

DAIKIN



TECHNICAL DATA

Split-Sky Air



RY-EAZ7/RYPB-7

Pair Application



Split Sky Air



ISO14001 assures an effective environmental management system in order to help protect human health and the environment from the potential impact of our activities, products and services and to assist in maintaining and improving the quality of the environment



Daikin units comply with the European regulations that guarantee the safety of the product.



Daikin Europe NV is approved by LRQA for its Quality Management System in accordance with the ISO9001 standard. ISO9001 pertains to quality assurance regarding design, development, manufacturing as well as to services related to the product.



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DAIKIN EUROPE NV Zandvoordestraat 300, B-8400 Oostende

Internet <http://www.daikin.be>

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RY-EAZ7/RYP-B7



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1 Features



Outdoor units for pair application

- Daikin outdoor units are neat and sturdy and can be mounted easily on a roof or terrace or simply placed against an outside wall. They are fitted with either rotary or scroll compressor, renowned for low noise and high energy efficiency.
- A special acryl precoated fin for anti-corrosion treatment on the heat exchanger ensures greater resistance against severe weather conditions.

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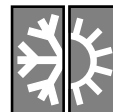


2 Specifications



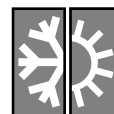
TECHNICAL SPECIFICATIONS								
OUTDOOR UNITS				RY35EAZ7V1	RY45EAZ7V1	RYP71B7V1/W1	RYP100B7V1/W1	
DIMENSIONS	Unit	H	mm	660	660	860	1,215	
		W	mm	880	880	880	880	
		D	mm	350	350	320	320	
WEIGHT			kg	50	57	89/86	104/99	
MATERIAL	Unit			Painted metal		Painted galvanised steel plate		
COLOUR	Unit			Ivory white				
SOUND LEVEL	Sound pressure (1) (cooling/heating)	high	dBA	46/48	47/48	50/52	53/56	
		low	dBA	-	-	-	-	
	Sound power (2) (cooling/heating)			dBA	59/60	60/61	63/-	66/-
FAN	Air flow rate (cooling)	high	m ³ /min	36	31	51	94	
	Air flow rate (heating)	high	m ³ /min	32	28	46	82/85	
	Speed	steps			2 steps	2 steps	3 steps	3 steps
		high		rpm	610	610	-	-
		low		rpm	350	350	-	-
	Type				-	-	-	-
	Qty x model					1x19TFB6062	1x19TFB6062	1xP47L11S
Qty x motor output					1 x 30	1 x 30	1 x 80	1 x (80+85)
HEAT EXCHANGER	Type			Hi-XA U-cooling tube, WL fin		Hi-XA U-cooling tube, non symm. waffle louvre		
	Rows x stages x fin pitch		mm	1 x 24 x 2.0	2 x 24 x 2.0	2 x 38 x 2.0	2 x 54 x 2.0	
	Face area		m ²	0.513	0.481	0.719	1.022	
REFRIGERANT CIRCUIT	Refrigerant type			R-407C	R-407C	R-407C	R-407C	
	Refrigerant charge			kg	1.1	2.0	3.1	3.6
	No. of circuits				max. 1	max. 1	-	-
	Refrigerant control				-	-	Expansion valve (electronic type)	
COMPRESSOR	Type			Hermetically sealed swing type		Hermetically sealed scroll type		
	Qty x model			1x1YC43BTV1	1xYC56ATV1N	1xJT90FA-V1N/ 1xJT90FA-YE	1xJT125FA-V1N/ 1xJT125FA-YE	
	Motor output x no			1,300 x 1	1,700 x 1	2,200 x 1	3,000 x 1	
	No. of cylinders			1	1	-	-	
	Speed		rpm	2,850	2,860	-	-	
	Oil type			FVC68D+HAB15D	FVC68D+HAB15D	DAPHNE FVC68D		
	Oil charge volume		ℓ	0.85	0.85	1.2	1.5	
	Crankcase heater			W	-	-	-	-
PIPING CONNECTIONS		liquid	mm	φ6.4	φ6.4	φ9.5	φ9.5	
		gas	mm	φ12.7	φ12.9	φ15.9	φ19.1	
		drain	mm	φ18 x 3	φ18 x 3	φ26	φ26 x 3	
INSULATION MATERIAL	Heat insulation			Both liquid and gas pipes				
	Safety devices			-	-	High and low pressure switch, thermal protector for indoor and outdoor fan motor, overcurrent relay (compressor), reverse phase protection (W1/T1) fuse.		

2 Specifications



TECHNICAL SPECIFICATIONS							
OUTDOOR UNITS				RYP125B7W1	RYP200B7W1	RYP250B7W1	
DIMENSIONS	Unit	H	mm	1,215	1,220	1,440	
		W	mm	880	1,290	1,290	
		D	mm	320	700	700	
WEIGHT			kg	102	196	210	
MATERIAL	Unit Painted galvanised steel plate						
COLOUR	Unit Ivory white						
SOUND LEVEL	Sound pressure (1) (cooling/heating)	high	dBA	53/56	57/57	57/57	
		low	dBA	–	–	–	
	Sound power (2) (cooling/heating)			dBA	67/-	77/78	77/78
FAN	Air flow rate (cooling)	high	m ³ /min	94	170	175	
	Air flow rate (heating)	high	m ³ /min	85	–	–	
	Speed	steps			3 steps	1 step	1 step
		high	rpm		–	–	–
		low	rpm		–	–	–
	Type				–	–	–
	Qty x model				2xP47L11S	1xP55J11F	1xP55J11F
Qty x motor output			W	1x(80+85)	1x(230+190)	1x(230+190)	
HEAT EXCHANGER	Type			Hi-XA cooling tube, non symm. waffle louvre	ø 8 Hi-XA tube assymetric louvre		
	Rows x stages x fin pitch		mm	2 x 54 x 2.0	2 x 40 x 2.0	2 x 50 x 2.0	
	Face area		m ²	1.022	1.57	1.97	
REFRIGERANT CIRCUIT	Refrigerant type			R-407C	R-407C	R-407C	
	Refrigerant charge		kg	3.9	7.5	9.2	
	No. of circuits			–	–	–	
	Refrigerant control		–	Expansion valve (electronic type)	Expansion valve		
COMPRESSOR	Type			Hermetically sealed scroll type			
	Qty x model			1xJT160FA-YE	1xJT236DA-YE@2	1xJT300DA-YE@2	
	Motor output x no			3,750 x 1	5,500 x 1	7,500 x 1	
	No. of cylinders			–	–	–	
	Speed			rpm	–	2,900	2,900
	Oil type			DAPHNE FVC68D			
	Oil charge volume			ℓ	1.5	4	4
Crankcase heater			W	–	50	72	
PIPING CONNECTIONS		liquid	mm	ø9.5	ø12.7 x 0.90	ø15.9 x 0.95	
		gas	mm	ø19.1	ø28.6 x 1.15	ø28.6 x 1.15	
		drain	mm	ø26 x 3	ø26 x 6	ø26 x 6	
INSULATION MATERIAL	Heat insulation			Both liquid and gas pipes			
	Safety devices			High and low pressure switch, thermal protector for indoor and outdoor fan motor, overcurrent relay (compressor), reserve phase protector, fuse	High and low pressure switch, thermal protection for indoor and outdoor fan motor, fuse, overcurrent relay (compressor), reserve phase protection, compr. Thermal protection		

2 Specifications



ELECTRICAL SPECIFICATIONS							
OUTDOOR UNITS				RY35EAZ7V1	RY45EAZ7V1	RYP71B7V1/W1	RYP100B7V1/W1
CURRENT	Nominal running current	cooling/heating	A	6.9/6.4	9.1/8.8	–	–
	Starting current	cooling/heating	A	34/34	42/42	–	–
POWER SUPPLY				V1	V1	V1/W1	V1/W1
NOMINAL DISTRIBUTION SYSTEM VOLTAGE	Phase			1~	1~	1~/3N~	1~/3N~
	Frequency			Hz	50	50	50
	Voltage			V	230	230	230 / 400

ELECTRICAL SPECIFICATIONS							
OUTDOOR UNITS				RYP125B7W1	RYP200B7W1	RYP250B7W1	
CURRENT	Nominal running current	cooling/heating	A	–	14.4	17.2	
	Starting current	cooling/heating	A	–	–	–	
POWER SUPPLY				W1	W1	W1	
NOMINAL DISTRIBUTION SYSTEM VOLTAGE	Phase			3N~	3N~	3N~	
	Frequency			Hz	50	50	
	Voltage			V	400	400	

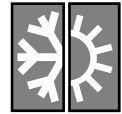
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NOTES

- The sound pressure level is measured in an anechoic room at 1m distance from the unit. It is a relative value, depending on the distance and acoustic environment. For measuring conditions: please refer to item 8 of this chapter.
- The sound power level is an absolute value indicating the "power" which a sound source generates.
- Maximum allowable distance between indoor and outdoor unit: 20 m (for RY35EAZ7), 25 m (for RY45AEZ7), 70 m (for RYP71-125B7), 50 m (for RYP200-250B); 70 m equivalent.
Maximum allowable level difference: 15 m (for RY35-45EAZ7), 30 m (for RYP71-250B7).
- Additional refrigerant charge 30 g/m for total piping length >10 m (for RY35-45EAZ7), 100 g/m for total piping length >30 m (for RYP200B7), 140 g/m for total piping length >30 m (for RYP250B7).
or RYP71-125B7: no additional refrigerant charge.



2 Specifications



ELECTRICAL DATA

RY35EAZ7V1

Connection ratio (%)	Indoor unit	Power supply					Compressor		OFM		IFM	
		Hz-Volts	Voltage range	MCA	TOCA	MFA	LRA	RLA	KW	FLA	KW	FLA
-	FHY35GZ7V1	50-220 50-230 50-240	MAX. 264V MIN. 198V	7.7	-	15.0	34	5.7	30	0.3	57	0.3
-	FHYB35GZ7V1	50-220 50-230 50-240	MAX. 264V MIN. 198V	7.9	-	15.0	34	5.7	30	0.3	65	0.5

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RY45EAZ7V1

Connection ratio (%)	Indoor unit	Power supply					Compressor		OFM		IFM	
		Hz-Volts	Voltage range	MCA	TOCA	MFA	LRA	RLA	KW	FLA	KW	FLA
-	FHY45GZ7V1	50-220 50-230 50-240	MAX. 264V MIN. 198V	10.7	-	20.0	42	8.0	30	0.3	57	0.3
-	FHYB45GZ7V1	50-220 50-230 50-240	MAX. 264V MIN. 198V	11.0	-	20.0	42	8.0	30	0.3	85	0.7

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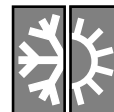
SYMBOLS

MCA	: Min. Circuit Amps
TOCA	: Total Over Current Amps
MFA	: Max. Fuse Amps
LRA	: Locked Rotor Amps
RLA	: Rated Load Amps (A)
OFM	: Outdoor Fan Motor
IFM	: Indoor Fan Motor
FLA	: Full Load Amps
KW	: Rated motor output (W)

NOTES

1. RLA is based on the following conditions:
Indoor temp.: 27°CDB/19.0°CWB
2. TOCA means the total value of each OC set
3. Voltage range
Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed operation range limits
4. Maximum allowable voltage unbalance between phases is 2%.
5. MCA/MFA
 $MCA = 1.25 \times RLA + ea. FLA + 1.25 \times EH FLA$
 $MFA < 2.25 \times RLA + ea. FLA + 2.25 \times EH FLA$
 (next lower standard fuse rating, min.15A)

2 Specifications



ELECTRICAL DATA

RYP71-125B7

Unit combination		Power supply			Compressor		OFM		IFM			
Indoor unit	Outdoor unit	Hz-Volts	Voltage range	MCA	TOCA	MFA	LRA	RLA	KW	FLA	KW	FLA
FHYC71/FUY71	RYP71B7V1	50-230	Max. 50Hz-264V Min. 50Hz-198V	16.4	23.4	32	71.3	12.1	0.075	0.7	0.045	0.6
FHY71	RYP71B7V1	50-230		16.4	23.4	32	71.3	12.1	0.075	0.7	0.062	0.6
FHYK71	RYP71B7V1	50-230		16.3	23.3	32	71.3	12.1	0.075	0.7	0.045	0.5
FAY71	RYP71B7V1	50/230		16.1	13.1	32	17.3	12.1	0.075	0.7	0.046	0.3
FHYB71	RYP71B7V1	50-230		16.7	23.7	32	71.3	12.1	0.075	0.7	0.125	0.9
FHYCP71/FUY71	RYP71B7W1	50-400/230	Max. 50Hz-440/253V Min. 50Hz-360/197V	7.1	11.3	16	34.8	4.6	0.075	0.7	0.045	0.6
FHY71	RYP71B7W1	50-400/230		7.1	11.3	16	34.8	4.6	0.075	0.7	0.062	0.6
FHYKP71	RYP71B7W1	50-400/230		7.0	11.2	16	34.8	4.6	0.075	0.7	0.045	0.5
FAY71	RYP71B7W1	50-400/230		6.8	11.0	16	34.8	4.6	0.075	0.7	0.046	0.3
FHYBP71	RYP71B7W1	50-400/230		7.4	11.6	16	34.8	4.6	0.075	0.7	0.125	0.9

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SYMBOLS

MCA	: Min. Circuit Amps
TOCA	: Total Over Current Amps
MFA	: Max. Fuse Amps (see note 7)
LRA	: Locked Rotor Amps
RLA	: Rated Load Amps (A)
OFM	: Outdoor Fan Motor
IFM	: Indoor Fan Motor
FLA	: Full Load Amps
KW	: Rated motor output (W)

NOTES

1. RLA is based on the following conditions:
Indoor temp.: 27°CDB/19,5°CWB
Outdoor temp. : 35°CDB
2. TOCA means the total value of each OC set
3. Voltage range
Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed operation range limits
4. Maximum allowable voltage unbalance between phases is 2%.
5. MCA/MFA
MCA = 1,25 x RLA + all FLA, MFA = < 2,25 x RLA + all FLA (next lower standard fuse rating Min. P30)
6. Select wire size based on the larger value of MCA or TOCA
7. Instead of fuse, use circuit breaker

2 Specifications



ELECTRICAL DATA

RYP100B7

Unit combination		Power supply					Compressor		OFM		IFM	
Indoor unit	Outdoor unit	Hz-Volts	Voltage range	MCA	TOCA	MFA	LRA	RLA	KW	FLA	KW	FLA
FHYCP100/FUYYP100	RYP100B7V1	50-230	Max. 50Hz-264V Min. 50Hz-198V	24.8	35.7	40	96.7	17.8	0.085 + 0.08	0.84 + 0.7	0.09	1.0
FHYP100	RYP100B7V1	50-230		24.5	35.6	40	96.7	17.8	0.085 + 0.08	0.84 + 0.7	0.13	0.7
FAYP100	RYP100B7V1	50-230		24.2	35.3	40	96.7	17.8	0.085 + 0.08	0.84 + 0.7	0.049	0.4
FHYBP100	RYP100B7V1	50-230c;1		24.8	35.8	40	96.7	17.8	0.085 + 0.08	0.84 + 0.7	0.135	1.0
FHYCP100/FUYYP100	RYP100B7W1	50-400/230	Max. 50Hz-440/253V Min. 50Hz-360/197V	10.7	12.8	16	45.5	6.5	0.085 + 0.08	0.84 + 0.7	0.09	1.0
FHYP100	RYP100B7W1	50-400/230		10.4	12.5	16	45.5	6.5	0.085 + 0.08	0.84 + 0.7	0.13	0.7
FAYP100	RYP100B7W1	50-400/230		10.1	12.2	16	45.5	6.5	0.085 + 0.08	0.84 + 0.7	0.049	0.4
FHYBP100	RYP100B7W1	50-400/230		10.7	12.8	16	45.5	6.5	0.085 + 0.08	0.84 + 0.7	0.135	1.0

3TW23249-2A

SYMBOLS

- MCA : Min. Circuit Amps
- TOCA : Total Over Current Amps
- MFA : Max. Fuse Amps (see note 7)
- LRA : Locked Rotor Amps
- RLA : Rated Load Amps (A)
- OFM : Outdoor Fan Motor
- IFM : Indoor Fan Motor
- FLA : Full Load Amps
- KW : Rated motor output (W)

NOTES

1. RLA is based on the following conditions:
Indoor temp.: 27°CDB/19,5°CWB
Outdoor temp.: 35°CDB
2. TOCA means the total value of each OC set
3. Voltage range
Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed operation range limits
4. Maximum allowable voltage unbalance between phases is 2%.
5. MCA/MFA
MCA = 1,25 x RLA + all FLA, MFA = < 2,25 x RLA + all FLA (next lower standard fuse rating Min. 16A)
6. Select wire size based on the larger value of MCA or TOCA
7. Instead of fuse, use circuit breaker

2 Specifications



ELECTRICAL DATA

RYP125B7

Unit combination		Power supply				Compressor		OFM		IFM		
Indoor unit	Outdoor unit	Hz-Volts	Voltage range	MCA	TOCA	MFA	LRA	RLA	KW	FLA	KW	FLA
FHYCP125/FUYYP125	RYP125B7W1	50-400/230	Max. 50Hz-456V/264V Min. 50Hz-342V/198V	12.7	16.0	20	57.3	8.1	0.085 + 0.08	0.84 + 0.7	0.09	1.0
FHYP125	RYP125B7W1	50-400/230		12.4	15.7	20	57.3	8.1	0.085 + 0.08	0.84 + 0.7	0.13	0.7
FDYP125	RYP125B7W1	50-400/230		15.9	19.2	20	57.3	8.1	0.085 + 0.08	0.84 + 0.7	0.5	4.2
FHYBP125	RYP125B7W1	50-400/230		13.1	16.4	20	57.3	8.1	0.085 + 0.08	0.84 + 0.7	0.225	1.4

3TW23279-2

SYMBOLS

MCA : Min. Circuit Amps
 TOCA : Total Over Current Amps
 MFA : Max. Fuse Amps (see note 7)
 LRA : Locked Rotor Amps
 RLA : Rated Load Amps (A)
 OFM : Outdoor Fan Motor
 IFM : Indoor Fan Motor
 FLA : Full Load Amps
 KW : Rated motor output (W)

NOTES

1. RLA is based on the following conditions:
 Indoor temp.: 27°CDB/19,5°CWB
 Outdoor temp. : 35°CDB
2. TOCA means the total value of each OC set
3. Voltage range
 Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed operation range limits
4. Maximum allowable voltage unbalance between phases is 2%.
5. MCA/MFA
 $MCA = 1,25 \times RLA + \text{all FLA}$, $MFA = < 2,25 \times RLA + \text{all FLA}$
 (next lower standard fuse rating Min. 16A)
6. Select wire size based on the larger value of MCA or TOCA
7. Instead of fuse, use circuit breaker

RYP200-250B7

Unit combination		Power supply				Compressor		OFM		IFM	
Indoor unit	Outdoor unit	Hz-Volts	Voltage range	MCA	MFA	LRA	RLA	kW	FLA	kW	FLA
FDYP2507V1	RYP250B7W1	50-400	Max. 50Hz-440V Min. 50Hz-440V	22.9	32 (Indoor) + 16 (Outdoor)	108	16.0	0.19 + 0.23	1.28 + 1.43	1000	7.6

3TW23611-2

SYMBOLS

MCA : Min. Circuit Amps
 MFA : Max. Fuse Amps
 LRA : Locked Rotor Amps
 RLA : Rated Load Amps (A)
 OFM : Outdoor Fan Motor
 IFM : Indoor Fan Motor
 FLA : Full Load Amps
 KW : Rated motor output (W)

NOTES

1. RLA is based on the following conditions:
 Indoor temp.: 27°CDB/19.0°CWB
 Outdoor temp. : 35°CDB
2. Voltage range
 Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed operation range limits
3. Maximum allowable voltage unbalance between phases is 2%.
4. MCA/MFA
 $MCA = 1.25 \times RLA + \text{ea FLA}$
 $MFA = < 2.25 \times RLA + \text{ea FLA}$
 (next lower standard fuse rating min 16A)
5. Select wire size based on the larger value of MCA or TOCA
6. Instead of fuse, use circuit breaker

3 Capacity tables



RY35EAZ7V1 + FHY35 or FHYC35 or FHYB35

Model	FHY	FHYB	FHYC
AFR	13	11.5	14
BF	0.15	0.15	0.16

Cooling capacity

230V [50Hz]

Indoor		Outdoor temperature (°C)																	
EWB	EDB	20			25			32			35			40			43		
(°C)	(°C)	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
12.0	18.0	3.50	2.44	1.13	3.35	2.37	1.22	3.14	2.27	1.36	3.05	2.22	1.41	2.90	2.15	1.51	2.72	2.07	1.63
14.0	20.0	3.66	2.47	1.15	3.51	2.40	1.25	3.30	2.30	1.38	3.21	2.26	1.44	3.06	2.19	1.54	2.88	2.10	1.65
16.0	22.0	3.82	2.50	1.18	3.67	2.43	1.28	3.46	2.33	1.41	3.37	2.29	1.47	3.22	2.22	1.57	3.04	2.13	1.68
18.0	25.0	3.97	2.54	1.21	3.82	2.47	1.30	3.61	2.37	1.44	3.52	2.32	1.50	3.37	2.25	1.59	3.19	2.17	1.71
19.0	27.0	4.05	2.55	1.22	3.90	2.48	1.32	3.69	2.38	1.45	3.60	2.34	1.51	3.45	2.27	1.61	3.27	2.18	1.72
22.0	30.0	4.29	2.60	1.26	4.14	2.53	1.36	3.93	2.43	1.49	3.84	2.39	1.55	3.69	2.32	1.65	3.51	2.23	1.76
24.0	32.0	4.44	2.64	1.29	4.29	2.57	1.39	4.08	2.47	1.52	3.99	2.42	1.58	3.84	2.35	1.67	3.66	2.27	1.79

3

SYMBOLS

AFR:	Air flow rate	(m ³ /min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total cooling/heating capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)
	(comp.+indoor+outdoor fan motor)	

Caution:
TC and SHC are shown by kW

NOTES

- Ratings shown are net capacities which include a deduction for indoor fan motor heat
- Shows nominal capacities
- SHC is based on each EWB and EDB
SHC* = SHC correction for other dry bulb
SHC* = 0.34 x 60 x AFR (m³/min) x (DB-EDB)/1000.
Add SHC* to SHC if SHC > TC, then TC equal SHC
- Direct interpolation is permissible Do not extrapolate.
- Capacities are based on the following conditions:
Corresponding refrigerant piping length: 7.5 m
Level difference: 0 m
- Add the following correction value to power input (kW) of each unit

Model	FHYB
35	0.13

RY35EAZ7V1 + FHY35 or FHYC35 or FHYB35

Model	FHY	FHYB	FHYC
AFR	13	11.5	14

Heating capacity

230V [50Hz]

Indoor		Outdoor temperature (°C)											
EWB	EDB	-10		-6		0		6		10		15	
°C	°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
9.0	16.0	2.59	1.23	3.08	1.28	3.58	1.34	4.17	1.41	4.57	1.45	5.06	1.51
11.0	18.0	2.55	1.25	3.05	1.31	3.54	1.37	4.14	1.43	4.53	1.48	5.02	1.53
12.0	20.0	2.52	1.28	3.01	1.34	3.51	1.39	4.10	1.46	4.50	1.51	4.99	1.56
13.0	21.0	2.50	1.29	3.00	1.35	3.49	1.41	4.08	1.47	4.48	1.52	4.97	1.57
14.0	22.0	2.48	1.31	2.98	1.36	3.47	1.42	4.07	1.49	4.46	1.53	4.95	1.59
15.0	24.0	2.45	1.33	2.94	1.39	3.44	1.45	4.03	1.51	4.43	1.56	4.92	1.62

3TW01322-1F

SYMBOLS

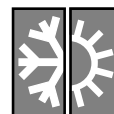
AFR:	Air flow rate	(m ³ /min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total cooling/heating capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)
	(comp.+indoor+outdoor fan motor)	

Caution:
TC is shown by kW

NOTES

- Ratings shown are net capacities which include a deduction for indoor fan motor heat
- Shows nominal capacities
- Capacities are based on the following conditions:
Corresponding refrigerant piping length: 7.5 m
Level difference: 0 m
outdoor air : 85 % RH. however, the condition on nominal capacity is 7° CDB/6° CWB
- Direct interpolation is permissible Do not extrapolate.

