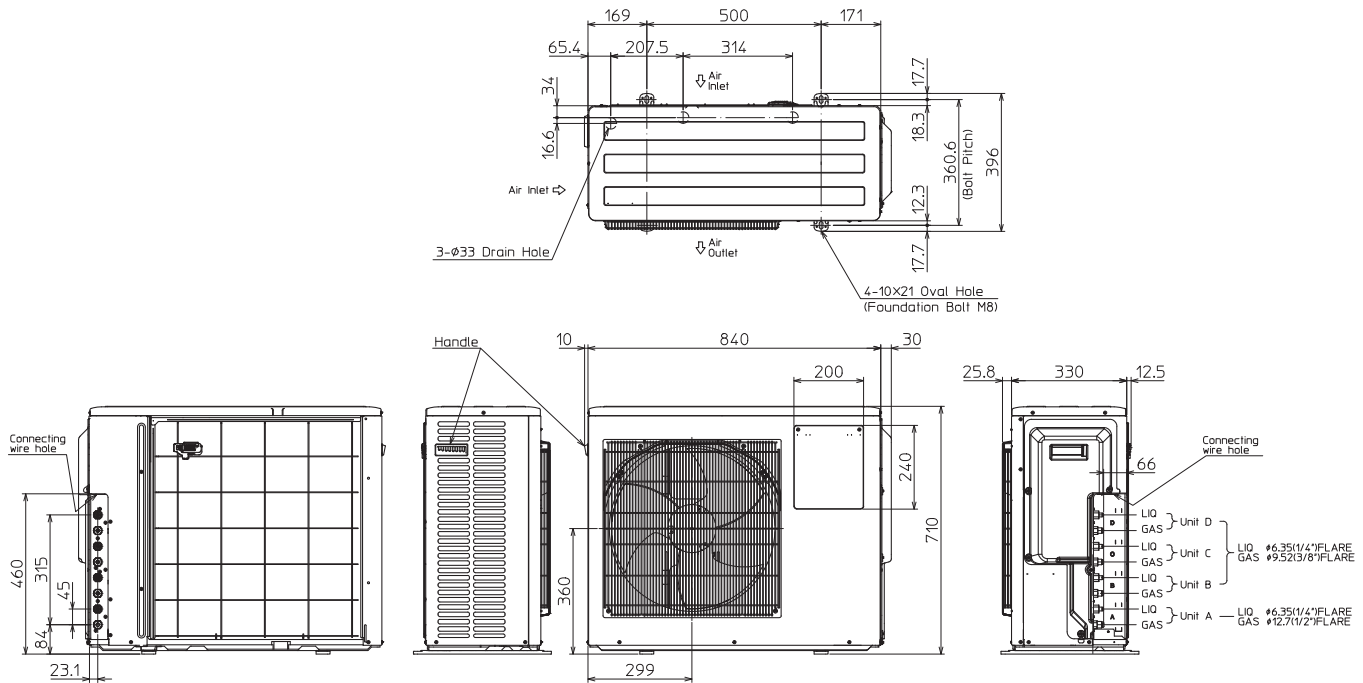
Number of ATA units	0	1	2	3	4
COP (Ratio)	1.00	0.92	0.86	0.80	0.75

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
PUMY-P140VKM5/YKM(E)4	EHST20C-***D	A ⁺	A	11.2	121	106	40	69	A ⁺⁺	A	11.2	168	106	40	69
	EHSC-***D	A ⁺	-	11.2	121	-	40	69	A ⁺⁺	-	11.2	168	-	40	69
PXZ-4F75VG	E*ST17D-*M2/6/9*D	A ⁺	A ⁺	6.1	113	117	41	67	A ⁺⁺	A ⁺	6.1	154	117	41	67
	E*ST20D-*M2/6/9*D	A ⁺	A ⁺	6.1	113	124	41	67	A ⁺⁺	A ⁺	6.1	154	124	41	67
	E*ST30D-*M2/6/9*D	A ⁺	A	6.1	113	118	41	67	A ⁺⁺	A	6.1	154	118	41	67
	E*SD-*M2/6/9*D	A ⁺	-	6.1	113	-	41	67	A ⁺⁺	-	6.1	154	-	41	67
PXZ-5F85VG	E*ST17D-*M2/6/9*D	A ⁺	A ⁺	6.7	111	121	41	64	A ⁺⁺	A ⁺	6.8	157	121	41	64
	E*ST20D-*M2/6/9*D	A ⁺	A ⁺	6.7	111	123	41	64	A ⁺⁺	A ⁺	6.8	157	123	41	64
	E*ST30D-*M2/6/9*D	A ⁺	A	6.7	111	110	41	64	A ⁺⁺	A	6.8	157	110	41	64
	E*SD-*M2/6/9*D	A ⁺	-	6.7	111	-	41	64	A ⁺⁺	-	6.8	157	-	41	64

