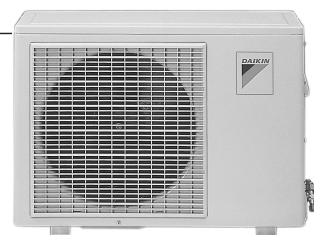


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1 Features



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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1



2 Specifications

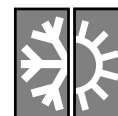


TECHNICAL SPECIFICATIONS							
OUTDOOR UNITS				REY18GA7V1	REY40GA7V1	RY22DB7V1	RY35DA7V1
DIMENSIONS	Unit	H	mm	540	660	540	660
		W	mm	750	880	750	880
		D	mm	270	350	270	350
WEIGHT	Unit	kg		29	50	37	50
MATERIAL	Unit	Painted metal					
COLOUR	Unit	Ivory white					
SOUND LEVEL	Sound pressure (cooling/heating) (1)	high	dBA	44/45	46/49	44/45	46/47
		low	dBA	-	-	-	-
	Sound power (cooling/heating) (2)		dBA	57/58	59/62	57/58	59/60
FAN	Air flow rate (cooling/heating)	high	m ³ /min	24/22	34/31	25/23	36/32
	Speed	steps		2 steps			
		high	rpm	685	560-610	710	610
		low	rpm	280	320-350	330	350
	Type			-	-	-	-
	Qty x model			1 x F62P15S22	1 x 19TFB6062	1 x F62P15S22	1 x 19TFB6062
	Qty x motor output		W	1 x 15	1 x 30	1 x 15	1 x 30
HEAT EXCHANGER	Type			WL fin, Hi-XA U-cooling tube			
	Rows x stages x fin pitch		mm	1 x 20 x 2.0	1 x 24 x 2.0	1 x 20 x 2.0	2 x 24 x 2.0
	Face area		m ²	0.381	0.513	0.381	0.513
REFRIGERANT CIRCUIT	Refrigerant type			R-22			
	Refrigerant charge		kg	0.65	1.1	0.85	1.2
	No. of circuits			max. 1	max. 1	max. 1	max. 1
COMPRESSOR	Type			Hermetically sealed rotary compressor			
	Qty x model			1 x RC21V1N-R	1 x RC60V1TNRT	1 x PS36AKRV1	1 x RC53V1TNRT
	No. of cylinders			-	-	1	-
	Speed		rpm	2,850	2,850	2,850	2,850
	Oil type			SUNISO 4GSDI			
	Oil charge		ℓ	0.4	0.85	0.4	0.85
	Crankcase heater		W	-	-	-	-
PIPING CONNECTIONS		liquid	mm	φ6.4	φ6.4	φ6.4	φ6.4
		gas	mm	φ9.5	φ12.7	φ9.5	φ12.7
		drain	mm	φ18 x 4	φ18 x 3	φ18	φ18 x 3
INSULATION MATERIAL	Heat insulation			Both liquid and gas pipes			

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2 Specifications



ELECTRICAL SPECIFICATIONS							
OUTDOOR UNITS				REY18GA7V1	REY40GA7V1	RY22DB7V1	RY35DA7V1
CURRENT	Nominal running current	cooling/heating	A	2.8	7.3	5.4/5.6	6.8/6.3
	Max. running current	cooling/heating	A	-	-	5.6	8.8
	Starting current	cooling/heating	A	-	-	24	35/35

OUTDOOR UNITS				REY18GA7V1	REY40GA7V1	RY22DB7V1	RY35DA7V1
POWER SUPPLY				V1	V1	V1	V1
NOMINAL DISTRIBUTION SYSTEM VOLTAGE	Phase			1~	1~	1~	1~
	Frequency	Hz		50	50	50	50
	Voltage	V		230	230	230	230

NOTES

- The sound pressure level is measured at 1m distance from the unit. 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: 15m (for REY18-40GA7 / RY22DB7), 20m (for RY35DA7)
Maximum allowable level difference: 10m (for REY18GA7), 15m (for REY40GA7 / RY22DB7 / RY35DA7).
- Additional refrigerant charge: 30g/m if piping length >8m (for REY18-40GA7), 10m >30g/m >15m (for RY22DB7), 30g/m if piping length >10m (for RY35DA7).

2 Specifications



TECHNICAL SPECIFICATIONS							
OUTDOOR UNITS				RY45DB7V1	RY60FA7V1	RY71B7V1/W1	RY100B7V1/W1
DIMENSIONS	Unit	H	mm	660	660	860	1,215
		W	mm	880	880	880	880
		D	mm	350	350	320	320
WEIGHT	Unit		kg	57	72	89/86	104/99
MATERIAL	Unit				Painted metal		Painted galvanised steel plate
COLOUR	Unit				Ivory white		
SOUND LEVEL	Sound pressure (cooling/heating) (1)	high	dBA	47/48	54/55	49/51	52/54
		low	dBA	-	-	-	-
	Sound power (cooling/heating) (2)		dBA	60/61	67/68	61/-	64/-
FAN	Air flow rate (cooling/heating)	high	m³/min	31/28	43/39	51/46	94/85
	Speed	steps		2 steps		3 steps	
		high	rpm	585	785	-	-
		low	rpm	335	455	-	-
	Type			-	-	-	-
	Qty x model			1 x 19TFB6062	1 x AF-220-49-6-1	1 x P47L11S	2 x P47L11S
	Qty x motor output		W	1 x 30	1 x 49	1 x 75	1 x (80 + 85)
HEAT EXCHANGER	Type				WL fin, Hi-XA U-cooling tube		
	Rows x stages x fin pitch		mm	2 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		m2	0.481	0.481	0.719	1.022
REFRIGERANT CIRCUIT	Refrigerant type				R-22		
	Refrigerant charge		kg	1.8	1.9	2	2.5
	No. of circuits			max. 1	max. 1	-	-
COMPRESSOR	Type				Hermetically sealed rotary compressor	Hermetically sealed scroll compressor	
	Qty x model				1 x RC70AV1TRT	1 x NH41VMDT	1 x (JT95BC-V1/JT95BC-YE) 1 x (JT125BC-V1/JT125BC-YE)
	No. of cylinders				1	1	- -
	Speed		rpm	2,850	2,850	-	-
	Oil type				SUNISO 4GSDI	DIAMOND MS32(N-1)	SUNISO 4GSDID-K
	Oil charge		ℓ	1	1.2	1.2	1.5
	Crankcase heater		W	-	-	33	33
PIPING CONNECTIONS		liquid	mm	φ6.4	φ9.5	φ9.5	φ9.5
		gas	mm	φ12.7	φ15.9	φ15.9	φ19.1
		drain	mm	φ18 x 3	φ18 x 3	φ26 x 3	φ26 x 3
INSULATION MATERIAL	Heat insulation				Both liquid and gas pipes		

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2

2 Specifications



TECHNICAL SPECIFICATIONS						
OUTDOOR UNITS				RY125B7W1	RY200F7W1	RY250F7W1
DIMENSIONS	Unit	H	mm	1,215	1,220	1,440
		W	mm	880	1,290	1,290
		D	mm	320	700	700
WEIGHT	Unit		kg	102	170	195
MATERIAL	Unit			Painted galvanised steel plate		
COLOUR	Unit			Ivory white		
SOUND LEVEL	Sound pressure (cooling/heating) (1)	high	dBA	52/54	57/57	57/57
		low	dBA	-	-	-
	Sound power (cooling/heating) (2)		dBA	64/-	77/78	77/78
FAN	Air flow rate (cooling/heating)	high	m ³ /min	91/82	160	170
	Speed	steps		3 steps	2 steps	
		high	rpm	-	-	-
		low	rpm	-	-	-
	Type			-	-	-
	Qty x model			2 x P47L11S	1 x P55J11F	1 x JT236D-YE@2
	Qty x motor output		W	1 x (80+85)	1 x (230+190)	1 x (230+140)
HEAT EXCHANGER	Type			Non symm. waffle louvre, Hi-XA U-cooling tube	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	2 x 50 x 2
	Face area		m ²	1,022	1,57	1,97
REFRIGERANT CIRCUIT	Refrigerant type			R-22		
	Refrigerant charge		kg	3	4.65	6.425
	No. of circuits			-	-	-
COMPRESSOR	Type			Hermetically sealed scroll compressor		
	Qty x model			1 x JT60BC-YE	1 x JT236D-YE@2	1 x JT300D-YE@2
	No. of cylinders			-	-	-
	Speed		rpm	-	2,900	2,900
	Oil type			SUNISO 4GSDID-K		
	Oil charge		ℓ	1.5	4	4
	Crankcase heater		W	33	50	50
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		

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2 Specifications



ELECTRICAL SPECIFICATIONS							
OUTDOOR UNITS				RY45DB7V1	RY60FA7V1	RY71B7V1/W1	RY100B7V1/W1
CURRENT	Nominal running current	cooling/heating	A	8.9/8.1	10.9/10.7	-	-
	Max. running current	cooling/heating	A	11.5/11.5	13.5/13.5	-	-
	Starting current	cooling/heating	A	39/39	53/53	-	-

OUTDOOR UNITS				RY45DB7V1	RY60FA7V1	RY71B7V1/W1	RY100B7V1/W1
POWER SUPPLY				V1	V1	V1/W1	V1/W1
NOMINAL DISTRIBUTION SYSTEM VOLTAGE	Phase			1~	1~	1~/3N~	1~/3N~
	Frequency	Hz		50	50	50	50
	Voltage	V		230	230	230/400	230/400
	Voltage tolerance	%		-	-	+/-10	+/-10

ELECTRICAL SPECIFICATIONS							
OUTDOOR UNITS				RY125B7W1	RY200F7W1	RY250F7W1	
CURRENT	Nominal running current	cooling/heating	A	-	18.4	19.2	
	Max. running current	cooling/heating	A	-	21.5	22.5	
	Starting current	cooling/heating	A	-	-	-	

OUTDOOR UNITS				RY125B7W1	RY200F7W1	RY250F7W1	
POWER SUPPLY				W1	W1	W1	
NOMINAL DISTRIBUTION SYSTEM VOLTAGE	Phase			3N~	3N~	3N~	
	Frequency	Hz		50	50	50	
	Voltage	V		400	400	400	
	Voltage tolerance	%		+/-10	+/-10	+/-10	

NOTES

- The sound pressure level is measured at 1m distance from the unit. 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: 25m (for RY45DB7 / RY60FA7), 50m (for RY71-125B7), 50m-70m equivalent (for RY200-250F7).
Maximum allowable level difference: 15m (for RY45DB7 / RY60FA7), 30m (for RY71-125B7 / RY200-250F7).
- Additional refrigerant charge: 30g/m if piping length >10m (for RY35DA7 / RY45DB7), 50g/m if piping length >10m (for RY60FA7), 7.5m >50g/m >50m (for RY71-125B7), 30g/m >7.5m (for RY200F7), 50g/m >7.5m (for RY250F7).

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2 Specifications



ELECTRICAL DATA

REY18GA7V1

Connection ratio (%)	Indoor unit	Power supply					Compressor		OFM		IFM		EH	
		Hz-Volts	Voltage range	MCA	TOCA	MFA	LRA	RLA	W	FLA	W	FLA	W	FLA
–	FTY18JV1B	50-220 50-230 50-240	MAX. 264V MIN. 198V	3.2	–	15.0	15	2.3	15	0.2	19	0.2	–	–

3TW01041-3B

REY40GA7V1

Connection ratio (%)	Indoor unit	Power supply					Compressor		OFM		IFM		EH	
		Hz-Volts	Voltage range	MCA	TOCA	MFA	LRA	RLA	W	FLA	W	FLA	W	FLA
–	FTY40GV1B	50-220 50-230 50-240	Max. 264V Min. 198V	8.8	~	20.0	34	6.6	30	0.3	18	0.2	–	–
–	FLY40GAV1NB	50-220 50-230 50-240	Max. 264V Min. 198V	8.8	~	20.0	34	6.6	30	0.3	34	0.3	–	–

3TW0111-3C

RY22DB7V1

Connection ratio (%)	Indoor unit	Power supply					Compressor		OFM		IFM		EH	
		Hz-Volts	Voltage range	MCA	TOCA	MFA	LRA	RLA	W	FLA	W	FLA	W	FLA
–	FTY22JV1B	50-220 50-230 50-240	MAX. 264V MIN. 198V	6.8	–	15.0	24	5.1	15	0.2	19	0.2	–	–
–	FLY22GAV1NB	50-220 50-230 50-240	MAX. 264V MIN. 198V	6.7	–	15.0	24	5.0	15	0.2	34	0.3	–	–

3TW00061-2C

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
W	: Rated motor output (W)
EH	: Electric Heater

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



RY35DA7V1

Connection ratio (%)	Indoor unit	Power supply					Compressor		OFM		IFM		EH	
		Hz-Volts	Voltage range	MCA	TOCA	MFA	LRA	RLA	W	FLA	W	FLA	W	FLA
–	FTY35JV1B	50-220 50-230 50-240	MAX. 264V MIN. 198V	8.5	–	15.0	33	6.4	30	0.3	19	0.2	–	–
–	FLY35GAV1NB	50-220 50-230 50-240	MAX. 264V MIN. 198V	8.4	–	15.0	33	6.2	30	0.3	34	0.3	–	–

3TW00641-2D

RY45DB7V1

Connection ratio (%)	Indoor unit	Power supply					Compressor		OFM		IFM		EH	
		Hz-Volts	Voltage range	MCA	TOCA	MFA	LRA	RLA	W	FLA	W	FLA	W	FLA
–	FTY45GAV1B	50-220 50-230 50-240	MAX. 264V MIN. 198V	12.3	–	25.0	36	9.4	30	0.3	130	0.2	–	–
–	FLY45GAV1NB	50-220 50-230 50-240	MAX. 264V MIN. 198V	12.3	–	25.0	36	9.3	30	0.3	34	0.3	–	–

3TW01141-2C

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
W	: Rated motor output (W)
EH	: Electric Heater

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 x RLA + ea. FLA + 1.25 x EH FLA
MFA < 2.25 x RLA + ea. FLA + 2.25 x EH FLA
(next lower standard fuse rating, min.15A)

RY60FA7V1

Connection ratio (%)	Indoor unit	Power supply					Compressor		OFM		IFM	
		Hz-Volts	Voltage range	MCA	TOCA	MFA	LRA	RLA	W	FLA	W	FLA
–	FTY60GAV1B	50-220 50-230 50-240	MAX. 254V MIN. 198V	13.0	–	20	52 55 58	9.9 9.6 9.3	55.3	0.3	130	0.6

3TW01152-2B

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
W	: Rated motor output (W)

NOTES

1. RLA is based on the following conditions:
Indoor temperature 27°CDB/19°CWB
Outdoor temperature 35°CDB
2. TOCA means the total value of each OC set.
3. Maximum allowable voltage variation between phases is 2%
4. Select wire size based on the larger value of MCA or TOCA.
5. Instead of fuse, use circuit breaker
6. Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed operation range limits

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2

2 Specifications



RY71B7V1/W1

Connection ratio (%)	Indoor unit	Power supply					Compressor		OFM		IFM	
		Hz-Volts	Voltage range	MCA	TOCA	MFA	LRA	RLA	KW	FLA	KW	FLA
FHYC71/FUY71	RY71B7V1	50-230	Max. 50Hz-264V Min. 50Hz-198V	18.8	23.3	32	93	14.0	0.075	0.7	0.045	0.6
FHY71	RY71B7V1	50-230		18.8	23.3	32	93	14.0	0.075	0.7	0.062	0.6
FHYK71	RY71B7V1	50-230		18.7	23.2	32	93	14.0	0.075	0.7	0.045	0.5
FAY71	RY71B7V1	50-230		18.5	23.0	32	93	14.0	0.075	0.7	0.046	0.3
FHYB71	RY71B7V1	50-230		19.1	23.6	32	93	14.0	0.075	0.7	0.125	0.9
FHYC71/FUY71	RY71B7W1	50-400/230	Max. 50Hz-456V/264V Min. 50Hz-342V/198V	7.6	8.8	16	46	5.0	0.075	0.7	0.045	0.6
FHY71	RY71B7W1	50-400/230		7.6	8.8	16	46	5.0	0.075	0.7	0.062	0.6
FHYK71	RY71B7W1	50-400/230		7.5	8.7	16	46	5.0	0.075	0.7	0.045	0.5
FAY71	RY71B7W1	50-400/230		7.3	8.5	16	46	5.0	0.075	0.7	0.046	0.3
FHYB71	RY71B7W1	50-400/230		7.9	9.1	16	46	5.0	0.075	0.7	0.125	0.9

3TW23209-2

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

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
 $MCA = 1.25 \times RLA + ea. FLA$
 $MFA \leq 2.25 \times RLAA + ea. FLA$
(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



RY100B7V1/W1

Connection ratio (%)	Indoor unit	Power supply					Compressor		OFM		IFM	
		Hz-Volts	Voltage range	MCA	TOCA	MFA	LRA	RLA	KW	FLA	KW	FLA
FHYC100/ FUY100	RY100B7V1	50-230	Max. 50Hz-264V Min. 50Hz-198V	24.0	28.5	40	114	17.2	0.085 + 0.08	0.84 + 0.7	0.09	1.0
FHY100	RY100B7V1	50-230		23.7	28.2	40	114	17.2	0.085 + 0.08	0.84 + 0.7	0.13	0.7
FAY100	RY100B7V1	50-230		23.4	27.9	40	114	17.2	0.085 + 0.08	0.84 + 0.7	0.049	0.4
FHYB100	RY100B7V1	50-230		24.0	28.5	40	114	17.2	0.085 + 0.08	0.84 + 0.7	0.135	1.0
FHYC100/ FUY100	RY100B7W1	50-400/230	Max. 50Hz-456V/264V Min. 50Hz-342V/198V	10.3	12.5	16	53	6.2	0.085 + 0.08	0.84 + 0.7	0.09	1.0
FHY100	RY100B7W1	50-400/230		10.0	12.2	16	53	6.2	0.085 + 0.08	0.84 + 0.7	0.13	0.7
FAY100	RY100B7W1	50-400/230		9.7	11.9	16	53	6.2	0.085 + 0.08	0.84 + 0.7	0.049	0.4
FHYB100	RY100B7W1	50-400/230		10.3	12.5	16	53	6.2	0.085 + 0.08	0.84 + 0.7	0.135	1.0

3TW23249-2

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

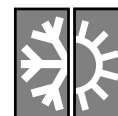
NOTES

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
 $MCA = 1.25 \times RLA + ea. FLA$
 $MFA \leq 2.25 \times RLAA + ea. FLA$
(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

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2

2 Specifications



RY125B7W1

Unit combination		Power supply					Compressor		OFM		IFM	
Indoor	Outdoor	Hz-Volts	Voltage range	MCA	TOCA	MFA	LRA	RLA	KW	FLA	KW	FLA
FHYC125/ FUY125	RY125B7W1	50-400/230	Max. 50Hz-456V/264V Min. 50Hz-342V/198V	12.0	15.5	20	70	7.6	0.085 + 0.08	0.84 + 0.7	0.09	1.0
FHY125	RY125B7W1	50-400/230		11.7	15.2	20	70	7.6	0.085 + 0.08	0.84 + 0.7	0.13	0.7
FDY125	RY125B7W1	50-400/230		15.2	18.7	20	70	7.6	0.085 + 0.08	0.84 + 0.7	0.5	4.2
FHYB125	RY125B7W1	50-400/230		12.4	15.9	20	70	7.6	0.085 + 0.08	0.84 + 0.7	0.225	1.4

3TW23279-2

RY200-250F7W1

Unit combination		Power supply				Compressor		OFM		IFM	
Indoor	Outdoor	Hz-Volts	Voltage range	MCA	MFA	LRA	RLA	KW	FLA	KW	FLA
FDY200F7V1	RY200F7W1	50-400	Max. 440V Min. 360V	16.1	25 + 16	109	10.7	0.19 + 0.23	1.28 + 1.43	650	6.8
FDY250F7V1	RY250F7W1	50-400		19.3	32 + 16	109	13.4	0.14 + 0.23	1.1 + 1.43	1000	7.6

3TW21481-2

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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

NOTES

1. RLA is based on the following conditions:
Indoor temp.: 27°CDB/19.0°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
 $MCA = 1.25 \times RLA + ea. FLA$
 $MFA \leq 2.25 \times RLAA + ea. FLA$
(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

3 Capacity tables



REY18GA7V1 + FTY18JV1B

Cooling capacity

230V [50Hz]

Model	FTY
AFR	7.1
BF	0.27

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	1.81	1.62	0.42	1.65	1.55	0.46	1.43	1.45	0.53	1.33	1.41	0.56	1.17	1.34	0.60	1.08	1.30	0.63
14.0	20.0	1.96	1.68	0.43	1.80	1.61	0.47	1.57	1.51	0.54	1.48	1.47	0.57	1.32	1.40	0.61	1.23	1.36	0.64
16.0	22.0	2.10	1.74	0.44	1.94	1.67	0.48	1.72	1.58	0.55	1.63	1.53	0.58	1.47	1.46	0.62	1.37	1.42	0.65
18.0	25.0	2.25	1.81	0.45	2.09	1.74	0.49	1.87	1.64	0.56	1.78	1.60	0.59	1.62	1.53	0.63	1.52	1.48	0.66
19.0	27.0	2.33	1.84	0.45	2.17	1.77	0.50	1.95	1.67	0.56	1.85	1.63	0.59	1.69	1.56	0.64	1.60	1.52	0.66
22.0	30.0	2.55	1.93	0.47	2.39	1.86	0.51	2.17	1.76	0.58	2.07	1.72	0.61	1.91	1.65	0.65	1.82	1.61	0.68
24.0	32.0	2.70	2.00	0.48	2.54	1.93	0.52	2.32	1.83	0.59	2.22	1.78	0.62	2.06	1.71	0.66	1.97	1.67	0.69

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

24
3

REY18GA7V1 + FTY18JV1B

Heating capacity

230V [50Hz]

Model	FTY
AFR	6.6

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	0.96	0.43	1.26	0.45	1.56	0.47	1.92	0.49	2.16	0.51	~	~
11.0	18.0	0.92	0.44	1.22	0.46	1.52	0.48	1.88	0.51	2.12	0.52	~	~
12.0	20.0	0.89	0.45	1.19	0.48	1.49	0.50	1.85	0.52	2.09	0.54	2.39	0.56
13.0	21.0	0.87	0.46	1.17	0.48	1.47	0.50	1.83	0.53	2.07	0.54	2.37	0.56
14.0	22.0	0.85	0.47	1.16	0.49	1.46	0.51	1.82	0.53	2.06	0.55	2.36	0.57
15.0	24.0	0.82	0.48	1.12	0.50	1.42	0.52	1.78	0.55	2.02	0.56	2.32	0.58

3TW01042-1B

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



REY18GA7V1 + FHEYB18BA7V1

Cooling capacity

230V [50Hz]

Model FHEYB	18
AFR	6.50
BF	0.43

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	1.76	1.52	0.44	1.60	1.46	0.49	1.39	1.36	0.55	1.29	1.32	0.58	1.14	1.26	0.63	1.05	1.22	0.66
14.0	20.0	1.90	1.58	0.45	1.75	1.51	0.50	1.53	1.42	0.56	1.44	1.38	0.59	1.28	1.32	0.64	1.19	1.28	0.67
16.0	22.0	2.05	1.64	0.46	1.89	1.57	0.51	1.68	1.48	0.58	1.58	1.44	0.60	1.43	1.38	0.65	1.34	1.34	0.68
18.0	25.0	2.19	1.70	0.47	2.04	1.63	0.52	1.82	1.54	0.59	1.73	1.50	0.61	1.57	1.43	0.66	1.48	1.39	0.69
19.0	27.0	2.26	1.73	0.48	2.11	1.66	0.52	1.89	1.57	0.59	1.80	1.53	0.62	1.65	1.46	0.67	1.55	1.42	0.70
22.0	30.0	2.48	1.82	0.49	2.33	1.75	0.54	2.11	1.66	0.61	2.02	1.62	0.64	1.86	1.55	0.68	1.77	1.51	0.71
24.0	32.0	2.62	1.88	0.50	2.47	1.81	0.55	2.25	1.72	0.62	2.16	1.68	0.65	2.01	1.61	0.69	1.91	1.57	0.72

3TW01042-2A

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)	

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
 $SHC^* = SHC \text{ correction for other dry bulb}$
 $SHC^* = 0.34 \times 60 \times AFR \text{ (m}^3\text{/min)} \times (DB-EDB)/1000$
 Add SHC* to SHC if SHC > TC, then TC equal SHC
- Add the correction value to power input (W) as shown above
- 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

24

3

Caution:

TC and SHC are shown by kW

REY18GA7V1 + FHEYB18BA7V1

Heating capacity

230V [50Hz]

Model FHEYB	18
AFR	7.10

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	0.84	0.46	1.19	0.49	1.53	0.51	1.95	0.55	2.23	0.57	---	---
11.0	18.0	0.79	0.48	1.14	0.50	1.48	0.53	1.90	0.56	2.18	0.58	---	---
12.0	20.0	0.74	0.49	1.09	0.52	1.43	0.54	1.85	0.58	2.13	0.60	2.47	0.62
13.0	21.0	0.71	0.50	1.06	0.53	1.41	0.55	1.82	0.58	2.10	0.60	2.45	0.63
14.0	22.0	0.69	0.51	1.04	0.53	1.38	0.56	1.80	0.59	2.08	0.61	2.42	0.64
15.0	24.0	0.64	0.52	0.99	0.55	1.33	0.57	1.75	0.60	2.03	0.63	2.37	0.65

3TW01042-3A

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)	

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.