3 Capacity tables



RY45EAZ7V1 + FHY45 or FHYC45 or FHYB45

Cooling capacity

230V [50Hz]

Model	FHY	FHYC	FHYB
AFR	13	14	14
BF	0.16	0.12	0.16

Indoor		Outdoor temperature (°C)																	
EWB	EDB	20			25			32			35			40			43		
(°C)	(°C)	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
12.0	18.0	4.57	3.21	1.41	4.36	3.13	1.57	4.06	3.03	1.80	3.94	2.98	1.90	3.73	2.91	2.06	3.48	2.82	2.26
14.0	20.0	4.84	3.27	1.45	4.63	3.19	1.61	4.34	3.09	1.84	4.21	3.04	1.94	4.00	2.97	2.10	3.75	2.88	2.30
16.0	22.0	5.12	3.33	1.49	4.91	3.25	1.65	4.61	3.15	1.88	4.49	3.10	1.98	4.28	3.03	2.14	4.03	2.94	2.34
18.0	25.0	5.39	3.39	1.53	5.18	3.31	1.69	4.89	3.21	1.92	4.76	3.16	2.02	4.55	3.09	2.18	4.30	3.00	2.38
19.0	27.0	5.53	3.42	1.55	5.32	3.34	1.71	5.03	3.24	1.94	4.90	3.19	2.04	4.69	3.12	2.20	4.44	3.03	2.40
22.0	30.0	5.94	3.51	1.61	5.73	3.43	1.77	5.44	3.33	2.00	5.31	3.28	2.10	5.10	3.21	2.26	4.85	3.12	2.46
24.0	32.0	6.22	3.57	1.65	6.01	3.49	1.81	5.71	3.39	2.04	5.59	3.34	2.14	5.38	3.27	2.30	5.13	3.18	2.50

SYMBOLS

AFR:	Air flow rate	(m ³ /min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total cooling/heating capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)
	(comp.+indoor+outdoor fan motor)	

Caution:
TC and SHC are shown by kW

NOTES

- Ratings shown are net capacities which include a deduction for indoor fan motor heat
- Shows nominal capacities
- SHC is based on each EWB and EDB
SHC* = SHC correction for other dry bulb
SHC* = 0.34 x 60 x AFR (m³/min) x (DB-EDB)/1000.
Add SHC* to SHC if SHC > TC, then TC equal SHC
- Direct interpolation is permissible Do not extrapolate.
- Capacities are based on the following conditions:
Corresponding refrigerant piping length: 7.5 m
Level difference: 0 m
- Add the following correction value to power input (kW) of each unit

Model	FHYB
45	0.05

RY45EAZ7V1 + FHY45 or FHYC45 or FHYB45

Heating capacity

230V [50Hz]

Model	FHY	FHYC	FHYB
AFR	14	14	14

Indoor		Outdoor temperature (°C)											
EWB	EDB	-10		-6		0		6		10		15	
°C	°C	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
9.0	16.0	3.61	1.62	4.22	1.69	4.83	1.76	5.56	1.85	6.05	1.90	6.65	1.97
11.0	18.0	3.58	1.65	4.19	1.72	4.80	1.79	5.53	1.88	6.02	1.94	6.62	2.01
12.0	20.0	3.55	1.68	4.16	1.75	4.77	1.83	5.50	1.91	5.99	1.97	6.60	2.04
13.0	21.0	3.54	1.70	4.15	1.77	4.75	1.84	5.49	1.93	5.97	1.98	6.58	2.05
14.0	22.0	3.52	1.72	4.13	1.79	4.74	1.86	5.47	1.94	5.96	2.00	6.57	2.07
15.0	24.0	3.49	1.75	4.10	1.82	4.71	1.89	5.44	1.97	5.93	2.03	6.54	2.10

3TW01332-1D

SYMBOLS

AFR:	Air flow rate	(m ³ /min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total cooling/heating capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)
	(comp.+indoor+outdoor fan motor)	

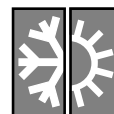
Caution:
TC is shown by kW

NOTES

- Ratings shown are net capacities which include a deduction for indoor fan motor heat
- Shows nominal capacities
- Capacities are based on the following conditions
Corresponding refrigerant piping length: 7.5 m
Level difference: 0 m
outdoor air : 85 % RH. however, the condition on nominal capacity is 7° CDB/6° CWB
- Direct interpolation is permissible Do not extrapolate.
- Add the following correction value to power input (kW) of each unit

Model	FHYB
45	0.06

3 Capacity tables



RYP(71~100)B7V1 + FAYP(71~100)BV1
RYP(71~100)B7W1

Cooling capacity

V1: 1~230V [50Hz]
W1: 3~400V [50Hz]

Outdoor	Indoor		Outdoor temperature (°CDB)																	
	EWB (°C)	EDB (°C)	20			25			32			35			40			46		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
71	12.0	18.0	6.2	4.9	1.86	6.1	4.8	2.12	5.7	4.7	2.30	5.5	4.6	2.47	5.3	4.5	2.74	4.9	4.2	3.00
	14.0	20.0	6.6	4.9	1.94	6.5	4.8	2.21	6.0	4.7	2.39	5.9	4.6	2.47	5.5	4.5	2.74	5.3	4.2	3.00
	16.0	22.0	7.2	5.0	1.94	7.0	4.9	2.21	6.5	4.8	2.39	6.3	4.7	2.56	6.0	4.6	2.83	5.5	4.3	3.09
	18.0	25.0	7.7	5.2	2.03	7.5	5.0	2.21	7.2	4.9	2.47	6.8	4.8	2.65	6.4	4.6	2.83	6.0	4.5	3.18
	19.0	27.0	8.0	5.3	2.03	7.7	5.2	2.21	7.3	5.0	2.47	7.1	4.8	2.65	6.6	4.7	2.92	6.2	4.6	3.18
	19.5	27.0	8.0	5.3	2.03	7.9	5.2	2.21	7.4	5.0	2.47	7.2	4.8	2.65	6.7	4.7	2.92	6.3	4.6	3.18
	22.0	30.0	8.7	5.4	2.12	8.5	5.3	2.30	8.0	5.2	2.56	7.9	4.9	2.74	7.4	4.8	2.92	6.8	4.6	3.27
	24.0	32.0	9.4	5.4	2.12	9.1	5.3	2.30	8.6	5.2	2.65	8.4	5.0	2.74	8.0	4.8	3.00	7.4	4.6	3.36
100	12.0	18.0	8.3	7.2	2.49	8.3	7.1	2.77	8.1	6.9	3.14	7.8	6.8	3.33	7.5	6.4	3.69	6.9	6.2	4.06
	14.0	20.0	8.9	7.2	2.59	8.8	7.1	2.77	8.6	6.9	3.14	8.3	6.8	3.33	7.8	6.4	3.69	7.5	6.2	4.06
	16.0	22.0	10.1	7.3	2.59	9.8	7.2	2.86	9.1	7.0	3.23	8.9	6.9	3.42	8.4	6.5	3.79	7.8	6.3	4.16
	18.0	25.0	10.8	7.6	2.68	10.5	7.5	2.86	9.8	7.1	3.23	9.6	7.0	3.42	9.0	6.8	3.79	8.3	6.4	4.25
	19.0	27.0	11.1	7.7	2.68	10.8	7.6	2.96	10.1	7.2	3.33	10.0	7.1	3.51	9.4	6.9	3.88	8.6	6.5	4.34
	19.5	27.0	11.2	7.7	2.68	11.0	7.6	2.96	10.3	7.2	3.33	10.1	7.1	3.51	9.5	6.9	3.88	8.8	6.5	4.34
	22.0	30.0	12.2	7.8	2.77	11.8	7.7	2.96	11.2	7.3	3.42	11.0	7.2	3.60	10.4	7.1	3.97	9.6	6.8	4.43
	24.0	32.0	13.0	7.9	2.86	12.7	7.8	3.05	11.9	7.5	3.51	11.7	7.3	3.69	11.1	7.2	4.06	10.3	6.9	4.53

3TW23312-6

SYMBOLS

AFR:	Air flow rate	(m ³ /min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
DB*:	Dry bulb temp.	(°CDB)
TC:	Total cooling capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)
	(comp.+indoor+outdoor fan motor)	

Caution:
TC and SHC are shown by kW

NOTES

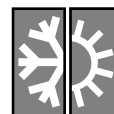
- Ratings shown are net capacities. Influence of fan motor heat is included.
- Shows nominal capacities
- SHC is based on each EWB and EDB
SHC* = SHC correction for other dry bulb
= 0.29 x 60 x AFR(m³/min) x (1-BF) x (DB°-EDB)/860
Add SHC* to SHC if SHC > TC, then TC equal SHC
- Direct interpolation is permissible Do not extrapolate.
- Capacities are based on the following conditions:
Corresponding refrigerant piping length: 7.5 m
Level difference: 0 m
- Air flow rate and BF are tabulated below.

Model		FAYP
71	AFR	19
	BF	0.1
100	AFR	23
	BF	0.1

- Add the following correction value to power input (kW) of each unit

Model	PI	FAYP
71	V1	0.1
	W1	0
100	V1	0.2
	W1	0

3 Capacity tables



RYP(71~100)B7V1 + FAYP(71~100)BV1
RYP(71~100)B7W1

Heating capacity

V1: 1~230V [50Hz]
W1: 3~400V [50Hz]

Outdoor	Indoor EDB (°C)	Outdoor temperature (°CDB)											
		-10		-5		0		6		10		15	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
71	16.0	6.0	2.28	6.5	2.37	7.1	2.37	7.8	2.45	8.3	2.45	-	-
	18.0	6.0	2.28	6.5	2.37	7.1	2.45	7.7	2.54	8.3	2.54	-	-
	20.0	6.0	2.37	6.5	2.45	7.0	2.54	7.7	2.54	8.2	2.62	8.9	2.70
	21.0	6.0	2.45	6.5	2.45	7.0	2.54	7.7	2.62	8.2	2.70	8.9	2.79
	22.0	6.0	2.45	6.5	2.54	7.0	2.62	7.7	2.70	8.2	2.70	8.8	2.79
100	24.0	6.0	2.54	6.5	2.62	7.0	2.70	7.6	2.79	8.2	2.79	8.8	2.87
	16.0	8.4	3.37	9.1	3.47	10.0	3.58	11.0	3.68	11.6	3.79	-	-
	18.0	8.3	3.47	9.0	3.58	10.0	3.68	10.9	3.79	11.6	3.89	-	-
	20.0	8.3	3.58	9.0	3.68	9.8	3.79	10.8	3.89	11.5	4.00	12.5	4.11
	21.0	8.3	3.68	8.9	3.79	9.8	3.89	10.8	4.00	11.5	4.11	12.5	4.21
	22.0	8.3	3.79	8.9	3.89	9.8	4.00	10.8	4.11	11.5	4.21	12.4	4.32
	24.0	8.2	3.89	8.9	4.00	9.6	4.11	10.6	4.21	11.3	4.32	12.4	4.42

3TW23312-13

SYMBOLS

AFR:	Air flow rate	(m ³ /min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
DB*:	Dry bulb temp.	(°CDB)
TC:	Total cooling capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)
	(comp.+indoor+outdoor fan motor)	

Caution:
TC is shown by kW

NOTES

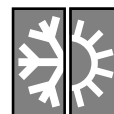
- Ratings shown are net capacities. Influence of fan motor heat is included.
- Shows nominal capacities
- Capacities are based on the following conditions:
Outdoor air : 85 % RH. however, the condition on nominal capacity is 7° CDB/6° CWB (heating)
Corresponding refrigerant piping length: 7.5 m
Level difference: 0 m
- Direct interpolation is permissible Do not extrapolate.
- Air flow rate and BF are tabulated below.

Model		FAYP
71	AFR	19
	BF	0.1
100	AFR	23
	BF	0.1

- Add the following correction value to power input (kW) of each unit

Model	PI	FAYP
71	V1	0.2
	W1	0
100	V1	0.3
	W1	0

3 Capacity tables



RYP71B7V1 + FHYKP71BV1
RYP71B7W1

Cooling capacity

V1: 1-230V [50Hz]
W1: 3-400V [50Hz]

Outdoor	Indoor		Outdoor temperature (°CDB)																	
	EWB (°C)	EDB (°C)	20			25			32			35			40			46		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
71	12.0	18.0	6.2	4.9	1.83	6.1	4.8	2.10	5.7	4.7	2.27	5.5	4.6	2.45	5.3	4.5	2.71	4.9	4.2	2.97
	14.0	20.0	6.6	4.9	1.92	6.5	4.8	2.18	6.0	4.7	2.36	5.9	4.6	2.45	5.5	4.5	2.71	5.3	4.2	2.97
	16.0	22.0	7.2	5.0	1.92	7.0	4.9	2.18	6.5	4.8	2.36	6.3	4.7	2.53	6.0	4.6	2.79	5.5	4.3	3.06
	18.0	25.0	7.7	5.2	2.01	7.5	5.0	2.18	7.2	4.9	2.45	6.8	4.8	2.62	6.4	4.6	2.79	6.0	4.5	3.14
	19.0	27.0	8.0	5.3	2.01	7.7	5.2	2.18	7.3	5.0	2.45	7.1	4.8	2.62	6.6	4.7	2.88	6.2	4.6	3.14
	19.5	27.0	8.0	5.3	2.01	7.9	5.2	2.18	7.4	5.0	2.45	7.2	4.8	2.62	6.7	4.7	2.88	6.3	4.6	3.14
	22.0	30.0	8.7	5.4	2.10	8.5	5.3	2.27	8.0	5.2	2.53	7.9	4.9	2.71	7.4	4.8	2.88	6.8	4.6	3.23
	24.0	32.0	9.4	5.4	2.10	9.1	5.3	2.27	8.6	5.2	2.62	8.4	5.0	2.71	8.0	4.8	2.97	7.4	4.6	3.32

3TW23312-7

SYMBOLS

AFR:	Air flow rate	(m ³ /min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
DB*:	Dry bulb temp. (°CDB)	(°CDB)
TC:	Total cooling capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)
	(comp.+indoor+outdoor fan motor)	

Caution:
TC and SHC are shown by kW

NOTES

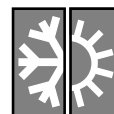
- Ratings shown are net capacities. Influence of fan motor heat is included.
- Shows nominal capacities
- SHC is based on each EWB and EDB
SHC* = SHC correction for other dry bulb
= 0.29 x 60 x AFR(m³/min) x (1-BF) x (DB°-EDB)/860
Add SHC* to SHC if SHC > TC, then TC equal SHC
- Direct interpolation is permissible Do not extrapolate.
- Capacities are based on the following conditions:
Corresponding refrigerant piping length: 7.5 m
Level difference: 0 m
- Air flow rate and BF are tabulated below.

Model		FHYKP
71	AFR	17
	BF	0.07

- Add the following correction value to power input (kW) of each unit

Model	PI	FHYKP
71	V1	0.2
	W1	0

3 Capacity tables



RYP71B7V1 + FHYKP71BV1
RYP71B7W1

Heating capacity

V1: 1~230V [50Hz]
W1: 3~400V [50Hz]

Outdoor	Indoor EDB (°C)	Outdoor temperature (°CDB)											
		-10		-5		0		6		10		15	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
71	16.0	6.0	2.33	6.5	2.41	7.1	2.41	7.8	2.50	8.3	2.50	-	-
	18.0	6.0	2.33	6.5	2.41	7.1	2.50	7.7	2.58	8.3	2.58	-	-
	20.0	6.0	2.41	6.5	2.50	7.0	2.58	7.7	2.58	8.2	2.67	8.9	2.76
	21.0	6.0	2.50	6.5	2.50	7.0	2.58	7.7	2.67	8.2	2.76	8.9	2.84
	22.0	6.0	2.50	6.5	2.58	7.0	2.67	7.7	2.76	8.2	2.76	8.8	2.84
	24.0	6.0	2.58	6.5	2.67	7.0	2.76	7.6	2.84	8.2	2.84	8.8	2.93

3TW23312-14

3

SYMBOLS

AFR:	Air flow rate	(m ³ /min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
DB*:	Dry bulb temp. (°CDB)	(°CDB)
TC:	Total cooling capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)
	(comp.+indoor+outdoor fan motor)	

Caution:
TC is shown by kW

NOTES

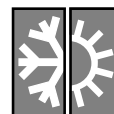
- Ratings shown are net capacities. Influence of fan motor heat is included.
- Shows nominal capacities
- Capacities are based on the following conditions:
Outdoor air : 85 % RH. however, the condition on nominal capacity is 7° CDB/6° CWB (heating)
Corresponding refrigerant piping length: 7.5 m
Level difference: 0 m
- Direct interpolation is permissible Do not extrapolate.
- Air flow rate and BF are tabulated below.

Model		FHYKP
71	AFR	17
	BF	0.07

- Add the following correction value to power input (kW) of each unit

Model	PI	FHYKP
71	V1	0.1
	W1	0

3 Capacity tables



RYP(71~100)B7V1 + FHYCP(71~125)B7V1
RYP(71~125)B7W1

Cooling capacity

V1: 1~230V [50Hz]
W1: 3~400V [50Hz]

Outdoor	Indoor		Outdoor temperature (°CDB)																	
	EWB (°C)	EDB (°C)	20			25			32			35			40			46		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
71	12.0	18.0	6.2	4.8	1.81	6.1	4.7	2.06	5.7	4.6	2.24	5.5	4.5	2.41	5.3	4.4	2.67	4.9	4.1	2.92
	14.0	20.0	6.6	4.8	1.89	6.5	4.7	2.15	6.0	4.6	2.32	5.9	4.5	2.41	5.5	4.4	2.67	5.3	4.1	2.92
	16.0	22.0	7.2	4.9	1.89	7.0	4.8	2.15	6.5	4.7	2.32	6.3	4.6	2.49	6.0	4.5	2.75	5.5	4.2	3.01
	18.0	25.0	7.7	5.1	1.98	7.5	4.9	2.15	7.2	4.8	2.41	6.8	4.7	2.58	6.4	4.5	2.75	6.0	4.4	3.10
	19.0	27.0	8.0	5.2	1.98	7.7	5.1	2.15	7.3	4.9	2.41	7.1	4.7	2.58	6.6	4.6	2.84	6.2	4.5	3.10
	19.5	27.0	8.0	5.2	1.98	7.9	5.1	2.15	7.4	4.9	2.41	7.2	4.7	2.58	6.7	4.6	2.84	6.3	4.5	3.10
	22.0	30.0	8.7	5.3	2.06	8.5	5.2	2.24	8.0	5.1	2.49	7.9	4.8	2.67	7.4	4.7	2.84	6.8	4.5	3.18
24.0	32.0	9.4	5.3	2.06	9.1	5.2	2.24	8.6	5.1	2.58	8.4	4.9	2.67	8.0	4.7	2.92	7.4	4.5	3.27	
100	12.0	18.0	8.3	7.0	2.52	8.3	6.9	2.80	8.1	6.7	3.18	7.8	6.6	3.36	7.5	6.2	3.74	6.9	6.0	4.11
	14.0	20.0	8.9	7.0	2.62	8.8	6.9	2.80	8.6	6.7	3.18	8.3	6.6	3.36	7.8	6.2	3.74	7.5	6.0	4.11
	16.0	22.0	10.1	7.1	2.62	9.8	7.0	2.90	9.1	6.8	3.27	8.9	6.7	3.46	8.4	6.3	3.83	7.8	6.1	4.20
	18.0	25.0	10.8	7.4	2.71	10.5	7.3	2.90	9.8	6.9	3.27	9.6	6.8	3.46	9.0	6.6	3.83	8.3	6.2	4.30
	19.0	27.0	11.1	7.5	2.71	10.8	7.4	2.99	10.1	7.0	3.36	10.0	6.9	3.55	9.4	6.7	3.92	8.6	6.3	4.39
	19.5	27.0	11.2	7.5	2.71	11.0	7.4	2.99	10.3	7.0	3.36	10.1	6.9	3.55	9.5	6.7	3.92	8.8	6.3	4.39
	22.0	30.0	12.2	7.6	2.80	11.8	7.5	2.99	11.2	7.1	3.46	11.0	7.0	3.64	10.4	6.9	4.02	9.6	6.6	4.48
24.0	32.0	13.0	7.7	2.90	12.7	7.6	3.08	11.9	7.3	3.55	11.7	7.1	3.74	11.1	7.0	4.11	10.3	6.7	4.58	
125	12.0	18.0	11.1	9.1	3.39	10.8	8.8	3.68	10.0	8.3	3.98	9.7	8.2	4.28	9.2	8.0	4.68	8.6	7.6	5.38
	14.0	20.0	11.8	9.1	3.48	11.4	8.8	3.68	10.7	8.3	4.08	10.4	8.2	4.38	9.8	8.0	4.78	9.2	7.6	5.38
	16.0	22.0	12.7	9.2	3.48	12.1	8.9	3.78	11.4	8.4	4.08	11.1	8.3	4.48	10.4	8.1	4.88	9.7	7.7	5.48
	18.0	25.0	13.3	9.5	3.58	13.0	9.1	3.78	12.1	8.7	4.18	11.8	8.6	4.58	11.2	8.3	4.98	10.4	8.0	5.48
	19.0	27.0	13.6	9.6	3.68	13.3	9.1	3.88	12.7	8.8	4.28	12.2	8.6	4.58	11.5	8.4	5.08	10.8	8.1	5.58
	19.5	27.0	13.8	9.6	3.68	13.5	9.1	3.88	12.8	8.8	4.28	12.4	8.7	4.58	11.7	8.4	5.08	11.0	8.1	5.58
	22.0	30.0	15.1	9.7	3.78	14.6	9.4	3.88	13.7	9.0	4.38	13.4	8.9	4.68	12.9	8.7	5.18	12.0	8.3	5.77
24.0	32.0	15.9	9.8	3.78	15.5	9.5	3.98	14.6	9.1	4.48	14.3	9.0	4.78	13.6	8.8	5.28	12.9	8.6	5.87	

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SYMBOLS

AFR:	Air flow rate	(m ³ /min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
DB*:	Dry bulb temp. (°CDB)	(°CDB)
TC:	Total cooling capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)
	(comp.+indoor+outdoor fan motor)	

Caution:
TC and SHC are shown by kW

NOTES

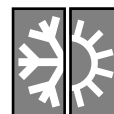
- Ratings shown are net capacities. Influence of fan motor heat is included.
- Shows nominal capacities
- SHC is based on each EWB and EDB
SHC* = SHC correction for other dry bulb
= 0.29 x 60 x AFR(m³/min) x (1-BF) x (DB°-EDB)/860
Add SHC* to SHC if SHC > TC, then TC equal SHC
- Direct interpolation is permissible Do not extrapolate.
- Capacities are based on the following conditions:
Corresponding refrigerant piping length: 7.5 m
Level difference: 0 m
- Air flow rate and BF are tabulated below.