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

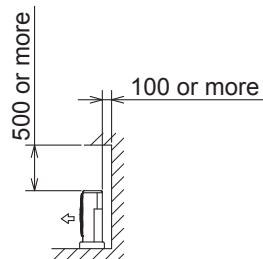
■ PXZ-4F75VG

Unit: mm

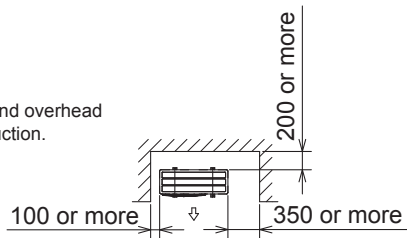


1. Installation space

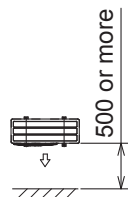
Note : Leave front and both sides free of obstruction.



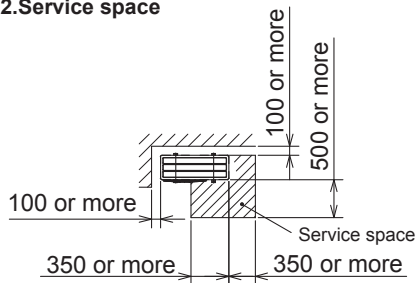
Note : Leave front and overhead free of obstruction.



Note : Leave rear, overhead and both sides free of obstruction.



2. Service space



■ PXZ-4F75VG

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	-20	-	-	4.1	1.68	4.0	1.43	-	-	-	-	-	-	-	-
	-15	-	-	4.8	1.96	4.7	1.78	4.6	1.55	-	-	-	-	-	-
	-10	5.7	2.98	5.5	2.23	5.4	2.03	5.3	1.77	5.2	1.54	-	-	-	-
	-7	6.2	3.20	6.0	2.40	5.8	2.18	5.7	1.90	5.6	1.66	-	-	-	-
	2	7.0	3.74	6.8	2.80	6.7	2.59	6.6	2.37	6.4	2.16	6.3	1.94	-	-
	7	9.6	4.77	9.3	3.57	9.1	3.25	8.9	2.84	8.8	2.47	8.7	2.14	-	-
	12	10.4	5.13	10.2	3.90	10.0	3.61	9.9	3.15	9.7	2.73	9.5	2.37	-	-
	15	11.0	5.36	10.8	4.04	10.6	3.81	10.5	3.34	10.3	2.91	10.1	2.52	-	-
20	12.1	5.65	12.0	4.28	11.8	4.07	11.6	3.61	11.4	3.18	11.3	2.80	-	-	
Nominal	-20	-	-	4.1	1.68	4.0	1.43	-	-	-	-	-	-	-	-
	-15	-	-	4.8	1.96	4.7	1.78	4.6	1.55	-	-	-	-	-	-
	-10	5.7	2.98	5.5	2.23	5.4	2.03	5.3	1.77	5.2	1.54	-	-	-	-
	-7	6.2	3.20	6.0	2.40	5.8	2.18	5.7	1.90	5.6	1.66	-	-	-	-
	2	7.0	3.74	6.8	2.80	6.7	2.59	6.6	2.37	6.4	2.16	6.3	1.94	-	-
	7	7.8	5.56	7.5	4.17	7.5	3.74	7.5	3.32	7.5	2.89	7.5	2.46	-	-
	12	7.8	6.12	7.5	4.65	7.5	4.18	7.5	3.72	7.5	3.25	7.5	2.78	-	-
	15	7.1	6.62	7.5	5.00	7.5	4.54	7.5	4.08	7.5	3.62	7.5	3.16	-	-
20	6.7	8.05	7.5	6.10	7.5	5.50	7.5	4.91	7.5	4.31	7.5	3.72	-	-	
Mid	-20	-	-	3.3	1.83	3.2	1.56	-	-	-	-	-	-	-	-
	-15	-	-	3.8	2.13	3.8	1.94	3.7	1.70	-	-	-	-	-	-
	-10	4.6	3.25	4.4	2.43	4.3	2.22	4.3	1.93	4.2	1.68	-	-	-	-
	-7	4.9	3.49	4.8	2.61	4.7	2.38	4.6	2.08	4.5	1.81	-	-	-	-
	2	5.6	4.20	5.4	3.15	5.3	2.91	5.2	2.67	5.1	2.43	5.0	2.18	-	-
	7	6.2	5.76	6.0	4.31	6.0	3.87	6.0	3.43	6.0	2.99	6.0	2.55	-	-
	12	6.2	6.23	6.0	4.74	6.0	4.26	6.0	3.79	6.0	3.31	6.0	2.83	-	-
	15	5.7	7.04	6.0	5.32	6.0	4.83	6.0	4.34	6.0	3.85	6.0	3.36	-	-
20	5.3	7.91	6.0	5.99	6.0	5.41	6.0	4.82	6.0	4.24	6.0	3.65	-	-	
Min	-20	-	-	2.9	1.82	2.8	1.54	-	-	-	-	-	-	-	-
	-15	-	-	3.7	2.18	3.6	1.98	3.6	1.73	-	-	-	-	-	-
	-10	3.5	3.45	3.4	2.59	3.3	2.36	3.2	2.06	3.2	1.79	-	-	-	-
	-7	3.9	3.56	3.7	2.67	3.7	2.43	3.6	2.12	3.5	1.84	-	-	-	-
	2	3.0	4.13	2.9	3.10	2.8	2.86	2.8	2.62	2.7	2.39	2.7	2.15	-	-
	7	4.4	5.55	4.3	4.16	4.2	3.79	4.1	3.31	4.1	2.88	4.0	2.50	-	-
	12	5.0	6.32	4.9	4.81	4.8	4.44	4.7	3.88	4.7	3.37	4.6	2.92	-	-
	15	5.5	6.98	5.4	5.27	5.3	4.97	5.3	4.35	5.2	3.79	5.1	3.29	-	-
20	5.9	7.86	5.8	5.95	5.7	5.66	5.6	5.02	5.6	4.42	5.5	3.89	-	-	