Caution:

TC is shown by kW

3 Capacity tables



REY40GA7V1 + FTY40GV1B + FLY40GAV1NB

Cooling capacity

230V [50Hz]

Model	FTY	FLY
AFR	8.5	7
BF	0.2	0.2

Correction	TC	SHC	PI
FLY	0	0	-0.005

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	3.46	2.76	1.21	3.31	2.70	1.32	3.10	2.62	1.47	3.01	2.58	1.54	2.87	2.52	1.65	2.78	2.49	1.72
14.0	20.0	3.71	2.80	1.23	3.56	2.74	1.34	3.36	2.66	1.50	3.27	2.62	1.57	3.12	2.56	1.68	3.03	2.53	1.74
16.0	22.0	3.96	2.85	1.26	3.82	2.79	1.37	3.61	2.70	1.52	3.52	2.67	1.59	3.37	2.61	1.70	3.28	2.57	1.77
18.0	25.0	4.22	2.89	1.28	4.07	2.83	1.39	3.86	2.74	1.55	3.77	2.71	1.62	3.63	2.65	1.73	3.54	2.61	1.80
19.0	27.0	4.34	2.91	1.29	4.20	2.85	1.41	3.99	2.77	1.56	3.90	2.73	1.63	3.75	2.67	1.74	3.66	2.63	1.81
22.0	30.0	4.72	2.97	1.33	4.58	2.91	1.44	4.37	2.83	1.60	4.28	2.79	1.67	4.13	2.73	1.78	4.04	2.70	1.85
24.0	32.0	4.98	3.02	1.36	4.83	2.96	1.47	4.62	2.87	1.63	4.53	2.84	1.69	4.38	2.78	1.81	4.30	2.74	1.87

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
 $SHC^* = SHC \text{ correction for other dry bulb}$
 $SHC^* = 0.34 \times 60 \times AFR \text{ (m}^3\text{/min)} \times (DB-EDB)/1000$
 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

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3

REY40GA7V1 + FTY40GV1B + FLY40GAV1NB

Heating capacity

230V [50Hz]

Model	FTY	FLY
AFR	9.1	7.8

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	2.88	1.20	3.50	1.31	4.12	1.42	4.87	1.55	5.37	1.64	~	~
11.0	18.0	2.80	1.24	3.42	1.35	4.04	1.45	4.78	1.58	5.28	1.67	~	~
12.0	20.0	2.71	1.27	3.33	1.38	3.95	1.49	4.70	1.62	5.20	1.71	5.82	1.82
13.0	21.0	2.67	1.29	3.29	1.40	3.91	1.51	4.66	1.64	5.15	1.72	5.78	1.83
14.0	22.0	2.63	1.31	3.25	1.42	3.87	1.53	4.62	1.66	5.11	1.74	5.73	1.85
15.0	24.0	2.54	1.34	3.16	1.45	3.78	1.56	4.53	1.69	5.03	1.78	5.65	1.89

3TW01112-1C

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



RY22DB7V1 + FTY22JV1B FLY22GAV1NB

Cooling capacity

230V [50Hz]

Model	FTY	FLY
AFR	6.6	7.6
BF	0.24	0.21

Correction	TC	SHC	PI
FLY	0	0	+0.06

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	2.49	2.04	0.88	2.32	1.94	0.94	2.09	1.81	1.03	1.99	1.75	1.06	1.83	1.65	1.13	1.63	1.53	1.20
14.0	20.0	2.65	2.10	0.89	2.48	2.00	0.95	2.25	1.86	1.04	2.15	1.80	1.07	1.99	1.71	1.14	1.79	1.59	1.21
16.0	22.0	2.81	2.16	0.90	2.64	2.06	0.96	2.41	1.92	1.05	2.31	1.86	1.08	2.14	1.77	1.15	1.95	1.65	1.22
18.0	25.0	2.97	2.22	0.91	2.80	2.12	0.97	2.57	1.98	1.06	2.47	1.92	1.09	2.30	1.82	1.16	2.10	1.71	1.23
19.0	27.0	3.05	2.24	0.92	2.88	2.15	0.98	2.65	2.01	1.06	2.55	1.95	1.10	2.38	1.85	1.16	2.18	1.74	1.24
22.0	30.0	3.29	2.33	0.93	3.12	2.23	0.99	2.89	2.10	1.08	2.79	2.04	1.12	2.62	1.94	1.18	2.42	1.82	1.25
24.0	32.0	3.45	2.39	0.94	3.28	2.29	1.00	3.05	2.16	1.09	2.95	2.10	1.13	2.78	2.00	1.19	2.58	1.88	1.26

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)	

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

24

3

Caution:
TC and SHC are shown by kW

RY22DB7V1 + FTY22JV1B FLY22GAV1NB

Heating capacity

230V [50Hz]

Model	FTY	FLY
AFR	7.3	9.2

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	1.93	0.97	2.34	1.01	2.76	1.05	3.25	1.11	3.58	1.14	~	~
11.0	18.0	1.91	0.99	2.32	1.03	2.73	1.07	3.23	1.12	3.55	1.16	~	~
12.0	20.0	1.88	1.00	2.29	1.05	2.71	1.09	3.20	1.14	3.53	1.17	3.94	1.22
13.0	21.0	1.87	1.01	2.28	1.05	2.69	1.10	3.19	1.15	3.52	1.18	3.93	1.23
14.0	22.0	1.86	1.02	2.27	1.06	2.68	1.11	3.18	1.16	3.50	1.19	3.92	1.23
15.0	24.0	1.83	1.04	2.24	1.08	2.66	1.12	3.15	1.17	3.48	1.21	3.89	1.25

3TW00062-2C

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)	

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.

Caution:
TC is shown by kW

3 Capacity tables



RY35DA7V1 + FTY35JV1B + FLY35GAV1NB

Cooling capacity

230V [50Hz]

Model	FTY	FLY
AFR	7.8	8.7
BF	0.28	0.31

Correction	TC	SHC	PI
FLY	0	0	+0.03

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	3.46	2.63	1.04	3.30	2.55	1.14	3.07	2.43	1.29	2.97	2.37	1.35	2.80	2.29	1.45	2.60	2.19	1.58
14.0	20.0	3.61	2.67	1.06	3.45	2.58	1.17	3.22	2.46	1.31	3.12	2.41	1.38	2.95	2.32	1.48	2.76	2.22	1.60
16.0	22.0	3.77	2.70	1.09	3.60	2.62	1.19	3.37	2.50	1.34	3.27	2.45	1.40	3.11	2.36	1.50	2.91	2.26	1.63
18.0	25.0	3.92	2.74	1.12	3.75	2.65	1.22	3.52	2.53	1.36	3.42	2.48	1.43	3.26	2.40	1.53	3.06	2.29	1.66
19.0	27.0	3.99	2.76	1.13	3.83	2.67	1.23	3.60	2.55	1.38	3.50	2.50	1.44	3.34	2.41	1.54	3.14	2.31	1.67
22.0	30.0	4.22	2.81	1.17	4.06	2.72	1.27	3.83	2.60	1.42	3.73	2.55	1.48	3.56	2.47	1.58	3.37	2.36	1.71
24.0	32.0	4.38	2.85	1.19	4.21	2.76	1.30	3.98	2.64	1.44	3.88	2.59	1.50	3.72	2.50	1.61	3.52	2.40	1.73

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

24

3

RY35DA7V1 + FTY35JV1B + FLY35GAV1NB

Heating capacity

230V [50Hz]

Model	FTY	FLY
AFR	8.0	10

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	1.26	3.08	1.32	3.58	1.38	4.17	1.45	4.57	1.49	-	-
11.0	18.0	2.55	1.29	3.05	1.34	3.54	1.40	4.14	1.47	4.53	1.52	-	-
12.0	20.0	2.52	1.31	3.01	1.37	3.51	1.43	4.10	1.50	4.50	1.55	4.99	1.60
13.0	21.0	2.50	1.33	3.00	1.39	3.49	1.44	4.08	1.51	4.48	1.56	4.97	1.62
14.0	22.0	2.48	1.34	2.98	1.40	3.47	1.46	4.07	1.53	4.46	1.57	4.95	1.63
15.0	24.0	2.45	1.37	2.94	1.43	3.44	1.49	4.03	1.56	4.43	1.60	4.92	1.66

3TW00642-10C

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



RY45DB7V1 + FTY45GAV1B + FLY45GAV1NB

Cooling capacity

230V [50Hz]

Model	FTY	FLY
AFR	11.8	10.7
BF	0.23	0.23

Correction	TC	SHC	PI
FLY	-0.20	-0.13	0

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	3.20	1.44	4.36	3.13	1.60	4.06	3.02	1.82	3.94	2.98	1.92	3.73	2.90	2.08	3.48	2.81	2.28
14.0	20.0	4.84	3.26	1.48	4.63	3.19	1.64	4.34	3.08	1.86	4.21	3.04	1.96	4.00	2.96	2.12	3.75	2.87	2.32
16.0	22.0	5.12	3.32	1.52	4.91	3.25	1.68	4.61	3.14	1.90	4.49	3.10	2.00	4.28	3.02	2.16	4.03	2.93	2.36
18.0	25.0	5.39	3.38	1.56	5.18	3.31	1.72	4.89	3.20	1.94	4.76	3.16	2.04	4.55	3.08	2.20	4.30	2.99	2.40
19.0	27.0	5.53	3.41	1.58	5.32	3.34	1.74	5.03	3.23	1.96	4.90	3.19	2.06	4.69	3.11	2.22	4.44	3.02	2.42
22.0	30.0	5.94	3.50	1.64	5.73	3.43	1.80	5.44	3.32	2.02	5.31	3.28	2.12	5.10	3.20	2.28	4.85	3.11	2.48
24.0	32.0	6.22	3.56	1.68	6.01	3.49	1.84	5.71	3.38	2.06	5.59	3.34	2.16	5.38	3.26	2.32	5.13	3.17	2.52

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)	

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

24

3

Caution:
TC and SHC are shown by kW

RY45DB7V1 + FTY45GAV1B + FLY45GAV1NB

Heating capacity

230V [50Hz]

Model	FTY	FLY
AFR	14.9	11.5

Correction	TC	PI
FLY	0	+0.01

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	3.65	1.62	4.26	1.69	4.87	1.76	5.61	1.84	6.10	1.89	~	~
11.0	18.0	3.62	1.65	4.23	1.72	4.84	1.79	5.58	1.87	6.07	1.92	~	~
12.0	20.0	3.59	1.68	4.20	1.75	4.81	1.82	5.55	1.90	6.04	1.95	6.66	2.02
13.0	21.0	3.57	1.70	4.18	1.77	4.80	1.83	5.54	1.92	6.03	1.97	6.64	2.04
14.0	22.0	3.56	1.71	4.17	1.78	4.78	1.85	5.52	1.93	6.01	1.98	6.63	2.05
15.0	24.0	3.53	1.74	4.14	1.81	4.75	1.88	5.49	1.96	5.98	2.01	6.60	2.08

3TW01142-1C

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)	

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.

Caution:
TC is shown by kW

3 Capacity tables



RY60FA7V1 + FTY60GAV1B

Model	FTY
AFR	13.3
BF	0.2

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	5.60	4.22	1.51	5.34	4.14	1.75	4.97	4.04	2.08	4.81	3.99	2.22	4.55	3.92	2.46	4.23	3.83	2.74
14.0	20.0	5.94	4.28	1.57	5.68	4.20	1.81	5.31	4.10	2.14	5.15	4.05	2.28	4.89	3.98	2.52	4.57	3.89	2.80
16.0	22.0	6.28	4.34	1.63	6.02	4.26	1.87	5.65	4.16	2.20	5.49	4.11	2.34	5.23	4.04	2.58	4.91	3.95	2.86
18.0	25.0	6.62	4.40	1.69	6.36	4.32	1.93	5.99	4.22	2.26	5.83	4.17	2.40	5.57	4.10	2.64	5.25	4.01	2.92
19.0	27.0	6.79	4.43	1.72	6.53	4.35	1.96	6.16	4.25	2.29	6.00	4.20	2.43	5.74	4.13	2.67	5.42	4.04	2.95
22.0	30.0	7.30	4.52	1.81	7.04	4.44	2.05	6.67	4.34	2.38	6.51	4.29	2.52	6.25	4.22	2.76	5.93	4.13	3.04
24.0	32.0	7.64	4.58	1.87	7.38	4.50	2.11	7.01	4.40	2.44	6.85	4.35	2.58	6.59	4.28	2.82	6.27	4.19	3.10

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

24

3

RY60FA7V1 + FTY60GAV1B

Model	FTY
AFR	15.5

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	4.11	1.47	5.09	1.71	6.06	1.95	7.23	2.24	8.01	2.43	~	~
11.0	18.0	4.07	1.55	5.05	1.79	6.02	2.03	7.19	2.32	7.97	2.51	~	~
12.0	20.0	4.03	1.63	5.01	1.87	5.98	2.11	7.15	2.40	7.93	2.59	8.90	2.83
13.0	21.0	4.01	1.67	4.99	1.91	5.96	2.15	7.13	2.44	7.91	2.63	8.88	2.87
14.0	22.0	3.99	1.71	4.97	1.95	5.94	2.19	7.11	2.48	7.89	2.67	8.86	2.91
15.0	24.0	3.95	1.79	4.93	2.03	5.90	2.27	7.07	2.56	7.85	2.75	8.82	3.0

3TW01152-1B

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.

FHYB35~60FK7V1 + RY35DA7V1/RY45DB7V1/RY60FA7V1

Cooling capacity

230V [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
35	12.0	18.0	3.69	2.60	1.22	3.53	2.52	1.33	3.30	2.42	1.47	3.20	2.37	1.54	3.04	2.29	1.64	2.84	2.21	1.77
	14.0	20.0	3.87	2.64	1.25	3.70	2.57	1.36	3.47	2.46	1.51	3.38	2.41	1.57	3.21	2.34	1.67	3.02	2.24	1.79
	16.0	22.0	4.04	2.67	1.29	3.88	2.60	1.39	3.65	2.49	1.53	3.55	2.45	1.60	3.39	2.37	1.71	3.19	2.27	1.83
	18.0	25.0	4.20	2.71	1.31	4.04	2.63	1.42	3.81	2.52	1.56	3.71	2.48	1.63	3.55	2.40	1.73	3.35	2.32	1.86
	19.0	27.0	4.29	2.73	1.33	4.13	2.65	1.43	3.90	2.54	1.57	3.80	2.50	1.64	3.64	2.42	1.75	3.44	2.33	1.87
	19.5	27.0	4.33	2.73	1.33	4.17	2.65	1.44	3.94	2.55	1.58	3.80	2.50	1.65	3.68	2.42	1.75	3.49	2.34	1.88
	22.0	30.0	4.54	2.77	1.36	4.38	2.70	1.47	4.15	2.60	1.62	4.05	2.54	1.68	3.89	2.47	1.78	3.69	2.38	1.92
	24.0	32.0	4.71	2.82	1.40	4.55	2.74	1.51	4.32	2.63	1.65	4.22	2.59	1.72	4.06	2.51	1.82	3.87	2.41	1.94
45	12.0	18.0	3.98	2.98	1.55	3.86	2.92	1.68	3.66	2.81	1.89	3.57	2.78	1.99	3.40	2.70	2.16	3.19	2.62	2.38
	14.0	20.0	4.26	3.03	1.57	4.13	2.97	1.72	3.92	2.87	1.94	3.82	2.83	2.04	3.64	2.76	2.22	3.41	2.68	2.44
	16.0	22.0	4.54	3.09	1.60	4.39	3.03	1.75	4.17	2.92	1.98	4.07	2.89	2.08	3.88	2.81	2.26	3.64	2.73	2.50
	18.0	25.0	4.83	3.14	1.63	4.67	3.08	1.78	4.43	2.98	2.03	4.32	2.94	2.13	4.12	2.87	2.32	3.86	2.79	2.55
	19.0	27.0	4.97	3.17	1.64	4.81	3.11	1.80	4.56	3.01	2.04	4.45	2.97	2.15	4.24	2.90	2.34	3.97	2.81	2.58
	19.5	27.0	5.04	3.19	1.65	4.88	3.12	1.80	4.62	3.03	2.05	4.59	3.03	2.16	4.30	2.92	2.35	4.03	2.83	2.60
	22.0	30.0	5.40	3.25	1.68	5.23	3.19	1.85	4.95	3.09	2.11	4.83	3.05	2.22	4.60	2.98	2.42	4.31	2.90	2.66
	24.0	32.0	5.70	3.31	1.70	5.51	3.25	1.88	5.21	3.14	2.14	5.07	3.11	2.26	4.84	3.03	2.46	4.53	2.95	2.72
60	12.0	18.0	5.57	4.56	1.84	5.43	4.42	1.99	5.05	4.17	2.21	4.90	4.12	2.36	4.66	4.03	2.56	4.32	3.84	2.92
	14.0	20.0	5.95	4.56	1.89	5.77	4.42	1.99	5.38	4.17	2.26	5.23	4.12	2.41	4.95	4.03	2.61	4.66	3.84	2.97
	16.0	22.0	6.39	4.61	1.89	6.10	4.47	2.05	5.77	4.22	2.26	5.57	4.17	2.46	5.23	4.08	2.66	4.90	3.89	3.03
	18.0	25.0	6.73	4.75	1.94	6.53	4.56	2.10	6.10	4.37	2.31	5.95	4.32	2.51	5.62	4.17	2.71	5.23	4.03	3.03
	19.0	27.0	6.87	4.80	1.99	6.73	4.56	2.16	6.39	4.42	2.36	6.15	4.32	2.51	5.82	4.22	2.76	5.43	4.08	3.08
	22.0	30.0	7.59	4.90	2.05	7.35	4.70	2.16	6.92	4.52	2.41	6.77	4.47	2.56	6.48	4.37	2.81	6.05	4.17	3.18
	24.0	32.0	8.02	4.94	2.10	7.83	4.75	2.21	7.35	4.56	2.46	7.20	4.52	2.61	6.87	4.42	2.86	6.48	4.32	3.23

3TW00642-6A + 3TW01152-2C

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 capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)
	(comp.+indoor+outdoor fan motor)	


6. Air flow rate and BF are tabulated below.

Model		FHYB
35	AFR	11.5
	BF	0.15
45	AFR	14
	BF	0.16
60	AFR	17.0
	BF	0.11

Caution:

TC and SHC are shown by kW
V1: 230V

NOTES

1. Ratings shown are net capacities which include a deduction for indoor fan motor heat
2.  Shows nominal capacities
3. SHC is based on each EWB and EDB
 $SHC^* = SHC \text{ correction for other dry bulb}$
 $SHC^* = 0.34 \times 60 \times AFR \text{ (m}^3\text{/min)} \times (DB-EDB)/1000.$
 Add SHC* to SHC if SHC > TC, then TC equal SHC
4. Direct interpolation is permissible.
 Do not extrapolate.
5. Capacities are based on the following conditions:
 Corresponding refrigerant piping length: 7.5 m
 Level difference: 0 m