Model		FHYCP
71	AFR	19
	BF	0.1
100	AFR	28
	BF	0.16
125	AFR	33
	BF	0.07

- Add the following correction value to power input (kW) of each unit

Model		FHYCP
71	V1	0.04
	W1	0.00
100	V1	0.22
	W1	0.00
125	W1	0.00

3 Capacity tables



RYP(71~100)B7V1 + FHYCP(71~125)B7V1
RYP(71~125)B7W1

Heating capacity

V1: 1~230V [50Hz]
W1: 3~400V [50Hz]

Outdoor	Indoor EDB (°C)	Outdoor temperature (°CDB)											
		-10		-5		0		6		10		15	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
71	16.0	6.0	2.28	6.5	2.37	7.1	2.37	7.8	2.45	8.3	2.45	-	-
	18.0	6.0	2.28	6.5	2.37	7.1	2.45	7.7	2.54	8.3	2.54	-	-
	20.0	6.0	2.37	6.5	2.45	7.0	2.54	7.7	2.54	8.2	2.62	8.9	2.70
	21.0	6.0	2.45	6.5	2.45	7.0	2.54	7.7	2.62	8.2	2.70	8.9	2.79
	22.0	6.0	2.45	6.5	2.54	7.0	2.62	7.7	2.70	8.2	2.70	8.8	2.79
24.0	6.0	2.54	6.5	2.62	7.0	2.70	7.6	2.79	8.2	2.79	8.8	2.87	
100	16.0	8.7	3.12	9.5	3.21	10.3	3.31	11.4	3.41	12.1	3.51	-	-
	18.0	8.6	3.21	9.4	3.31	10.3	3.41	11.3	3.51	12.1	3.60	-	-
	20.0	8.6	3.31	9.4	3.41	10.1	3.51	11.2	3.60	12.0	3.70	12.9	3.80
	21.0	8.6	3.41	9.3	3.51	10.1	3.60	11.2	3.70	11.9	3.80	12.9	3.89
	22.0	8.6	3.51	9.3	3.60	10.1	3.70	11.2	3.80	11.9	3.89	12.8	3.99
24.0	8.5	3.60	9.3	3.70	9.9	3.80	11.0	3.89	11.7	3.99	12.8	4.09	
125	16.0	11.5	4.10	12.5	4.31	13.4	4.41	14.7	4.51	15.7	4.72	-	-
	18.0	11.5	4.20	12.5	4.41	13.4	4.51	14.6	4.72	15.6	4.82	-	-
	20.0	11.5	4.31	12.3	4.51	13.4	4.61	14.6	4.82	15.6	5.02	17.0	5.13
	21.0	11.5	4.41	12.3	4.61	13.4	4.82	14.3	4.57	15.5	5.02	16.7	5.23
	22.0	11.5	4.51	12.3	4.72	13.4	4.82	14.6	5.02	15.5	5.13	16.7	5.33
24.0	11.3	4.61	12.3	4.82	13.3	5.02	14.5	5.13	15.5	5.33	16.4	5.54	

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SYMBOLS

AFR:	Air flow rate	(m ³ /min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
DB*:	Dry bulb temp. (°CDB)	(°CDB)
TC:	Total cooling capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)
	(comp.+indoor+outdoor fan motor)	

Caution:
TC is shown by kW

NOTES

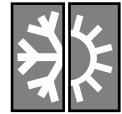
- Ratings shown are net capacities. Influence of fan motor heat is included.
- Shows nominal capacities
- Capacities are based on the following conditions:
Outdoor air : 85 % RH. however, the condition on nominal capacity is 7° CDB/6° CWB (heating)
Corresponding refrigerant piping length: 7.5 m
Level difference: 0 m
- Direct interpolation is permissible Do not extrapolate.
- Air flow rate and BF are tabulated below.

Model		FHYCP
71	AFR	19
	BF	0.1
100	AFR	28
	BF	0.16
125	AFR	33
	BF	0.07

- Add the following correction value to power input (kW) of each unit

Model	PI	FHYCP
71	V1	0.04
	W1	0
100	V1	0.22
	W1	0
125	W1	0

3 Capacity tables



RYP(71~100)B7V1 + FHYBP(71~125)B7V1
RYP(71~125)B7W1

Cooling capacity

V1: 1~230V [50Hz]
W1: 3~400V [50Hz]

Outdoor	Indoor		Outdoor temperature (°CDB)																	
	EWB (°C)	EDB (°C)	20			25			32			35			40			46		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
71	12.0	18.0	6.2	4.8	1.89	6.1	4.7	2.16	5.7	4.6	2.34	5.5	4.5	2.52	5.3	4.4	2.79	4.9	4.1	3.06
	14.0	20.0	6.6	4.8	1.98	6.5	4.7	2.25	6.0	4.6	2.43	5.9	4.5	2.52	5.5	4.4	2.79	5.3	4.1	3.06
	16.0	22.0	7.2	4.9	1.98	7.0	4.8	2.25	6.5	4.7	2.43	6.3	4.6	2.61	6.0	4.5	2.88	5.5	4.2	3.15
	18.0	25.0	7.7	5.1	2.07	7.5	4.9	2.25	7.2	4.8	2.52	6.8	4.7	2.70	6.4	4.5	2.88	6.0	4.4	3.24
	19.0	27.0	8.0	5.2	2.07	7.7	5.1	2.25	7.3	4.9	2.52	7.1	4.7	2.70	6.6	4.6	2.97	6.2	4.5	3.24
	19.5	27.0	8.0	5.2	2.07	7.9	5.1	2.25	7.4	4.9	2.52	7.2	4.7	2.70	6.7	4.6	2.97	6.3	4.5	3.24
	22.0	30.0	8.7	5.3	2.16	8.5	5.2	2.34	8.0	5.1	2.61	7.9	4.8	2.79	7.4	4.7	2.97	6.8	4.5	3.33
24.0	32.0	9.4	5.3	2.16	9.1	5.2	2.34	8.6	5.1	2.70	8.4	4.9	2.79	8.0	4.7	3.06	7.4	4.5	3.42	
100	12.0	18.0	8.3	7.0	2.52	8.3	6.9	2.80	8.1	6.7	3.18	7.8	6.6	3.36	7.5	6.2	3.74	6.9	6.0	4.11
	14.0	20.0	8.9	7.0	2.62	8.8	6.9	2.80	8.6	6.7	3.18	8.3	6.6	3.36	7.8	6.2	3.74	7.5	6.0	4.11
	16.0	22.0	10.1	7.1	2.62	9.8	7.0	2.90	9.1	6.8	3.27	8.9	6.7	3.46	8.4	6.3	3.83	7.8	6.1	4.20
	18.0	25.0	10.8	7.4	2.71	10.5	7.3	2.90	9.8	6.9	3.27	9.6	6.8	3.46	9.0	6.6	3.83	8.3	6.2	4.30
	19.0	27.0	11.1	7.5	2.71	10.8	7.4	2.99	10.1	7.0	3.36	10.0	6.9	3.55	9.4	6.7	3.92	8.6	6.3	4.39
	19.5	27.0	11.2	7.5	2.71	11.0	7.4	2.99	10.3	7.0	3.36	10.1	6.9	3.55	9.5	6.7	3.92	8.8	6.3	4.39
	22.0	30.0	12.2	7.6	2.80	11.8	7.5	2.99	11.2	7.1	3.46	11.0	7.0	3.64	10.4	6.9	4.02	9.6	6.6	4.48
24.0	32.0	13.0	7.7	2.90	12.7	7.6	3.08	11.9	7.3	3.55	11.7	7.1	3.74	11.1	7.0	4.11	10.3	6.7	4.58	
125	12.0	18.0	11.1	9.1	3.39	10.8	8.8	3.68	10.0	8.3	3.98	9.7	8.2	4.28	9.2	8.0	4.68	8.6	7.6	5.38
	14.0	20.0	11.8	9.1	3.48	11.4	8.8	3.68	10.7	8.3	4.08	10.4	8.2	4.38	9.8	8.0	4.78	9.2	7.6	5.38
	16.0	22.0	12.7	9.2	3.48	12.1	8.9	3.78	11.4	8.4	4.08	11.1	8.3	4.48	10.4	8.1	4.88	9.7	7.7	5.48
	18.0	25.0	13.3	9.5	3.58	13.0	9.1	3.78	12.1	8.7	4.18	11.8	8.6	4.58	11.2	8.3	4.98	10.4	8.0	5.48
	19.0	27.0	13.6	9.6	3.68	13.3	9.1	3.88	12.7	8.8	4.28	12.2	8.6	4.58	11.5	8.4	5.08	10.8	8.1	5.58
	19.5	27.0	13.8	9.6	3.68	13.5	9.1	3.88	12.8	8.8	4.28	12.4	8.7	4.58	11.7	8.4	5.08	11.0	8.1	5.58
	22.0	30.0	15.1	9.7	3.78	14.6	9.4	3.88	13.7	9.0	4.38	13.4	8.9	4.68	12.9	8.7	5.18	12.0	8.3	5.77
24.0	32.0	15.9	9.8	3.78	15.5	9.5	3.98	14.6	9.1	4.48	14.3	9.0	4.78	13.6	8.8	5.28	12.9	8.6	5.87	

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SYMBOLS

AFR:	Air flow rate	(m ³ /min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
DB*:	Dry bulb temp. (°CDB)	(°CDB)
TC:	Total cooling capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)
	(comp.+indoor+outdoor fan motor)	

Caution:
TC and SHC are shown by kW

NOTES

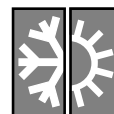
- Ratings shown are net capacities. Influence of fan motor heat is included.
- Shows nominal capacities
- SHC is based on each EWB and EDB
SHC* = SHC correction for other dry bulb
= 0.29 x 60 x AFR(m³/min) x (1-BF) x (DB°-EDB)/860
Add SHC* to SHC if SHC > TC, then TC equal SHC
- Direct interpolation is permissible Do not extrapolate.
- Capacities are based on the following conditions:
Corresponding refrigerant piping length: 7.5 m
Level difference: 0 m
- Air flow rate and BF are tabulated below.

Model		FHYBP
71	AFR	19
	BF	0.11
100	AFR	27
	BF	0.2
125	AFR	35
	BF	0.14

- Add the following correction value to power input (kW) of each unit

Model		FHYBP
71	V1	0.04
	W1	0.00
100	V1	0.17
	W1	0.00
125	W1	0.00

3 Capacity tables



RYP(71~100)B7V1 + FHYBP(71~125)B7V1
RYP(71~125)B7W1

Heating capacity

V1: 1~230V [50Hz]
W1: 3~400V [50Hz]

Outdoor	Indoor EDB (°C)	Outdoor temperature (°CDB)											
		-10		-5		0		6		10		15	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
71	16.0	6.0	2.09	6.5	2.17	7.1	2.17	7.8	2.25	8.3	2.25	-	-
	18.0	6.0	2.09	6.5	2.17	7.1	2.25	7.7	2.32	8.3	2.32	-	-
	20.0	6.0	2.17	6.5	2.25	7.0	2.32	7.7	2.32	8.2	2.40	8.9	2.48
	21.0	6.0	2.25	6.5	2.25	7.0	2.32	7.7	2.40	8.2	2.48	8.9	2.55
	22.0	6.0	2.25	6.5	2.32	7.0	2.40	7.7	2.48	8.2	2.48	8.8	2.55
24.0	6.0	2.32	6.5	2.40	7.0	2.48	7.6	2.55	8.2	2.55	8.8	2.63	
100	16.0	8.7	3.17	9.5	3.27	10.3	3.37	11.4	3.47	12.1	3.57	-	-
	18.0	8.6	3.27	9.4	3.37	10.3	3.47	11.3	3.57	12.1	3.67	-	-
	20.0	8.6	3.37	9.4	3.47	10.1	3.57	11.2	3.67	12.0	3.77	12.9	3.87
	21.0	8.6	3.47	9.3	3.57	10.1	3.67	11.2	3.77	11.9	3.87	12.9	3.97
	22.0	8.6	3.57	9.3	3.67	10.1	3.77	11.2	3.87	11.9	3.97	12.8	4.07
24.0	8.5	3.67	9.3	3.77	9.9	3.87	11.0	3.97	11.7	4.07	12.8	4.17	
125	16.0	11.4	3.65	12.4	3.83	13.4	3.92	14.6	4.02	15.5	4.20	-	-
	18.0	11.4	3.74	12.4	3.92	13.4	4.02	14.5	4.20	15.5	4.29	-	-
	20.0	11.4	3.83	12.2	4.02	13.3	4.11	14.5	4.29	15.5	4.47	16.9	4.56
	21.0	11.4	3.92	12.2	4.11	13.3	4.29	14.5	4.38	15.4	4.47	16.6	4.65
	22.0	11.4	4.02	12.2	4.20	13.3	4.29	14.5	4.47	15.4	4.56	16.6	4.75
24.0	11.3	4.11	12.2	4.29	13.2	4.47	14.4	4.56	15.4	4.75	16.3	4.93	

3TW23312-10

SYMBOLS

AFR:	Air flow rate	(m ³ /min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
DB*:	Dry bulb temp. (°CDB)	(°CDB)
TC:	Total cooling capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)
	(comp.+indoor+outdoor fan motor)	

Caution:
TC is shown by kW

NOTES

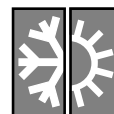
- Ratings shown are net capacities. Influence of fan motor heat is included.
- Shows nominal capacities
- Capacities are based on the following conditions:
Outdoor air : 85 % RH. however, the condition on nominal capacity is 7° CDB/6° CWB (heating)
Corresponding refrigerant piping length: 7.5 m
Level difference: 0 m
- Direct interpolation is permissible Do not extrapolate.
- Air flow rate and BF are tabulated below.

Model		FHYBP
71	AFR	19
	BF	0.11
100	AFR	27
	BF	0.2
125	AFR	35
	BF	0.14

- Add the following correction value to power input (kW) of each unit

Model	PI	FHYBP
71	V1	0.04
	W1	0
100	V1	0.17
	W1	0
125	W1	0

3 Capacity tables



RYP125B7W1 + FDYP125B7V1

Cooling capacity

V1: 1~230V [50Hz]
W1: 3~400V [50Hz]

Outdoor	Indoor		Outdoor temperature (°CDB)																	
	EWB (°C)	EDB (°C)	20			25			32			35			40			46		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
125	12.0	18.0	11.2	10.5	3.47	10.9	10.1	3.78	10.2	9.6	4.09	9.9	9.5	4.39	9.4	9.2	4.80	8.7	8.8	5.52
	14.0	20.0	12.0	10.5	3.58	11.6	10.1	3.78	10.9	9.6	4.19	10.6	9.5	4.50	10.0	9.2	4.90	9.4	8.8	5.52
	16.0	22.0	12.9	10.6	3.58	12.3	10.2	3.88	11.6	9.7	4.19	11.2	9.6	4.60	10.6	9.4	5.01	9.9	8.9	5.62
	18.0	25.0	13.6	10.9	3.68	13.2	10.5	3.88	12.3	10.0	4.29	12.0	9.9	4.70	11.3	9.6	5.11	10.6	9.2	5.62
	19.0	27.0	13.9	11.0	3.78	13.6	10.5	3.98	12.9	10.1	4.39	12.4	9.9	4.70	11.7	9.7	5.21	10.9	9.4	5.72
	19.5	27.0	14.0	11.0	3.78	13.8	10.5	3.98	13.0	10.1	4.39	12.6	10.0	4.70	11.9	9.7	5.21	11.1	9.4	5.72
	22.0	30.0	15.3	11.2	3.88	14.8	10.8	3.98	14.0	10.3	4.50	13.7	10.2	4.80	13.1	10.0	5.31	12.2	9.6	5.93
	24.0	32.0	16.2	11.3	3.88	15.8	10.9	4.09	14.8	10.5	4.60	14.5	10.3	4.90	13.9	10.1	5.42	13.1	9.9	6.03

3TW23402-4

SYMBOLS

AFR:	Air flow rate	(m ³ /min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
DB*:	Dry bulb temp. (°CDB)	(°CDB)
TC:	Total cooling capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)
	(comp.+indoor+outdoor fan motor)	

Caution:
TC and SHC are shown by kW

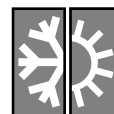
NOTES

- Ratings shown are net capacities. Influence of fan motor heat is included.
- Shows nominal capacities
- SHC is based on each EWB and EDB
 $SHC^* = SHC \text{ correction for other dry bulb} = 0.29 \times 60 \times AFR(m^3/min) \times (1-BF) \times (DB^{\circ}-EDB)/860$
 Add SHC* to SHC if SHC > TC, then TC equal SHC
- Direct interpolation is permissible Do not extrapolate.
- Capacities are based on the following conditions:
 Corresponding refrigerant piping length: Level difference:
- Air flow rate and BF are tabulated below.

7.5 m
0 m

Model		FHYBP
125	AFR	45
	BF	0.25

3 Capacity tables



RYP125B7W1 + FDYP125B7V1

Heating capacity

**V1: 1~230V [50Hz]
W1: 3~400V [50Hz]**

Outdoor	Indoor EDB (°C)	Outdoor temperature (°CDB)											
		-10		-5		0		6		10		15	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
125	16.0	11.5	3.76	12.5	3.95	13.4	4.04	14.7	4.13	15.7	4.32	-	-
	18.0	11.5	3.85	12.5	4.04	13.4	4.13	14.6	4.32	15.6	4.42	-	-
	20.0	11.5	3.95	12.3	4.13	13.4	4.23	14.6	4.42	15.6	4.60	17.0	4.70
	21.0	11.5	4.04	12.3	4.23	13.4	4.42	14.6	4.51	15.5	4.60	16.7	4.79
	22.0	11.5	4.13	12.3	4.32	13.4	4.42	14.6	4.60	15.5	4.70	16.7	4.89
	24.0	11.3	4.23	12.3	4.42	13.3	4.60	14.5	4.70	15.5	4.89	16.4	5.07

3TW23402-11

3

SYMBOLS

AFR:	Air flow rate	(m ³ /min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
DB*:	Dry bulb temp. (°CDB)	(°CDB)
TC:	Total cooling capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)
	(comp.+indoor+outdoor fan motor)	

Caution:
TC is shown by kW

NOTES

- Ratings shown are net capacities. Influence of fan motor heat is included.
- Shows nominal capacities
- Capacities are based on the following conditions:
Outdoor air : 85 % RH. however, the condition on nominal capacity is 7° CDB/6° CWB (heating)
Corresponding refrigerant piping length: 7.5 m
Level difference: 0 m
- Direct interpolation is permissible Do not extrapolate.
- Air flow rate and BF are tabulated below.

Model		FDYP
125	AFR	45
	BF	0.25

3 Capacity tables



RYP(71~100)B7V1 + FHYP(71~125)BV1
RYP(71~125)B7W1

Cooling capacity

V1: 1~230V [50Hz]
W1: 3~400V [50Hz]

Outdoor	Indoor		Outdoor temperature (°CDB)																	
	EWB (°C)	EDB (°C)	20			25			32			35			40			46		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
71	12.0	18.0	6.2	4.8	1.83	6.1	4.7	2.09	5.7	4.6	2.26	5.5	4.5	2.44	5.3	4.4	2.70	4.9	4.1	2.96
	14.0	20.0	6.6	4.8	1.91	6.5	4.7	2.18	6.0	4.6	2.35	5.9	4.5	2.44	5.5	4.4	2.70	5.3	4.1	2.96
	16.0	22.0	7.2	4.9	1.91	7.0	4.8	2.18	6.5	4.7	2.35	6.3	4.6	2.52	6.0	4.5	2.78	5.5	4.2	3.05
	18.0	25.0	7.7	5.1	2.00	7.5	4.9	2.18	7.2	4.8	2.44	6.8	4.7	2.61	6.4	4.5	2.78	6.0	4.4	3.13
	19.0	27.0	8.0	5.2	2.00	7.7	5.1	2.18	7.3	4.9	2.44	7.1	4.7	2.61	6.6	4.6	2.87	6.2	4.5	3.13
	19.5	27.0	8.0	5.2	2.00	7.9	5.1	2.18	7.4	4.9	2.44	7.2	4.7	2.61	6.7	4.6	2.87	6.3	4.5	3.13
	22.0	30.0	8.7	5.3	2.09	8.5	5.2	2.26	8.0	5.1	2.52	7.9	4.8	2.70	7.4	4.7	2.87	6.8	4.5	3.22
24.0	32.0	9.4	5.3	2.09	9.1	5.2	2.26	8.6	5.1	2.61	8.4	4.9	2.70	8.0	4.7	2.96	7.4	4.5	3.31	
100	12.0	18.0	8.3	7.0	2.57	8.3	6.9	2.86	8.1	6.7	3.24	7.8	6.6	3.43	7.5	6.2	3.81	6.9	6.0	4.19
	14.0	20.0	8.9	7.0	2.67	8.8	6.9	2.86	8.6	6.7	3.24	8.3	6.6	3.43	7.8	6.2	3.81	7.5	6.0	4.19
	16.0	22.0	10.1	7.1	2.67	9.8	7.0	2.95	9.1	6.8	3.33	8.9	6.7	3.52	8.4	6.3	3.91	7.8	6.1	4.29
	18.0	25.0	10.8	7.4	2.76	10.5	7.3	2.95	9.8	6.9	3.33	9.6	6.8	3.52	9.0	6.6	3.91	8.3	6.2	4.38
	19.0	27.0	11.1	7.5	2.76	10.8	7.4	3.05	10.1	7.0	3.43	10.0	6.9	3.62	9.4	6.7	4.00	8.6	6.3	4.48
	19.5	27.0	11.2	7.5	2.76	11.0	7.4	3.05	10.3	7.0	3.43	10.1	6.9	3.62	9.5	6.7	4.00	8.8	6.3	4.48
	22.0	30.0	12.2	7.6	2.86	11.8	7.5	3.05	11.2	7.1	3.52	11.0	7.0	3.72	10.4	6.9	4.10	9.6	6.6	4.57
24.0	32.0	13.0	7.7	2.95	12.7	7.6	3.14	11.9	7.3	3.62	11.7	7.1	3.81	11.1	7.0	4.19	10.3	6.7	4.67	
125	12.0	18.0	11.3	9.1	3.47	11.0	8.8	3.77	10.3	8.3	4.08	10.0	8.2	4.38	9.5	8.0	4.79	8.8	7.6	5.51
	14.0	20.0	12.1	9.1	3.57	11.7	8.8	3.77	10.9	8.3	4.18	10.6	8.2	4.49	10.1	8.0	4.89	9.5	7.6	5.51
	16.0	22.0	13.0	9.2	3.57	12.4	8.9	3.87	11.7	8.4	4.18	11.3	8.3	4.59	10.6	8.1	5.00	10.0	7.7	5.61
	18.0	25.0	13.7	9.5	3.67	13.3	9.1	3.87	12.4	8.7	4.28	12.1	8.6	4.69	11.4	8.3	5.10	10.6	8.0	5.61
	19.0	27.0	14.0	9.6	3.77	13.7	9.1	3.98	13.0	8.8	4.38	12.5	8.6	4.69	11.8	8.4	5.20	11.0	8.1	5.71
	19.5	27.0	14.2	9.6	3.77	13.9	9.1	3.98	13.1	8.8	4.38	12.7	8.7	4.69	12.0	8.4	5.20	11.2	8.1	5.71
	22.0	30.0	15.4	9.7	3.87	14.9	9.4	3.98	14.1	9.0	4.49	13.8	8.9	4.79	13.2	8.7	5.30	12.3	8.3	5.91
24.0	32.0	16.3	9.8	3.87	15.9	9.5	4.08	14.9	9.1	4.59	14.6	9.0	4.89	14.0	8.8	5.40	13.2	8.6	6.02	

3TW23312-1

SYMBOLS

AFR:	Air flow rate	(m ³ /min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
DB*:	Dry bulb temp. (°CDB)	(°CDB)
TC:	Total cooling capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)
	(comp.+indoor+outdoor fan motor)	

Caution:
TC and SHC are shown by kW

NOTES

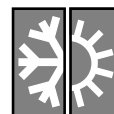
- Ratings shown are net capacities. Influence of fan motor heat is included.
- Shows nominal capacities
- SHC is based on each EWB and EDB
SHC* = SHC correction for other dry bulb
= 0.29 x 60 x AFR(m³/min) x (1-BF) x (DB°-EDB)/860
Add SHC* to SHC if SHC > TC, then TC equal SHC
- Direct interpolation is permissible Do not extrapolate.
- Capacities are based on the following conditions:
Corresponding refrigerant piping length: 7.5 m
Level difference: 0 m
- Air flow rate and BF are tabulated below.