■ PXZ-5F85VG

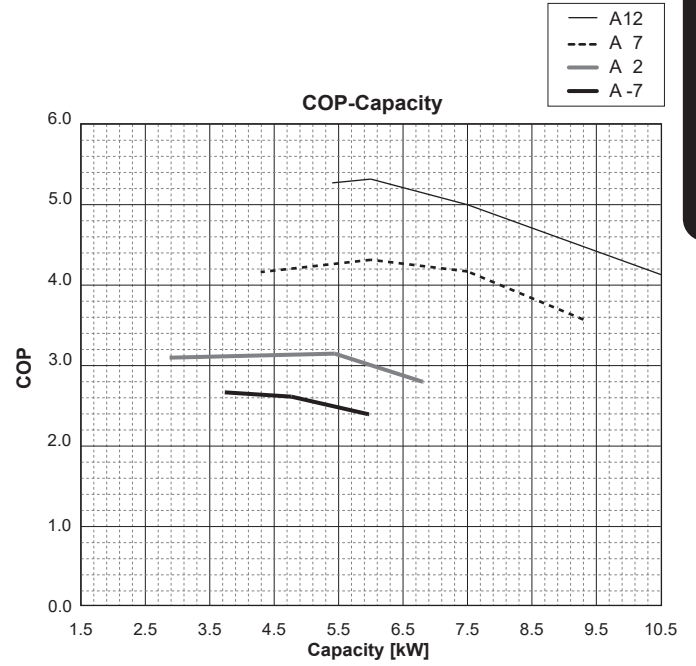
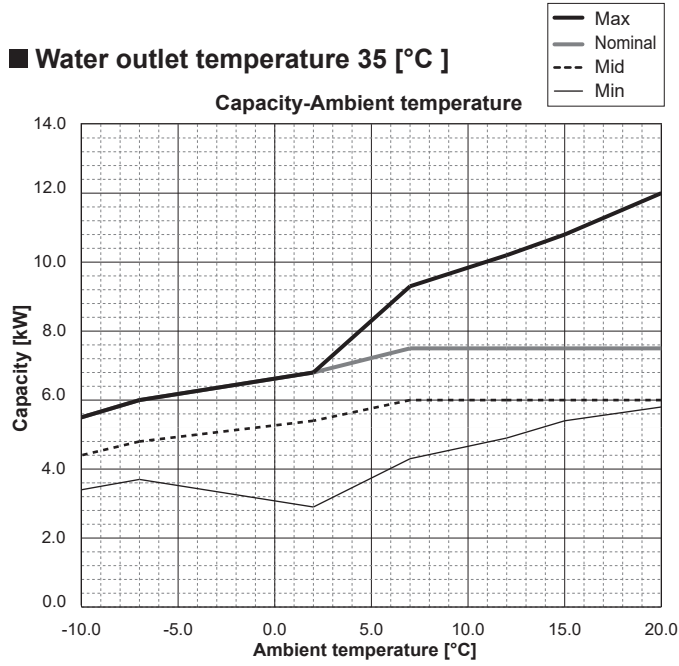
Water outlet temperature [°C]		25		35		40		45		50		55		60	
Ambient temperature [°C]		Capacity	COP	Capacity	COP	Capacity	COP	Capacity	COP	Capacity	COP	Capacity	COP	Capacity	COP
Max	-20	-	-	5.2	1.74	5.1	1.56	-	-	-	-	-	-	-	-
	-15	-	-	6.1	1.97	6.0	1.76	5.8	1.58	-	-	-	-	-	-
	-10	7.5	2.74	7.1	2.20	6.9	1.97	6.8	1.76	5.5	1.32	-	-	-	-
	-7	8.1	2.91	7.7	2.34	7.1	2.03	6.5	1.71	5.9	1.40	-	-	-	-
	2	8.2	3.73	7.8	3.00	7.6	2.71	7.5	2.42	7.3	2.13	7.1	1.84	-	-
	7	10.5	4.96	10.0	3.99	9.8	3.57	9.5	3.20	8.7	2.87	8.6	2.57	-	-
	12	11.5	5.42	10.9	4.33	10.6	3.87	10.4	3.45	9.5	3.08	9.4	2.75	-	-
	15	12.1	5.74	11.5	4.56	11.2	4.06	11.0	3.61	10.0	3.23	9.9	2.89	-	-
20	13.3	6.35	12.7	4.99	12.4	4.43	12.1	3.95	11.2	3.53	11.1	3.17	-	-	
Nominal	-20	-	-	5.2	1.74	5.1	1.56	-	-	-	-	-	-	-	-
	-15	-	-	6.1	1.97	6.0	1.76	5.8	1.58	-	-	-	-	-	-
	-10	7.5	2.74	7.1	2.20	6.9	1.97	6.8	1.76	5.5	1.32	-	-	-	-
	-7	8.1	2.91	7.7	2.34	7.1	2.03	6.5	1.71	5.9	1.40	-	-	-	-
	2	8.2	3.73	7.8	3.00	7.6	2.71	7.5	2.42	7.3	2.13	7.1	1.84	-	-
	7	8.9	5.40	8.5	4.34	8.5	3.91	8.5	3.48	8.5	3.04	8.5	2.61	-	-
	12	8.9	6.09	8.5	4.87	8.5	4.37	8.5	3.87	8.5	3.36	8.5	2.86	-	-