3 Capacity tables



FHYB71~125FK7V1 + RY71~100B7V1
RY71~125B7W1

Cooling capacity

230V [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	6.3	4.9	2.2	6.2	4.8	2.5	5.8	4.7	2.7	5.6	4.6	2.9	5.3	4.5	3.2	4.9	4.2	3.5
	14.0	20.0	6.7	4.9	2.3	6.6	4.8	2.6	6.1	4.7	2.8	6.0	4.6	2.9	5.6	4.5	3.2	5.3	4.2	3.5
	16.0	22.0	7.3	5.0	2.3	7.1	4.9	2.6	6.6	4.8	2.8	6.4	4.7	3.0	6.1	4.6	3.3	5.6	4.3	3.6
	18.0	25.0	7.8	5.2	2.4	7.6	5.0	2.6	7.3	4.9	2.9	6.9	4.8	3.1	6.5	4.6	3.3	6.1	4.5	3.7
	19.0	27.0	8.1	5.3	2.4	7.8	5.2	2.6	7.4	5.0	2.9	7.2	4.8	3.1	6.7	4.7	3.4	6.3	4.6	3.7
	19.5	27.0	8.1	5.3	2.4	8.0	5.2	2.6	7.5	5.0	2.9	7.3	4.8	3.1	6.8	4.7	3.4	6.4	4.6	3.7
	22.0	30.0	8.8	5.4	2.5	8.6	5.3	2.7	8.1	5.2	3.0	8.0	4.9	3.2	7.5	4.8	3.4	6.9	4.6	3.8
100	24.0	32.0	9.6	5.4	2.5	9.3	5.3	2.7	8.7	5.2	3.1	8.5	5.0	3.2	8.1	4.8	3.5	7.5	4.6	3.9
	12.0	18.0	8.3	7.0	2.8	8.3	6.9	3.1	8.1	6.7	3.5	7.8	6.6	3.7	7.5	6.2	4.1	6.9	6.0	4.5
	14.0	20.0	8.9	7.0	2.9	8.8	6.9	3.1	8.6	6.7	3.5	8.3	6.6	3.7	7.8	6.2	4.1	7.5	6.0	4.5
	16.0	22.0	10.1	7.1	2.9	9.8	7.0	3.2	9.1	6.8	3.6	8.9	6.7	3.8	8.4	6.3	4.2	7.8	6.1	4.6
	18.0	25.0	10.8	7.4	3.0	10.5	7.3	3.2	9.8	6.9	3.6	9.6	6.8	3.8	9.0	6.6	4.2	8.3	6.2	4.7
	19.0	27.0	11.1	7.5	3.0	10.8	7.4	3.3	10.1	7.0	3.7	10.0	6.9	3.9	9.4	6.7	4.3	8.6	6.3	4.8
	19.5	27.0	11.2	7.5	3.0	11.0	7.4	3.3	10.3	7.0	3.7	10.1	6.9	3.9	9.5	6.7	4.3	8.8	6.3	4.8
125	22.0	30.0	12.2	7.6	3.1	11.8	7.5	3.3	11.2	7.1	3.8	11.0	7.0	4.0	10.4	6.9	4.4	9.6	6.6	4.9
	24.0	32.0	13.0	7.7	3.2	12.7	7.6	3.4	11.9	7.3	3.9	11.7	7.1	4.1	11.1	7.0	4.5	10.3	6.7	5.0
	12.0	18.0	11.2	9.2	3.3	10.9	8.9	3.6	10.2	8.4	3.9	9.9	8.3	4.2	9.4	8.1	4.6	8.7	7.8	5.2
	14.0	20.0	12.0	9.2	3.4	11.6	8.9	3.6	10.9	8.4	4.0	10.6	8.3	4.3	10.0	8.1	4.7	9.4	7.8	5.2
	16.0	22.0	12.9	9.3	3.4	12.3	9.0	3.7	11.6	8.5	4.0	11.2	8.4	4.4	10.6	8.2	4.7	9.9	7.8	5.3
	18.0	25.0	13.6	9.6	3.5	13.2	9.2	3.7	12.3	8.8	4.1	12.0	8.7	4.5	11.3	8.4	4.8	10.6	8.1	5.3
	19.0	27.0	13.9	9.7	3.6	13.6	9.2	3.8	12.9	8.9	4.2	12.4	8.7	4.5	11.7	8.5	4.9	10.9	8.2	5.4
125	19.5	27.0	14.0	9.7	3.6	13.8	9.2	3.8	13.0	8.9	4.2	12.6	8.8	4.5	11.9	8.5	4.9	11.1	8.2	5.4
	22.0	30.0	15.3	9.9	3.7	14.8	9.5	3.8	14.0	9.1	4.3	13.7	9.0	4.6	13.1	8.8	5.0	12.2	8.4	5.6
	24.0	32.0	16.2	10.0	3.7	15.8	9.6	3.9	14.8	9.2	4.4	14.5	9.1	4.7	13.9	8.9	5.1	13.1	8.7	5.7

3TW20382-3B

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 capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)
	(comp.+indoor+outdoor fan motor)	

Caution:

TC and SHC are shown by kW
V1: 230V
W1: 400V

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

6. Air flow rate and BF are tabulated below.

Model		FHYB
71	AFR	19
	BF	0.11
100	AFR	27
	BF	0.20
125	AFR	35
	BF	0.14

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

Model	Supply	FHYB
71	V1	0.1
	W1	0.0
100	V1	0.2
	W1	0.0
125	W1	0.0

3 Capacity tables



FHYB35-60FK7V1 + RY35DA7V1/R45DB7V1/R45FA7V1

Heating capacity

230V [50Hz]

Outdoor	Indoor EDB (°C)	outdoor temperature (°CWB)											
		-10		-5		0		6		10		15	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
35	16.0	2.67	1.26	3.12	1.30	3.61	1.41	4.25	1.40	4.70	1.46	-	-
	18.0	2.67	1.28	3.10	1.32	3.59	1.44	4.22	1.43	4.67	1.49	-	-
	20.0	2.66	1.30	3.09	1.35	3.55	1.47	4.20	1.45	4.62	1.52	5.21	1.61
	21.0	2.66	1.31	3.08	1.36	3.53	1.48	4.15	1.47	4.59	1.54	5.19	1.63
	22.0	2.66	1.32	3.07	1.37	3.52	1.49	4.14	1.48	4.58	1.55	5.16	1.64
	24.0	2.66	1.35	3.06	1.39	3.50	1.52	4.10	1.51	4.53	1.59	5.11	1.68
45	16.0	3.78	2.00	4.30	1.95	4.88	1.89	5.66	1.89	6.23	1.89	-	-
	18.0	3.78	2.05	4.29	1.99	4.86	1.93	5.63	1.93	6.19	1.92	-	-
	20.0	3.78	2.09	4.28	2.04	4.84	1.95	5.60	1.96	6.15	1.94	6.90	1.94
	21.0	3.78	2.13	4.28	2.06	4.83	1.97	5.60	1.97	6.13	1.95	6.88	1.94
	22.0	3.78	2.15	4.27	2.08	4.82	1.98	5.57	1.99	6.11	1.96	6.85	1.95
	24.0	3.77	2.19	4.25	2.13	4.80	2.02	5.53	2.03	6.07	1.99	6.80	1.97
60	16.0	4.14	1.59	5.07	1.78	6.05	2.28	7.23	2.24	8.03	2.49	-	-
	18.0	4.08	1.63	5.54	1.83	6.01	2.38	7.20	2.32	8.00	2.59	-	-
	20.0	4.07	1.68	4.99	1.90	5.97	2.46	7.15	2.40	7.94	2.68	8.95	2.98
	21.0	4.01	1.69	4.98	1.92	5.95	2.50	7.15	2.44	7.93	2.73	8.93	3.03
	22.0	3.99	1.72	4.96	1.96	5.93	2.54	7.12	2.49	7.91	2.78	8.87	3.09
	24.0	3.93	1.76	4.92	2.01	5.88	2.63	7.07	2.57	7.84	2.88	8.84	3.20

3TW00642-7A
3TW01152-3C

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SYMBOLS

AFR:	Air flow rate	(m ³ /min)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total cooling capacity	(kW)
PI:	Power input	(kW)
	(comp.+indoor+outdoor fan motor)	

Caution:

TC and SHC are shown by kW

V1: 230V

W1: 400V

5. Air flow rate and BF are tabulated below.

Model		FHYB
35	AFR	11.5
45	AFR	14
60	AFR	17.0

NOTES

1. Ratings shown are net capacities which include a deduction for indoor fan motor heat
2. Shows nominal capacities
3. Direct interpolation is permissible.
Do not extrapolate.
4. Capacities are based on the following conditions:
Corresponding refrigerant piping length: 7.5 m
Level difference: 0 m

3 Capacity tables



FHYB71~125FK7V1 + RY71~100B7V1
RY71~125B7W1

Heating capacity

230V [50Hz]

Outdoor	Indoor EDB (°C)	outdoor temperature (°CWB)											
		-10		-5		0		6		10		15	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
71	16.0	6.7	2.8	7.2	2.9	7.9	2.9	8.7	3.0	9.3	3.0	-	-
	18.0	6.7	2.8	7.2	2.9	7.9	3.0	8.6	3.1	9.3	3.1	-	-
	20.0	6.7	2.9	7.2	3.0	7.8	3.1	8.6	3.1	9.1	3.2	10.0	3.3
	21.0	6.7	3.0	7.2	3.0	7.8	3.1	8.6	3.2	9.1	3.3	10.0	3.4
	22.0	6.7	3.0	7.2	3.1	7.8	3.2	8.6	3.3	9.1	3.3	9.8	3.4
100	24.0	6.7	3.1	7.2	3.2	7.8	3.3	8.5	3.4	9.1	3.4	9.8	3.5
	16.0	9.0	3.5	9.8	3.7	10.7	3.8	11.8	3.9	12.5	4.0	-	-
	18.0	8.9	3.7	9.7	3.8	10.7	3.9	11.7	4.0	12.5	4.1	-	-
	20.0	8.9	3.8	9.7	3.9	10.5	4.0	11.6	4.1	12.4	4.2	13.4	4.3
	21.0	8.9	3.9	9.6	4.0	10.5	4.1	11.6	4.2	12.3	4.3	13.4	4.4
125	22.0	8.9	4.0	9.6	4.1	10.5	4.2	11.6	4.3	12.3	4.4	13.3	4.5
	24.0	8.8	4.1	9.6	4.2	10.3	4.3	11.4	4.4	12.1	4.5	13.3	4.7
	16.0	12.0	4.1	13.0	4.3	14.0	4.4	15.3	4.5	16.3	4.7	-	-
	18.0	12.0	4.2	13.0	4.4	14.0	4.5	15.2	4.7	16.2	4.8	-	-
	20.0	12.0	4.3	12.8	4.5	13.9	4.6	15.2	4.8	16.2	5.0	17.7	5.1
125	21.0	12.0	4.4	12.8	4.6	13.9	4.8	15.2	4.9	16.1	5.0	17.4	5.2
	22.0	12.0	4.5	12.8	4.7	13.9	4.8	15.2	5.0	16.1	5.1	17.4	5.3
	24.0	11.8	4.6	12.8	4.8	13.8	5.0	15.1	5.1	16.1	5.3	17.1	5.5

3TW20382-8B

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SYMBOLS

AFR:	Air flow rate	(m ³ /min)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total cooling capacity	(kW)
PI:	Power input	(kW)
	(comp.+indoor+outdoor fan motor)	

Caution:

TC and SHC are shown by kW

V1: 230V

W1: 400V

5. Air flow rate and BF are tabulated below.

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

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

Model	Supply	FHYB
71	V1	0.05
	W1	0.0
100	V1	0.2
	W1	0.0
125	W1	0.0

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

3 Capacity tables



FHYK35-60FJV1 + RY35DA7V1/R45DB7V1/R45DB7V1/R45DB7V1/R45DB7V1

Cooling capacity

230V [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
35	12.0	18.0	3.98	2.80	1.12	3.81	2.71	1.22	3.56	2.61	1.35	3.46	2.55	1.41	3.28	2.47	1.50	3.07	2.37	1.62
	14.0	20.0	4.17	2.84	1.15	3.99	2.76	1.25	3.75	2.64	1.38	3.64	2.60	1.44	3.47	2.51	1.53	3.26	2.41	1.64
	16.0	22.0	4.36	2.88	1.18	4.18	2.80	1.27	3.94	2.68	1.40	3.83	2.63	1.46	3.65	2.55	1.56	3.44	2.44	1.67
	18.0	25.0	4.53	2.91	1.20	4.36	2.83	1.30	4.11	2.71	1.43	4.01	2.67	1.49	3.83	2.58	1.58	3.62	2.49	1.70
	19.0	27.0	4.63	2.94	1.22	4.45	2.85	1.31	4.21	2.74	1.44	4.10	2.69	1.50	3.92	2.61	1.60	3.71	2.50	1.71
	19.5	27.0	4.67	2.94	1.22	4.50	2.85	1.32	4.25	2.75	1.45	4.10	2.69	1.51	3.97	2.61	1.60	3.76	2.51	1.72
	22.0	30.0	4.90	2.98	1.25	4.72	2.90	1.35	4.47	2.80	1.48	4.37	2.74	1.54	4.19	2.65	1.63	3.98	2.56	1.75
45	24.0	32.0	5.08	3.03	1.28	4.91	2.95	1.38	4.66	2.83	1.51	4.56	2.78	1.57	4.38	2.70	1.66	4.17	2.60	1.77
	12.0	18.0	4.30	3.22	1.48	4.17	3.15	1.60	3.95	3.04	1.81	3.85	3.00	1.90	3.67	2.92	2.06	3.44	2.83	2.27
	14.0	20.0	4.59	3.28	1.50	4.45	3.21	1.64	4.23	3.10	1.85	4.12	3.06	1.94	3.93	2.98	2.11	3.68	2.89	2.33
	16.0	22.0	4.90	3.34	1.53	4.74	3.27	1.67	4.50	3.16	1.89	4.39	3.12	1.99	4.19	3.04	2.16	3.93	2.95	2.38
	18.0	25.0	5.21	3.40	1.55	5.04	3.33	1.70	4.78	3.22	1.93	4.66	3.18	2.03	4.44	3.10	2.21	4.17	3.01	2.43
	19.0	27.0	5.36	3.43	1.56	5.19	3.36	1.72	4.92	3.25	1.94	4.80	3.21	2.05	4.57	3.13	2.23	4.29	3.04	2.46
	19.5	27.0	5.43	3.45	1.57	5.27	3.37	1.72	4.99	3.27	1.95	4.95	3.28	2.06	4.64	3.15	2.24	4.34	3.06	2.47
60	22.0	30.0	5.83	3.52	1.60	5.64	3.45	1.76	5.34	3.34	2.01	5.21	3.30	2.11	4.96	3.22	2.30	4.65	3.13	2.54
	24.0	32.0	6.15	3.58	1.63	5.94	3.51	1.80	5.62	3.40	2.04	5.47	3.36	2.16	5.22	3.28	2.35	4.89	3.19	2.59
	12.0	18.0	5.57	4.56	1.84	5.43	4.42	1.99	5.05	4.17	2.21	4.90	4.12	2.36	4.66	4.03	2.56	4.32	3.84	2.92
	14.0	20.0	5.95	4.56	1.89	5.77	4.42	1.99	5.38	4.17	2.26	5.23	4.12	2.41	4.95	4.03	2.61	4.66	3.84	2.97
	16.0	22.0	6.39	4.61	1.89	6.10	4.47	2.05	5.77	4.22	2.26	5.57	4.17	2.46	5.23	4.08	2.66	4.90	3.89	3.03
	18.0	25.0	6.73	4.75	1.94	6.53	4.56	2.10	6.10	4.37	2.31	5.95	4.32	2.51	5.62	4.17	2.71	5.23	4.03	3.03
	19.0	27.0	6.87	4.80	1.99	6.73	4.56	2.16	6.39	4.42	2.36	6.15	4.32	2.51	5.82	4.22	2.76	5.43	4.08	3.08
	22.0	30.0	7.59	4.90	2.05	7.35	4.70	2.16	6.92	4.52	2.41	6.77	4.47	2.56	6.48	4.37	2.81	6.05	4.17	3.18
	24.0	32.0	8.02	4.94	2.10	7.83	4.75	2.21	7.35	4.56	2.46	7.20	4.52	2.61	6.87	4.42	2.86	6.48	4.32	3.23

3TW00642-8A + 3TW01152-2C

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 capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)
	(comp.+indoor+outdoor fan motor)	

Caution:

TC and SHC are shown by kW
V1: 230V

6. Air flow rate and BF are tabulated below.

Model		FHYK
35	AFR	12
	BF	0.16
45	AFR	12
	BF	0.18
60	AFR	17.0
	BF	0.07

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

3 Capacity tables



FHYK71FJV1 + RY71B7V1
RY71B7W1

Cooling capacity

230V [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	6.4	4.9	2.1	6.3	4.8	2.4	5.9	4.7	2.6	5.7	4.6	2.8	5.4	4.5	3.1	5.0	4.2	3.4
	14.0	20.0	6.8	4.9	2.2	6.7	4.8	2.5	6.2	4.7	2.7	6.1	4.6	2.8	5.7	4.5	3.1	5.4	4.2	3.4
	16.0	22.0	7.4	5.0	2.2	7.2	4.9	2.5	6.7	4.8	2.7	6.5	4.7	2.9	6.2	4.6	3.2	5.7	4.3	3.5
	18.0	25.0	7.9	5.2	2.3	7.7	5.0	2.5	7.4	4.9	2.8	7.0	4.8	3.0	6.6	4.6	3.2	6.2	4.5	3.6
	19.0	27.0	8.2	5.3	2.3	7.9	5.2	2.5	7.5	5.0	2.8	7.3	4.8	3.0	6.8	4.7	3.3	6.4	4.6	3.6
	19.5	27.0	8.2	5.3	2.3	8.1	5.2	2.5	7.6	5.0	2.8	7.4	4.8	3.0	6.9	4.7	3.3	6.5	4.6	3.6
	22.0	30.0	8.9	5.4	2.4	8.7	5.3	2.6	8.2	5.2	2.9	8.1	4.9	3.1	7.6	4.8	3.3	7.0	4.6	3.7
	24.0	32.0	9.7	5.4	2.4	9.4	5.3	2.6	8.8	5.2	3.0	8.6	5.0	3.1	8.2	4.8	3.4	7.6	4.6	3.8

3TW20382-4B

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 capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)
	(comp.+indoor+outdoor fan motor)	

Caution:

TC and SHC are shown by kW
V1: 230V
W1: 400V

6. Air flow rate and BF are tabulated below.

Model		FHYK
71	AFR	17
	BF	0.07

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

Model	Supply	FHYK
71	V1	0.1
	W1	0.0

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

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3 Capacity tables



FHYK35~60FJV1 + RY35DA7V1/RV45DB7V1/RV60FA7V1

Heating capacity

230V [50Hz]

Outdoor	Indoor EDB (°C)	outdoor temperature (°CWB)											
		-10		-5		0		6		10		15	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
35	16.0	2.77	1.21	3.24	1.25	3.73	1.35	4.40	1.34	4.87	1.40	-	-
	18.0	2.77	1.23	3.21	1.27	3.71	1.38	4.37	1.37	4.84	1.43	-	-
	20.0	2.76	1.25	3.20	1.29	3.68	1.41	4.35	1.39	4.79	1.46	5.40	1.54
	21.0	2.76	1.26	3.19	1.30	3.66	1.42	4.30	1.41	4.75	1.48	5.38	1.56
	22.0	2.76	1.27	3.18	1.31	3.65	1.43	4.29	1.42	4.75	1.49	5.35	1.57
	24.0	2.76	1.29	3.17	1.33	3.63	1.46	4.24	1.45	4.69	1.52	5.29	1.61
45	16.0	3.91	1.94	4.45	1.89	5.05	1.84	5.86	1.84	6.45	1.84	-	-
	18.0	3.91	1.99	4.44	1.93	5.03	1.87	5.83	1.87	6.41	1.86	-	-
	20.0	3.91	2.03	4.43	1.98	5.01	1.89	5.80	1.90	6.37	1.88	7.15	1.88
	21.0	3.91	2.06	4.43	2.00	5.00	1.91	5.80	1.91	6.35	1.89	7.13	1.88
	22.0	3.91	2.08	4.42	2.02	4.99	1.92	5.77	1.93	6.33	1.90	7.10	1.89
	24.0	3.90	2.13	4.40	2.06	4.97	1.95	5.73	1.96	6.29	1.93	7.04	1.91
60	16.0	4.14	1.59	5.07	1.78	6.05	2.28	7.23	2.24	8.03	2.49	-	-
	18.0	4.08	1.63	5.54	1.83	6.01	2.38	7.20	2.32	8.00	2.59	-	-
	20.0	4.07	1.68	4.99	1.90	5.97	2.46	7.15	2.40	7.94	2.68	8.95	2.98
	21.0	4.01	1.69	4.98	1.92	5.95	2.50	7.15	2.44	7.93	2.73	8.93	3.03
	22.0	3.99	1.72	4.96	1.96	5.93	2.54	7.12	2.49	7.91	2.78	8.87	3.09
	24.0	3.93	1.76	4.92	2.01	5.88	2.63	7.07	2.57	7.84	2.88	8.84	3.20

3TW00642-9A
3TW01152-3C

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SYMBOLS

AFR:	Air flow rate	(m ³ /min)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total cooling capacity	(kW)
PI:	Power input	(kW)
	(comp.+indoor+outdoor fan motor)	

Caution:

TC and SHC are shown by kW
V1: 230V

5. Air flow rate and BF are tabulated below.

Model		FHYK
35	AFR	12
45	AFR	12
60	AFR	17.0

NOTES

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

3 Capacity tables



FHYK71FJV1 + RY71B7V1
RY71B7W1

Heating capacity

230V [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	6.8	2.7	7.3	2.8	8.0	2.8	8.8	2.9	9.4	2.9	-	-
	18.0	6.8	2.7	7.3	2.8	8.0	2.9	8.7	3.0	9.4	3.0	-	-
	20.0	6.8	2.8	7.3	2.9	7.9	3.0	8.7	3.0	9.3	3.1	10.1	3.2
	21.0	6.8	2.9	7.3	2.9	7.9	3.0	8.7	3.1	9.3	3.2	10.1	3.3
	22.0	6.8	2.9	7.3	3.0	7.9	3.1	8.7	3.2	9.3	3.2	9.9	3.3
	24.0	6.8	3.0	7.3	3.1	7.9	3.2	8.6	3.3	9.3	3.3	9.9	3.4

3TW20382-9A

SYMBOLS

AFR: Air flow rate (m³/min)
EDB: Entering dry bulb temp. (°CDB)
TC: Total cooling capacity (kW)
PI: Power input (kW)
(comp.+indoor+outdoor fan motor)

Caution:

TC and SHC are shown by kW
V1: 230V
W1: 400V

NOTES

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

5. Air flow rate and BF are tabulated below.

Model		FHYK
71	AFR	17
	BF	0.07

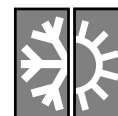
6. Add the following correction value to power input (kW) of each unit

Model	Supply	FHYK
71	V1	0.1
	W1	0.0

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3 Capacity tables



FHY35-60BJV1 + RY35DA7V1/R45DB7V1/R45DB7V1/R45DB7V1/R45DB7V1

Cooling capacity

230V [50Hz]

	FHY	
Model	35	45
AFR	13	13
BF	0.2	0.09

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
35	12.0	18.0	3.98	2.80	1.18	3.81	2.71	1.29	3.56	2.61	1.43	3.46	2.55	1.49	3.28	2.47	1.59	3.07	2.37	1.72
	14.0	20.0	4.17	2.84	1.22	3.99	2.76	1.32	3.75	2.64	1.46	3.64	2.60	1.53	3.47	2.51	1.62	3.26	2.41	1.74
	16.0	22.0	4.36	2.88	1.25	4.18	2.80	1.34	3.94	2.68	1.48	3.83	2.63	1.55	3.65	2.55	1.65	3.44	2.44	1.77
	18.0	25.0	4.53	2.91	1.27	4.36	2.83	1.38	4.11	2.71	1.52	4.01	2.67	1.58	3.83	2.58	1.68	3.62	2.49	1.80
	19.0	27.0	4.63	2.94	1.29	4.45	2.85	1.39	4.21	2.74	1.53	4.10	2.69	1.59	3.92	2.61	1.70	3.71	2.50	1.81
	19.5	27.0	4.67	2.94	1.29	4.50	2.85	1.40	4.25	2.75	1.54	4.10	2.69	1.60	3.97	2.61	1.70	3.76	2.51	1.82
	22.0	30.0	4.90	2.98	1.32	4.72	2.90	1.43	4.47	2.80	1.57	4.37	2.74	1.63	4.19	2.65	1.73	3.98	2.56	1.86
	24.0	32.0	5.08	3.03	1.36	4.91	2.95	1.46	4.66	2.83	1.60	4.56	2.78	1.66	4.38	2.70	1.76	4.17	2.60	1.88
45	12.0	18.0	4.30	3.22	1.48	4.17	3.15	1.60	3.95	3.04	1.81	3.85	3.00	1.90	3.67	2.92	2.06	3.44	2.83	2.27
	14.0	20.0	4.59	3.28	1.50	4.45	3.21	1.64	4.23	3.10	1.85	4.12	3.06	1.94	3.93	2.98	2.11	3.68	2.89	2.33
	16.0	22.0	4.90	3.34	1.53	4.74	3.27	1.67	4.50	3.16	1.89	4.39	3.12	1.99	4.19	3.04	2.16	3.93	2.95	2.38
	18.0	25.0	5.21	3.39	1.55	5.04	3.33	1.70	4.78	3.22	1.93	4.66	3.18	2.03	4.44	3.10	2.21	4.17	3.01	2.43
	19.0	27.0	5.36	3.42	1.56	5.19	3.36	1.72	4.92	3.25	1.94	4.80	3.21	2.05	4.57	3.13	2.23	4.29	3.04	2.46
	19.5	27.0	5.43	3.44	1.57	5.27	3.36	1.72	4.99	3.27	1.95	4.95	3.28	2.06	4.64	3.15	2.24	4.34	3.06	2.47
	22.0	30.0	5.83	3.51	1.60	5.64	3.44	1.76	5.34	3.34	2.01	5.21	3.30	2.11	4.96	3.22	2.30	4.65	3.13	2.54
	24.0	32.0	6.15	3.57	1.63	5.94	3.50	1.80	5.62	3.39	2.04	5.47	3.36	2.16	5.22	3.28	2.35	4.89	3.19	2.59
60	12.0	18.0	5.57	4.56	1.84	5.43	4.42	1.99	5.05	4.17	2.21	4.90	4.12	2.36	4.66	4.03	2.56	4.32	3.84	2.92
	14.0	20.0	5.95	4.56	1.89	5.77	4.42	1.99	5.38	4.17	2.26	5.23	4.12	2.41	4.95	4.03	2.61	4.66	3.84	2.97
	16.0	22.0	6.39	4.61	1.89	6.10	4.47	2.05	5.77	4.22	2.26	5.57	4.17	2.46	5.23	4.08	2.66	4.90	3.89	3.03
	18.0	25.0	6.73	4.75	1.94	6.53	4.56	2.10	6.10	4.37	2.31	5.95	4.32	2.51	5.62	4.17	2.71	5.23	4.03	3.03
	19.0	27.0	6.87	4.80	1.99	6.73	4.56	2.16	6.39	4.42	2.36	6.15	4.32	2.51	5.82	4.22	2.76	5.43	4.08	3.08
	22.0	30.0	7.59	4.90	2.05	7.35	4.70	2.16	6.92	4.52	2.41	6.77	4.47	2.56	6.48	4.37	2.81	6.05	4.17	3.18
	24.0	32.0	8.02	4.94	2.10	7.83	4.75	2.21	7.35	4.56	2.46	7.20	4.52	2.61	6.87	4.42	2.86	6.48	4.32	3.23