Model		FHYP
71	AFR	17
	BF	0.1
100	AFR	24
	BF	0.14
125	AFR	30
	BF	0.13

- Add the following correction value to power input (kW) of each unit

Model		FHYP
71	V1	0.04
	W1	0.00
100	V1	0.20
	W1	0.00
125	W1	0.00

3 Capacity tables



RYP(71-100)B7V1 + FHYP(71-125)BV1
RYP(71-125)B7W1

Heating capacity

V1: 1-230V [50Hz]
W1: 3-400V [50Hz]

Outdoor	Indoor EDB (°C)	Outdoor temperature (°CDB)											
		-10		-5		0		6		10		15	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
71	16.0	6.0	2.33	6.5	2.41	7.1	2.41	7.8	2.50	8.3	2.50	-	-
	18.0	6.0	2.33	6.5	2.41	7.1	2.50	7.7	2.58	8.3	2.58	-	-
	20.0	6.0	2.41	6.5	2.50	7.0	2.58	7.7	2.58	8.2	2.67	8.9	2.76
	21.0	6.0	2.50	6.5	2.50	7.0	2.58	7.7	2.67	8.2	2.76	8.9	2.84
	22.0	6.0	2.50	6.5	2.58	7.0	2.67	7.7	2.76	8.2	2.76	8.8	2.84
24.0	6.0	2.58	6.5	2.67	7.0	2.76	7.6	2.84	8.2	2.84	8.8	2.93	
100	16.0	8.5	3.18	9.3	3.28	10.1	3.38	11.2	3.48	11.9	3.58	-	-
	18.0	8.4	3.28	9.2	3.38	10.1	3.48	11.1	3.58	11.9	3.68	-	-
	20.0	8.4	3.38	9.2	3.48	10.0	3.58	11.0	3.68	11.8	3.78	12.7	3.88
	21.0	8.4	3.48	9.1	3.58	10.0	3.68	11.0	3.78	11.7	3.88	12.7	3.98
	22.0	8.4	3.58	9.1	3.68	10.0	3.78	11.0	3.88	11.7	3.98	12.6	4.08
24.0	8.3	3.68	9.1	3.78	9.8	3.88	10.8	3.98	11.5	4.08	12.6	4.18	
125	16.0	11.1	4.42	12.0	4.64	12.9	4.75	14.1	4.86	15.0	5.08	-	-
	18.0	11.1	4.53	12.0	4.75	12.9	4.86	14.0	5.08	14.9	5.19	-	-
	20.0	11.1	4.64	11.8	4.86	12.8	4.97	14.0	5.19	14.9	5.41	16.3	5.52
	21.0	11.1	4.75	11.8	4.97	12.8	5.19	14.0	5.30	14.8	5.41	16.0	5.63
	22.0	11.1	4.86	11.8	5.08	12.8	5.19	14.0	5.41	14.8	5.52	16.0	5.74
24.0	10.9	4.97	11.8	5.19	12.7	5.41	13.9	5.52	14.8	5.74	15.8	5.96	

3TW23312-8A

SYMBOLS

AFR:	Air flow rate	(m ³ /min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
DB*:	Dry bulb temp. (°CDB)	(°CDB)
TC:	Total cooling capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)
	(comp.+indoor+outdoor fan motor)	

Caution:
TC is shown by kW

NOTES

- Ratings shown are net capacities. Influence of fan motor heat is included.
- Shows nominal capacities
- Capacities are based on the following conditions:
Outdoor air : 85 % RH. however, the condition on nominal capacity is 7° CDB/6° CWB (heating)
Corresponding refrigerant piping length: 7.5 m
Level difference: 0 m
- Direct interpolation is permissible Do not extrapolate.
- Air flow rate and BF are tabulated below.

Model		FHYP
71	AFR	17
	BF	0.10
100	AFR	24
	BF	0.14
125	AFR	30
	BF	0.13

- Add the following correction value to power input (kW) of each unit

Model	PI	FHYP
71	V1	0.04
	W1	0
100	V1	0.1
	W1	0
125	W1	0

3 Capacity tables



RYP(71~100)B7V1 + FUYP(71~125)BV1
RYP(71~125)B7W1

Cooling capacity

V1: 1~230V [50Hz]
W1: 3~400V [50Hz]

Outdoor	Indoor		Outdoor temperature (°CDB)																	
	EWB (°C)	EDB (°C)	20			25			32			35			40			46		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
71	12.0	18.0	6.2	4.9	1.85	6.1	4.8	2.11	5.7	4.7	2.29	5.5	4.6	2.46	5.3	4.5	2.73	4.9	4.2	2.99
	14.0	20.0	6.6	4.9	1.94	6.5	4.8	2.20	6.0	4.7	2.38	5.9	4.6	2.46	5.5	4.5	2.73	5.3	4.2	2.99
	16.0	22.0	7.2	5.0	1.94	7.0	4.9	2.20	6.5	4.8	2.38	6.3	4.7	2.55	6.0	4.6	2.82	5.5	4.3	3.08
	18.0	25.0	7.7	5.2	2.02	7.5	5.0	2.20	7.2	4.9	2.46	6.8	4.8	2.64	6.4	4.6	2.82	6.0	4.5	3.17
	19.0	27.0	8.0	5.3	2.02	7.7	5.2	2.20	7.3	5.0	2.46	7.1	4.8	2.64	6.6	4.7	2.90	6.2	4.6	3.17
	19.5	27.0	8.0	5.3	2.02	7.9	5.2	2.20	7.4	5.0	2.46	7.2	4.8	2.64	6.7	4.7	2.90	6.3	4.6	3.17
	22.0	30.0	8.7	5.4	2.11	8.5	5.3	2.29	8.0	5.2	2.55	7.9	4.9	2.73	7.4	4.8	2.90	6.8	4.6	3.26
24.0	32.0	9.4	5.4	2.11	9.1	5.3	2.29	8.6	5.2	2.64	8.4	5.0	2.73	8.0	4.8	2.99	7.4	4.6	3.34	
100	12.0	18.0	8.3	7.2	2.57	8.3	7.1	2.85	8.1	6.9	3.23	7.8	6.8	3.42	7.5	6.4	3.80	6.9	6.2	4.18
	14.0	20.0	8.9	7.2	2.66	8.8	7.1	2.85	8.6	6.9	3.23	8.3	6.8	3.42	7.8	6.4	3.80	7.5	6.2	4.18
	16.0	22.0	10.1	7.3	2.66	9.8	7.2	2.95	9.1	7.0	3.33	8.9	6.9	3.52	8.4	6.5	3.90	7.8	6.3	4.28
	18.0	25.0	10.8	7.6	2.76	10.5	7.5	2.95	9.8	7.1	3.33	9.6	7.0	3.52	9.0	6.8	3.90	8.3	6.4	4.37
	19.0	27.0	11.1	7.7	2.76	10.8	7.6	3.04	10.1	7.2	3.42	10.0	7.1	3.61	9.4	6.9	3.99	8.6	6.5	4.47
	19.5	27.0	11.2	7.7	2.76	11.0	7.6	3.04	10.3	7.2	3.42	10.1	7.1	3.61	9.5	6.9	3.99	8.8	6.5	4.47
	22.0	30.0	12.2	7.8	2.85	11.8	7.7	3.04	11.2	7.3	3.52	11.0	7.2	3.71	10.4	7.1	4.09	9.6	6.8	4.56
24.0	32.0	13.0	7.9	2.95	12.7	7.8	3.14	11.9	7.5	3.61	11.7	7.3	3.80	11.1	7.2	4.18	10.3	6.9	4.66	
125	12.0	18.0	11.3	9.5	3.44	11.0	9.2	3.75	10.3	8.7	4.05	10.0	8.6	4.36	9.5	8.4	4.76	8.8	8.0	5.47
	14.0	20.0	12.1	9.5	3.55	11.7	9.2	3.75	10.9	8.7	4.15	10.6	8.6	4.46	10.1	8.4	4.86	9.5	8.0	5.47
	16.0	22.0	13.0	9.6	3.55	12.4	9.3	3.85	11.7	8.8	4.15	11.3	8.7	4.56	10.6	8.5	4.96	10.0	8.1	5.57
	18.0	25.0	13.7	9.9	3.65	13.3	9.5	3.85	12.4	9.1	4.25	12.1	9.0	4.66	11.4	8.7	5.07	10.6	8.4	5.57
	19.0	27.0	14.0	10.0	3.75	13.7	9.5	3.95	13.0	9.2	4.36	12.5	9.0	4.66	11.8	8.8	5.17	11.0	8.5	5.67
	19.5	27.0	14.2	10.0	3.75	13.9	9.5	3.95	13.1	9.2	4.36	12.7	9.1	4.66	12.0	8.8	5.17	11.2	8.5	5.67
	22.0	30.0	15.4	10.2	3.85	14.9	9.8	3.95	14.1	9.4	4.46	13.8	9.3	4.76	13.2	9.1	5.27	12.3	8.7	5.88
24.0	32.0	16.3	10.3	3.85	15.9	9.9	4.05	14.9	9.5	4.56	14.6	9.4	4.86	14.0	9.2	5.37	13.2	9.0	5.98	

3TW23312-5

SYMBOLS

AFR:	Air flow rate	(m ³ /min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
DB*:	Dry bulb temp. (°CDB)	(°CDB)
TC:	Total cooling capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)
	(comp.+indoor+outdoor fan motor)	

Caution:
TC and SHC are shown by kW

NOTES

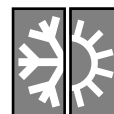
- Ratings shown are net capacities. Influence of fan motor heat is included.
- Shows nominal capacities
- SHC is based on each EWB and EDB
SHC* = SHC correction for other dry bulb
= 0.29 x 60 x AFR(m³/min) x (1-BF) x (DB°-EDB)/860
Add SHC* to SHC if SHC > TC, then TC equal SHC
- Direct interpolation is permissible Do not extrapolate.
- Capacities are based on the following conditions:
Corresponding refrigerant piping length: 7.5 m
Level difference: 0 m
- Air flow rate and BF are tabulated below.

Model		FUYP
71	AFR	19
	BF	0.07
100	AFR	29
	BF	0.07
125	AFR	32
	BF	0.07

- Add the following correction value to power input (kW) of each unit

Model		FUYP
71	V1	0.2
	W1	0
100	V1	0.3
	W1	0
125	W1	0

3 Capacity tables



RYP(71~100)B7V1 + FUYP(71~125)BV1
RYP(71~125)B7W1

Heating capacity

V1: 1~230V [50Hz]
W1: 3~400V [50Hz]

Outdoor	Indoor EDB (°C)	Outdoor temperature (°CDB)											
		-10		-5		0		6		10		15	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
71	16.0	6.0	2.26	6.5	2.35	7.1	2.35	7.8	2.43	8.3	2.43	-	-
	18.0	6.0	2.26	6.5	2.35	7.1	2.43	7.7	2.52	8.3	2.52	-	-
	20.0	6.0	2.35	6.5	2.43	7.0	2.52	7.7	2.52	8.2	2.60	8.9	2.68
	21.0	6.0	2.43	6.5	2.43	7.0	2.52	7.7	2.60	8.2	2.68	8.9	2.77
	22.0	6.0	2.43	6.5	2.52	7.0	2.60	7.7	2.68	8.2	2.68	8.8	2.77
24.0	6.0	2.52	6.5	2.60	7.0	2.68	7.6	2.77	8.2	2.77	8.8	2.85	
100	16.0	8.5	3.01	9.3	3.10	10.1	3.19	11.2	3.29	11.9	3.38	-	-
	18.0	8.4	3.10	9.2	3.19	10.1	3.29	11.1	3.38	11.9	3.48	-	-
	20.0	8.4	3.19	9.2	3.29	10.0	3.38	11.0	3.48	11.8	3.57	12.7	3.66
	21.0	8.4	3.29	9.1	3.38	10.0	3.48	11.0	3.57	11.7	3.66	12.7	3.76
	22.0	8.4	3.38	9.1	3.48	10.0	3.57	11.0	3.66	11.7	3.76	12.6	3.85
24.0	8.3	3.48	9.1	3.57	9.8	3.66	10.8	3.76	11.5	3.85	12.6	3.95	
125	16.0	11.1	4.09	12.0	4.30	12.9	4.40	14.1	4.50	15.0	4.71	-	-
	18.0	11.1	4.19	12.0	4.40	12.9	4.50	14.0	4.71	14.9	4.81	-	-
	20.0	11.1	4.30	11.8	4.50	12.8	4.60	14.0	4.81	14.9	5.01	16.3	5.11
	21.0	11.1	4.40	11.8	4.60	12.8	4.81	14.0	4.91	14.8	5.01	16.0	5.22
	22.0	11.1	4.50	11.8	4.71	12.8	4.81	14.0	5.01	14.8	5.11	16.0	5.32
24.0	10.9	4.60	11.8	4.81	12.7	5.01	13.9	5.11	14.8	5.32	15.8	5.52	

3TW23312-12

SYMBOLS

AFR:	Air flow rate	(m ³ /min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
DB*:	Dry bulb temp. (°CDB)	(°CDB)
TC:	Total cooling capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)
	(comp.+indoor+outdoor fan motor)	

Caution:
TC is shown by kW

NOTES

- Ratings shown are net capacities. Influence of fan motor heat is included.
- Shows nominal capacities
- Capacities are based on the following conditions:
Outdoor air : 85 % RH. however, the condition on nominal capacity is 7° CDB/6° CWB (heating)
Corresponding refrigerant piping length: 7.5 m
Level difference: 0 m
- Direct interpolation is permissible Do not extrapolate.
- Air flow rate and BF are tabulated below.

Model		FUYP
71	AFR	19
	BF	0.07
100	AFR	29
	BF	0.07
125	AFR	32
	BF	0.07

- Add the following correction value to power input (kW) of each unit

Model	PI	FUYP
71	V1	0.2
	W1	0
100	V1	0.3
	W1	0
125	W1	0

3 Capacity tables



RYP(200-250)B7W1 + FDYP(200-250)B7V1

Cooling capacity

V1: 1-230V [50Hz]
W1: 3-400V [50Hz]

Outdoor	Indoor		Outdoor temperature (°CDB)																	
	EWB (°C)	EDB (°C)	20			25			32			35			40			46		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
RYP200	12.0	18.0	17.5	14.8	6.49	16.8	14.3	6.98	15.8	13.7	7.83	15.4	13.4	8.23	14.8	13.0	9.02	14.1	12.6	10.08
	14.0	20.0	18.7	14.9	6.59	17.9	14.4	7.08	16.9	13.8	7.94	16.5	13.6	8.36	15.9	13.2	9.15	15.1	12.7	10.22
	16.0	22.0	20.0	15.0	6.68	19.2	14.5	7.19	18.1	13.9	8.06	17.7	13.7	8.49	17.0	13.3	9.29	16.2	12.8	10.37
	18.0	25.0	21.3	15.9	6.79	20.4	15.4	7.31	19.3	14.8	8.19	18.9	14.6	8.62	18.2	14.2	9.43	17.4	13.7	10.54
	19.0	27.0	21.9	16.8	6.84	21.1	16.3	7.37	20.0	15.7	8.26	19.5	15.5	8.69	18.8	15.1	9.51	17.9	14.6	10.62
	22.0	30.0	24.1	16.8	7.02	23.2	16.3	7.56	22.0	15.8	8.47	21.5	15.5	8.92	20.7	15.1	9.75	19.8	14.7	10.89
24.0	32.0	25.6	16.8	7.15	24.6	16.4	7.70	23.4	15.8	8.63	22.9	15.5	9.09	22.1	15.1	9.93	21.1	14.6	11.07	
RYP250	12.0	18.0	22.4	19.1	7.62	21.5	18.5	8.20	20.2	17.7	9.19	19.7	17.3	9.67	18.9	16.8	10.58	18.0	16.2	11.83
	14.0	20.0	24.0	19.2	7.73	23.0	18.6	8.31	21.7	17.8	9.32	21.2	17.5	9.82	20.3	17.0	10.73	19.4	16.4	12.00
	16.0	22.0	25.6	19.3	7.84	24.6	18.7	8.45	23.2	17.9	9.46	22.7	17.6	9.97	21.8	17.1	10.90	20.8	16.5	12.17
	18.0	25.0	27.2	20.5	7.97	26.2	19.9	8.58	24.8	19.2	9.61	24.2	18.8	10.12	23.3	18.3	11.06	22.3	17.7	12.37
	19.0	27.0	28.1	21.7	8.03	27.0	21.1	8.65	25.6	20.3	9.69	25.0	20.0	10.20	24.1	19.5	11.16	23.0	18.9	12.46
	22.0	30.0	30.9	21.6	8.24	29.7	21.1	8.87	28.2	20.3	9.94	27.6	20.0	10.47	26.5	19.5	11.45	25.4	18.9	12.78
24.0	32.0	32.8	21.7	8.39	31.6	21.1	9.03	30.0	20.4	10.13	29.4	20.0	10.67	28.3	19.5	11.65	27.1	18.9	13.00	

3TW23632-1A

SYMBOLS

AFR:	Air flow rate	(m ³ /min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
DB*:	Dry bulb temp. (°CDB)	(°CDB)
TC:	Total cooling capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)
	(comp.+indoor+outdoor fan motor)	

Caution:
TC and SHC are shown by kW

NOTES

- Ratings shown are net capacities which include a deduction for indoor fan motor heat
- Shows nominal capacities
- SHC is based on each EWB and EDB
SHC* = SHC correction for other dry bulb
= 0.29 x 60 x AFR(m³/min) x (1-BF) x (DB°-EDB)
Add SHC* to SHC if SHC > TC, then TC equal SHC
- Direct interpolation is permissible Do not extrapolate.
- Capacities are based on the following conditions:
Corresponding refrigerant piping length: 7.5 m
Level difference: 0 m
- Air flow rate and BF are tabulated below.

Model	FDYP200	FDYP250
AFR	69	89
BF	0.25	0.25

3 Capacity tables



RYP(200-250)B7W1 + FDYP(200-250)B7V1

Heating capacity

**V1: 1-230V [50Hz]
W1: 3-400V [50Hz]**

Outdoor	Indoor		Outdoor temperature (°CDB)											
	EWB (°C)	EDB (°C)	-10		-5		0		6		10		15	
			TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
RYP200	9.0	16.0	15.1	6.42	16.7	6.47	19.6	6.76	23.4	7.16	26.3	7.50	30.3	7.99
	11.0	18.0	14.8	6.58	16.6	6.65	19.5	6.95	23.2	7.37	26.1	7.72	30.1	8.23
	12.0	20.0	14.6	6.76	16.3	6.84	19.3	7.15	23.1	7.59	26.0	7.95	30.0	8.49
	13.0	21.0	14.5	6.86	16.2	6.92	19.3	7.25	23.0	7.70	26.0	8.08	29.9	8.62
	14.0	22.0	14.4	6.96	16.0	7.02	19.3	7.36	23.0	7.82	25.9	8.21	29.8	8.76
RYP250	9.0	16.0	17.6	7.41	19.5	7.47	22.9	7.81	27.3	8.27	30.8	8.66	35.4	9.22
	11.0	18.0	17.3	7.60	19.4	7.68	22.7	8.02	27.1	8.51	30.6	8.91	35.2	9.50
	12.0	20.0	17.1	7.81	19.1	7.89	22.6	8.26	27.0	8.76	30.4	9.18	35.0	9.80
	13.0	21.0	16.9	7.92	18.9	7.99	22.6	8.37	26.9	8.89	30.3	9.32	34.9	9.95
	14.0	22.0	16.8	8.03	18.7	8.10	22.5	8.49	26.9	9.03	30.3	9.47	34.9	10.11
	15.0	24.0	16.6	8.27	18.4	8.34	22.5	8.76	26.8	9.32	30.2	9.77	34.8	10.44

3TW23632-2A

SYMBOLS

AFR:	Air flow rate	(m ³ /min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
DB*:	Dry bulb temp. (°CDB)	(°CDB)
TC:	Total cooling capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)
	(comp.+indoor+outdoor fan motor)	

Caution:
TC is shown by kW

NOTES

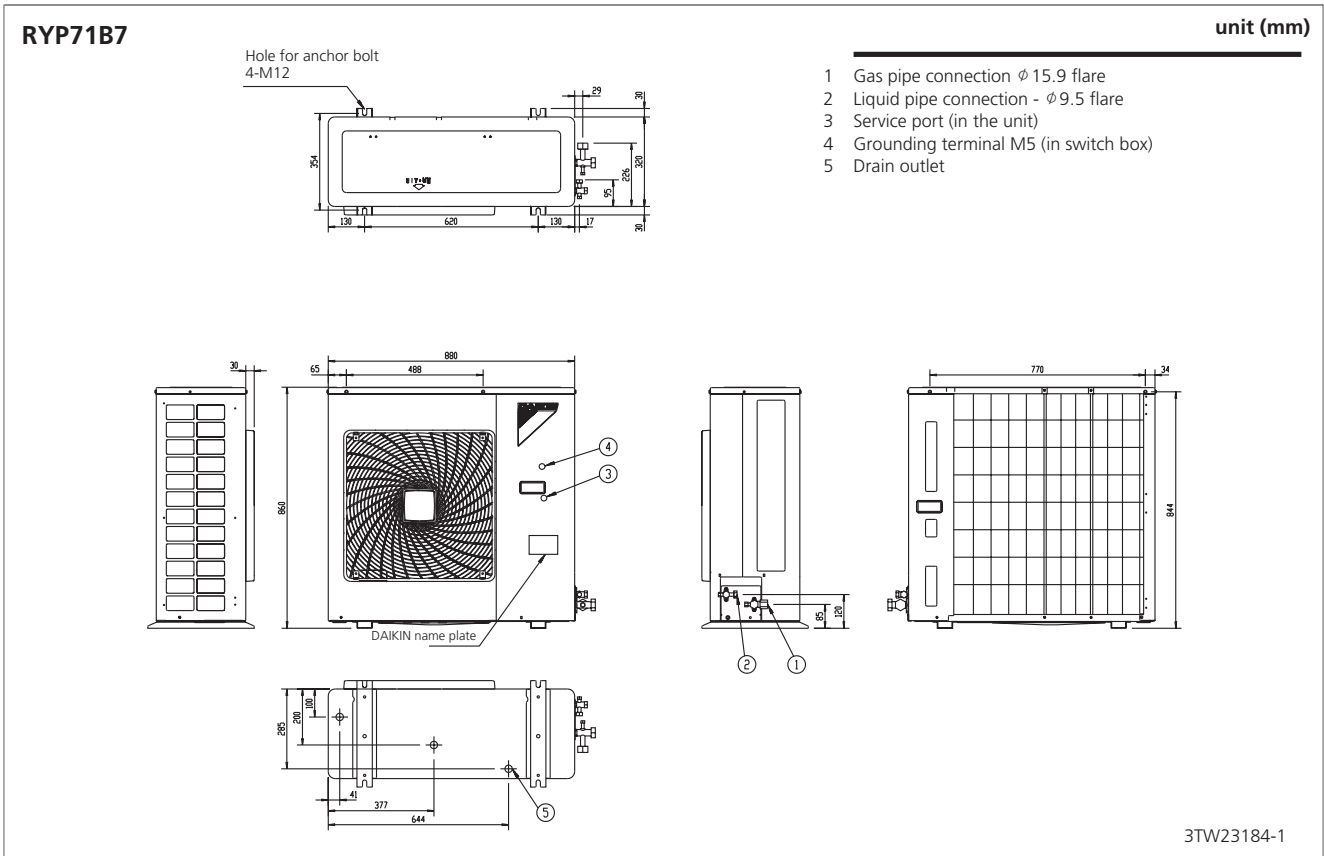
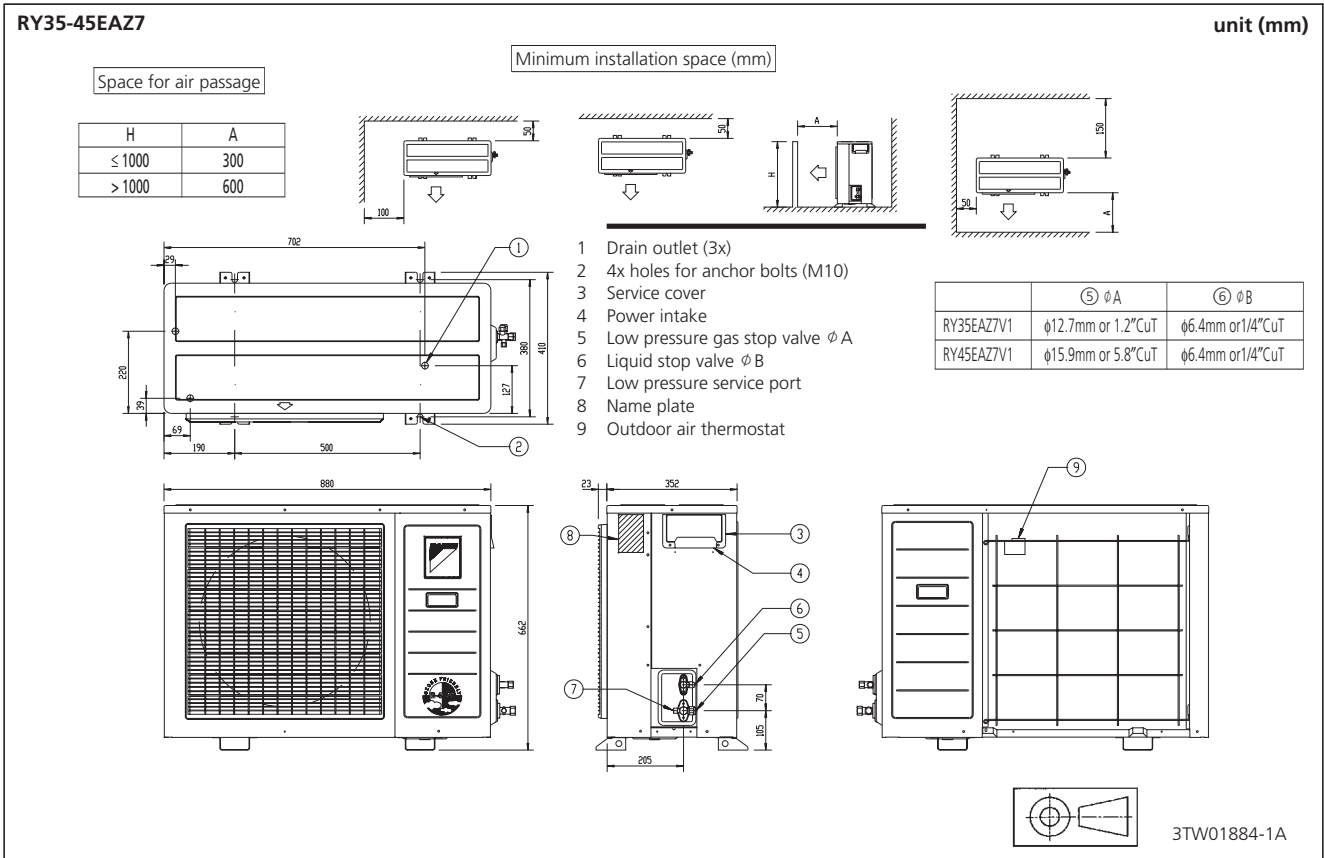
- Ratings shown are net capacities which include a deduction for indoor fan motor heat
- Shows nominal capacities
- Capacities are based on the following conditions:
Corresponding refrigerant piping length: 7.5 m
Level difference: 0 m
Outdoor air : 85 % RH. however, the condition on nominal capacity is 7° CDB/6° CWB (heating)
- Direct interpolation is permissible Do not extrapolate.
- Air flow rate and BF are tabulated below.