	15	8.9	6.69	8.5	5.32	8.5	4.76	8.5	4.21	8.5	3.65	8.5	3.10	-	-
20	8.9	7.98	8.5	6.27	8.5	5.58	8.5	4.90	8.5	4.21	8.5	3.53	-	-	
Mid	-20	-	-	4.1	1.80	4.0	1.61	-	-	-	-	-	-	-	-
	-15	-	-	4.9	2.04	4.8	1.83	4.7	1.64	-	-	-	-	-	-
	-10	6.0	2.84	5.7	2.28	5.5	2.04	5.4	1.83	4.4	1.37	-	-	-	-
	-7	6.5	3.02	6.1	2.43	5.7	2.10	5.2	1.78	4.7	1.45	-	-	-	-
	2	6.6	4.04	6.2	3.25	6.1	2.93	6.0	2.62	5.8	2.30	5.7	1.99	-	-
	7	7.2	5.64	6.8	4.53	6.8	4.08	6.8	3.63	6.8	3.18	6.8	2.73	-	-
	12	7.2	6.34	6.8	5.07	6.8	4.55	6.8	4.03	6.8	3.51	6.8	2.98	-	-
	15	7.2	7.01	6.8	5.57	6.8	4.99	6.8	4.41	6.8	3.83	6.8	3.25	-	-
20	7.1	8.25	6.8	6.48	6.8	5.77	6.8	5.06	6.8	4.35	6.8	3.65	-	-	
Min	-20	-	-	3.7	1.73	3.6	1.55	-	-	-	-	-	-	-	-
	-15	-	-	4.3	2.05	4.2	1.84	4.1	1.65	-	-	-	-	-	-
	-10	3.9	2.84	3.7	2.29	3.6	2.05	3.5	1.83	2.9	1.37	-	-	-	-
	-7	4.3	3.11	4.1	2.50	3.8	2.17	3.4	1.83	3.1	1.50	-	-	-	-
	2	3.5	3.90	3.3	3.14	3.3	2.84	3.2	2.53	3.1	2.23	3.0	1.93	-	-
	7	5.0	5.95	4.7	4.78	4.6	4.28	4.5	3.83	4.1	3.43	4.1	3.08	-	-
	12	5.6	6.37	5.3	5.09	5.2	4.54	5.1	4.05	4.6	3.62	4.6	3.24	-	-
	15	6.0	7.01	5.7	5.57	5.6	4.96	5.5	4.42	5.0	3.94	4.9	3.53	-	-
20	6.8	8.24	6.5	6.47	6.3	5.74	6.2	5.12	5.7	4.58	5.6	4.11	-	-	