3TW00642-4B + 3TW01152-2C

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 capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	power input	(kW)
	(comp.+indoor+outdoor fan motor)	

Caution:

TC and SHC are shown by kW
V1: 230V

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

6. Air flow rate and BF are tabulated below.

Model		FHY
35	AFR	13
	BF	0.20
45	AFR	13
	BF	0.09
60	AFR	16.0
	BF	0.10

3 Capacity tables



FHY71~125BJV1 + RY71~100B7V1
RY71~125B7W1

Cooling capacity

230V [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	6.4	4.9	2.1	6.3	4.8	2.4	5.9	4.7	2.6	5.7	4.6	2.8	5.4	4.5	3.1	5.0	4.2	3.4
	14.0	20.0	6.8	4.9	2.2	6.7	4.8	2.5	6.2	4.7	2.7	6.1	4.6	2.8	5.7	4.5	3.1	5.4	4.2	3.4
	16.0	22.0	7.4	5.0	2.2	7.2	4.9	2.5	6.7	4.8	2.7	6.5	4.7	2.9	6.2	4.6	3.2	5.7	4.3	3.5
	18.0	25.0	7.9	5.2	2.3	7.7	5.0	2.5	7.4	4.9	2.8	7.0	4.8	3.0	6.6	4.6	3.2	6.2	4.5	3.6
	19.0	27.0	8.2	5.3	2.3	7.9	5.2	2.5	7.5	5.0	2.8	7.3	4.8	3.0	6.8	4.7	3.3	6.4	4.6	3.6
	19.5	27.0	8.2	5.3	2.3	8.1	5.2	2.5	7.6	5.0	2.8	7.4	4.8	3.0	6.9	4.7	3.3	6.5	4.6	3.6
	22.0	30.0	8.9	5.4	2.4	8.7	5.3	2.6	8.2	5.2	2.9	8.1	4.9	3.1	7.6	4.8	3.3	7.0	4.6	3.7
100	24.0	32.0	9.7	5.4	2.4	9.4	5.3	2.6	8.8	5.2	3.0	8.6	5.0	3.1	8.2	4.8	3.4	7.6	4.6	3.8
	12.0	18.0	8.3	7.0	2.6	8.3	6.9	2.9	8.1	6.7	3.3	7.8	6.6	3.5	7.5	6.2	3.9	6.9	6.0	4.3
	14.0	20.0	8.9	7.0	2.7	8.8	6.9	2.9	8.6	6.7	3.3	8.3	6.6	3.5	7.8	6.2	3.9	7.5	6.0	4.3
	16.0	22.0	10.1	7.1	2.7	9.8	7.0	3.0	9.1	6.8	3.4	8.9	6.7	3.6	8.4	6.3	4.0	7.8	6.1	4.4
	18.0	25.0	10.8	7.4	2.8	10.5	7.3	3.0	9.8	6.9	3.4	9.6	6.8	3.6	9.0	6.6	4.0	8.3	6.2	4.5
	19.0	27.0	11.1	7.5	2.8	10.8	7.4	3.1	10.1	7.0	3.5	10.0	6.9	3.7	9.4	6.7	4.1	8.6	6.3	4.6
	19.5	27.0	11.2	7.5	2.8	11.0	7.4	3.1	10.3	7.0	3.5	10.1	6.9	3.7	9.5	6.7	4.1	8.8	6.3	4.6
125	22.0	30.0	12.2	7.6	2.9	11.8	7.5	3.1	11.2	7.1	3.6	11.0	7.0	3.8	10.4	6.9	4.2	9.6	6.6	4.7
	24.0	32.0	13.0	7.7	3.0	12.7	7.6	3.2	11.9	7.3	3.7	11.7	7.1	3.9	11.1	7.0	4.3	10.3	6.7	4.8
	12.0	18.0	11.2	9.2	3.3	10.9	8.9	3.6	10.2	8.4	3.9	9.9	8.3	4.2	9.4	8.1	4.6	8.7	7.8	5.2
	14.0	20.0	12.0	9.2	3.4	11.6	8.9	3.6	10.9	8.4	4.0	10.6	8.3	4.3	10.0	8.1	4.7	9.4	7.8	5.2
	16.0	22.0	12.9	9.3	3.4	12.3	9.0	3.7	11.6	8.5	4.0	11.2	8.4	4.4	10.6	8.2	4.7	9.9	7.8	5.3
	18.0	25.0	13.6	9.6	3.5	13.2	9.2	3.7	12.3	8.8	4.1	12.0	8.7	4.5	11.3	8.4	4.8	10.6	8.1	5.3
	19.0	27.0	13.9	9.7	3.6	13.6	9.2	3.8	12.9	8.9	4.2	12.4	8.7	4.5	11.7	8.5	4.9	10.9	8.2	5.4
125	19.5	27.0	14.0	9.7	3.6	13.8	9.2	3.8	13.0	8.9	4.2	12.6	8.8	4.5	11.9	8.5	4.9	11.1	8.2	5.4
	22.0	30.0	15.3	9.9	3.7	14.8	9.5	3.8	14.0	9.1	4.3	13.7	9.0	4.6	13.1	8.8	5.0	12.2	8.4	5.6
	24.0	32.0	16.2	10.0	3.7	15.8	9.6	3.9	14.8	9.2	4.4	14.5	9.1	4.7	13.9	8.9	5.1	13.1	8.7	5.7

3TW20382-2B

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 capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)
	(comp.+indoor+outdoor fan motor)	

Caution:

TC and SHC are shown by kW

V1: 230V

W1: 400V

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

6. Air flow rate and BF are tabulated below.

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

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

Model	Supply	FHY
71	V1	0.1
	W1	0.0
100	V1	0.2
	W1	0.0
125	W1	0.0

3 Capacity tables



FHY35-60BJV1 + RY35DA7V1/R45DB7V1/R460FA7V1

Heating capacity

230V [50Hz]

Outdoor	Indoor EDB (°C)	outdoor temperature (°CWB)											
		-10		-5		0		6		10		15	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
35	16.0	2.77	1.24	3.24	1.28	3.73	1.38	4.40	1.37	4.87	1.43	-	-
	18.0	2.77	1.26	3.21	1.30	3.71	1.41	4.37	1.40	4.84	1.46	-	-
	20.0	2.76	1.28	3.20	1.32	3.68	1.44	4.35	1.42	4.79	1.49	5.40	1.57
	21.0	2.76	1.29	3.19	1.33	3.66	1.45	4.30	1.44	4.75	1.51	5.38	1.59
	22.0	2.76	1.30	3.18	1.34	3.65	1.46	4.29	1.45	4.75	1.52	5.35	1.60
	24.0	2.76	1.32	3.17	1.36	3.63	1.49	4.24	1.48	4.69	1.55	5.29	1.64
45	16.0	3.91	1.98	4.45	1.93	5.05	1.87	5.86	1.87	6.45	1.87	-	-
	18.0	3.91	2.03	4.44	1.97	5.03	1.91	5.83	1.91	6.41	1.90	-	-
	20.0	3.91	2.07	4.43	2.02	5.01	1.93	5.80	1.94	6.37	1.92	7.15	1.92
	21.0	3.91	2.11	4.43	2.04	5.00	1.95	5.80	1.95	6.35	1.93	7.13	1.92
	22.0	3.91	2.13	4.42	2.06	4.99	1.96	5.77	1.97	6.33	1.94	7.10	1.93
	24.0	3.90	2.17	4.40	2.11	4.97	2.00	5.73	2.01	6.29	1.97	7.04	1.9
60	16.0	4.14	1.59	5.07	1.78	6.05	2.28	7.23	2.24	8.03	2.49	-	-
	18.0	4.08	1.63	5.54	1.83	6.01	2.38	7.20	2.32	8.00	2.59	-	-
	20.0	4.07	1.68	4.99	1.90	5.97	2.46	7.15	2.40	7.94	2.68	8.95	2.98
	21.0	4.01	1.69	4.98	1.92	5.95	2.50	7.15	2.44	7.93	2.73	8.93	3.03
	22.0	3.99	1.72	4.96	1.96	5.93	2.54	7.12	2.49	7.91	2.78	8.87	3.09
	24.0	3.93	1.76	4.92	2.01	5.88	2.63	7.07	2.57	7.84	2.88	8.84	3.20

3TW00642-5B
3TW01152-3C

24

3

SYMBOLS

AFR:	Air flow rate	(m ³ /min)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total cooling capacity	(kW)
PI:	Power input	(kW)
	(comp.+indoor+outdoor fan motor)	

Caution:

TC and SHC are shown by kW
V1: 230V

5. Air flow rate and BF are tabulated below.

Model		FHY
35	AFR	13
45	AFR	13
60	AFR	16.0

NOTES

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

3 Capacity tables



FHY71~125BJV1 + RY71~100B7V1
RY71~125B7W1

Heating capacity

230V [50Hz]

Outdoor	Indoor EDB (°C)	outdoor temperature (°CWB)											
		-10		-5		0		6		10		15	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
71	16.0	6.8	2.7	7.3	2.8	8.0	2.8	8.8	2.9	9.4	2.9	/	/
	18.0	6.8	2.7	7.3	2.8	8.0	2.9	8.7	3.0	9.4	3.0	/	/
	20.0	6.8	2.8	7.3	2.9	7.9	3.0	8.7	3.0	9.3	3.1	10.1	3.2
	21.0	6.8	2.9	7.3	2.9	7.9	3.0	8.7	3.1	9.3	3.2	10.1	3.3
	22.0	6.8	2.9	7.3	3.0	7.9	3.1	8.7	3.2	9.3	3.2	9.9	3.3
	24.0	6.8	3.0	7.3	3.1	7.9	3.2	8.6	3.3	9.3	3.3	9.9	3.4
100	16.0	9.0	3.2	9.8	3.3	10.7	3.4	11.8	3.5	12.5	3.6	/	/
	18.0	8.9	3.3	9.7	3.4	10.7	3.5	11.7	3.6	12.5	3.7	/	/
	20.0	8.9	3.4	9.7	3.5	10.5	3.6	11.6	3.7	12.4	3.8	13.4	3.9
	21.0	8.9	3.5	9.6	3.6	10.5	3.7	11.6	3.8	12.3	3.9	13.4	4.0
	22.0	8.9	3.6	9.6	3.7	10.5	3.8	11.6	3.9	12.3	4.0	13.3	4.1
	24.0	8.8	3.7	9.6	3.8	10.3	3.9	11.4	4.0	12.1	4.1	13.3	4.2
125	16.0	12.0	4.0	13.0	4.2	14.0	4.3	15.3	4.4	16.3	4.6	/	/
	18.0	12.0	4.1	13.0	4.3	14.0	4.4	15.2	4.6	16.2	4.7	/	/
	20.0	12.0	4.2	12.8	4.4	13.9	4.5	15.2	4.7	16.2	4.9	17.7	5.0
	21.0	12.0	4.3	12.8	4.5	13.9	4.7	15.2	4.8	16.1	4.9	17.4	5.1
	22.0	12.0	4.4	12.8	4.6	13.9	4.7	15.2	4.9	16.1	5.0	17.4	5.2
	24.0	11.8	4.5	12.8	4.7	13.8	4.9	15.1	5.0	16.1	5.2	17.1	5.4

3TW20382-7A

SYMBOLS

AFR:	Air flow rate	(m ³ /min)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total cooling capacity	(kW)
PI:	Power input	(kW)
	(comp.+indoor+outdoor fan motor)	

Caution:

TC and SHC are shown by kW
V1: 230V
W1: 400V

NOTES

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

5. Air flow rate and BF are tabulated below.

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

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

Model	Supply	FHY
71	V1	0.1
	W1	0.0
100	V1	0.2
	W1	0.0
125	W1	0.0

3 Capacity tables



FHYC35-60B7 + RY35DA7V1/R45DB7V1/R460FA7V1

Cooling capacity

230V [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
35	12.0	18.0	3.50	2.46	1.21	3.34	2.39	1.32	3.13	2.29	1.47	3.03	2.24	1.53	2.88	2.17	1.63	2.69	2.09	1.76
	14.0	20.0	3.66	2.50	1.25	3.51	2.43	1.36	3.29	2.32	1.50	3.20	2.28	1.56	3.04	2.21	1.66	2.86	2.12	1.78
	16.0	22.0	3.83	2.53	1.28	3.67	2.46	1.38	3.46	2.36	1.52	3.36	2.31	1.59	3.21	2.24	1.70	3.02	2.15	1.82
	18.0	25.0	3.98	2.56	1.30	3.83	2.49	1.41	3.61	2.39	1.55	3.52	2.35	1.62	3.36	2.27	1.72	3.18	2.19	1.85
	19.0	27.0	4.06	2.58	1.32	3.91	2.51	1.42	3.69	2.41	1.56	3.60	2.37	1.63	3.45	2.29	1.74	3.26	2.20	1.86
	19.5	27.0	4.10	2.58	1.32	3.95	2.51	1.43	3.73	2.42	1.58	3.60	2.37	1.64	3.49	2.29	1.74	3.30	2.21	1.87
	22.0	30.0	4.30	2.62	1.36	4.15	2.55	1.47	3.93	2.46	1.61	3.84	2.41	1.67	3.68	2.33	1.77	3.50	2.25	1.90
	24.0	32.0	4.46	2.66	1.39	4.31	2.59	1.50	4.09	2.49	1.64	4.00	2.45	1.71	3.85	2.38	1.81	3.66	2.28	1.93
45	12.0	18.0	4.30	3.22	1.58	4.17	3.15	1.62	3.95	3.04	1.82	3.85	3.00	1.92	3.67	2.92	2.08	3.44	2.83	2.30
	14.0	20.0	4.59	3.28	1.51	4.45	3.21	1.65	4.23	3.10	1.87	4.12	3.06	1.96	3.93	2.98	2.13	3.68	2.89	2.35
	16.0	22.0	4.90	3.34	1.54	4.74	3.27	1.68	4.50	3.16	1.91	4.39	3.12	2.01	4.19	3.04	2.18	3.93	2.95	2.40
	18.0	25.0	5.21	3.39	1.57	5.04	3.33	1.72	4.78	3.22	1.95	4.66	3.18	2.05	4.44	3.10	2.23	4.17	3.01	2.46
	19.0	27.0	5.36	3.42	1.58	5.19	3.36	1.74	4.92	3.25	1.96	4.80	3.21	2.07	4.57	3.13	2.25	4.29	3.04	2.49
	19.5	27.0	5.43	3.44	1.59	5.27	3.36	1.74	4.99	3.27	1.97	4.95	3.28	2.08	4.64	3.15	2.26	4.34	3.06	2.50
	22.0	30.0	5.83	3.51	1.62	5.64	3.44	1.78	5.34	3.34	2.03	5.21	3.30	2.13	4.96	3.22	2.33	4.65	3.13	2.56
	24.0	32.0	6.15	3.57	1.64	5.94	3.50	1.81	5.62	3.39	2.06	5.47	3.36	2.18	5.22	3.29	2.37	4.89	3.19	2.62
60	12.0	18.0	5.57	4.56	1.84	5.43	4.42	1.99	5.05	4.17	2.21	4.90	4.12	2.36	4.66	4.03	2.56	4.32	3.84	2.92
	14.0	20.0	5.95	4.56	1.89	5.77	4.42	1.99	5.38	4.17	2.26	5.23	4.12	2.41	4.95	4.03	2.61	4.66	3.84	2.97
	16.0	22.0	6.39	4.61	1.89	6.10	4.47	2.05	5.77	4.22	2.26	5.57	4.17	2.46	5.23	4.08	2.66	4.90	3.89	3.03
	18.0	25.0	6.73	4.75	1.94	6.53	4.56	2.10	6.10	4.37	2.31	5.95	4.32	2.51	5.62	4.17	2.71	5.23	4.03	3.03
	19.0	27.0	6.87	4.80	1.99	6.73	4.56	2.16	6.39	4.42	2.36	6.15	4.32	2.51	5.82	4.22	2.76	5.43	4.08	3.08
	22.0	30.0	7.59	4.90	2.05	7.35	4.70	2.16	6.92	4.52	2.41	6.77	4.47	2.56	6.48	4.37	2.81	6.05	4.17	3.18
		24.0	32.0	8.02	4.94	2.10	7.83	4.75	2.21	7.35	4.56	2.46	7.20	4.52	2.61	6.87	4.42	2.86	6.48	4.32

3TW00642-2C
3TW01152-2C

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 capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)
	(comp.+indoor+outdoor fan motor)	

Caution:

TC and SHC are shown by kW
V1: 230V

6. Air flow rate and BF are tabulated below.

Model		FHYC
35	AFR	14
	BF	0.16
45	AFR	15
	BF	0.12
60	AFR	18
	BF	0.10

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

3 Capacity tables



FHYC71~125B7 + RY71~100B7V1
RY71~125B7W1

Cooling capacity

230V [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	6.4	4.9	2.1	6.3	4.8	2.4	5.9	4.7	2.6	5.7	4.6	2.8	5.4	4.5	3.1	5.0	4.2	3.4
	14.0	20.0	6.8	4.9	2.2	6.7	4.8	2.5	6.2	4.7	2.7	6.1	4.6	2.8	5.7	4.5	3.1	5.4	4.2	3.4
	16.0	22.0	7.4	5.0	2.2	7.2	4.9	2.5	6.7	4.8	2.7	6.5	4.7	2.9	6.2	4.6	3.2	5.7	4.3	3.5
	18.0	25.0	7.9	5.2	2.3	7.7	5.0	2.5	7.4	4.9	2.8	7.0	4.8	3.0	6.6	4.6	3.2	6.2	4.5	3.6
	19.0	27.0	8.2	5.3	2.3	7.9	5.2	2.5	7.5	5.0	2.8	7.3	4.8	3.0	6.8	4.7	3.3	6.4	4.6	3.6
	19.5	27.0	8.2	5.3	2.3	8.1	5.2	2.5	7.6	5.0	2.8	7.4	4.8	3.0	6.9	4.7	3.3	6.5	4.6	3.6
	22.0	30.0	8.9	5.4	2.4	8.7	5.3	2.6	8.2	5.2	2.9	8.1	4.9	3.1	7.6	4.8	3.3	7.0	4.6	3.7
100	24.0	32.0	9.7	5.4	2.4	9.4	5.3	2.6	8.8	5.2	3.0	8.6	5.0	3.1	8.2	4.8	3.4	7.6	4.6	3.8
	12.0	18.0	8.6	7.2	2.7	8.5	7.1	3.0	8.3	6.9	3.4	8.0	6.8	3.6	7.7	6.4	4.0	7.1	6.2	4.4
	14.0	20.0	9.2	7.2	2.8	9.1	7.1	3.0	8.9	6.9	3.4	8.6	6.8	3.6	8.0	6.4	4.0	7.7	6.2	4.4
	16.0	22.0	10.4	7.3	2.8	10.1	7.2	3.1	9.4	7.0	3.5	9.2	6.9	3.7	8.7	6.5	4.1	8.0	6.3	4.5
	18.0	25.0	11.1	7.6	2.9	10.8	7.5	3.1	10.1	7.1	3.5	9.9	7.0	3.7	9.3	6.8	4.1	8.6	6.4	4.6
	19.0	27.0	11.4	7.7	2.9	11.1	7.6	3.2	10.4	7.2	3.6	10.3	7.1	3.8	9.7	6.9	4.2	8.9	6.5	4.7
	19.5	27.0	11.5	7.7	2.9	11.3	7.6	3.2	10.6	7.2	3.6	10.4	7.1	3.8	9.8	6.9	4.2	9.1	6.5	4.7
125	22.0	30.0	12.6	7.8	3.0	12.2	7.7	3.2	11.5	7.3	3.7	11.3	7.2	3.9	10.7	7.1	4.3	9.9	6.8	4.8
	24.0	32.0	13.4	7.9	3.1	13.1	7.8	3.3	12.3	7.5	3.8	12.0	7.3	4.0	11.4	7.2	4.4	10.6	6.9	4.9
	12.0	18.0	11.6	9.5	3.4	11.3	9.2	3.7	10.5	8.7	4.0	10.2	8.6	4.3	9.5	8.4	4.7	9.0	8.0	5.4
	14.0	20.0	12.4	9.5	3.5	12.0	9.2	3.7	11.2	8.7	4.1	10.9	8.6	4.4	10.3	8.4	4.8	9.7	8.0	5.4
	16.0	22.0	13.3	9.6	3.5	12.7	9.3	3.8	12.0	8.8	4.1	11.6	8.7	4.5	10.9	8.5	4.9	10.2	8.1	5.5
	18.0	25.0	14.0	9.9	3.6	13.6	9.5	3.8	12.7	9.1	4.2	12.4	9.0	4.6	11.7	8.7	5.0	10.9	8.4	5.5
	19.0	27.0	14.3	10.0	3.7	14.0	9.5	3.9	13.3	9.2	4.3	12.8	9.0	4.6	12.1	8.8	5.1	11.3	8.5	5.6
	19.5	27.0	14.5	10.0	3.7	14.2	9.5	3.9	13.4	9.2	4.3	13.0	9.1	4.6	12.3	8.8	5.1	11.5	8.5	5.6
	22.0	30.0	15.8	10.2	3.8	15.3	9.8	3.9	14.4	9.4	4.4	14.1	9.3	4.7	13.5	9.1	5.2	12.6	8.7	5.8
	24.0	32.0	16.7	10.3	3.8	16.3	9.9	4.0	15.3	9.5	4.5	15.0	9.4	4.8	14.3	9.2	5.3	13.5	9.0	5.9