Model	FDYP200	FDYP250
AFR	69	89
BF	0.25	0.25

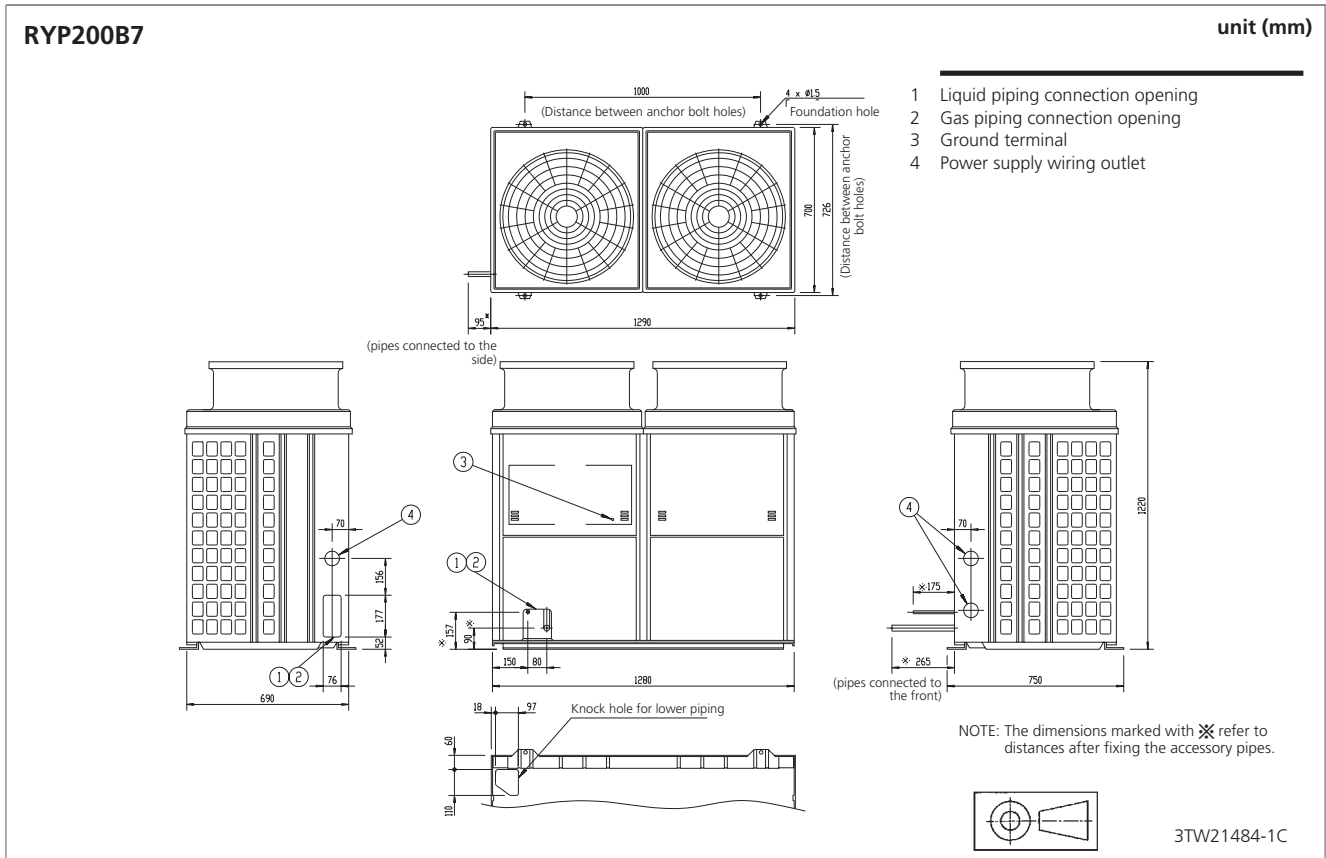
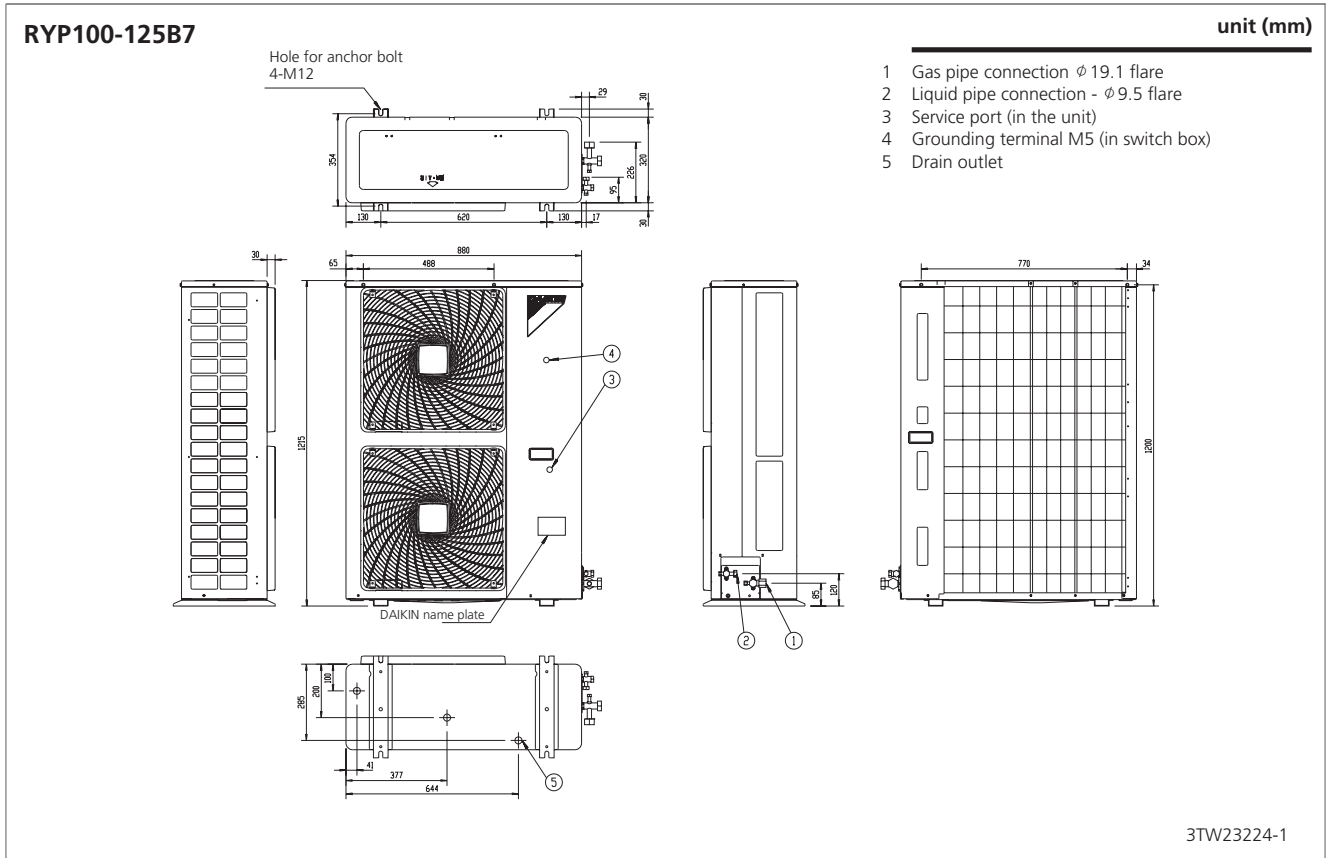


4 Dimensional drawings

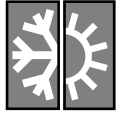
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4 Dimensional drawings

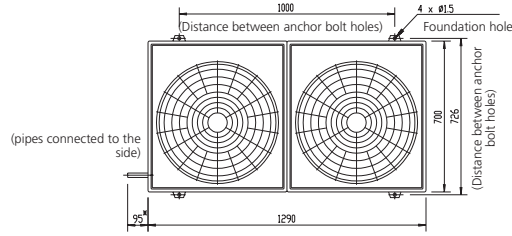


4 Dimensional drawings

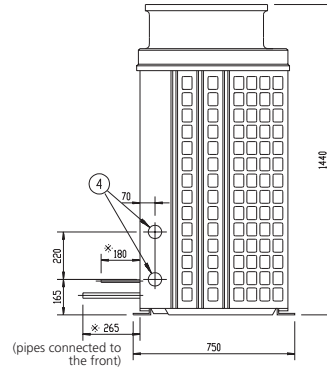
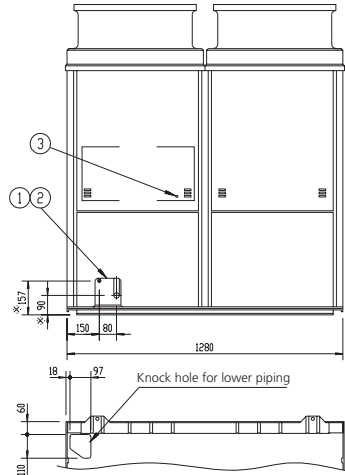
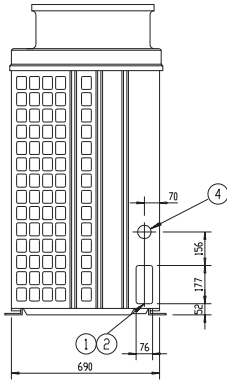


RYP250B7

unit (mm)



- 1 Liquid piping connection opening
- 2 Gas piping connection opening
- 3 Ground terminal
- 4 Power supply wiring outlet

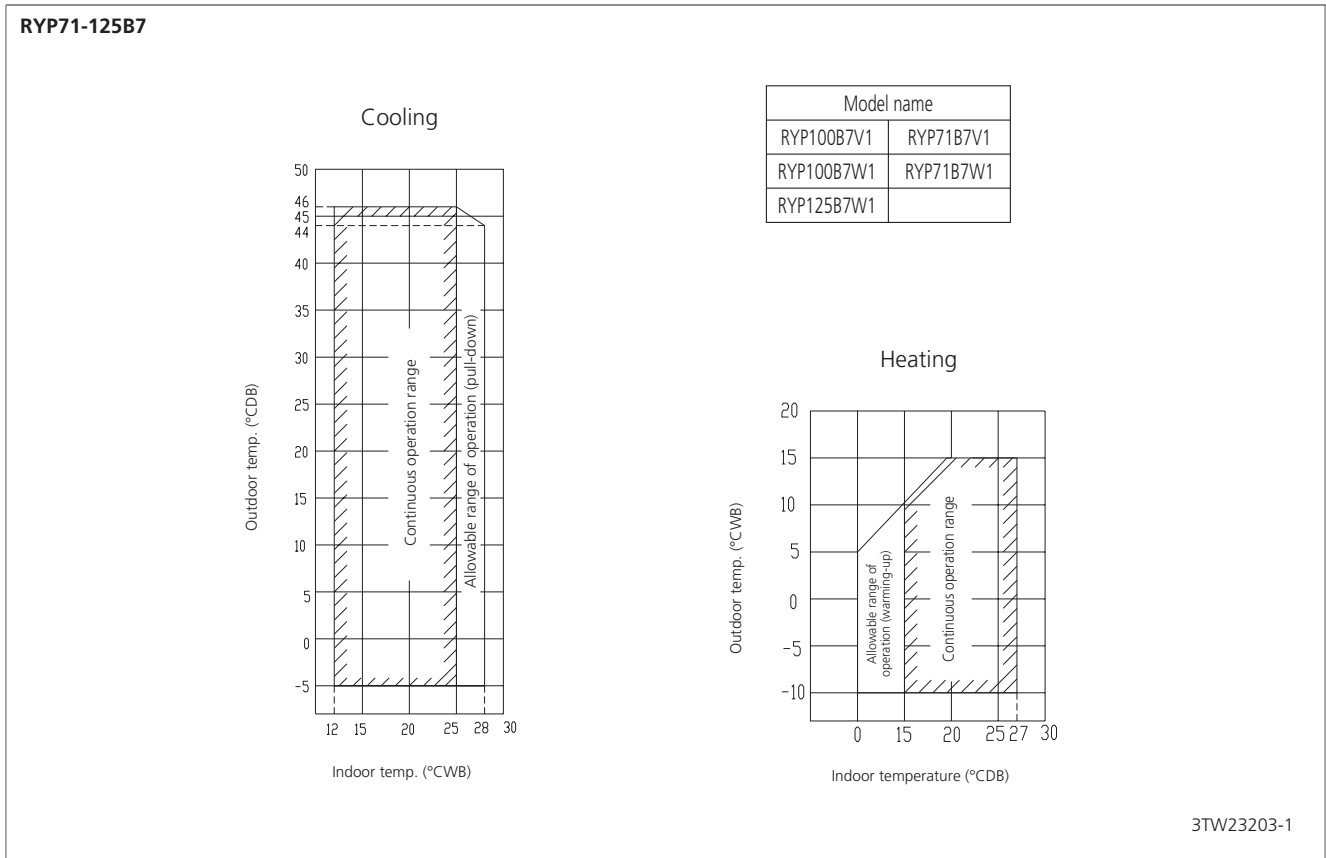
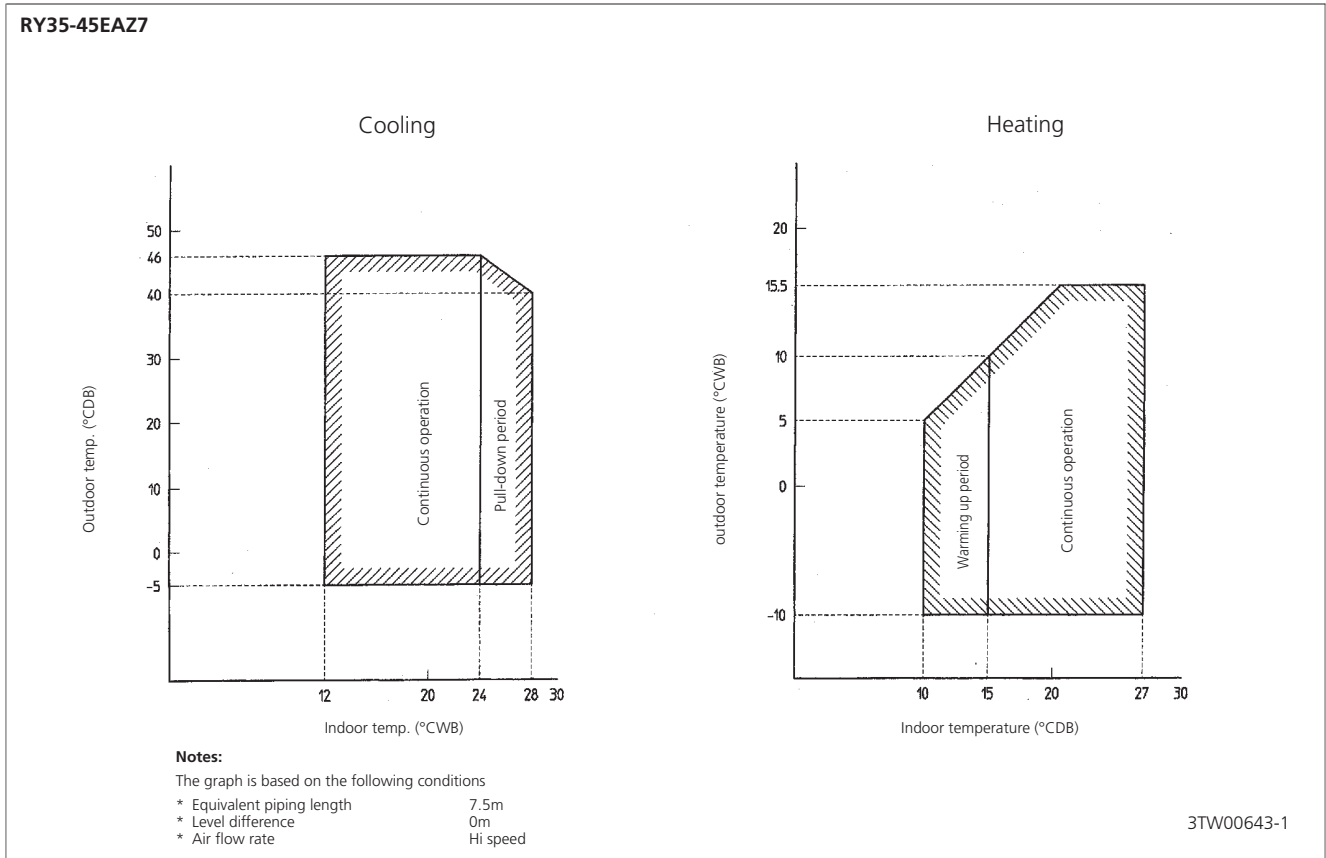


NOTE: The dimensions marked with ✕ refer to distances after fixing the accessory pipes.

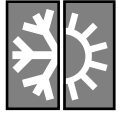


3TW21494-1C

5 Operation range

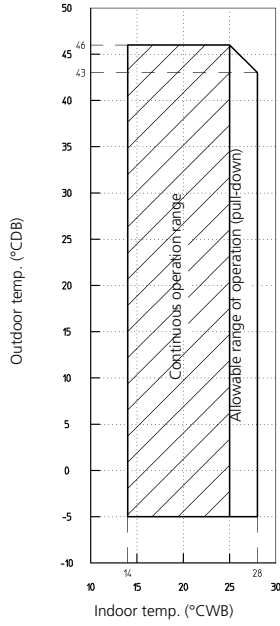


5 Operation range



RYP200-250B7

Cooling

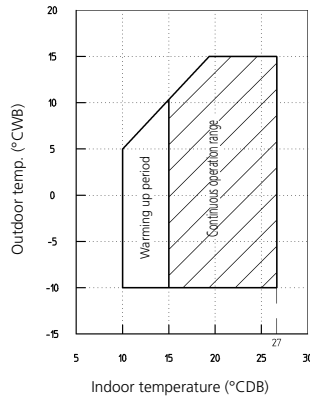


Notes:

The graph is based on the following conditions:

- 1. Equivalent piping length 70 m
- 2. Level difference 30 m
- 3. Indoor air flow rate 72m³/min (200 class) 90m³/min (250 class)