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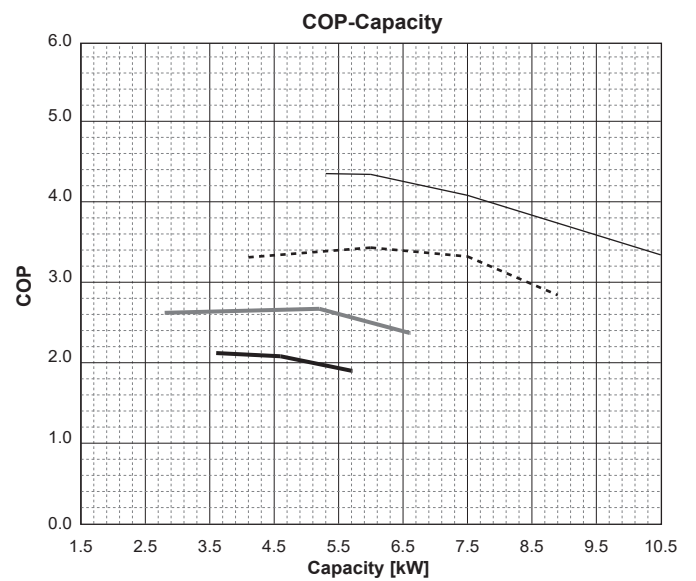
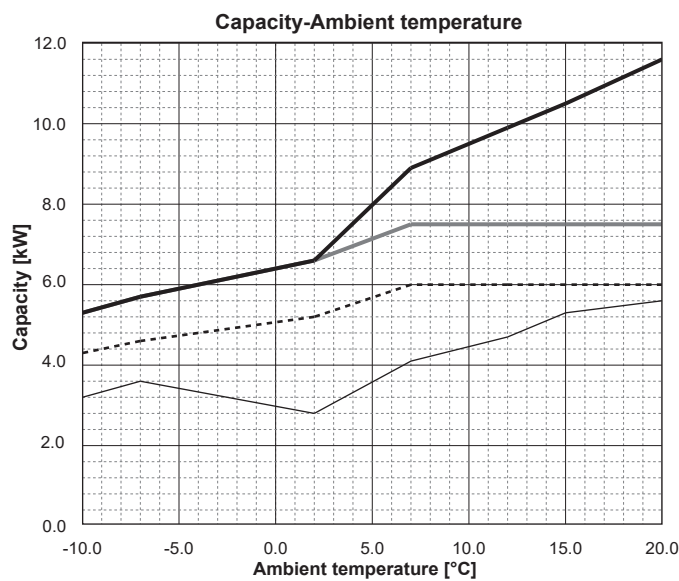
PXZ-4F75VG