3TW20382-1C

SYMBOLS

AFR:	Air flow rate	(m³/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering 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

V1: 230V

W1: 400V

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

6. Air flow rate and BF are tabulated below.

Model		FHYC
71	AFR	18
	BF	0.10
100	AFR	28
	BF	0.16
125	AFR	31
	BF	0.07

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

Model	Supply	FHYC
71	V1	0.1
	W1	0.0
100	V1	0.2
	W1	0.0
125	W1	0.0

3 Capacity tables



FHYC35-60B7 + RY35DA7V1/R45DB7V1/R460FA7V1

Heating capacity

230V [50Hz]

Outdoor	Indoor EDB (°C)	outdoor temperature (°CWB)											
		-10		-5		0		6		10		15	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
35	16.0	2.96	1.32	3.46	1.37	3.99	1.48	4.71	1.47	5.21	1.53	-	-
	18.0	2.96	1.35	3.44	1.39	3.97	1.51	4.67	1.50	5.17	1.56	-	-
	20.0	2.95	1.37	3.43	1.41	3.94	1.54	4.65	1.52	5.12	1.60	5.77	1.68
	21.0	2.95	1.38	3.41	1.42	3.91	1.55	4.59	1.54	5.08	1.62	5.75	1.71
	22.0	2.95	1.37	3.40	1.43	3.90	1.56	4.58	1.55	5.07	1.63	5.72	1.72
	24.0	2.95	1.41	3.39	1.45	3.88	1.60	4.54	1.59	5.01	1.66	5.66	1.76
45	16.0	3.91	1.97	4.45	1.92	5.05	1.86	5.86	1.86	6.45	1.86	-	-
	18.0	3.91	2.02	4.44	1.96	5.03	1.90	5.83	1.90	6.41	1.89	-	-
	20.0	3.91	2.06	4.43	2.01	5.01	1.92	5.80	1.93	6.37	1.91	7.15	1.91
	21.0	3.91	2.09	4.43	2.03	5.00	1.94	5.80	1.94	6.35	1.92	7.13	1.91
	22.0	3.91	2.12	4.42	2.05	4.99	1.95	5.77	1.96	6.33	1.93	7.10	1.92
	24.0	3.90	2.16	4.40	2.09	4.97	1.98	5.73	2.00	6.29	1.96	7.04	1.94
60	16.0	4.14	1.59	5.07	1.78	6.05	2.28	7.23	2.24	8.03	2.49	-	-
	18.0	4.08	1.63	5.54	1.83	6.01	2.38	7.20	2.32	8.00	2.59	-	-
	20.0	4.07	1.68	4.99	1.90	5.97	2.46	7.15	2.40	7.94	2.68	8.95	2.98
	21.0	4.01	1.69	4.98	1.92	5.95	2.50	7.15	2.44	7.93	2.73	8.93	3.03
	22.0	3.99	1.72	4.96	1.96	5.93	2.54	7.12	2.49	7.91	2.78	8.87	3.09
	24.0	3.93	1.76	4.92	2.01	5.88	2.63	7.07	2.57	7.84	2.88	8.84	3.20

3TW00642-3C
3TW01152-3C

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3

SYMBOLS

AFR:	Air flow rate	(m ³ /min)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total cooling capacity	(kW)
PI:	Power input	(kW)
	(comp.+indoor+outdoor fan motor)	

Caution:

TC and SHC are shown by kW
V1: 230V

5. Air flow rate and BF are tabulated below.

Model		FHYC
35	AFR	14
45	AFR	15
60	AFR	18

NOTES

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

3 Capacity tables



FHYC71~125B7 + RY71~100B7V1
RY71~125B7W1

Heating capacity

230V [50Hz]

Outdoor	Indoor EDB (°C)	outdoor temperature (°CWB)											
		-10		-5		0		6		10		15	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
71	16.0	6.8	2.7	7.3	2.8	8.0	2.8	8.8	2.9	9.4	2.9	-	-
	18.0	6.8	2.7	7.3	2.8	8.0	2.9	8.7	3.0	9.4	3.0	-	-
	20.0	6.8	2.8	7.3	2.9	7.9	3.0	8.7	3.0	9.3	3.1	10.1	3.2
	21.0	6.8	2.9	7.3	2.9	7.9	3.0	8.7	3.1	9.3	3.2	10.1	3.3
	22.0	6.8	2.9	7.3	3.0	7.9	3.1	8.7	3.2	9.3	3.2	9.9	3.3
	24.0	6.8	3.0	7.3	3.1	7.9	3.2	8.6	3.3	9.3	3.3	9.9	3.4
100	16.0	9.5	3.1	10.3	3.2	11.2	3.3	12.4	3.4	13.2	3.5	-	-
	18.0	9.4	3.2	10.2	3.3	11.2	3.4	12.3	3.5	13.2	3.6	-	-
	20.0	9.4	3.3	10.2	3.4	11.0	3.5	12.2	3.6	13.1	3.7	14.1	3.8
	21.0	9.4	3.4	10.1	3.5	11.0	3.6	12.2	3.7	13.0	3.8	14.1	3.9
	22.0	9.4	3.5	10.1	3.6	11.0	3.7	12.2	3.8	13.0	3.9	13.9	4.0
	24.0	9.3	3.6	10.1	3.7	10.8	3.8	12.0	3.9	12.7	4.0	13.9	4.1
125	16.0	12.1	4.0	13.0	4.2	14.1	4.3	15.4	4.4	16.4	4.6	-	-
	18.0	12.1	4.1	13.0	4.3	14.1	4.4	15.3	4.6	16.3	4.7	-	-
	20.0	12.1	4.2	12.9	4.4	14.0	4.5	15.3	4.7	16.3	4.9	17.8	5.0
	21.0	12.1	4.3	12.9	4.5	14.0	4.7	15.3	4.8	16.2	4.9	17.6	5.1
	22.0	12.1	4.4	12.9	4.6	14.0	4.7	15.3	4.9	16.2	5.0	17.6	5.2
	24.0	11.9	4.5	12.9	4.7	13.9	4.9	15.2	5.0	16.2	5.2	17.2	5.4

3TW20382-6B

SYMBOLS

AFR:	Air flow rate	(m ³ /min)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total cooling capacity	(kW)
PI:	Power input	(kW)
	(comp.+indoor+outdoor fan motor)	

Caution:

TC and SHC are shown by kW

V1: 230V

W1: 400V

NOTES

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

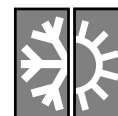
5. Air flow rate and BF are tabulated below.

Model		FHYC
71	AFR	18
	BF	0.1
100	AFR	28
	BF	0.16
125	AFR	31
	BF	0.07

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

Model	Supply	FHYC
71	V1	0.1
	W1	0.0
100	V1	0.2
	W1	0.0
125	W1	0.0

3 Capacity tables



FAY71~100FJV1 + RY71~100B7V1
RY71~100B7W1

Cooling capacity

230V [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	6.4	4.9	2.0	6.3	4.8	2.3	5.9	4.7	2.5	5.7	4.6	2.7	5.4	4.5	3.0	5.0	4.2	3.3
	14.0	20.0	6.8	4.9	2.1	6.7	4.8	2.4	6.2	4.7	2.6	6.1	4.6	2.7	5.7	4.5	3.0	5.4	4.2	3.3
	16.0	22.0	7.4	5.0	2.1	7.2	4.9	2.4	6.7	4.8	2.6	6.5	4.7	2.8	6.2	4.6	3.1	5.7	4.3	3.4
	18.0	25.0	7.9	5.2	2.2	7.7	5.0	2.4	7.4	4.9	2.7	7.0	4.8	2.9	6.6	4.6	3.1	6.2	4.5	3.5
	19.0	27.0	8.2	5.3	2.2	7.9	5.2	2.4	7.5	5.0	2.7	7.3	4.8	2.9	6.8	4.7	3.2	6.4	4.6	3.5
	19.5	27.0	8.2	5.3	2.2	8.1	5.2	2.4	7.6	5.0	2.7	7.4	4.8	2.9	6.9	4.7	3.2	6.5	4.6	3.5
	22.0	30.0	8.9	5.4	2.3	8.7	5.3	2.5	8.2	5.2	2.8	8.1	4.9	3.0	7.6	4.8	3.2	7.0	4.6	3.6
	24.0	32.0	9.5	5.4	2.3	9.4	5.3	2.5	8.8	5.2	2.9	8.6	5.0	3.0	8.2	4.8	3.3	7.6	4.6	3.7
100	12.0	18.0	8.6	7.2	2.5	8.5	7.1	2.8	8.3	6.9	3.2	8.0	6.8	3.4	7.7	6.4	3.8	7.1	6.2	4.2
	14.0	20.0	9.2	7.2	2.7	9.1	7.1	2.8	8.9	6.9	3.2	8.6	6.8	3.4	8.0	6.4	3.8	7.7	6.2	4.2
	16.0	22.0	10.4	7.3	2.7	10.1	7.2	2.9	9.4	7.0	3.3	9.2	6.9	3.5	8.7	6.5	3.9	8.0	6.3	4.2
	18.0	25.0	11.1	7.6	2.8	10.8	7.5	2.9	10.1	7.1	3.3	9.9	7.0	3.5	9.3	6.8	3.9	8.6	6.4	4.3
	19.0	27.0	11.4	7.7	2.8	11.1	7.6	3.0	10.4	7.2	3.4	10.3	7.1	3.6	9.7	6.9	4.0	8.9	6.5	4.4
	19.5	27.0	11.5	7.7	2.8	11.3	7.6	3.0	10.6	7.2	3.4	10.4	7.1	3.6	9.8	6.9	4.0	9.1	6.5	4.4
	22.0	30.0	12.6	7.8	2.9	12.2	7.7	3.0	11.5	7.3	3.5	11.3	7.2	3.7	10.7	7.1	4.1	9.9	6.8	4.5
	24.0	32.0	13.4	7.9	3.0	13.1	7.8	3.1	12.3	7.5	3.6	12.0	7.3	3.8	11.4	7.2	4.2	10.6	6.9	4.6

3TW20382-5B

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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 capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)
	(comp.+indoor+outdoor fan motor)	

Caution:

TC and SHC are shown by kW

V1: 230V

W1: 400V

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

6. Air flow rate and BF are tabulated below.

Model		FAY
71	AFR	27
	BF	0.10
100	AFR	27
	BF	0.10

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

Model	Supply	FAY
71	V1	0.1
	W1	0.0
100	V1	0.2
	W1	0.0

3 Capacity tables



FAY71~100FJV1 + RY71~100B7V1
RY71~100B7W1

Heating capacity

230V [50Hz]

Outdoor	Indoor EDB (°C)	outdoor temperature (°CWB)											
		-10		-5		0		6		10		15	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
71	16.0	6.5	2.6	6.9	2.7	7.7	2.7	8.4	2.8	8.9	2.8	-	-
	18.0	6.5	2.6	6.9	2.7	7.7	2.8	8.3	2.9	8.9	2.9	-	-
	20.0	6.5	2.7	6.9	2.8	7.6	2.9	8.3	2.9	8.8	3.0	9.7	3.1
	21.0	6.5	2.8	6.9	2.8	7.6	2.9	8.3	3.0	8.8	3.1	9.7	3.2
	22.0	6.5	2.8	6.9	2.9	7.6	3.0	8.3	3.1	8.8	3.1	9.5	3.2
	24.0	6.5	2.9	6.9	3.0	7.6	3.1	8.2	3.2	8.8	3.2	9.5	3.3
100	16.0	9.3	3.4	10.2	3.5	11.0	3.6	12.2	3.7	13.0	3.8	-	-
	18.0	9.2	3.5	10.1	3.6	11.0	3.7	12.1	3.8	13.0	3.9	-	-
	20.0	9.2	3.6	10.1	3.7	10.8	3.8	12.0	3.9	12.9	4.0	13.8	4.1
	21.0	9.2	3.7	10.0	3.8	10.8	3.9	12.0	4.0	12.8	4.1	13.8	4.2
	22.0	9.2	3.8	10.0	3.9	10.8	4.0	12.0	4.1	12.8	4.2	13.7	4.3
	24.0	9.1	3.9	10.0	4.0	10.6	4.1	11.8	4.2	12.5	4.3	13.7	4.4

3TW20382-10A

SYMBOLS

AFR: Air flow rate (m³/min)
EDB: Entering dry bulb temp. (°CDB)
TC: Total cooling capacity (kW)
PI: Power input (kW)
(comp.+indoor+outdoor fan motor)

Caution:

TC and SHC are shown by kW
V1: 230V
W1: 400V

NOTES

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

5. Air flow rate and BF are tabulated below.

Model		FAY
71	AFR	27
	BF	0.1
100	AFR	27
	BF	0.1

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

Model	Supply	FAY
71	V1	0.1
	W1	0.0
100	V1	0.2
	W1	0.0

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3

3 Capacity tables



FUY(71-125)FJV1 + RY71-100B7V1
RY100-125B7W1

Cooling capacity

230V [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	6.4	4.9	2.2	6.3	4.8	2.5	5.9	4.7	2.7	5.7	4.6	2.9	5.4	4.5	3.2	5.0	4.2	3.5
	14.0	20.0	6.8	4.9	2.3	6.7	4.8	2.6	6.2	4.7	2.8	6.1	4.6	2.9	5.7	4.5	3.2	5.4	4.2	3.5
	16.0	22.0	7.4	5.0	2.3	7.2	4.9	2.6	6.7	4.8	2.8	6.5	4.7	3.0	6.2	4.6	3.3	5.7	4.3	3.6
	18.0	25.0	7.9	5.2	2.4	7.7	5.0	2.6	7.4	4.9	2.9	7.0	4.8	3.1	6.6	4.6	3.3	6.2	4.5	3.7
	19.0	27.0	8.2	5.3	2.4	7.9	5.2	2.6	7.5	5.0	2.9	7.3	4.8	3.1	6.8	4.7	3.4	6.4	4.6	3.7
	19.5	27.0	8.2	5.3	2.4	8.1	5.2	2.6	7.6	5.0	2.9	7.4	4.8	3.1	6.9	4.7	3.4	6.5	4.6	3.7
	22.0	30.0	8.9	5.4	2.5	8.7	5.3	2.7	8.2	5.2	3.0	8.1	4.9	3.2	7.6	4.8	3.4	7.0	4.6	3.8
100	24.0	32.0	9.7	5.4	2.5	9.4	5.3	2.7	8.8	5.2	3.1	8.6	5.0	3.2	8.2	4.8	3.5	7.6	4.6	3.9
	12.0	18.0	8.3	7.2	2.7	8.3	7.1	3.0	8.1	6.9	3.4	7.8	6.8	3.6	7.5	6.4	4.0	6.9	6.2	4.4
	14.0	20.0	8.9	7.2	2.8	8.8	7.1	3.0	8.6	6.9	3.4	8.3	6.8	3.6	7.8	6.4	4.0	7.5	6.2	4.4
	16.0	22.0	10.1	7.3	2.8	9.8	7.2	3.1	9.1	7.0	3.5	8.9	6.9	3.7	8.4	6.5	4.1	7.8	6.3	4.5
	18.0	25.0	10.8	7.6	2.9	10.5	7.5	3.1	9.8	7.1	3.5	9.6	7.0	3.7	9.0	6.8	4.1	8.3	6.4	4.6
	19.0	27.0	11.1	7.7	2.9	10.8	7.6	3.2	10.1	7.2	3.6	10.0	7.1	3.8	9.4	6.9	4.2	8.6	6.5	4.7
	19.5	27.0	11.2	7.7	2.9	11.0	7.6	3.2	10.3	7.2	3.6	10.1	7.1	3.8	9.5	6.9	4.2	8.8	6.5	4.7
125	22.0	30.0	12.2	7.8	3.0	11.8	7.7	3.2	11.2	7.3	3.7	11.0	7.2	3.9	10.4	7.1	4.3	9.6	6.8	4.8
	24.0	32.0	13.0	7.9	3.1	12.7	7.8	3.3	11.9	7.5	3.8	11.7	7.3	4.0	11.1	7.2	4.4	10.3	6.9	4.9
	12.0	18.0	11.6	9.5	3.4	11.3	9.2	3.7	10.5	8.7	4.0	10.2	8.6	4.3	9.7	8.4	4.7	9.0	8.0	5.4
	14.0	20.0	12.4	9.5	3.5	12.0	9.2	3.7	11.2	8.7	4.1	10.9	8.6	4.4	10.3	8.4	4.8	9.7	8.0	5.4
	16.0	22.0	13.3	9.6	3.5	12.7	9.3	3.8	12.0	8.8	4.1	11.6	8.7	4.5	10.9	8.5	4.9	10.2	8.1	5.5
	18.0	25.0	14.0	9.9	3.6	13.6	9.5	3.8	12.7	9.1	4.2	12.4	9.0	4.6	11.7	8.7	5.0	10.9	8.4	5.5
	19.0	27.0	14.3	10.0	3.7	14.0	9.5	3.9	13.3	9.2	4.3	12.8	9.0	4.6	12.1	8.8	5.1	11.3	8.5	5.6
	19.5	27.0	14.5	10.0	3.7	14.2	9.5	3.9	13.4	9.2	4.3	13.0	9.1	4.6	12.3	8.8	5.1	11.5	8.5	5.6
	22.0	30.0	15.8	10.2	3.8	15.3	9.8	3.9	14.4	9.4	4.4	14.1	9.3	4.7	13.5	9.1	5.2	12.6	8.7	5.8
	24.0	32.0	16.7	10.3	3.8	16.3	9.9	4.0	15.3	9.5	4.5	15.0	9.4	4.8	14.3	9.2	5.3	13.5	9.0	5.9

3TW20382-11A

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

V1: 230V

W1: 400V

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

6. Air flow rate and BF are tabulated below.

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

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

Model	Supply	FUY
71	V1	0.1
	W1	0.0
100	V1	0.2
	W1	0.0
125	W1	0.0

3 Capacity tables



FUY(71-125)FJV1 + RY71-100B7V1
RY71-125B7W1

Heating capacity

230V [50Hz]

Outdoor	Indoor EDB (°C)	outdoor temperature (°CWB)											
		-10		-5		0		6		10		15	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
71	16.0	6.8	2.7	7.3	2.8	8.0	2.8	8.8	2.9	9.4	2.9	0.0	0.0
	18.0	6.8	2.7	7.3	2.8	8.0	2.9	8.7	3.0	9.4	3.0	0.0	0.0
	20.0	6.8	2.8	7.3	2.9	7.9	3.0	8.7	3.0	9.3	3.1	10.1	3.2
	21.0	6.8	2.9	7.3	2.9	7.9	3.0	8.7	3.1	9.3	3.2	10.1	3.3
	22.0	6.8	2.9	7.3	3.0	7.9	3.1	8.7	3.2	9.3	3.2	9.9	3.3
	24.0	6.8	3.0	7.3	3.1	7.9	3.2	8.6	3.3	9.3	3.3	9.9	3.4
100	16.0	9.5	3.1	10.3	3.2	11.2	3.3	12.4	3.4	13.2	3.5	0.0	0.0
	18.0	9.4	3.2	10.2	3.3	11.2	3.4	12.3	3.5	13.2	3.6	0.0	0.0
	20.0	9.4	3.3	10.2	3.4	11.0	3.5	12.2	3.6	13.1	3.7	14.1	3.8
	21.0	9.4	3.4	10.1	3.5	11.0	3.6	12.2	3.7	13.0	3.8	14.1	3.9
	22.0	9.4	3.5	10.1	3.6	11.0	3.7	12.2	3.8	13.0	3.9	13.9	4.0
	24.0	9.3	3.6	10.1	3.7	10.8	3.8	12.0	3.9	12.7	4.0	13.9	4.1
125	16.0	12.1	4.0	13.0	4.2	14.1	4.3	15.4	4.4	16.4	4.6	0.0	0.0
	18.0	12.1	4.1	13.0	4.3	14.1	4.4	15.3	4.6	16.3	4.7	0.0	0.0
	20.0	12.1	4.2	12.9	4.4	14.0	4.5	15.3	4.7	16.3	4.9	17.8	5.0
	21.0	12.1	4.3	12.9	4.5	14.0	4.7	15.3	4.8	16.2	4.9	17.6	5.1
	22.0	12.1	4.4	12.9	4.6	14.0	4.7	15.3	4.9	16.2	5.0	17.6	5.2
	24.0	11.9	4.5	12.9	4.7	139.0	4.9	15.2	5.0	16.2	5.2	17.2	5.4

3TW20382-12A

SYMBOLS

AFR:	Air flow rate	(m³/min)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total cooling capacity	(kW)
PI:	Power input	(kW)
	(comp.+indoor+outdoor fan motor)	

Caution:

TC and SHC are shown by kW

V1: 230V

W1: 400V

5. Air flow rate and BF are tabulated below.

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

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

Model	Supply	FUY
71	V1	0.1
	W1	0.0
100	V1	0.2
	W1	0.0
125	W1	0.0

NOTES

- Ratings shown are net capacities which include a deduction for indoor fan motor heat
- Shows nominal capacities
- 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

3 Capacity tables



RY125B7W1 + FDY125B7V1

Cooling capacity

230V [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	11.1	9.6	3.6	10.8	9.4	4.0	10.2	9.0	4.5	10.0	8.8	4.8	9.5	8.5	5.2	8.9	8.1	5.8
	14.0	20.0	11.9	9.7	3.7	11.5	9.5	4.0	10.9	9.1	4.6	10.6	8.9	4.8	10.1	8.6	5.3	9.5	8.2	5.9
	16.0	22.0	12.6	9.8	3.8	12.2	9.5	4.1	11.6	9.2	4.7	11.3	9.0	4.9	10.8	8.7	5.4	10.1	8.3	6.0
	18.0	25.0	13.5	10.4	3.9	13.0	10.1	4.2	12.3	9.7	4.8	12.0	9.6	5.0	11.5	9.2	5.5	10.8	8.8	6.1
	19.0	27.0	13.9	9.5	3.9	13.4	10.7	4.3	12.7	10.3	4.8	12.4	10.1	5.1	11.8	9.8	5.6	11.1	9.4	6.2
	22.0	30.0	15.2	9.7	4.1	14.7	10.7	4.4	13.9	10.3	5.0	13.6	10.1	5.3	13.0	9.8	5.8	12.2	9.4	6.4
	24.0	32.0	16.1	9.8	4.2	15.6	10.6	4.5	14.8	10.2	5.1	14.4	10.1	5.4	13.7	9.8	5.9	12.9	9.4	6.5

3TW20422-11A

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)	

6. Air flow rate and BF are tabulated below.

Model		FDY
125	AFR	45
	BF	0.25

Caution:

TC and SHC are shown by kW

V1: 230V

W1: 400V

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

3 Capacity tables



RY125B7W1 + FDY125B7V1

Heating capacity

230V [50Hz]

Outdoor	Indoor		outdoor temperature (°CWB)											
	EDB (°C)	EDB (°C)	-10		-5		0		6		10		15	
			TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
125	9.0	16.0	10.6	3.8	11.5	4.0	12.3	4.1	13.5	4.2	14.4	4.4	-	-
	11.0	18.0	10.6	3.9	11.5	4.1	12.3	4.2	13.4	4.4	14.3	4.5	-	-
	12.0	20.0	10.6	4.0	11.3	4.2	12.3	4.3	13.4	4.5	14.3	4.7	15.6	4.8
	13.0	21.0	10.6	4.1	11.3	4.3	12.3	4.5	13.4	4.6	14.2	4.7	15.3	4.9
	14.0	22.0	10.6	4.2	11.3	4.4	12.3	4.5	13.4	4.7	14.2	4.8	15.3	5.0
	15.0	24.0	10.4	4.3	11.3	4.5	12.2	4.7	13.3	4.8	14.2	5.0	15.1	5.2

3TW20422-12A

SYMBOLS

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

5. Air flow rate and BF are tabulated below.

Model		FDY
125	AFR	45
	BF	0.25

Caution:

TC and SHC are shown by kW

V1: 230V

W1: 400V

NOTES

- Ratings shown are net capacities which include a deduction for indoor fan motor heat
- Shows nominal capacities
- Operative down to 21°C outdoor temp.
Outdoor air: 85% RH. However, when outdoor temperature is 7°CDB, wet bulb temperature is 6°CWB.
Corresponding refrigerant piping length: 7.5 m
Level difference: 0 m
- Direct interpolation is permissible.
Do not extrapolate.