Heating

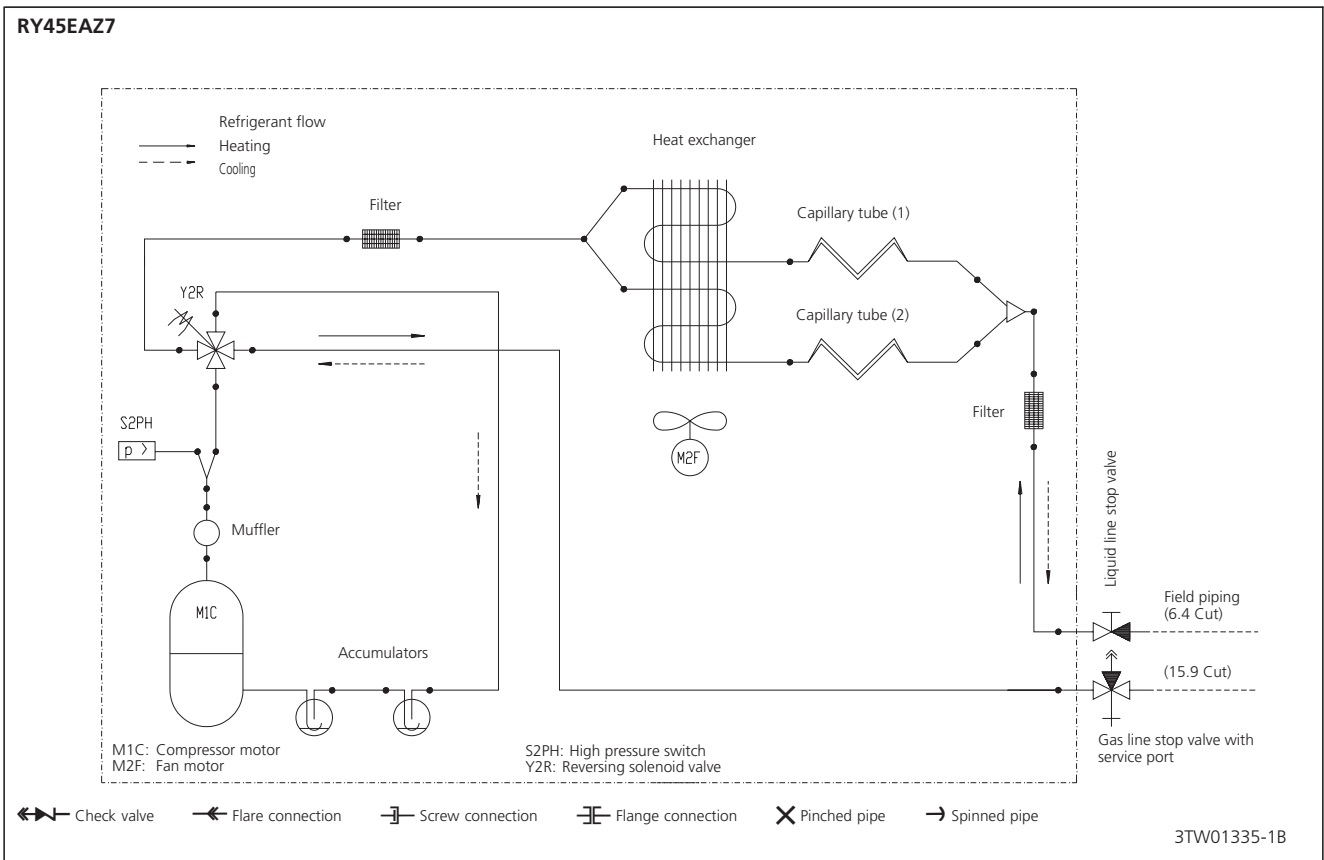
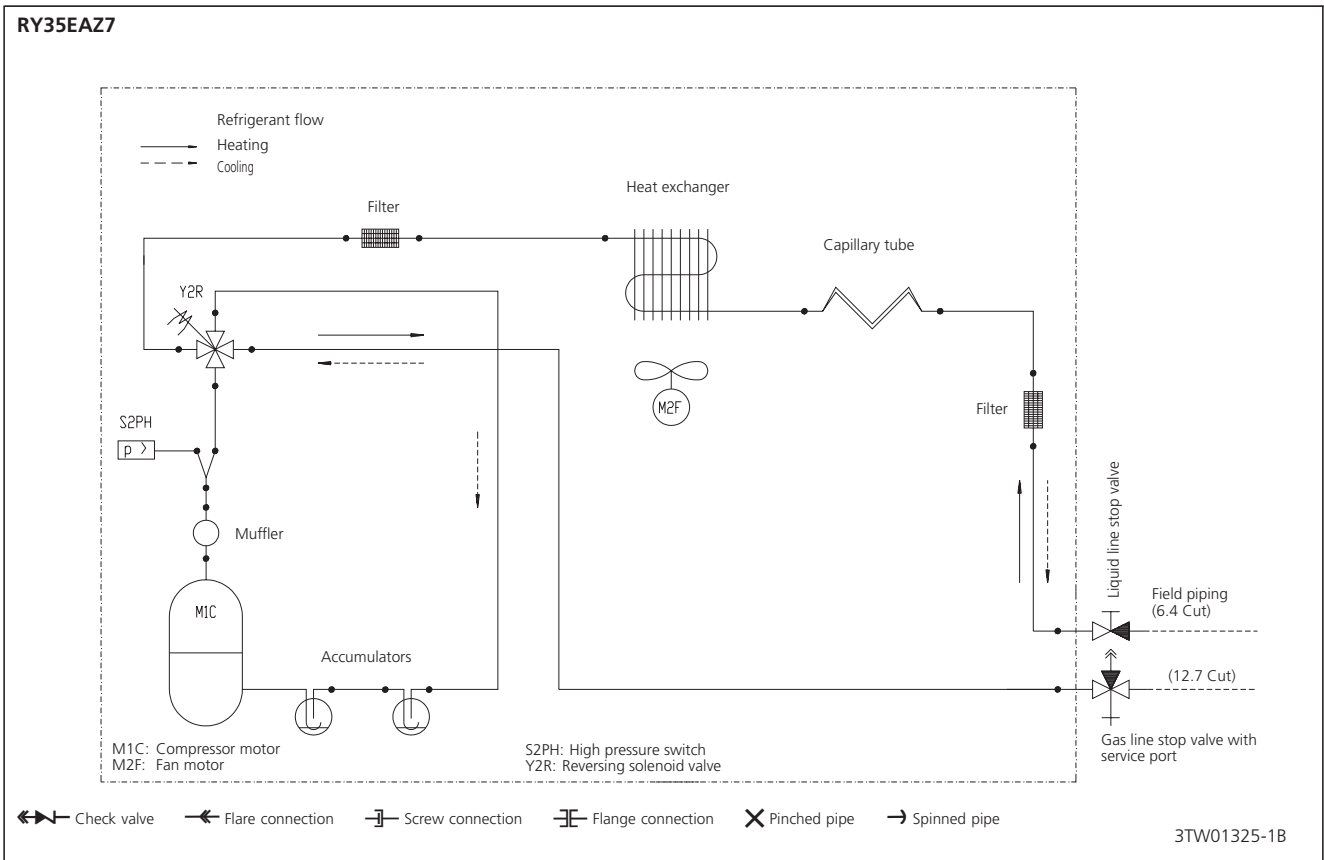


3TW23633-1

6 Piping diagrams



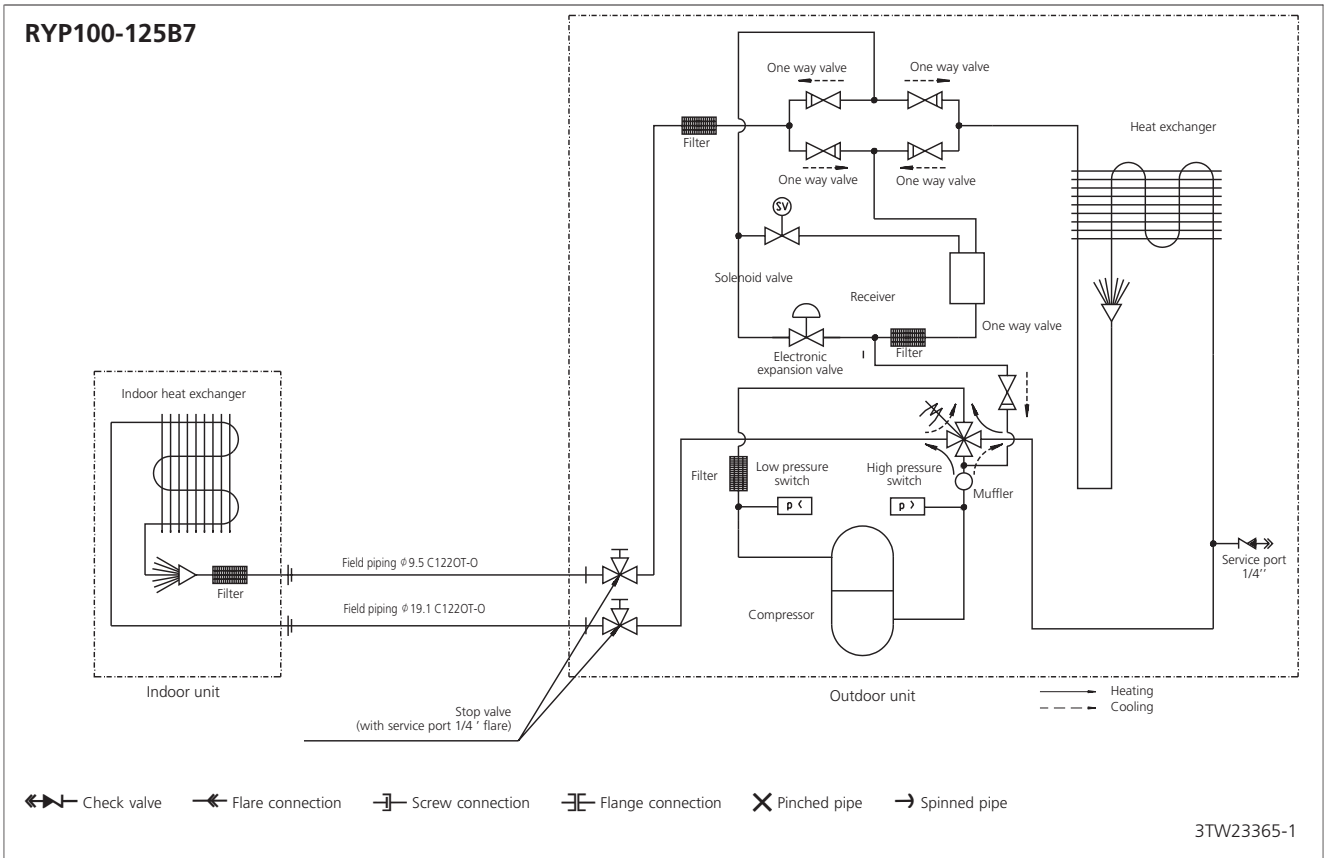
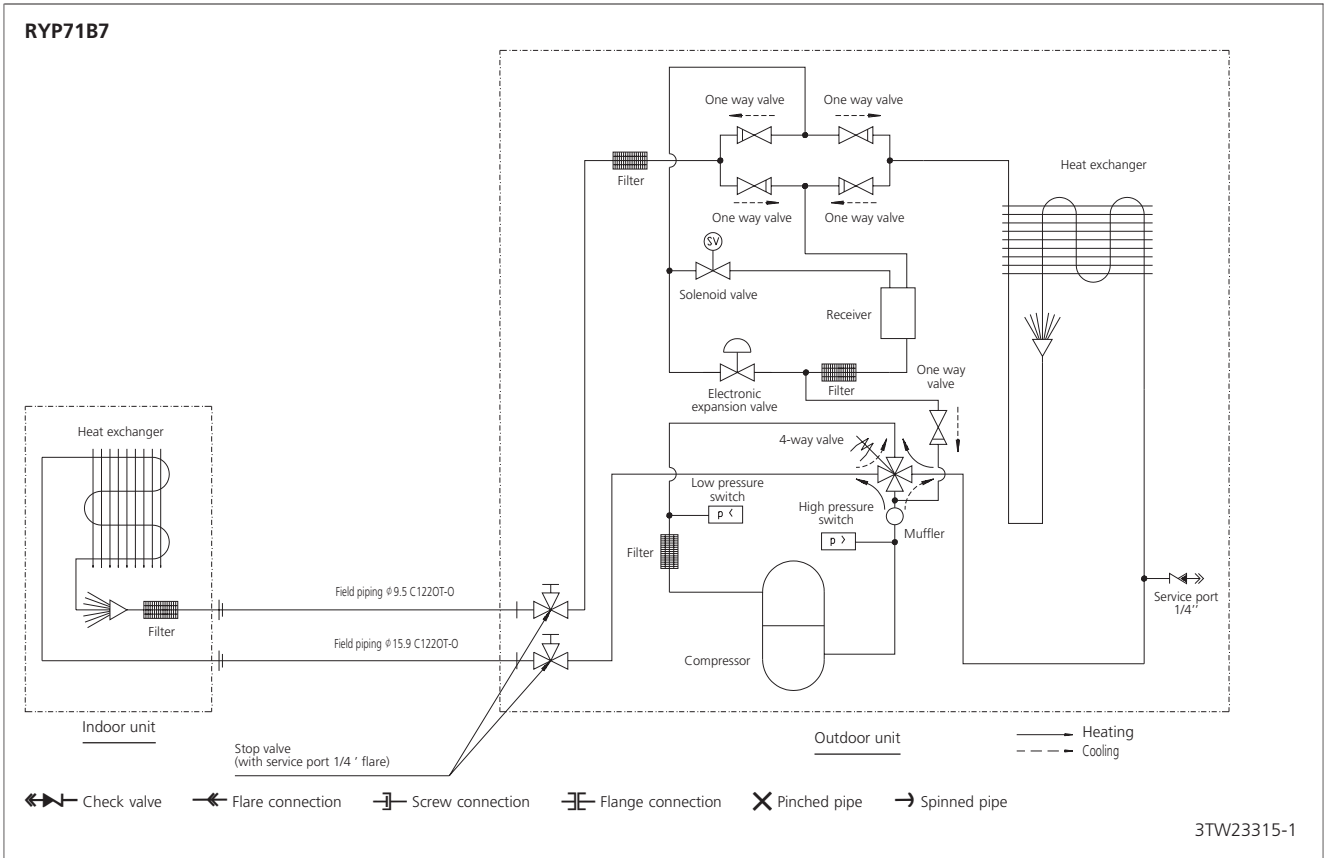
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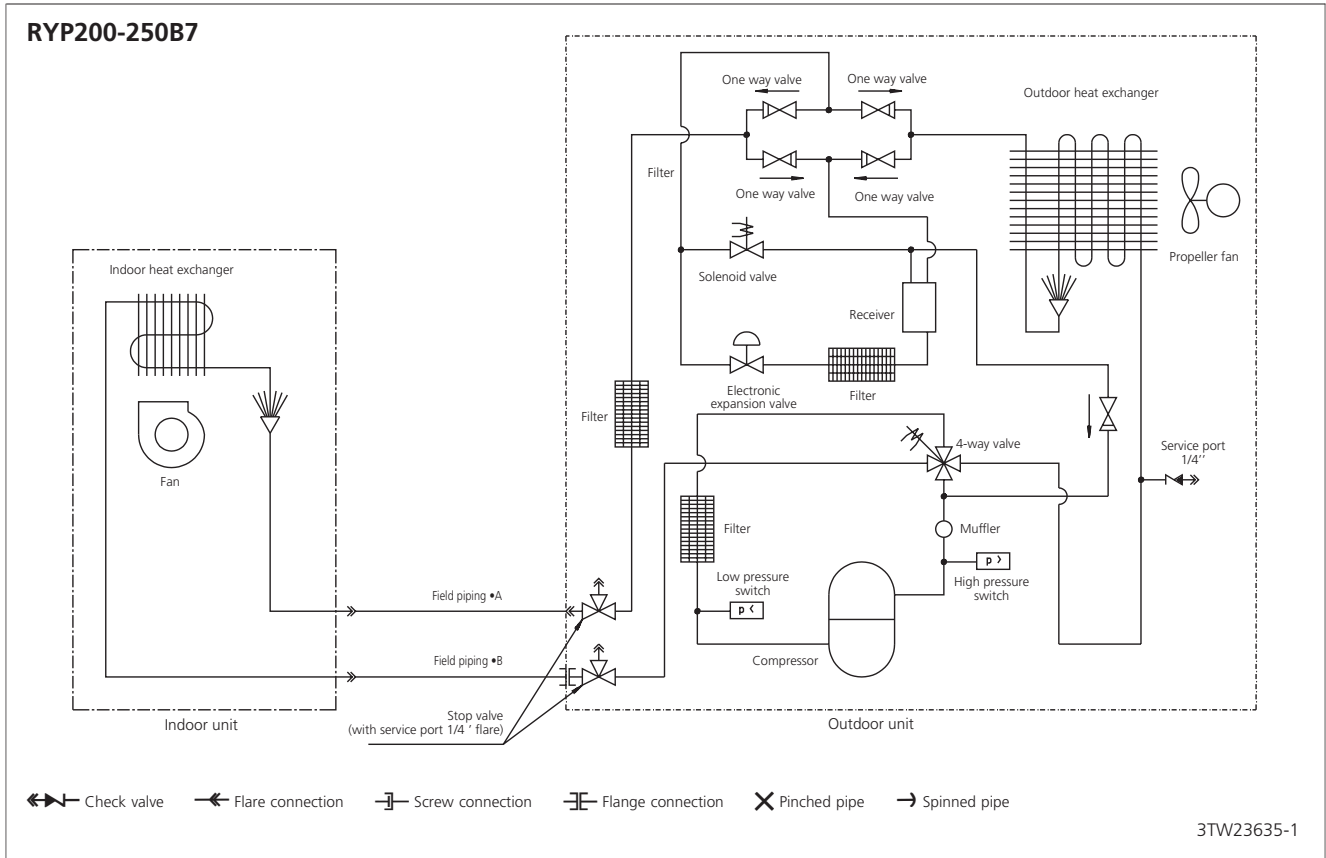
6 Piping diagrams



6



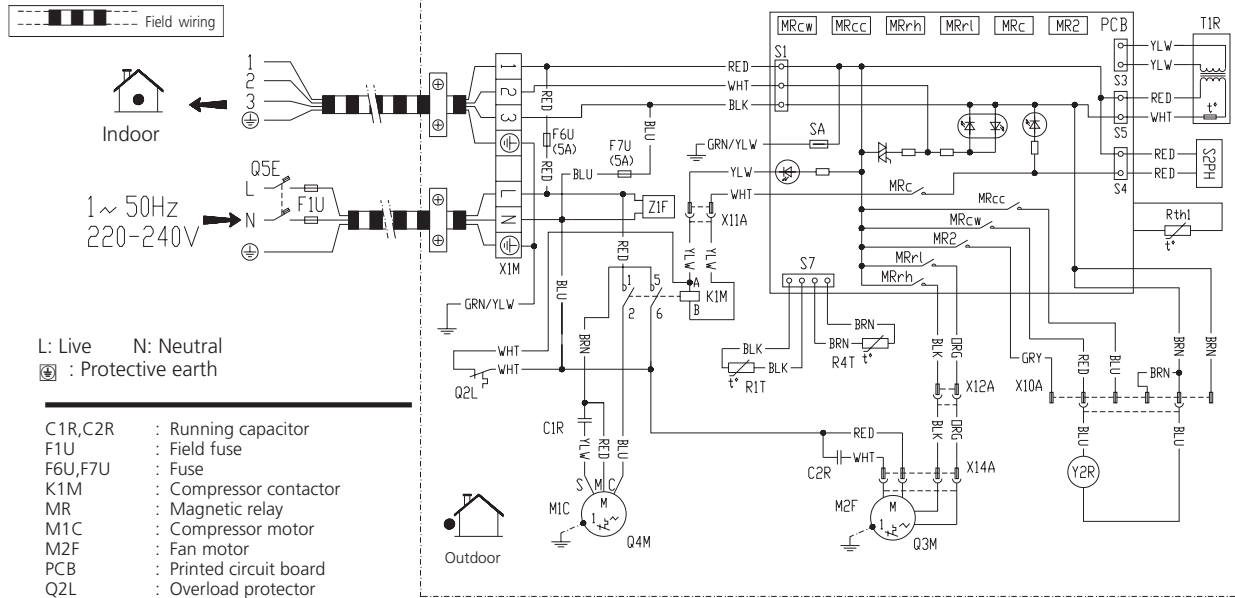
6 Piping diagrams



7 Wiring diagrams



RY35/45EAZ7V1



L: Live N: Neutral
 ⊕: Protective earth

- C1R, C2R : Running capacitor
- F1U : Field fuse
- F6U, F7U : Fuse
- K1M : Compressor contactor
- MR : Magnetic relay
- M1C : Compressor motor
- M2F : Fan motor
- PCB : Printed circuit board
- Q2L : Overload protector (compressor)
- Q3M, Q4M : Thermal protector
- Q5E : Field earth leak protector
- R1T : Outside air temperature thermistor
- R4T : Defrost thermistor
- Rth1 : PCB temperature thermistor
- SA : Surge absorber
- S1, S3 : Connector on PCB
- S2PH : Pressure switch (high)
- T1R : Transformer
- X1M : Terminal strip
- X10A, X11A, ... : Connector
- Y2R : Reversing solenoid valve
- Z1F : Noise filter

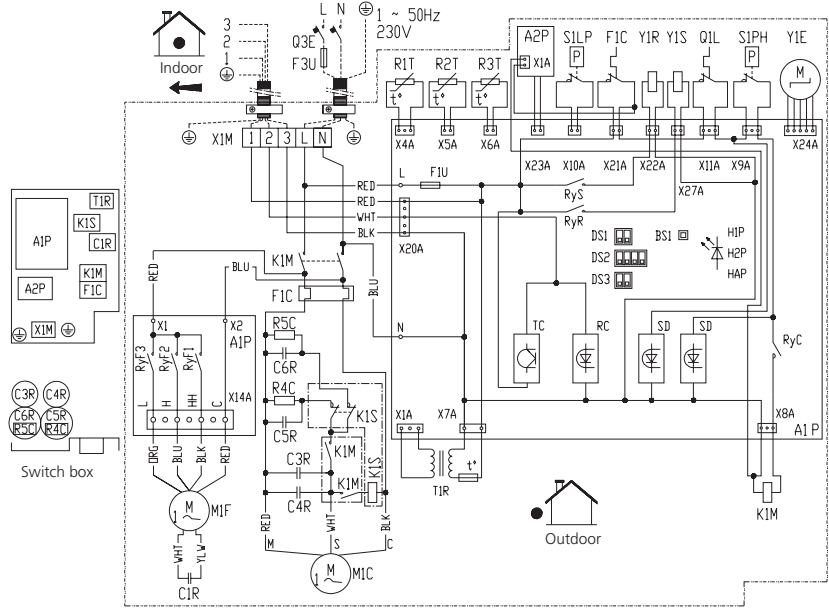
3TW01326-1B

RYP71B7V1

Note:
 Do not operate the unit by short-circuiting S1LP

- Field wiring
- Terminal
- Connector
- Wire clamp
- Protective earth (screw)
- L: Live
- N: Neutral

Colours
 BLK: Black/ BLU: Blue/ WHT: White/
 RED: Red/ ORG: Orange/ YLW: Yellow



L-RED N-BLU

- A1P, A2P : Printed circuit board
- B51 : Xxxxxx
- C1R : Capacitor (M1F)
- C3R, C4R : Capacitor (M1C)
- C5R, C6R : Starting capacitor (M1C)
- DS1 : Selector switch (defrost)
- DS2 : Selector switch (various see PCB)
- DS3 : Selector switch (emergency)
- F1C : Overcurrent relay (M1C)
- F1U : Fuse (250V, 5A)
- F3U : Field fuse
- HAP : Light emitting diode (service monitor green)
- H1P, H2P : Light emitting diode (service monitor red)
- K1M : Magnetic contactor (M1C)
- K1S : Starting contactor (M1C)
- M1C : Motor (compressor)
- M1F : Motor (fan)
- Q1L : Thermo switch (M1F)
- Q3E : Earth leak detector
- R1T : Thermistor (air)
- R2T : Thermistor (coil)
- R3T : Thermistor (discharge pipe)
- R4C, R5C : Resistor
- RC : Signal receiver circuit
- RyC : Magnetic relay (K1M)
- RyF1-3 : Magnetic relay (M1F)
- RyR : Magnetic relay (Y1S)
- RyS : Magnetic relay (Y1R)
- S1LP : Pressure switch (low)
- S1PH : Pressure switch (high)
- SD : Safety devices input
- T1R : Transformer (220-240V/19V)
- TC : Signal transmission circuit
- X1M : Terminal strip
- Y1E : Expansion valve
- Y1R : 4-way valve
- Y1S : Solenoid valve

2TW23316-1

7 Wiring diagrams

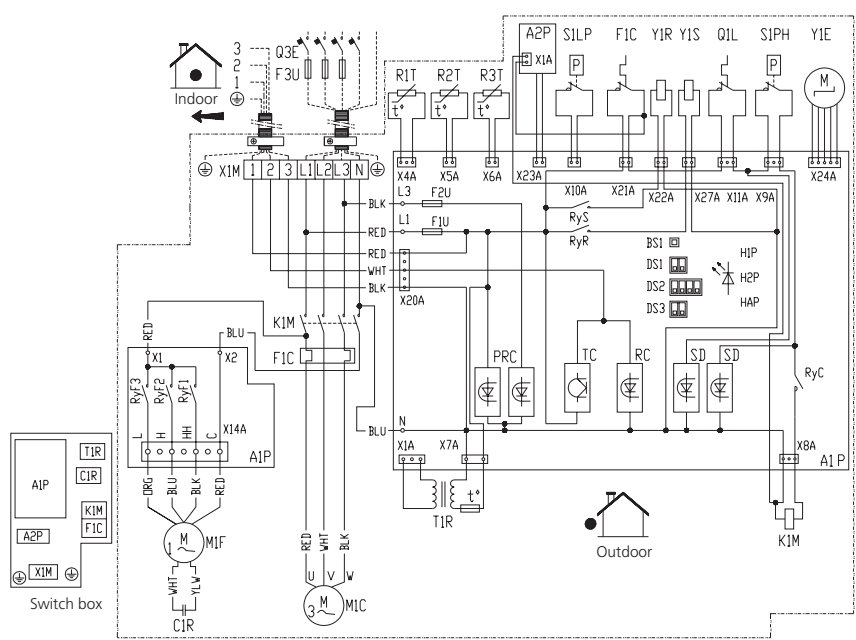


RYP71B7W1

Note:
Do not operate the unit by short-circuiting S1LP

- Field wiring
- Terminal
- Connector
- Wire clamp
- Protective earth (screw)
- L: Live
- N: Neutral