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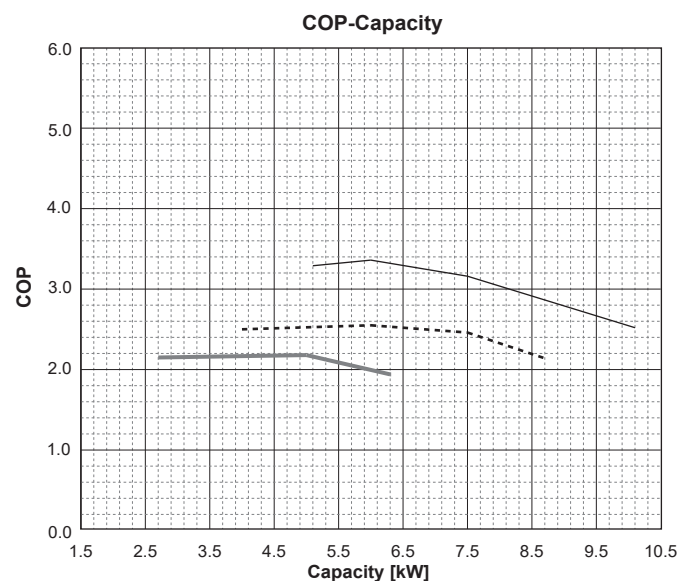
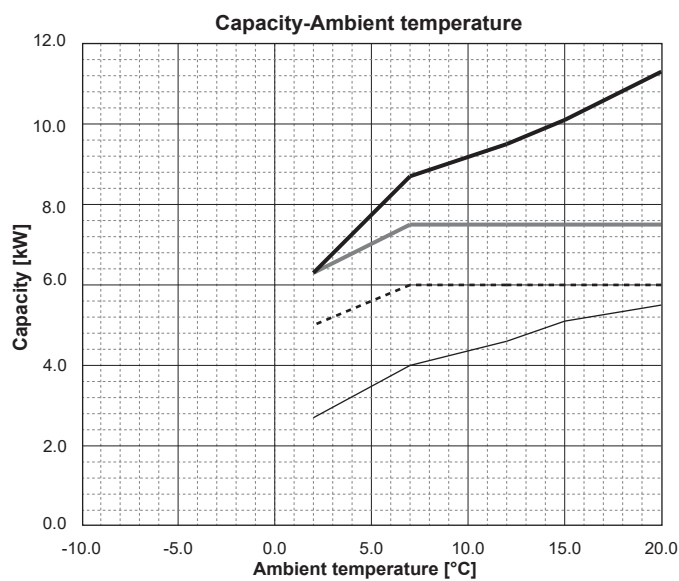
Water outlet temperature 35 [°C]



Water outlet temperature 45 [°C]



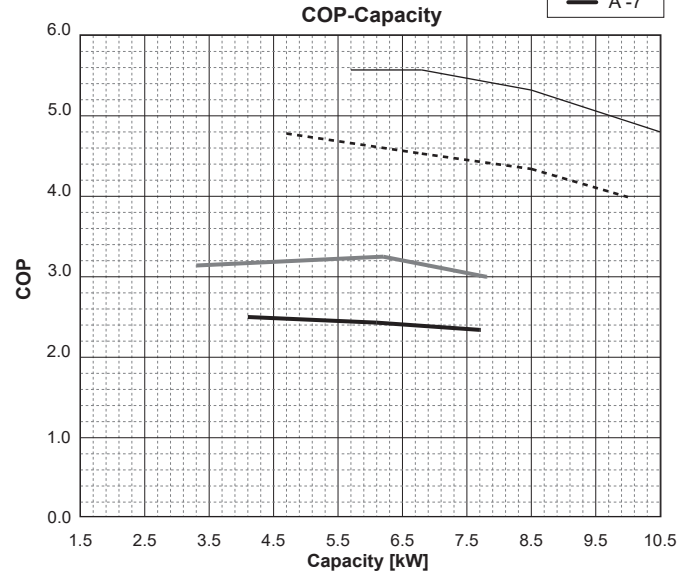
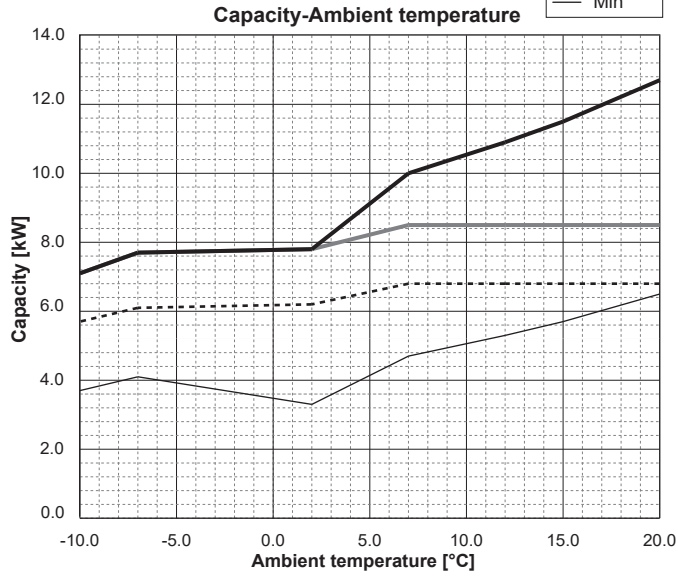
Water outlet temperature 55 [°C]