24

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3 Capacity tables



RY(200-250)F7W1 + FDY(200-250)B7V1

Cooling capacity

230V [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
200	12.0	18.0	17.5	15.3	5.9	16.8	14.8	6.3	15.8	14.1	7.1	15.4	13.9	7.5	14.8	13.4	8.2	14.1	13.0	9.2
	14.0	20.0	18.7	15.4	6.0	17.9	14.9	6.4	16.9	14.3	7.2	16.5	14.0	7.6	15.9	13.6	8.3	15.1	13.1	9.3
	16.0	22.0	20.0	15.5	6.1	19.2	15.0	6.5	18.1	14.4	7.3	17.7	14.1	7.7	17.0	13.7	8.4	16.2	13.2	9.4
	18.0	25.0	21.3	16.4	6.2	20.4	16.0	6.6	19.3	15.3	7.4	18.9	15.1	7.8	18.2	14.7	8.6	17.4	14.2	9.6
	19.0	27.0	21.9	17.4	6.2	21.1	16.9	6.7	20.0	16.3	7.5	19.5	16.0	7.9	18.8	15.6	8.6	17.9	15.1	9.7
	22.0	30.0	24.1	17.3	6.4	23.2	16.9	6.9	22.0	16.3	7.7	21.5	16.0	8.1	20.7	15.6	8.9	19.8	15.1	9.9
250	24.0	32.0	25.6	17.4	6.5	24.6	16.9	7.0	23.4	16.3	7.8	22.9	16.0	8.3	22.1	15.6	9.0	21.1	15.1	10.1
	12.0	18.0	22.4	19.6	7.0	21.5	18.9	7.6	20.2	18.1	8.5	19.7	17.8	8.9	18.9	17.2	9.8	18.0	16.6	10.9
	14.0	20.0	24.0	19.7	7.1	23.0	19.1	7.7	21.7	18.3	8.6	21.2	18.0	9.0	20.3	17.4	9.9	19.4	16.8	11.1
	16.0	22.0	25.6	19.8	7.2	24.6	19.2	7.8	23.2	18.4	8.7	22.7	18.1	9.2	21.8	17.6	10.0	20.8	16.9	11.2
	18.0	25.0	27.2	21.0	7.3	26.2	20.4	7.9	24.8	19.6	8.9	24.2	19.3	9.3	23.3	18.8	10.2	22.3	18.2	11.4
	19.0	27.0	28.1	22.2	7.4	27.0	21.6	8.0	25.6	20.8	8.9	25.0	20.5	9.4	24.1	20.0	10.3	23.0	19.4	11.5
	22.0	30.0	30.9	22.2	7.6	29.7	21.6	8.2	28.2	20.8	9.2	27.6	20.5	9.7	26.5	20.0	10.5	25.4	19.4	11.8
	24.0	32.0	32.8	22.2	7.7	31.6	21.7	8.3	30.0	20.9	9.3	29.4	20.5	9.8	28.3	20.0	10.7	27.1	19.4	12.0

3TW21502-1

24

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 capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input	(kW)
	(comp.+indoor+outdoor fan motor)	

Caution:

TC and SHC are shown by kW
V1: 230V
W1: 400V

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 × 60 × AFR (m³/min) × (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

3 Capacity tables



RY(200-250)F7W1 + FDY(200-250)B7V1

Heating capacity

230V [50Hz]

Outdoor	Indoor		outdoor temperature (°CWB)											
	EDB (°C)	EDB (°C)	-10		-5		0		6		10		15	
			TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
200	9.0	16.0	15.2	5.8	16.9	5.8	19.8	6.1	23.7	6.4	26.7	6.7	30.7	7.2
	11.0	18.0	15.0	5.9	16.8	6.0	19.7	6.2	23.5	6.6	26.5	6.9	30.5	7.4
	12.0	20.0	14.8	6.1	16.5	6.1	19.6	6.4	23.4	6.8	26.3	7.1	30.4	7.6
	13.0	21.0	14.7	6.1	16.4	6.2	19.6	6.5	23.3	6.9	26.3	7.2	30.3	7.7
	14.0	22.0	14.6	6.2	16.2	6.3	19.5	6.6	23.3	7.0	26.2	7.4	30.2	7.8
200	15.0	24.0	14.4	6.4	16.0	6.5	19.5	6.8	23.2	7.2	26.1	7.6	30.1	8.1
	9.0	16.0	17.6	6.9	19.5	6.9	22.9	7.2	27.3	7.6	30.8	8.0	35.4	8.5
	11.0	18.0	17.3	7.0	19.4	7.1	22.7	7.4	27.1	7.9	30.6	8.2	35.2	8.8
	12.0	20.0	17.1	7.2	19.1	7.3	22.6	7.6	27.0	8.1	30.4	8.5	35.0	9.1
	13.0	21.0	16.9	7.3	18.9	7.4	22.6	7.7	26.9	8.2	30.3	8.6	34.9	9.2
200	14.0	22.0	16.8	7.4	18.7	7.5	22.5	7.9	26.9	8.3	30.3	8.8	34.9	9.3
	15.0	24.0	16.6	7.6	18.4	7.7	22.5	8.1	26.8	8.6	30.2	9.0	34.8	9.7

3TW21502-2

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 capacity	(kW)
PI:	Power input	(kW)
	(comp.+indoor+outdoor fan motor)	

Caution:

TC and SHC are shown by kW
V1: 230V
W1: 400V

NOTES

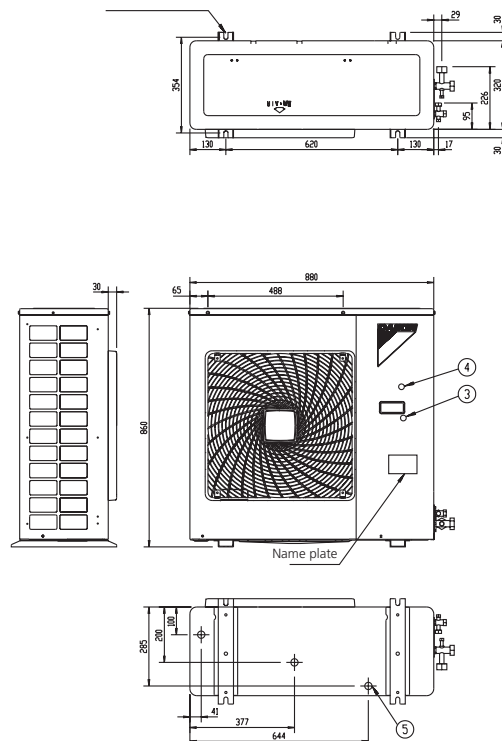
- Ratings shown are net capacities which include a deduction for indoor fan motor heat
- Shows nominal capacities
- Operative down to 21°C outdoor temp.
Outdoor air: 85% RH. However, when outdoor temperature is 7°CDB, wet bulb temperature is 6°CWB.
Corresponding refrigerant piping length: 7.5 m
Level difference: 0 m
- Direct interpolation is permissible.
Do not extrapolate.

24

3

unit (mm)

Hole for anchor bolt
4-M12



- 1 Gas pipe connection $\phi 15.9$ flare
- 2 Liquid pipe connection - $\phi 9.5$ flare
- 3 Service port (in the unit)
- 4 Grounding terminal M5 (in switch box)
- 5 Drain outlet

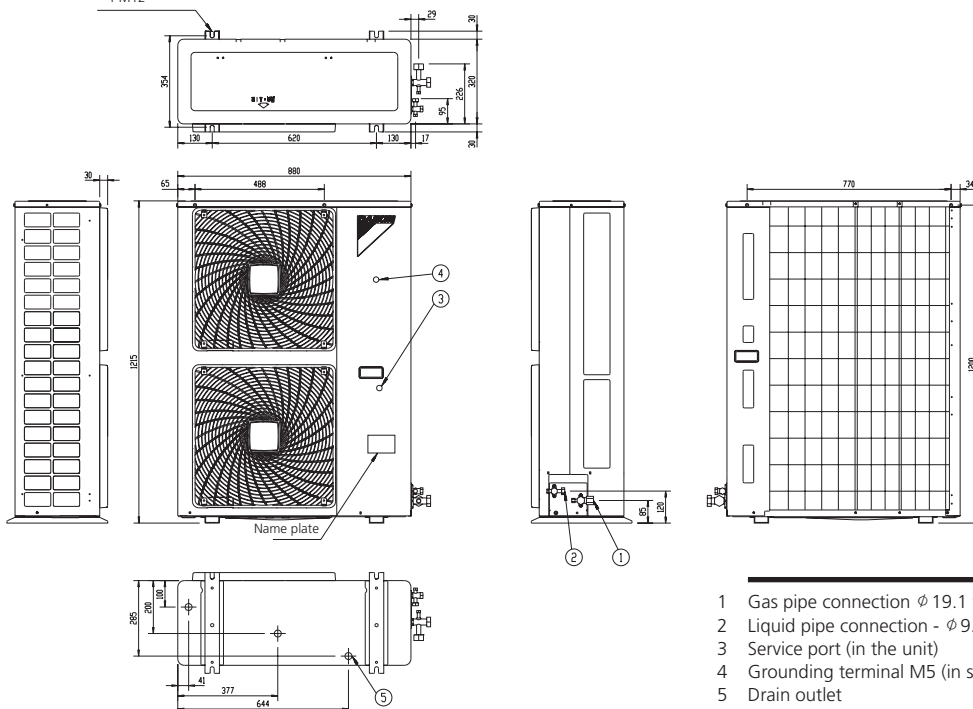
3TW23184-1

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4

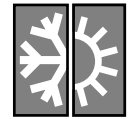
unit (mm)

Hole for anchor bolt
4-M12



- 1 Gas pipe connection \varnothing 19.1 flare
- 2 Liquid pipe connection - \varnothing 9.5 flare
- 3 Service port (in the unit)
- 4 Grounding terminal M5 (in switch box)
- 5 Drain outlet

3TW23224-1

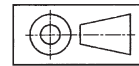
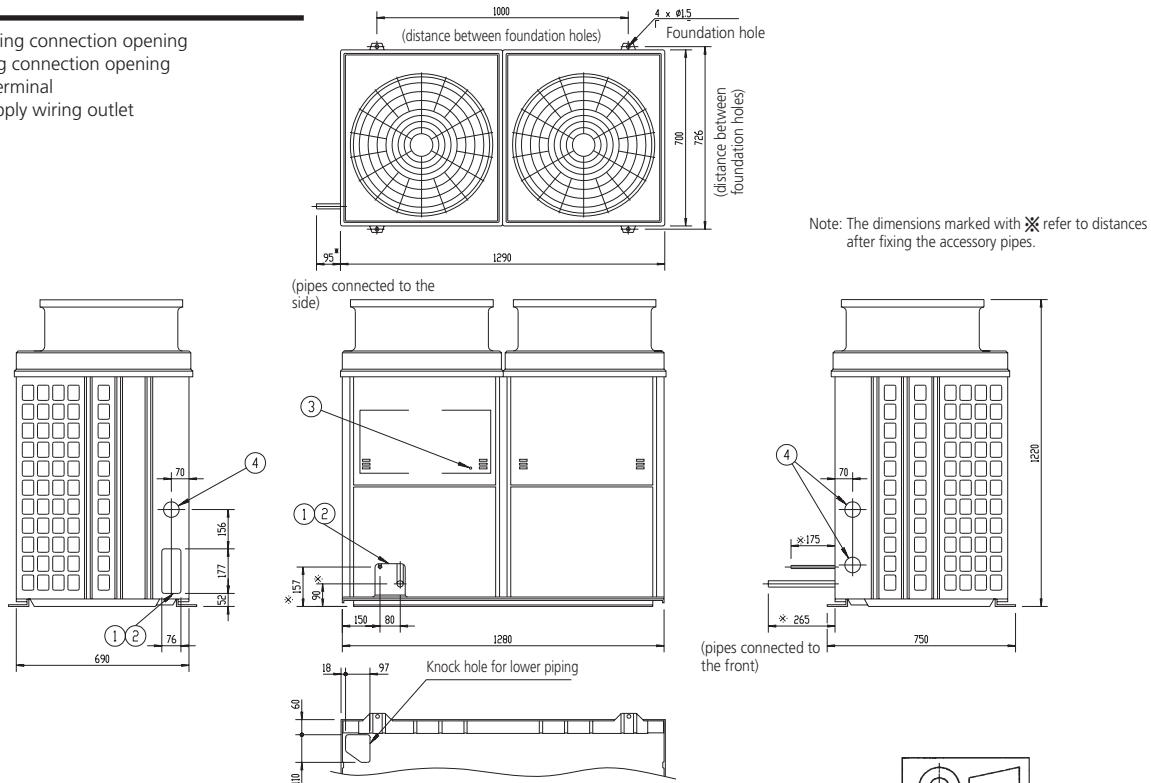


4 Dimensional drawings

RY200F7

unit (mm)

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

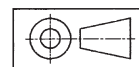
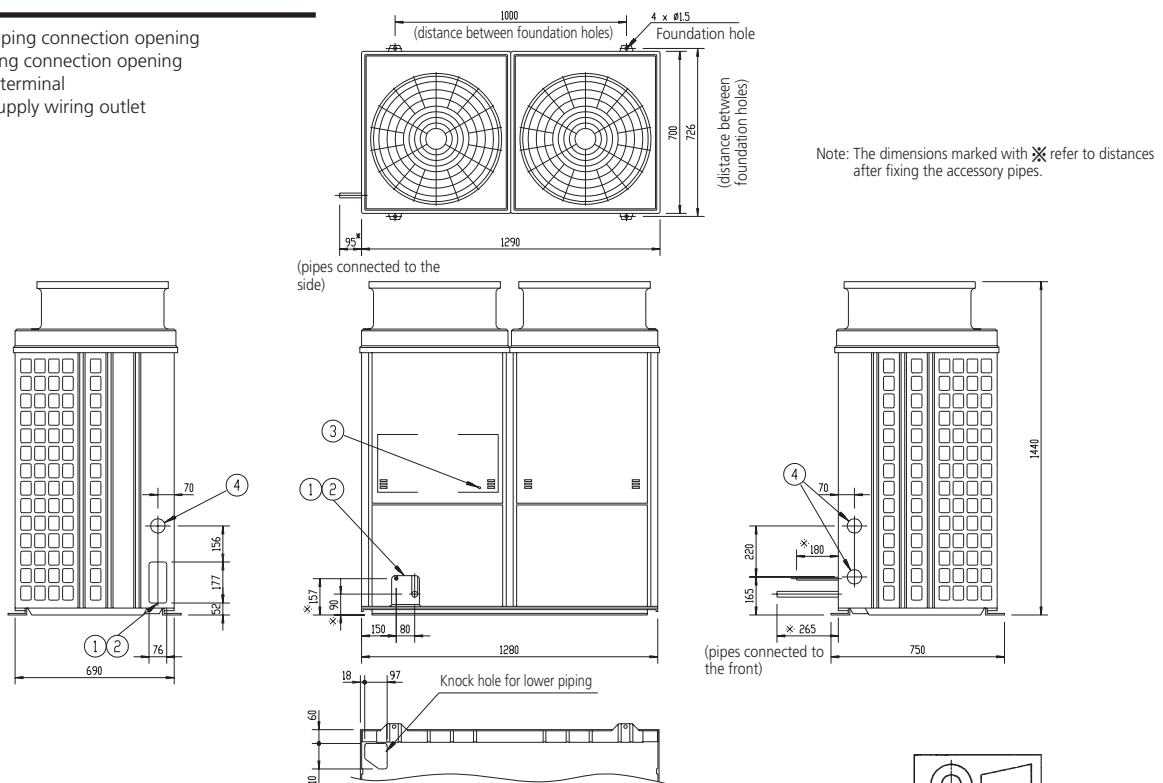


3TW21484-1C

R250F7

unit (mm)

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



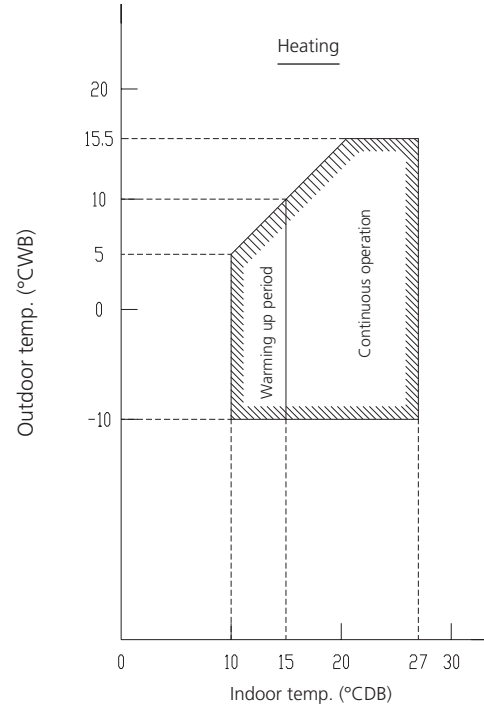
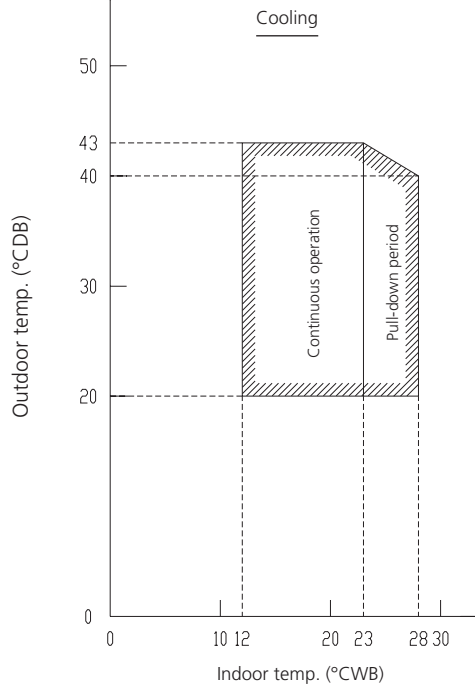
3TW21494-1C

5 Operation range



24
5

REY18GA7V1 REY40GA7V1



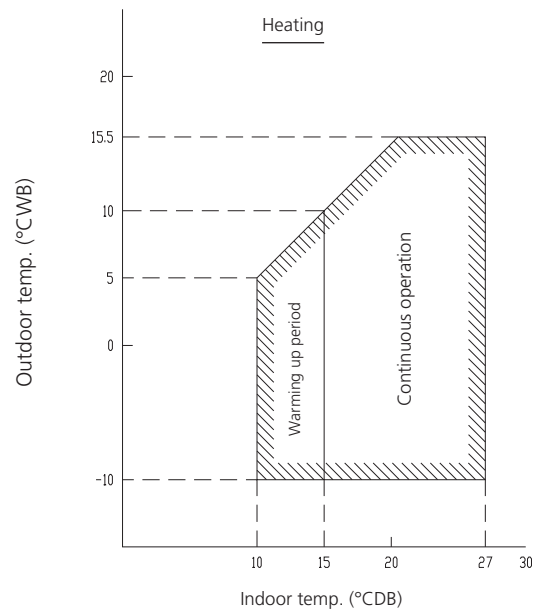
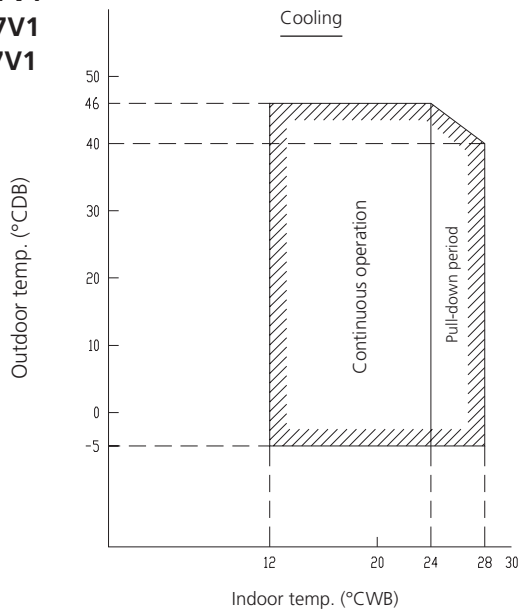
Notes:

The graph is based on the following conditions:

1. Equivalent piping length 7.5m
2. Level difference 0 m

4TW01043-1

RY22DB7V1 RY35DA7V1 RY45DB7V1 RY60FA7V1



Notes:

The graph is based on the following conditions:

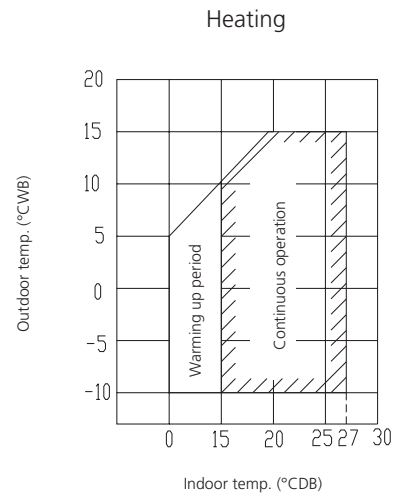
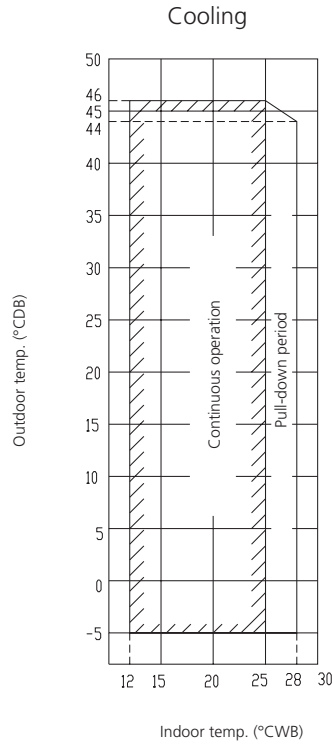
1. Equivalent piping length 7.5m
2. Level difference 0 m
3. Air flow rate Hi speed