Colours
BLK: Black/ BLU: Blue/ WHT: White/
RED: Red/ ORG: Orange/ YLV: Yellow



L1-RED L2-WHT L3-BLK N-BLU

- | | | | | | | | |
|----------|--|----------|--|--------|-----------------------------|-----|-----------------------------|
| A1P, A2P | Printed circuit board | HAP | Light emitting diode (service monitor green) | R2T | Thermistor (coil) | SD | Safety devices input |
| BS1 | Push button (forced defrost-pump down) | H1P, H2P | Light emitting diode (service monitor red) | R3T | Thermistor (discharge pipe) | T1R | Transformer (220-240V/19V) |
| C1R | Capacitor (M1F) | K1M | Magnetic contactor (M1C) | RC | Signal receiver circuit | TC | Signal transmission circuit |
| DS1 | Selector switch (defrost) | M1C | Motor (compressor) | RyC | Magnetic relay (K1M) | X1M | Terminal strip |
| DS2 | Selector switch (various see PCB) | M1F | Motor (fan) | RyF1-3 | Magnetic relay (M1F) | Y1E | Expansion valve |
| DS3 | Selector switch (emergency) | PRC | Phase reverse circuit | RyR | Magnetic relay (Y1S) | Y1R | 4-way valve |
| F1C | Overcurrent relay (M1C) | Q1L | Thermo switch (M1F) | RyS | Magnetic relay (Y1R) | Y1S | Solenoid valve |
| F1U, F2U | Fuse (250V, 5A) | Q3E | Earth leak detector | S1LP | Pressure switch (low) | | |
| F3U | Field fuse | R1T | Thermistor (air) | S1PH | Pressure switch (high) | | |

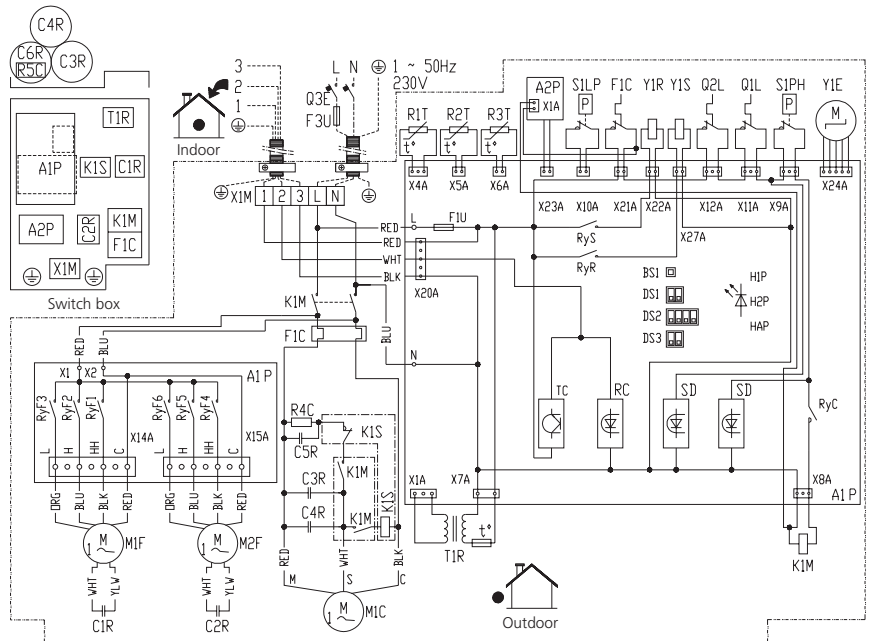
2TW23326-1

RYP100B7V1

Note:
Do not operate the unit by short-circuiting S1LP

- Field wiring
- Terminal
- Connector
- Wire clamp
- Protective earth (screw)
- L: Live
- N: Neutral

Colours
BLK: Black/ BLU: Blue/ WHT: White/
RED: Red/ ORG: Orange/ YLV: Yellow



L-RED N-BLU

- | | | | | | | | |
|----------|-----------------------------------|----------|--|----------|-----------------------------|------|-----------------------------|
| A1P, A2P | Printed circuit board | F1U | Fuse (250V, 5A) | Q3E | Earth leak detector | RyS | Magnetic relay (Y1R) |
| BS1 | Xxxxxx | F3U | Field fuse | R1T | Thermistor (air) | S1LP | Pressure switch (low) |
| C1R | Capacitor (M1F) | HAP | Light emitting diode (service monitor green) | R2T | Thermistor (coil) | S1PH | Pressure switch (high) |
| C3R, C4R | Capacitor (M1C) | H1P, H2P | Light emitting diode (service monitor red) | R3T | Thermistor (discharge pipe) | SD | Safety devices input |
| CSR, C6R | Starting capacitor (M1C) | K1M | Magnetic contactor (M1C) | R4C, R5C | Resistor | T1R | Transformer (220-240V/19V) |
| DS1 | Selector switch (defrost) | K1S | Starting contactor (M1C) | RC | Signal receiver circuit | TC | Signal transmission circuit |
| DS2 | Selector switch (various see PCB) | M1C | Motor (compressor) | RyC | Magnetic relay (K1M) | X1M | Terminal strip |
| DS3 | Selector switch (emergency) | M1F | Motor (fan) | RyF1-3 | Magnetic relay (M1F) | Y1E | Expansion valve |
| F1C | Overcurrent relay (M1C) | Q1L | Thermo switch (M1F) | RyR | Magnetic relay (Y1S) | Y1R | 4-way valve |
| | | | | | | Y1S | Solenoid valve |

2TW23366-1

7 Wiring diagrams

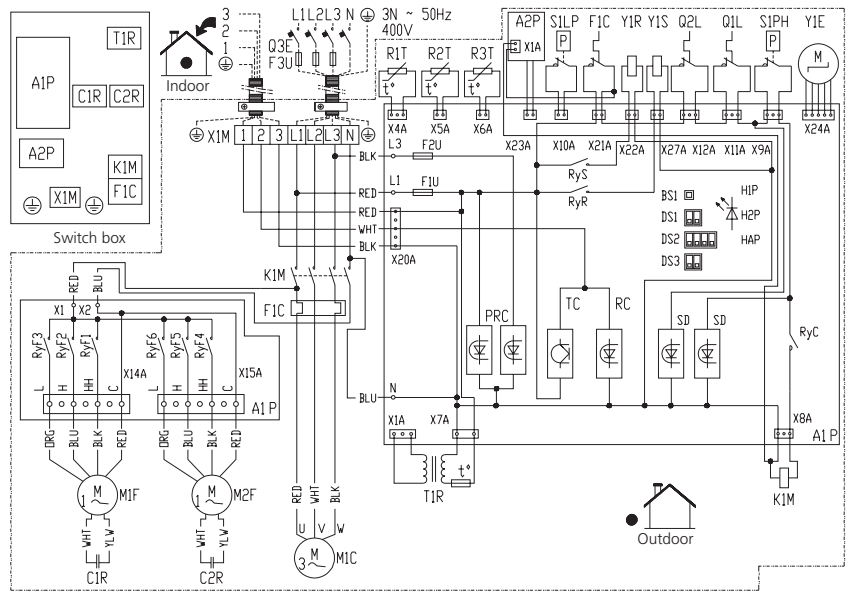


RYP100-125B7W1

Note:
Do not operate the unit by short-circuiting S1LP

- Field wiring
- Terminal
- Connector
- Wire clamp
- Protective earth (screw)
- Live
- Neutral

Colours
BLK: Black/ BLU: Blue/ WHT: White/
RED: Red/ ORG: Orange/ YLV: Yellow



L1-RED L2-WHT L3-BLK N-BLU

- | | | | |
|--|--|---------------------------------|--------------------------------|
| A1P,A2P Printed circuit board | HAP Light emitting diode (service monitor green) | R2T Thermistor (coil) | SD Safety devices input |
| BS1 Push button (forced defrost-pump down) | H1P,H2P Light emitting diode (service monitor red) | R3T Thermistor (discharge pipe) | T1R Transformer (220-240V/19V) |
| C1R,C2R Capacitor (M1F-M2F) | K1M Magnetic contactor (M1C) | RC Signal receiver circuit | TC Signal transmission circuit |
| DS1 Selector switch (defrost) | M1C Motor (compressor) | RyC Magnetic relay (K1M) | X1M Terminal strip |
| DS2 Selector switch (various see PCB) | M1F,M2F Motor (fan) | RyF1-6 Magnetic relay (M1F-M2F) | Y1E Expansion valve |
| DS3 Selector switch (emergency) | PRC Phase reverse circuit | RyR Magnetic relay (Y1S) | Y1R 4-way valve |
| F1C Overcurrent relay (M1C) | Q1L,Q2L Thermo switch (M1F) | RyS Magnetic relay (Y1R) | Y1S Solenoid valve |
| F1U,F2U Fuse (250V, 5A) | Q3E Earth leak detector | S1LP Pressure switch (low) | |
| F3U Field fuse | R1T Thermistor (air) | S1PH Pressure switch (high) | |

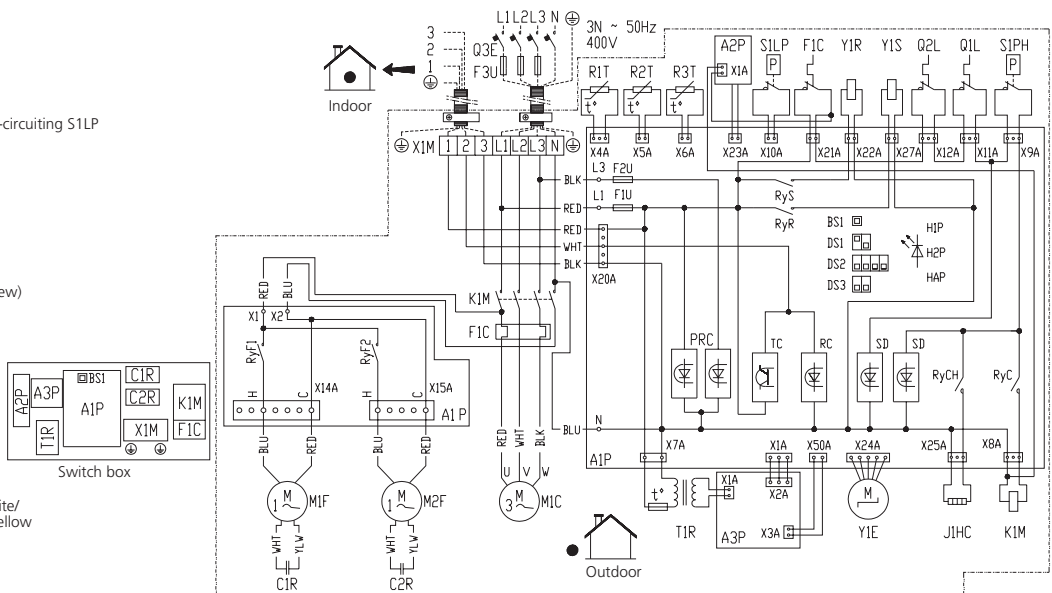
2TW23376-1

RYP200-250B7W1

Note:
Do not operate the unit by short-circuiting S1LP

- Field wiring
- Terminal
- Connector
- Wire clamp
- Protective earth (screw)
- Live
- Neutral

Colours
BLK: Black/ BLU: Blue/ WHT: White/
RED: Red/ ORG: Orange/ YLV: Yellow



L1-RED L2-WHT L3-BLK N-BLU

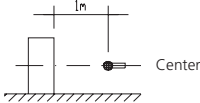
- | | | | |
|--|--|---------------------------------|--------------------------------|
| A1P,A2P,A3P Printed circuit board | HAP Light emitting diode (service monitor green) | R1T Thermistor (air) | S1LP Pressure switch (low) |
| BS1 Push button (forced defrost-pump down) | H1P,H2P Light emitting diode (service monitor red) | R2T Thermistor (coil) | S1PH Pressure switch (high) |
| C1R,C2R Capacitor (M1F-M2F) | J1HC Crankcase heater | R3T Thermistor (discharge pipe) | SD Safety devices input |
| DS1 Selector switch (defrost) | K1M Magnetic contactor (M1C) | RC Signal receiver circuit | T1R Transformer (230V/20.1V) |
| DS2 Selector switch (various see PCB) | M1C Motor (compressor) | RyC Magnetic relay (K1M) | TC Signal transmission circuit |
| DS3 Selector switch (emergency) | M1F,M2F Motor (fan) | RyCH Magnetic relay (J1HC) | X1M Terminal strip |
| F1C Overcurrent relay (M1C) | PRC Phase reverse circuit | RyF1-2 Magnetic relay (M1F-M2F) | Y1E Expansion valve |
| F1U,F2U Fuse (250V, 10A) | Q1L,Q2L Thermo switch (M1F) | RyR Magnetic relay (Y1S) | Y1R 4-way valve |
| F3U Field fuse | Q3E Earth leak detector | RyS Magnetic relay (Y1R) | Y1S Solenoid valve |

2TW23636-1A



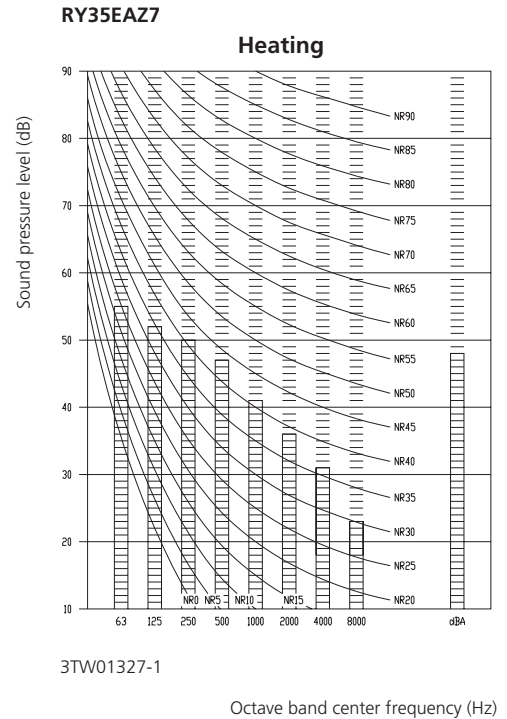
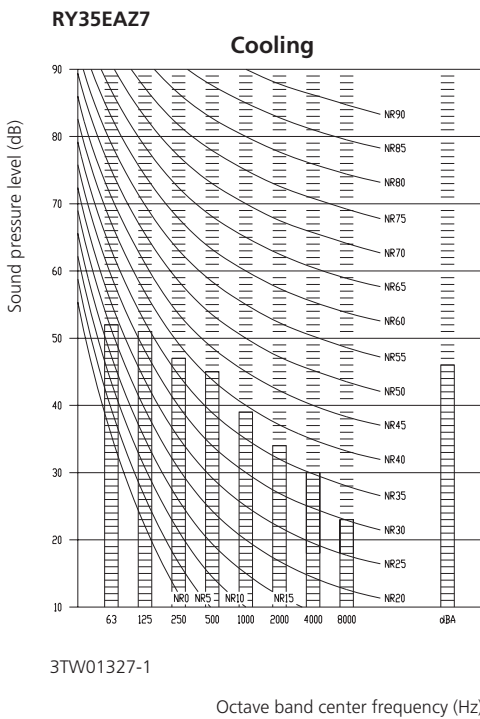
8 Sound level

8-1 Sound level data



Model	Sound pressure level		Measuring location 	Sound power (H) (cooling/heating)
	50Hz			
	H (cooling)	H (heating)		
RY35EAZ7	46	48		59
RY45EAZ7	47	48		60
RYP71B7	50	52		63
RYP100B7	53	56		66
RYP125B7	53	56		67
RYP200B7	57	57		77
RYP250B7	57	57		77

8
8-1

8-2 Sound spectrum



Legend

-  High speed
-  Low speed

Notes

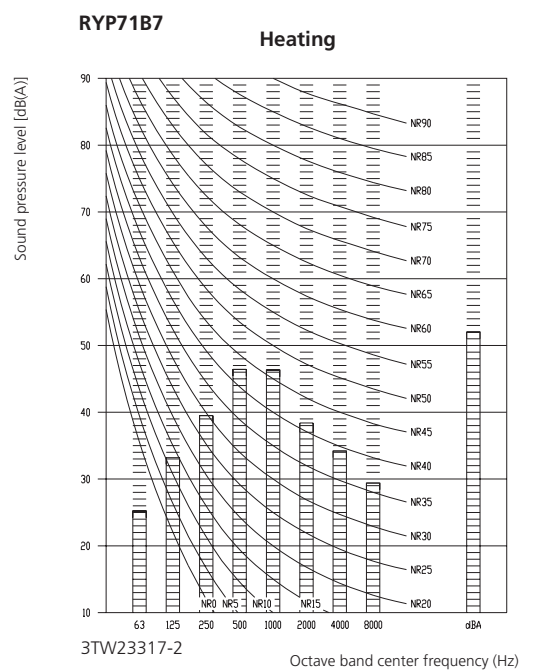
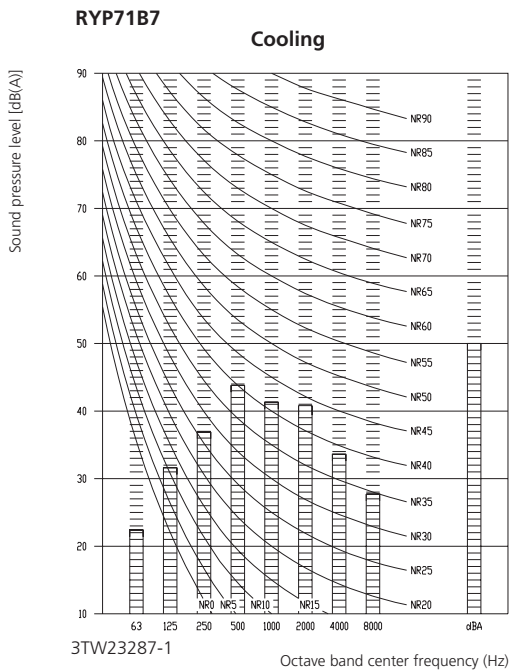
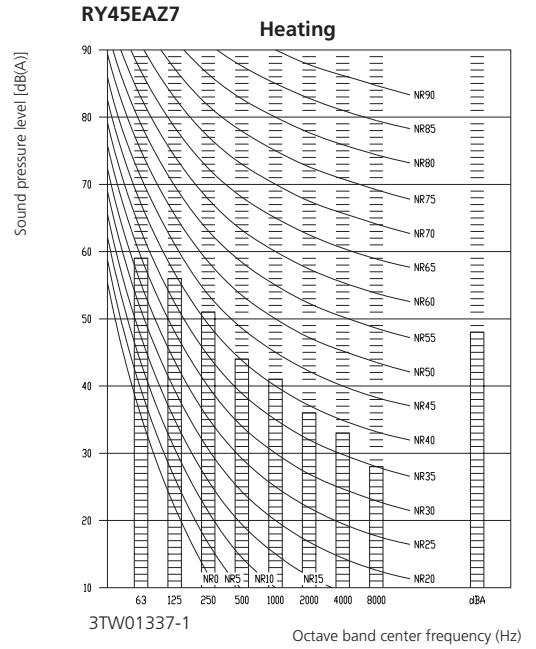
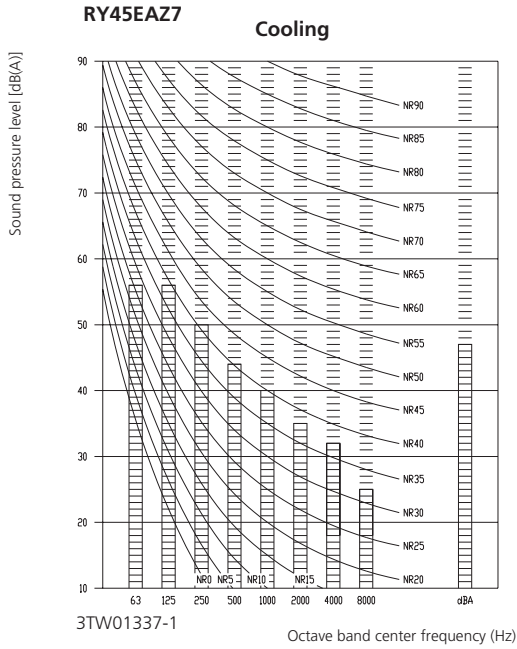
- Data is valid at free field condition
- Operation sound levels are valid at nominal operation condition 230V
- dBA = A-weighted sound pressure level (A-scale according to IEC)
- Reference acoustic pressure 0dB = 20μPa

8 Sound level

8-2 Sound pressure spectrum



8
8-2

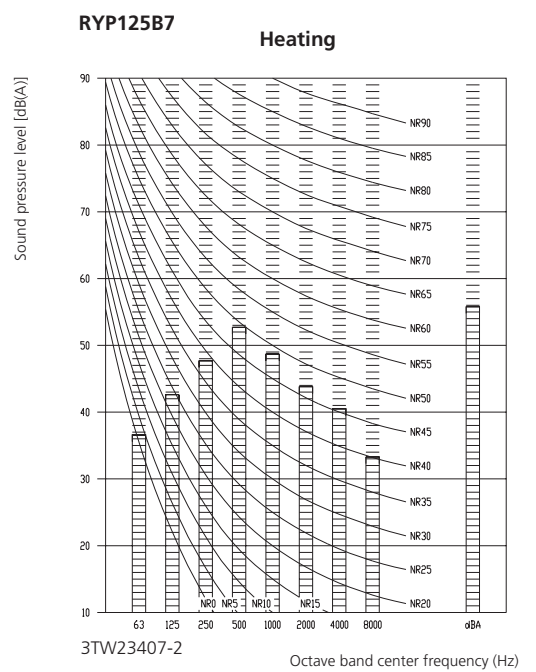
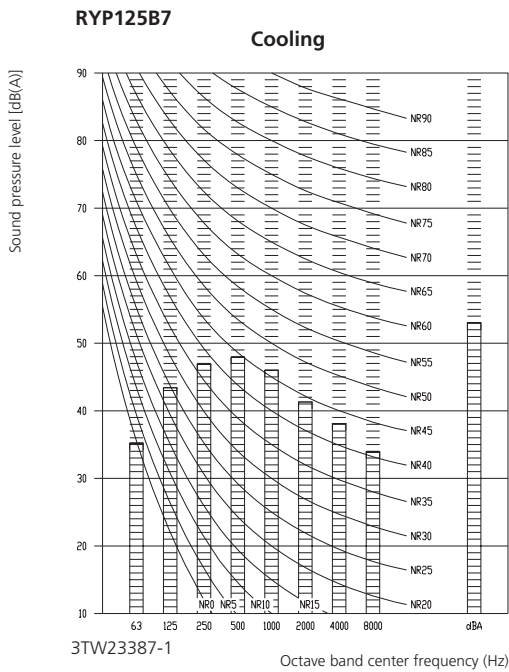
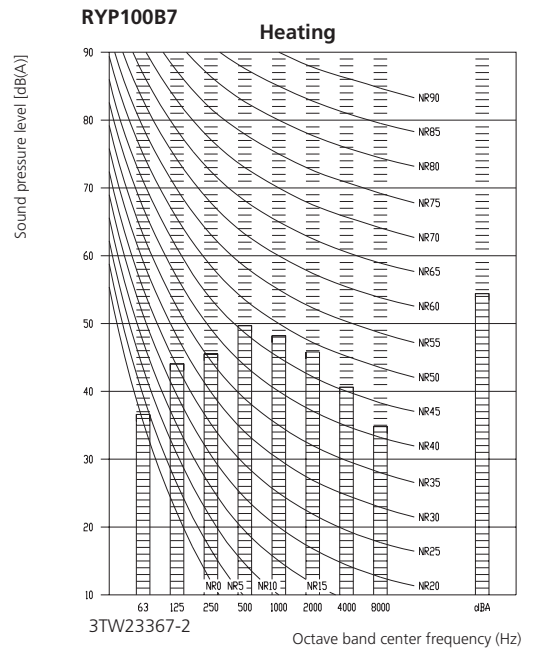
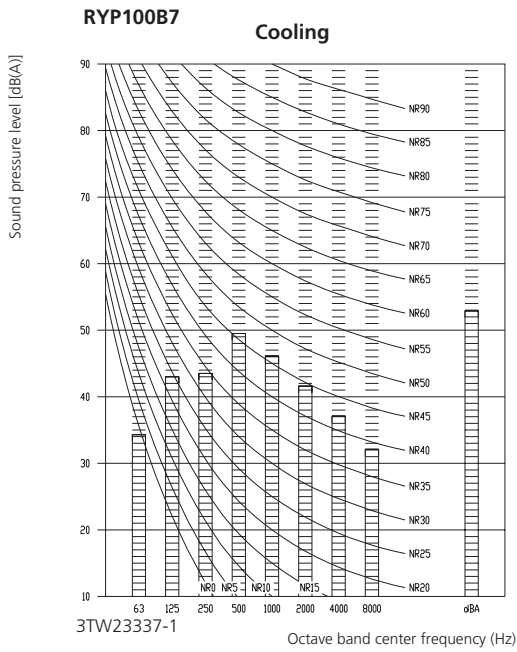