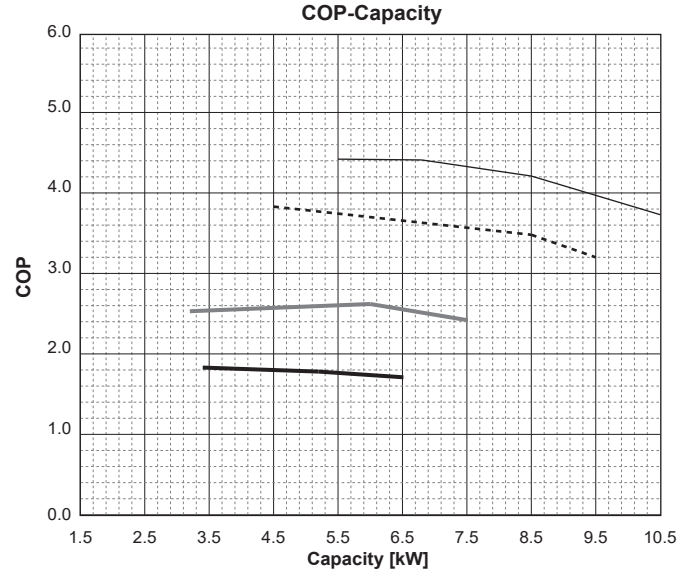
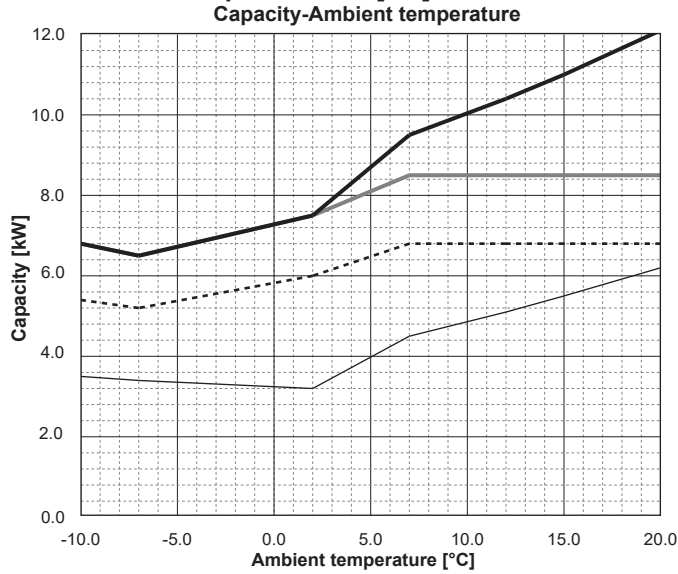
PXZ-5F85VG