3TW00643-1

5 Operation range

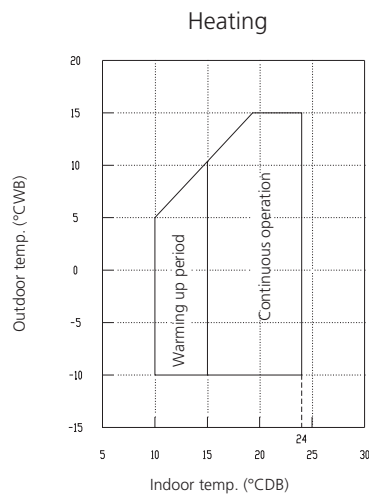
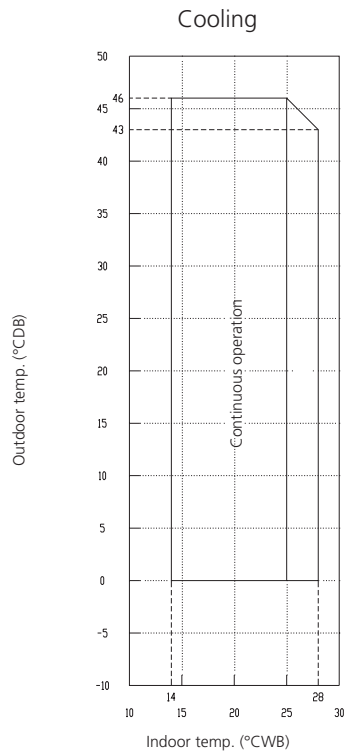


RY71-100-125B7



3TW23203-1

RY200-250F7

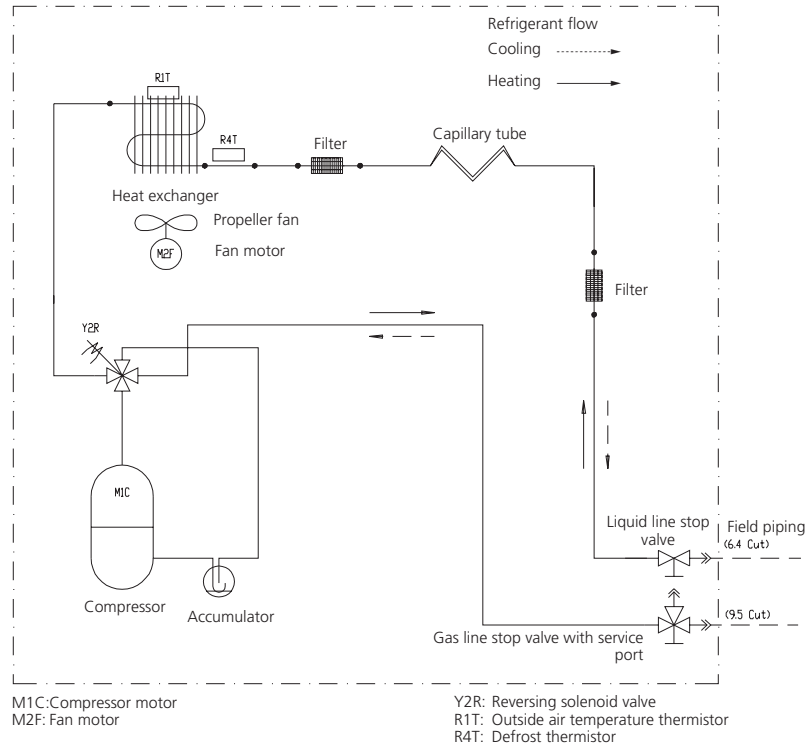


3TW21503-1

6 Piping diagrams



REY18GA7

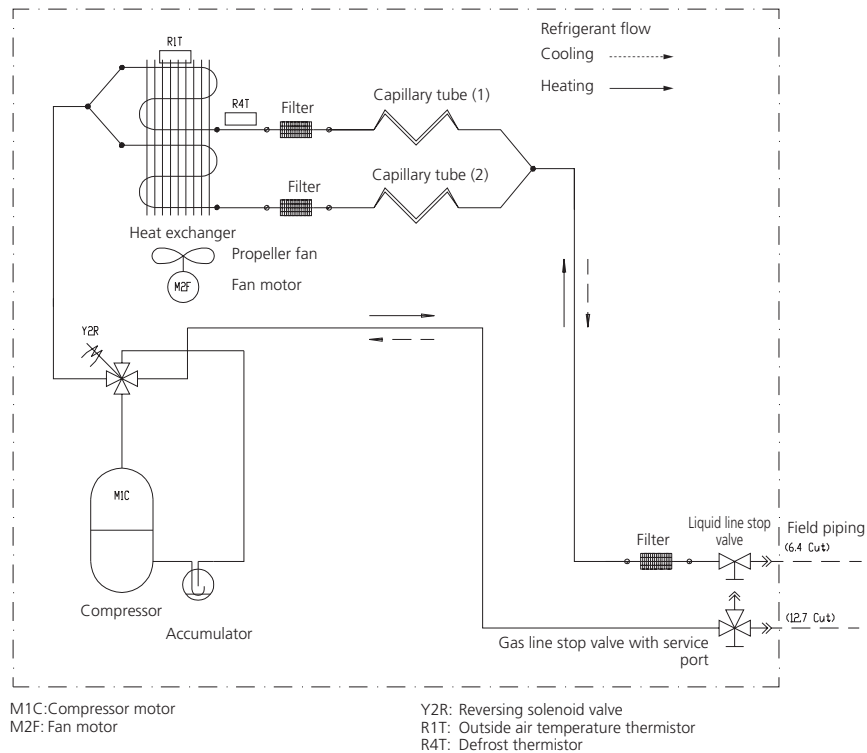


Check valve Flare connection Screw connection Flange connection Pinched pipe Spinned pipe

3TW01045-1

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6

REY40GA7



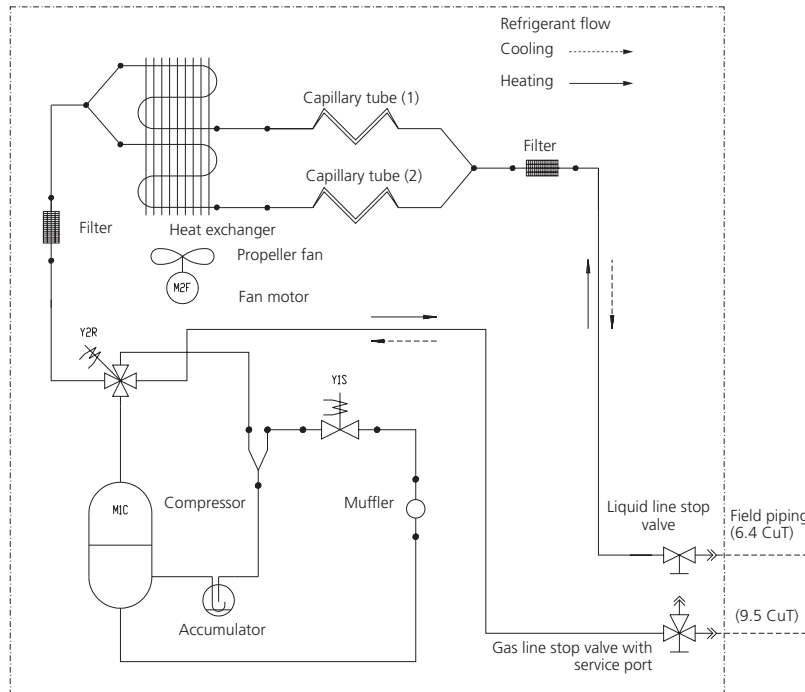
Check valve Flare connection Screw connection Flange connection Pinched pipe Spinned pipe

3TW01115-1

6 Piping diagrams



RY22DB7



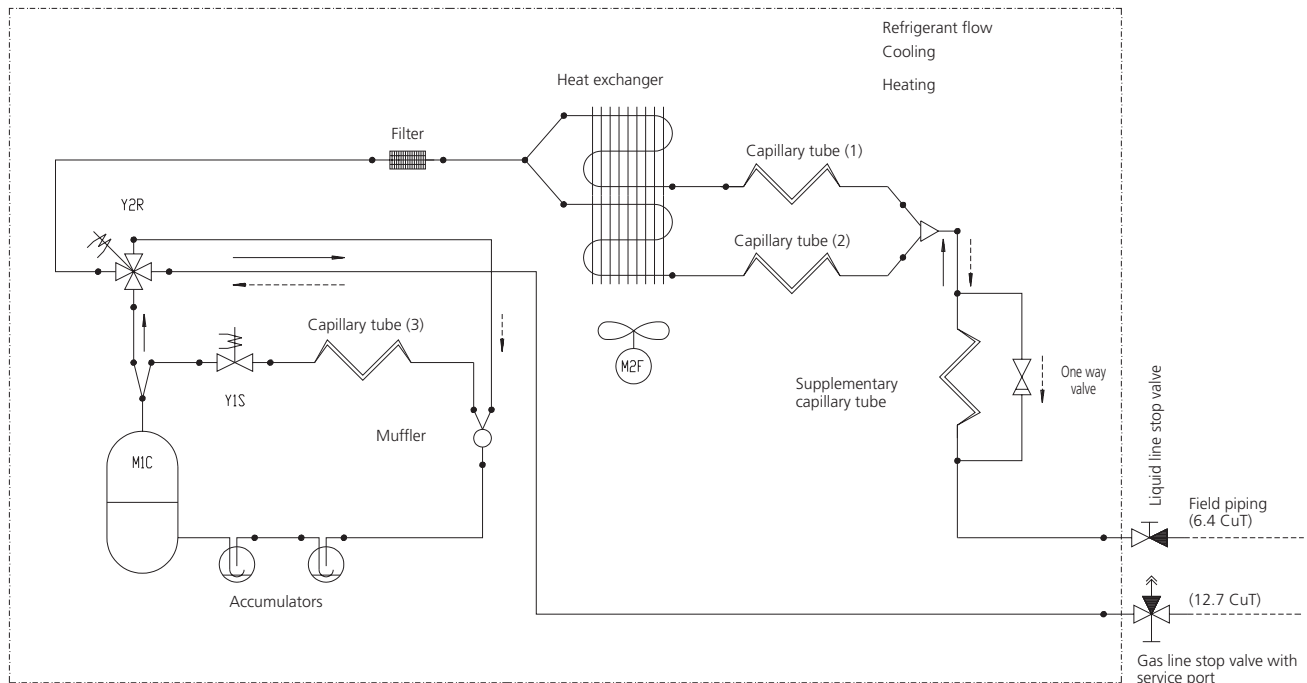
M1C: Compressor motor
M2F: Fan motor

Y2R: Reversing solenoid valve
Y1S: Solenoid valve

Check valve Flare connection Screw connection Flange connection Pinched pipe Spinned pipe

3TW00065-1B

RY35DA7



M1C: Compressor motor
M2F: Fan motor

Y2R: Reversing solenoid valve
Y1S: Solenoid valve

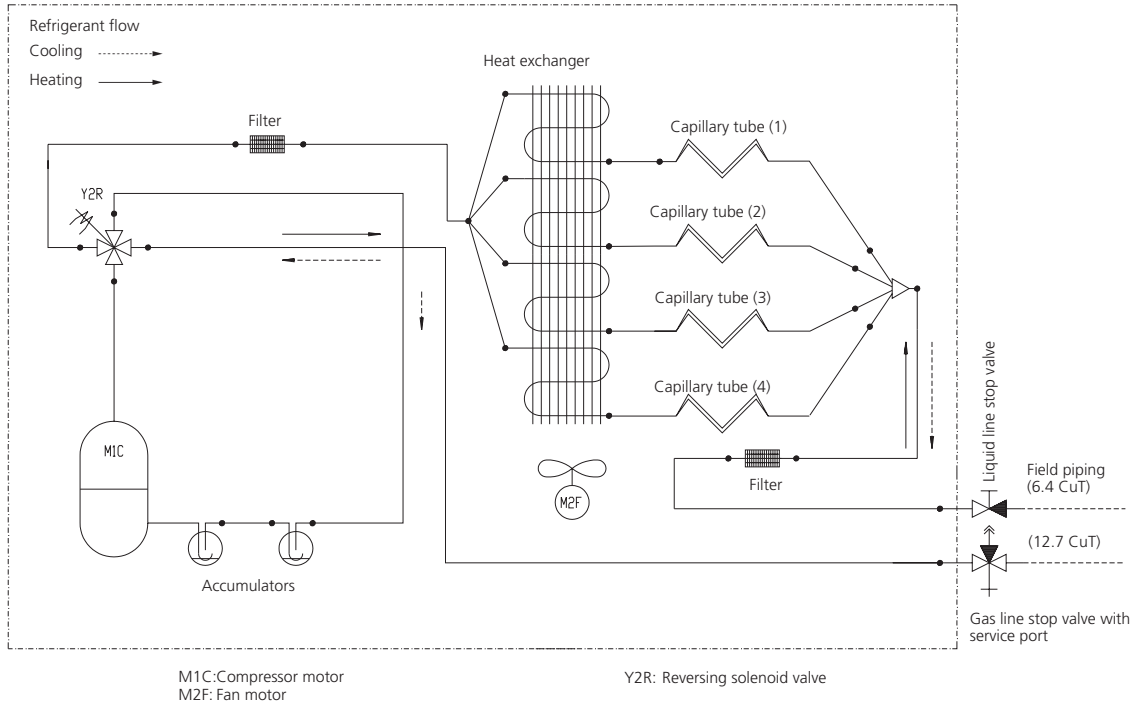
Check valve Flare connection Screw connection Flange connection Pinched pipe Spinned pipe

3TW00645-1C

6 Piping diagrams



RY45DB7

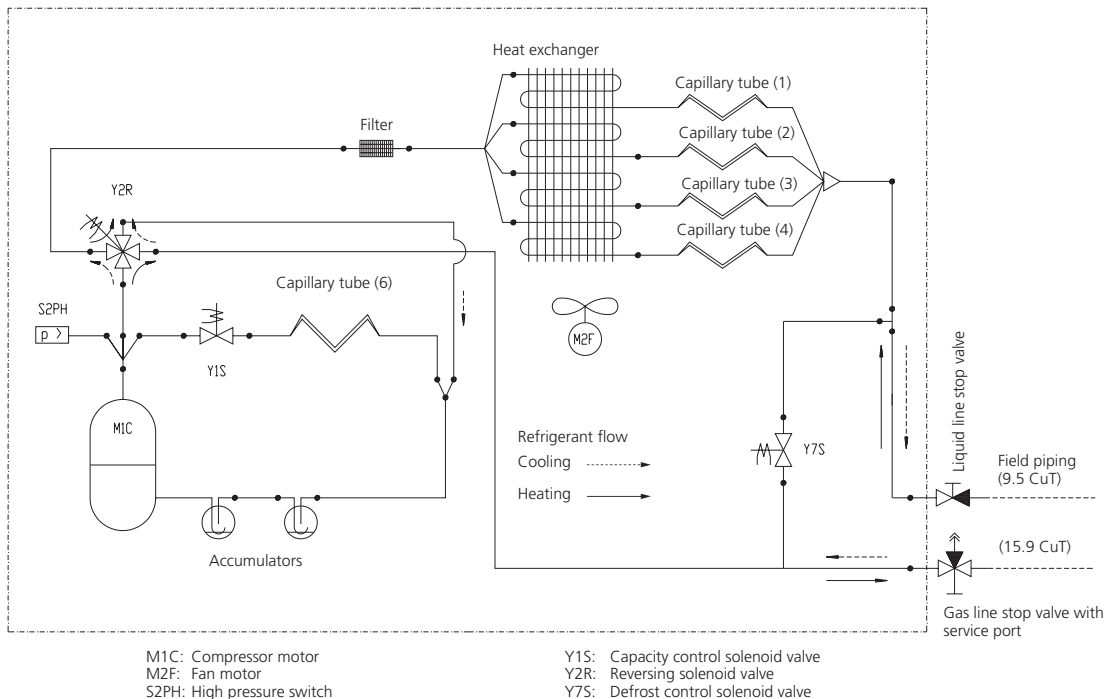


Check valve Flare connection Screw connection Flange connection Pinched pipe Spinned pipe

3TW01145-1B

24
6

RY60FA7



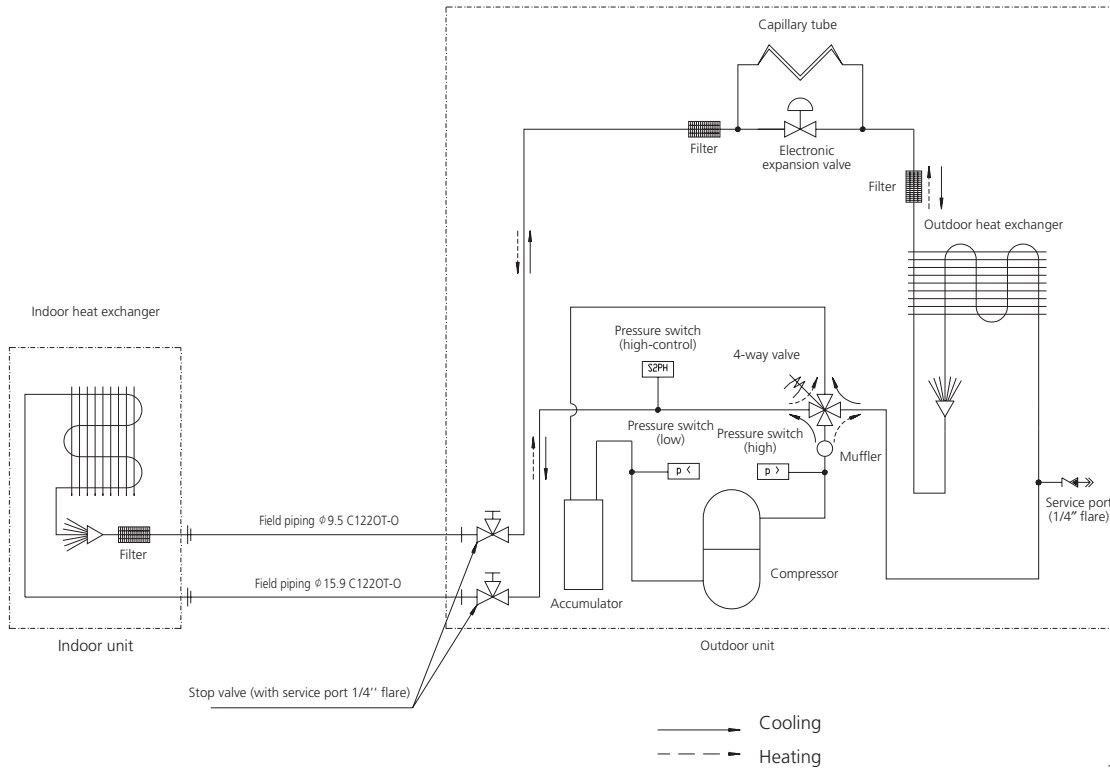
Check valve Flare connection Screw connection Flange connection Pinched pipe Spinned pipe