Notes

- Data is valid at free field condition
- Operation sound levels are valid at nominal operation condition
- dBA = A-weighted sound pressure level (A-scale according to IEC)
- Reference acoustic pressure 0dB = 20µPa

8 Sound level

8-2 Sound pressure spectrum



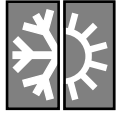
Notes

- Data is valid at free field condition
- Operation sound levels are valid at nominal operation condition
- dBA = A-weighted sound pressure level (A-scale according to IEC)
- Reference acoustic pressure 0dB = 20μPa

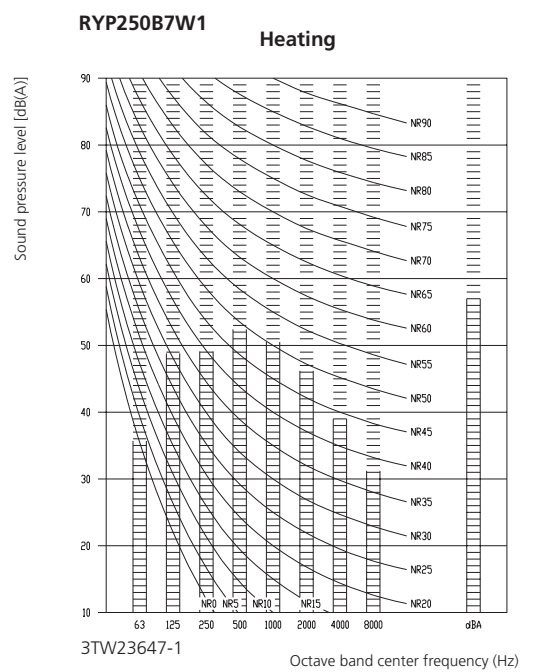
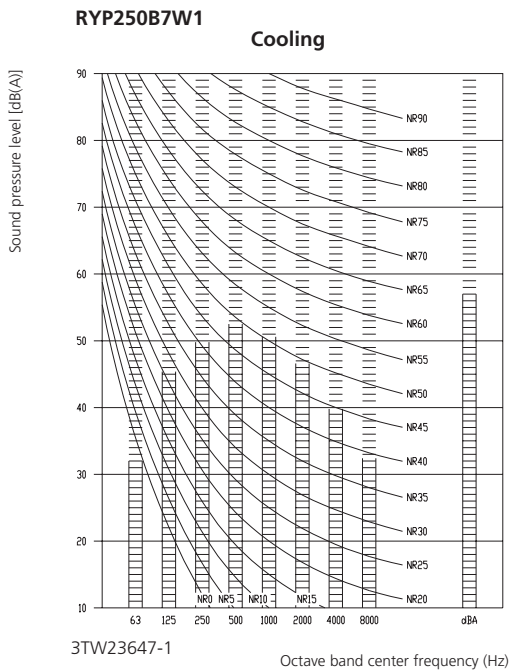
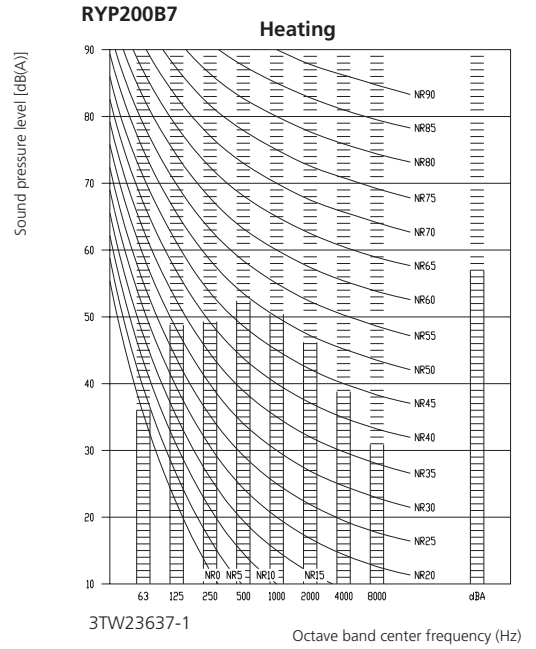
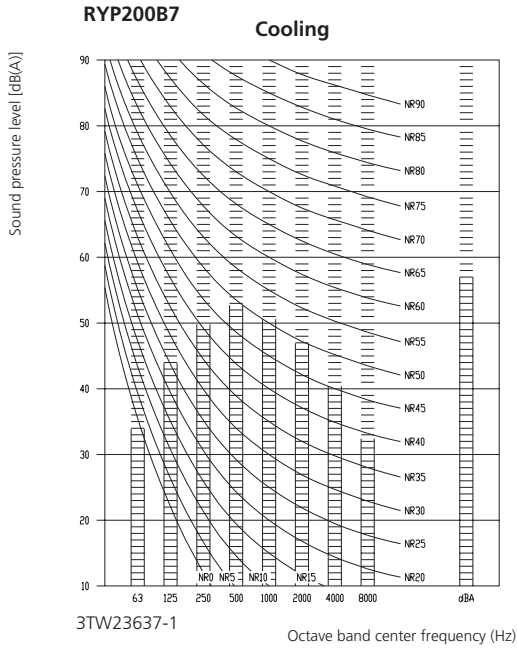
8
8-2

8 Sound level

8-2 Sound pressure spectrum



8
8-2



Notes

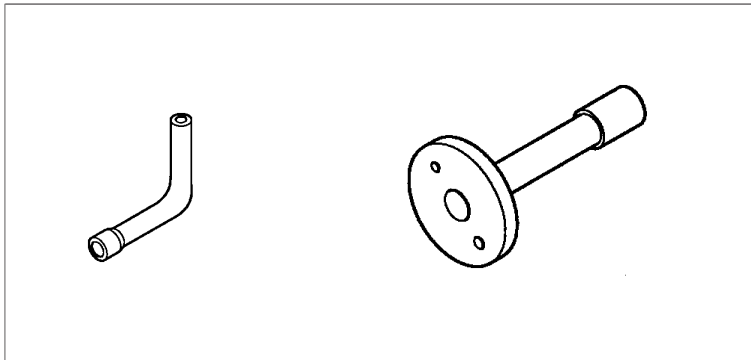
- Data is valid at free field condition
- dBA = A-weighted sound pressure level (A-scale according to IEC)
- Reference acoustic pressure 0dB = 20μPa



9 Accessories

9-1 Standard accessories

RYP200-250B7



9
9-1

9-2 Optional accessories

RY35-45EAZ7

Model	Option kit	EKDK02	EKDK03
RY35-45EAZ7V1		o	o

EKDK02: drain kit (10x joint)
EKDK03: drain kit (20x cap)

4TW00029-1

RYP71-125B7

Available options for RYP71-125B7(V1,W1,T1)

Name of option		Kit name		
		RYP71B	RYP100B	RYP125B
Central drain plug		KKPJ5F180		
Refrigerant branch piping	Twin	KHRP79BA7		
	Triple	~	KHRP96H7	

3TW23189-1

RYP200-250B7

Available options for RYP200-250B7W1

Option	Option name	RYP200B	RYP250B
Fan motor size up	NFM22C5	X	X
Kit for discharge duct	EKND26A10	X	X
Refnet	KHRP79BA7	Refer to the table with possible indoor combinations*	
Refnet	KHRP102BA7		
Refnet	KHRP127HA7		

3TW23619-2

*Table with possible indoor combinations = combination matrix 3TW23619-1 (See chapter RY-EAZ7/RYP-B7, twin/triple/double twin application)

10 Safety device settings



Split unit

Safety device	Model	RY35EAZ7V1	RY45EAZ7V1
Fan motor Thermal protector		Off 135 ±5°C On 86 ±15°C	Off 135 ±5°C On 87 ±15°C
Compressor Internal protector		Off 180 ±5°C On 100 ±15°C	Off 175 ±5°C On 100 ±10°C
Overload relay		Off 130 ±5°C On 95 ±10°C	Off 120 ±3°C On 95 ±10°C
Overcurrent relay		~	~

10

4TW01321-2A

11 Installation

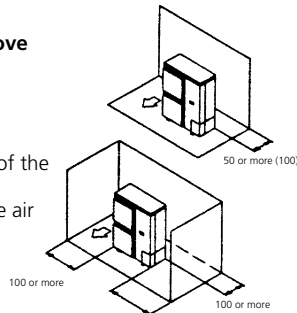


The numerical figures used here represent the dimensions for the models RYP71 to RYP25. The figures inside () indicate the dimensions for the models RYP100 and RY125. (Unit: mm)
 The figures inside < > indicate the dimension of discharge grille when it is installed facing downward
 When installing multiple units in lateral connection, discharge grille cannot be set to discharge air in Left/Right direction

(A) In case obstacles exist in front of the air inlet

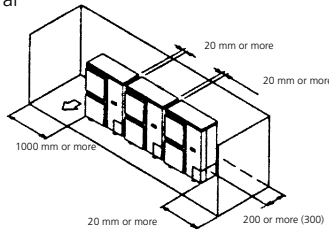
- Where there are no obstacles above the unit

- 1 Installation of single unit
 - In case obstacles exist only in front of the air inlet.
 - In case obstacles exist in front of the air inlet and on both sides of the unit.



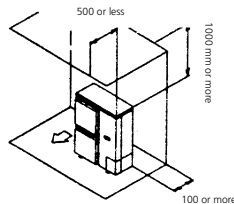
- 2 Installation of multiple units in lateral connection (2 units or more).

- In case obstacles exist in front of the air inlet and on both sides of the unit.

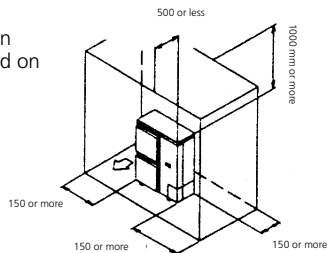


- Where there are obstacles above the unit.

- 1 Installation of single unit
 - In case obstacles exist only in front of the air inlet.

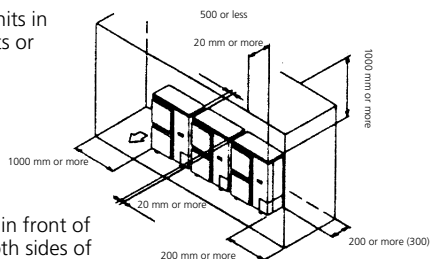


- In case obstacles exist in front of the air inlet and on both sides of the unit.



- 2 Installation of multiple units in lateral connection (2 units or more).

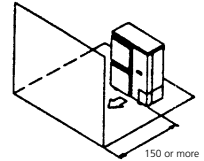
- In case obstacles exist in front of the air inlet and on both sides of the unit.



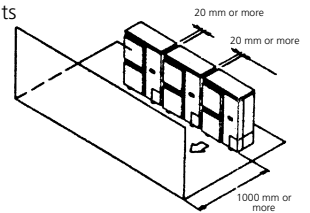
(B) In case obstacles exist only in front of outlet side

- Where there are no obstacles above the unit.

- 1 Installation of single unit
 - In case obstacles exist only in front of outlet side.

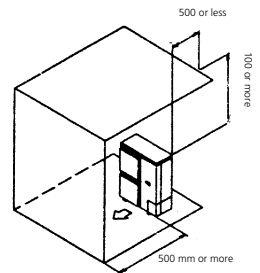


- 2 Installation of multiple units in lateral connection (2 units or more).



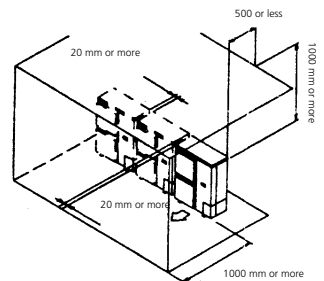
- Where there are obstacles above the unit.

- 1 Installation of single unit
 - In case obstacles exist only in front of outlet side.



- 2 Installation of multiple units in lateral connection (2 units or more).

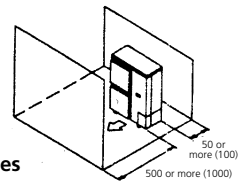
- In case obstacles exist only in front of outlet side.



(C) In case obstacles exist in front of both the air inlet and outlet sides.

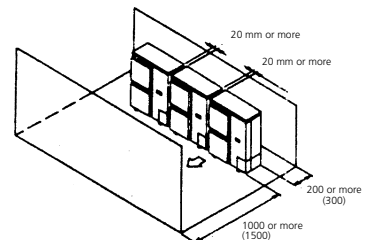
Pattern 1

Where obstacle in front of the air outlet is higher than the unit.



- Where there are no obstacles above the unit.

- 1 Installation of single unit.
- 2 Installation of multiple units in lateral connection (2 units or more).



11 Installation

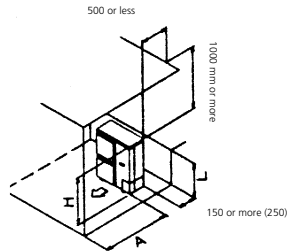


• **Where there are obstacles above the unit.**

1 Installation of single unit.

Relation of dimensions of H, A, and L are shown in the table below.

	L	A
L ≤ H	0 < L ≤ 1/2 H	750 < 1250 >
	1/2 H < L	1000 < 1500 >
H < L	Set the frame to be L ≤ H	



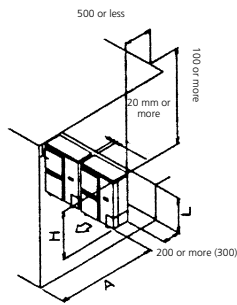
11

Get the lower part of the frame sealed so that air from the outlet does not bypass

2 Installation of multiple units in lateral connection (2 units or more).

Relation of dimensions of H, A, and L are shown in the table below.

	L	A
L ≤ H	0 < L ≤ 1/2 H	1000 < 1500 >
	1/2 H < L	1250 < 1750 >
H < L	Set the frame to be L ≤ H	



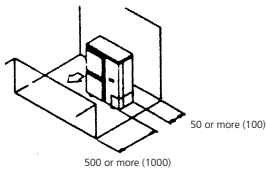
Get the lower part of the frame sealed so that air from the outlet does not bypass
Do not install more than 2 units

Pattern 2

Where obstacle in front of the air outlet is lower than the unit.

• **Where there are no obstacles above the unit.**

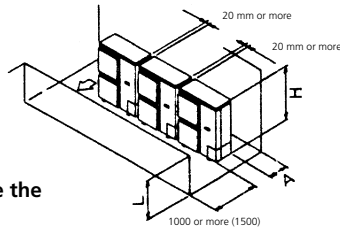
1 Installation of single unit.



2 Installation of multiple units in lateral connection (2 units or more).

Relation of dimensions of H, A, and L are shown in the table below.

	L	A
L ≤ H	0 < L ≤ 1/2 H	150 (250)
	1/2 H < L	200 (300)

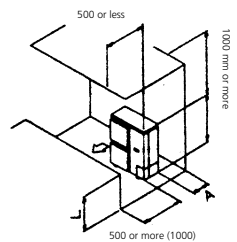


• **Where there are obstacles above the unit.**

1 Installation of single unit.

Relation of dimensions of H, A, and L are shown in the table below.

	L	A
L ≤ H	0 < L ≤ 1/2 H	50 (100)
	1/2 H < L	100 (200)
H < L	Set the frame to be L ≤ H	

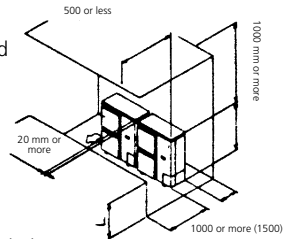


Get the lower part of the frame sealed so that air from the outlet does not bypass

2 Installation of multiple units in lateral connection (2 units or less).

Relation of dimensions of H, A, and L are shown in the table below.

	L	A
L ≤ H	0 < L ≤ 1/2 H	150 (250)
	1/2 H < L	200 (300)
H < L	Set the frame to be L ≤ H	



Get the lower part of the frame sealed so that air from the outlet does not bypass

Do not install more than 2 units

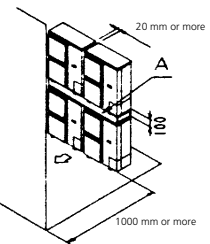
(D) In case of stacked installation

1 In case obstacles exist in front of the outlet side.

Do not stack more than one unit.

About 100mm is required as the dimension for laying the upper outdoor unit's drain pipe.

Get the portion A sealed so that air from the outlet does not bypass.

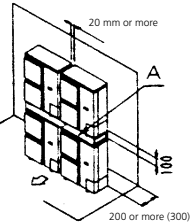


2 In case obstacles exist in front of the air inlet.

Do not stack more than one unit.

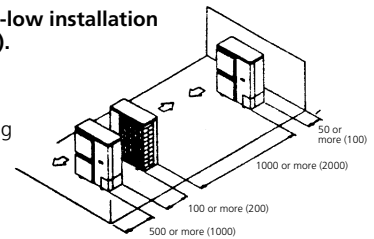
About 100mm is required as the dimension for laying the upper outdoor unit's drain pipe.

Get the portion A sealed so that air from the outlet does not bypass.

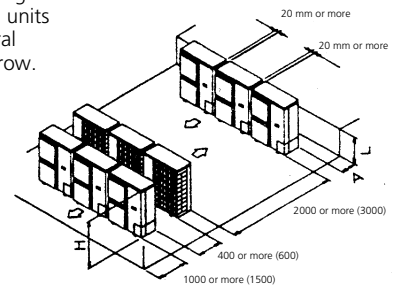


(E) In case of multiple-low installation (for roof top use, etc.).

1 In case of installing one unit per row.



2 In case of installing multiple units (2 units or more) in lateral connection per row.



Relation of dimensions of H, A, and L are shown in the table below.

	L	A
L ≤ H	0 < L ≤ 1/2 H	150 (250)
	1/2 H < L	200 (300)
H < L	Installation impossible	

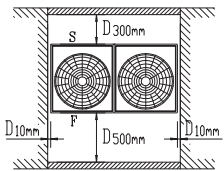
11 Installation



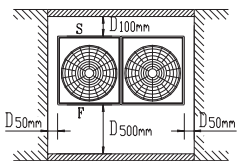
RYP200-250B7

Single installation

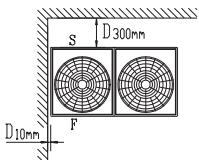
Case 1



Case 2

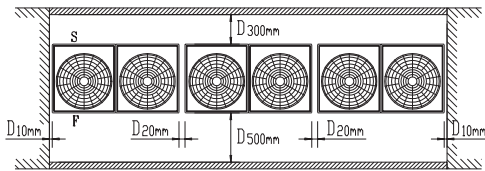


Case 3

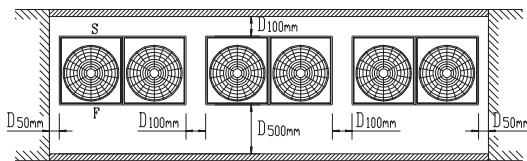


Installation in a row

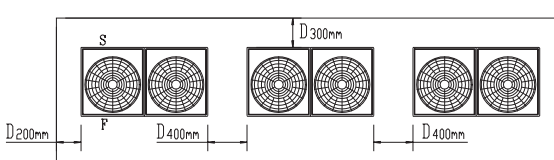
Case 1



Case 2

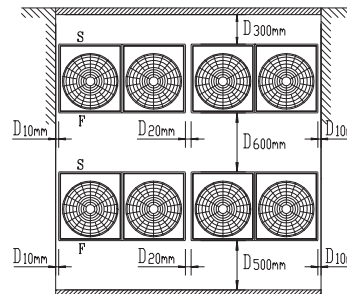


Case 3

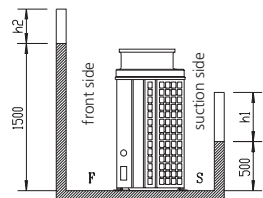
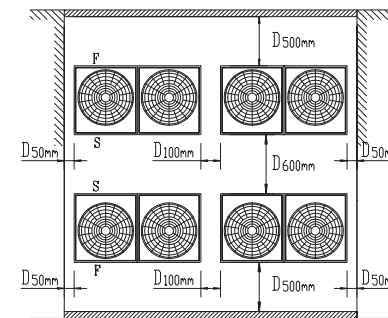
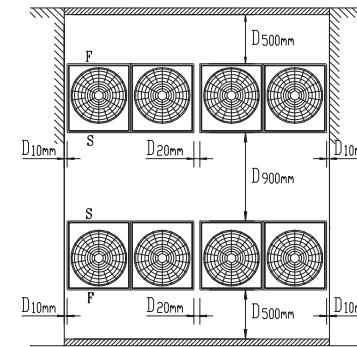
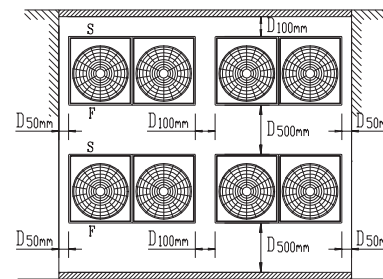


Concentrated installation

Case 1



Case 2



- 1 Case 1 and case 2
 - Front wall height is 1500mm
 - Suction wall height is 500mm
 - Side wall height has no limit
 - Case 3 wall height has no limit
- 2 If the wall is higher than mentioned in note 1: ADO h2/2 (front side) and ANO h1/2 (suction side) to the mentioned values for installation. (h1 and h2: see figure to the left)
- 3 Before installing, please check the passage of humans and air at the side, and select a place which is suitable for the case. (If there are a lot of units to be installed, take care that there is no shortcircuit of air)
- 4 Please install considering piping installation at the front side.

3TW23619-4

11 Installation



Refrigerant pipe size

1. Pair system (fig. 1)

Outdoor unit	Refrigerant pipe size	
	Gas pipe	Liquid pipe
RYP200	∅ 28.8	∅ 12.7
RYP250	∅ 28.8	∅ 15.9

1. Pair system

L1 (m) One way length of liquid pipe

RYP200	$G = (L1-30) \cdot 0.10$
RYP250	$G = (L1-30) \cdot 0.14$

11 Allowable pipe length

See the table below concerning lengths and heights. Refer to the figures. Assume that the longest line in the figure corresponds with the actual longest pipe, and the highest unit in the figure corresponds with the actual highest unit.

Maximum allowable pipe length (figures between parenthesis represent equivalent length)	Pair	L1	50m (70m)
Maximum height between indoor and outdoor	All	H1	30m

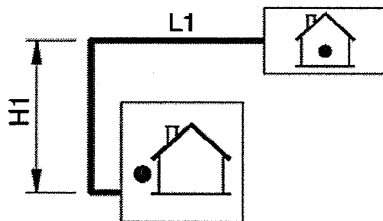


fig. 1: Pair