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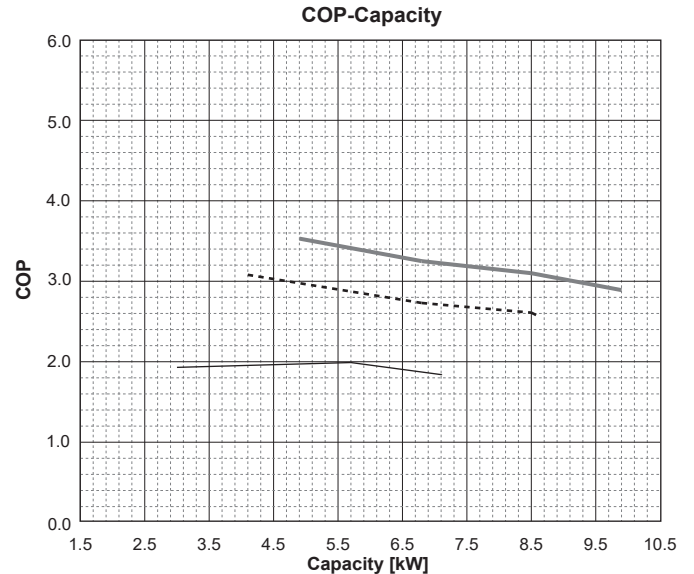
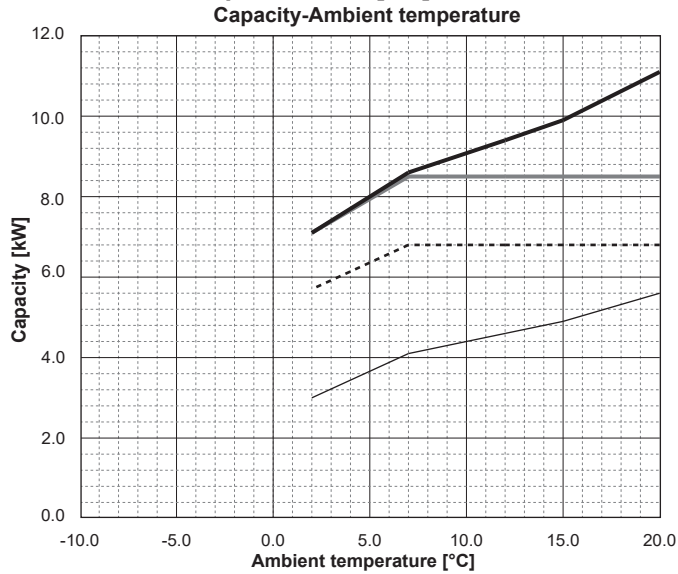
■ Water outlet temperature 35 [°C]



■ Water outlet temperature 45 [°C]



■ Water outlet temperature 55 [°C]



5 Performance data

Outdoor unit

Outdoor unit

Water outlet temperature[°C]		35		45		55	
Ambient temperature[°C]		Capacity	COP	Capacity	COP	Capacity	COP
SUZ-SWM100VAH	-7	7.5	2.73	3.5	2.06	3.4	1.67
	2	7.2	3.18	6.8	2.66	6.8	2.27
		3.8	4.17	3.5	3.12	3.3	2.54
7	10.0	5.08	6.0	3.65	3.3	2.93	
PUD-SWM60VAA(-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
		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-SWM80VAA(-BS) PUD-SWM80YAA(-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
		4.3	3.75	4.2	2.95	4.0	2.30
7	5.5	4.90	5.3	3.65	4.8	2.65	
PUD-SWM100VAA(-BS) PUD-SWM100YAA(-BS)	-7	6.6	3.15	6.4	2.50	6.2	2.00
	2	7.0	3.70	6.9	3.00	6.8	2.20
		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-SWM120VAA(-BS) PUD-SWM120YAA(-BS)	-7	6.6	3.15	6.4	2.50	6.2	2.10
	2	7.0	3.70	6.9	3.00	6.8	2.20
		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-SHWM60VAA(-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
		4.3	3.95	4.2	3.05	4.0	2.30
7	5.6	5.05	5.4	3.70	4.8	2.70	
PUD-SHWM80VAA(-BS) PUD-SHWM80YAA(-BS)	-7	5.4	3.20	6.0	2.55	6.0	2.10
	2	5.2	3.85	5.0	3.00	4.3	2.25
		4.3	3.95	4.2	3.05	4.0	2.30
7	5.6	5.05	5.4	3.70	4.8	2.70	
PUD-SHWM100VAA(-BS) PUD-SHWM100YAA(-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
		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-SHWM120VAA(-BS) PUD-SHWM120YAA(-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
		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-SHWM140VAA(-BS) PUD-SHWM140YAA(-BS)	-7	6.9	3.30	6.7	2.60	6.5	2.15
	2	7.3	3.70	7.2	2.95	7.0	2.20
		6.0	4.00	5.9	3.20	5.8	2.40
7	6.7	5.00	6.6	3.75	6.5	2.80	
PXZ-4F75VG	-7	3.7	2.67	3.6	2.12	-	-
	2	5.4	3.15	5.2	2.67	5.0	2.18
	7	6.0	4.31	6.0	3.43	6.0	2.55
PXZ-5F85VG	-7	4.1	2.50	3.4	1.83	-	-
	2	6.2	3.25	6.0	2.62	5.7	1.99
	7	4.7	4.78	4.5	3.83	4.1	3.08