3TW00665-1B

6 Piping diagrams

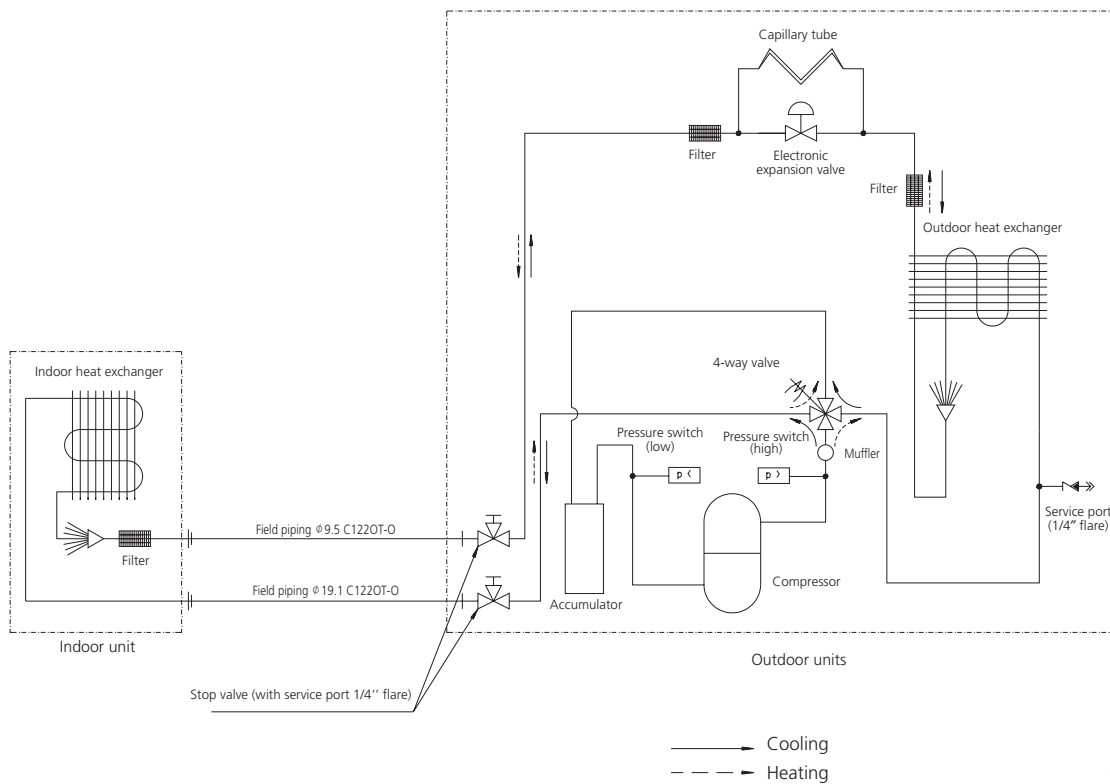


RY71B7



3TW23205-1

RY100-125B7

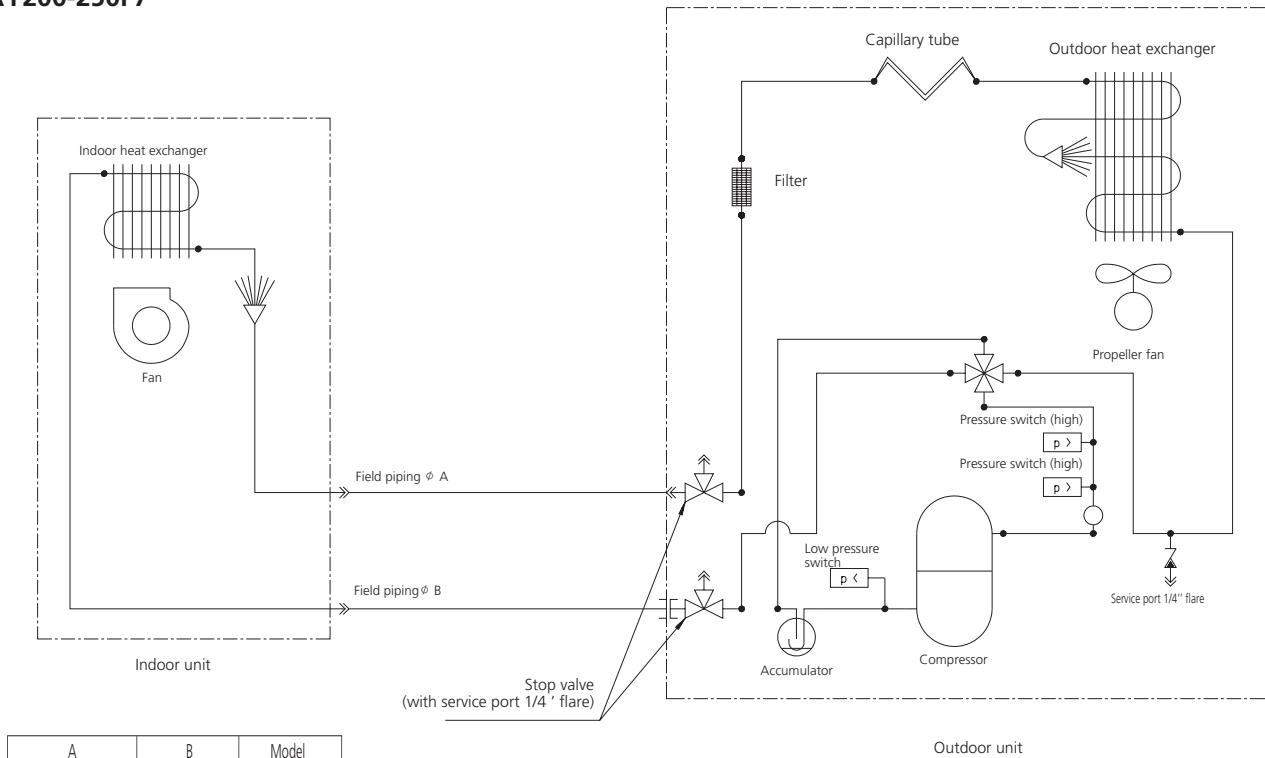


3TW23245-1

6 Piping diagrams



RY200-250F7



A	B	Model
12.7	28.6	RY200
15.9	28.6	RY250

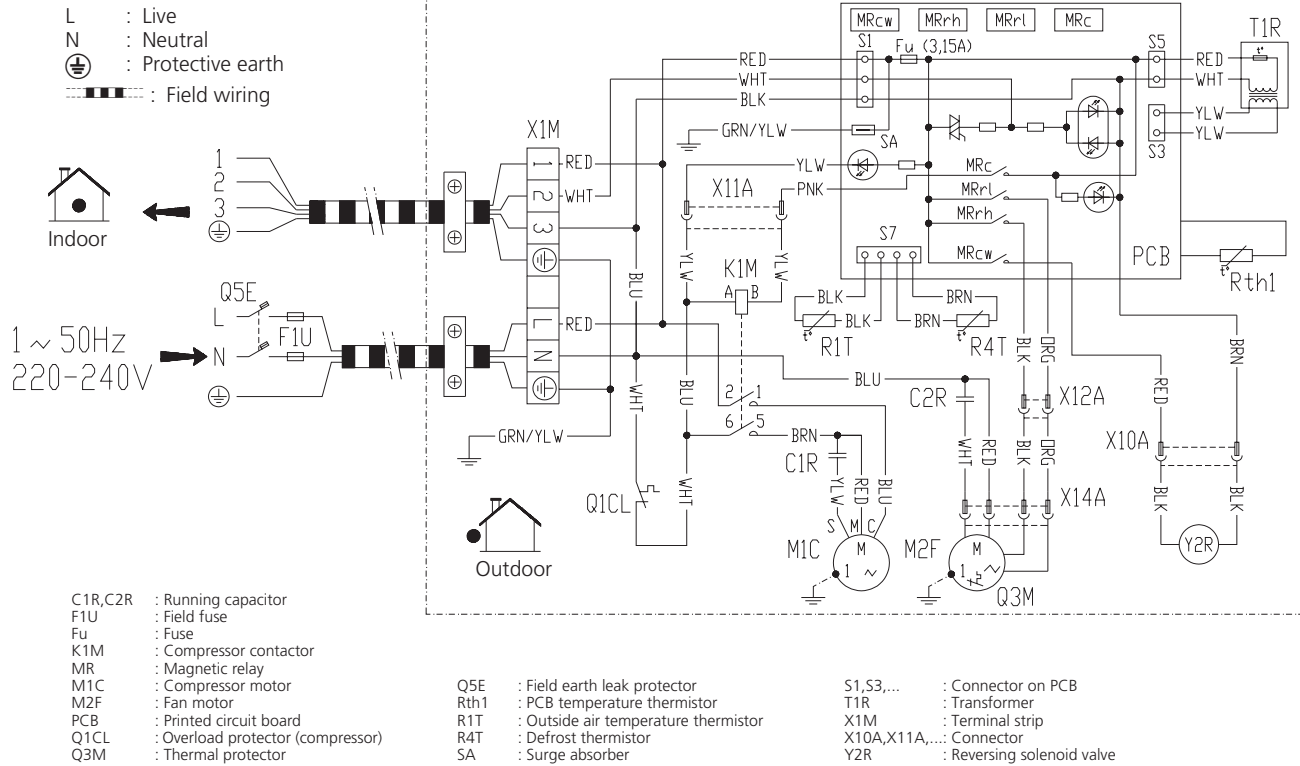
3TW21505-1A

24
6

7 Wiring diagrams

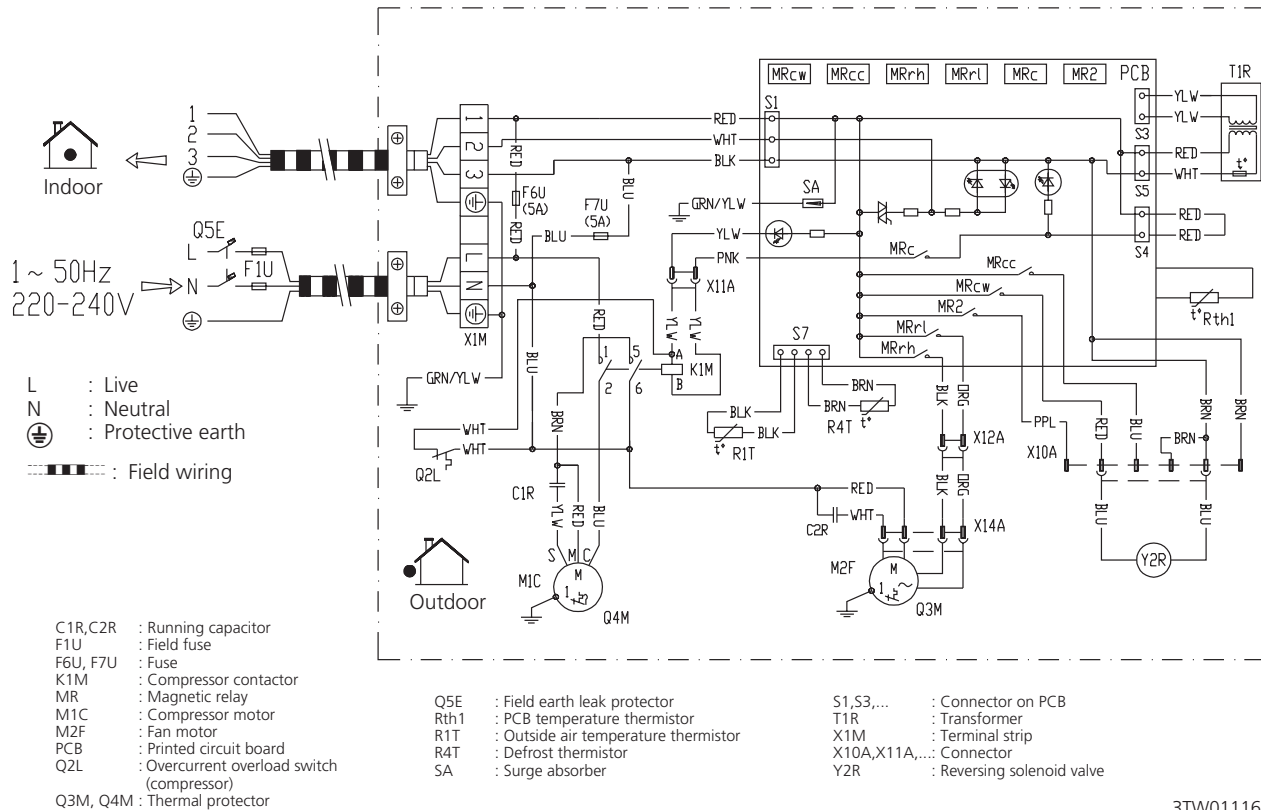


REY18GA7V1



3TW01046-B

REY40GA7V1

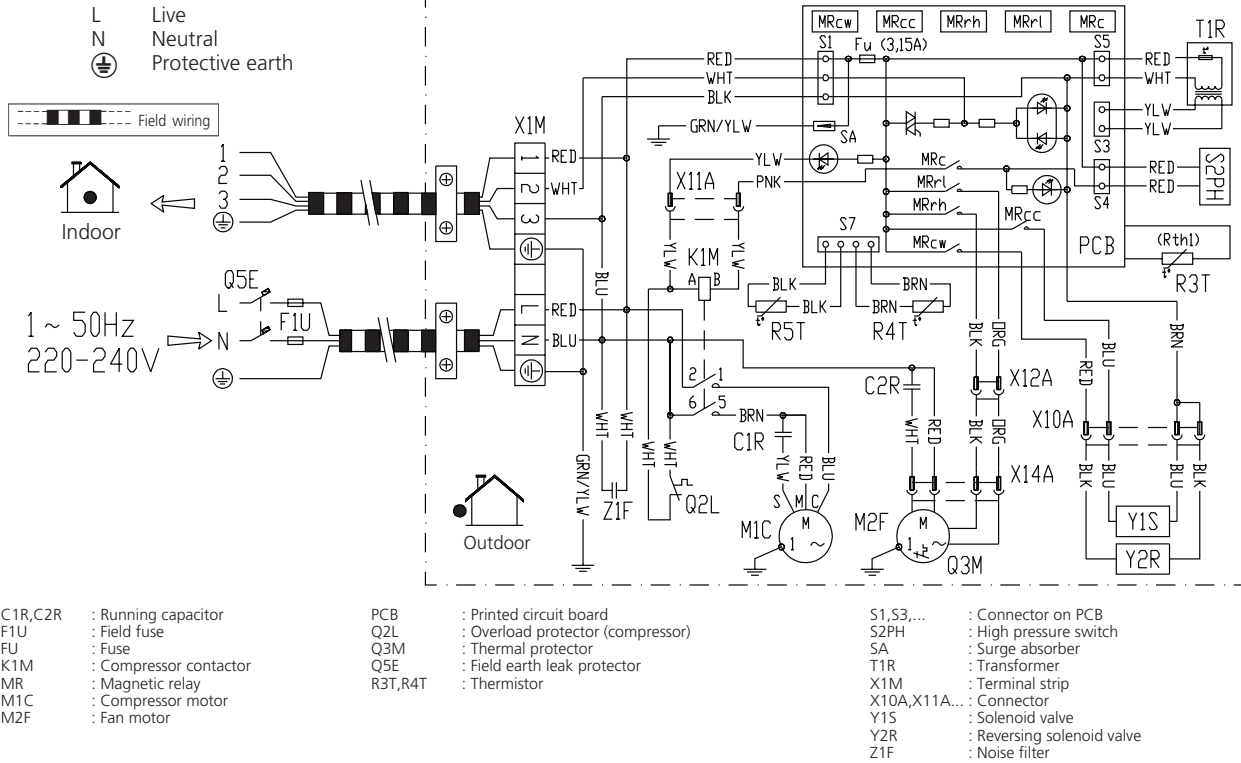


3TW01116-1A

7 Wiring diagrams

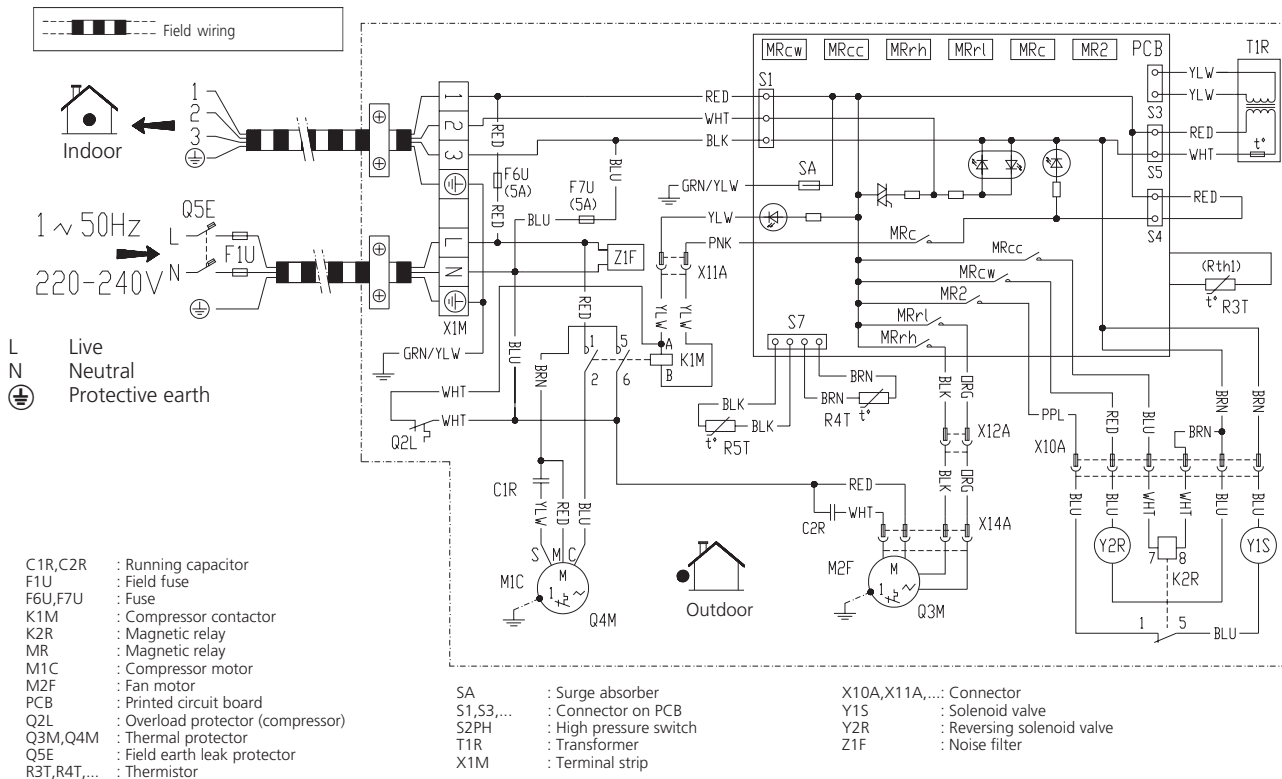


RY22DB7V1



24
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RY35DA7

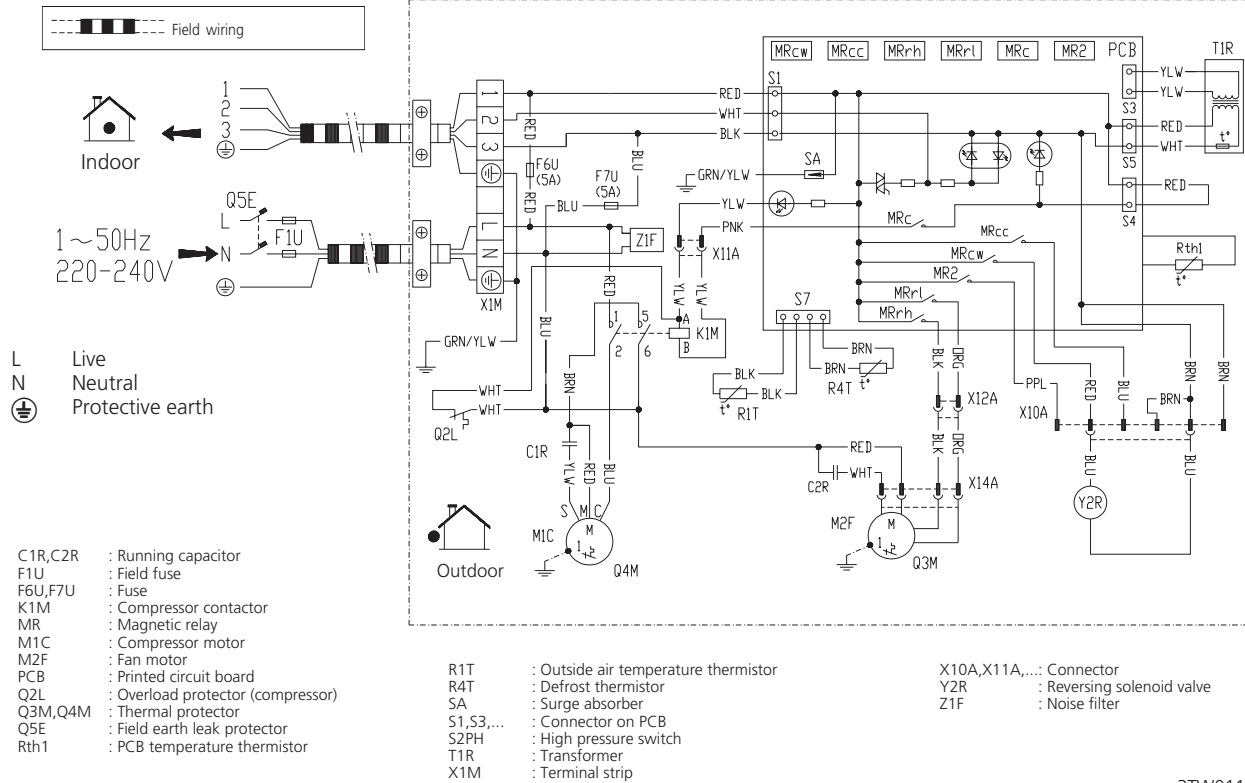


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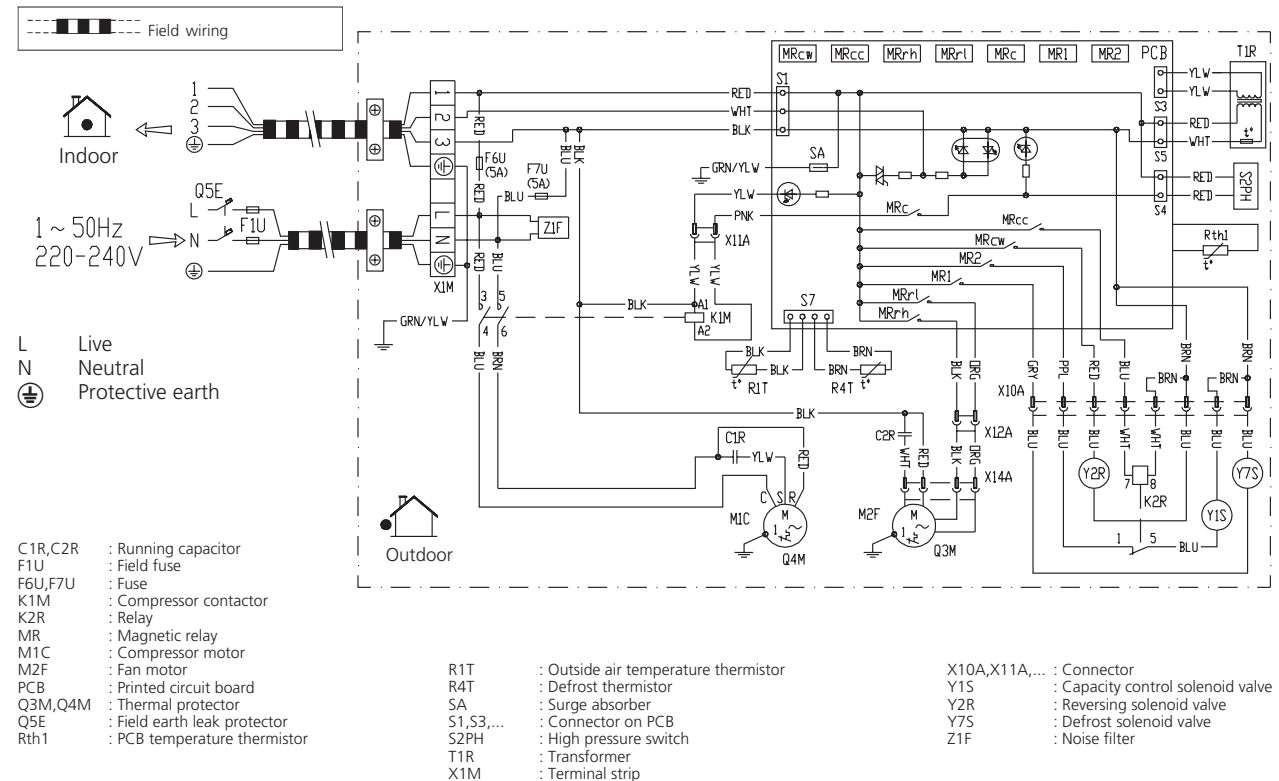
Wiring diagrams



RY45DB7V1

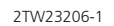


RY60FA7V1

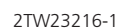


Page 10 of 10

Do not operate the unit by short-circuiting S1LP



Do not operate the unit by short-circuiting S1LP



7 Wiring diagrams



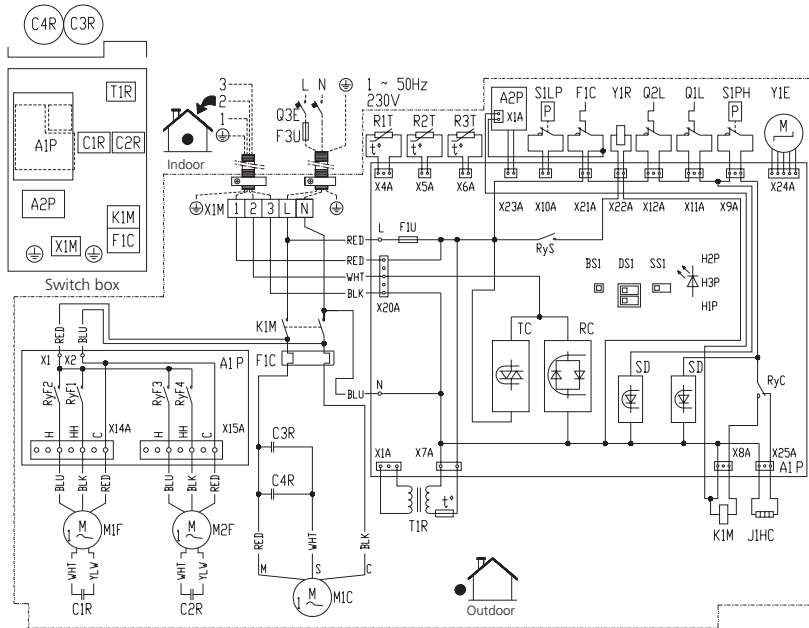
RY100B7V1

Note:

Do not operate the unit by short-circuiting S1LP

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

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



L-RED	N-BLU
-------	-------

A1P, A2P	Printed circuit board	F3U	Field fuse
BS1	Push button (forced defrost-pump down)	H1P	Light emitting diode (service monitor green)
C1R, C2R	Capacitor (M1F-M2F)	H2P, H3P	Light emitting diode (service monitor red)
C3R, C4R	Capacitor (M1C)	J1HC	Crankcase heater
DS1	Selector switch (defrost)	K1M	Magnetic contactor (M1C)
F1C	Overcurrent relay (M1C)	M1C	Motor (compressor)
F1U	Fuse (250V, 5A)	M1F, M2F	Motor (fan)
		Q1L, Q2L	Thermo switch (M1F, M2F)

Q3E	Earth leak detector	S1PH	Pressure switch (high)
R1T	Thermistor (air)	SD	Safety devices input
R2T	Thermistor (coil)	SS1	Selector switch (emergency)
R3T	Thermistor (discharge pipe)	T1R	Transformer (220-240V/16V)
RC	Signal receiver circuit	TC	Signal transmission circuit
RyC	Magnetic relay (K1M)	X1M	Terminal strip
RyF1-4	Magnetic relay (M1F, M2F)	Y1E	Expansion valve (electronic type)
RyS	Magnetic relay (Y1R)	Y1R	4-way valve
S1LP	Pressure switch (low)		

2TW23246-1

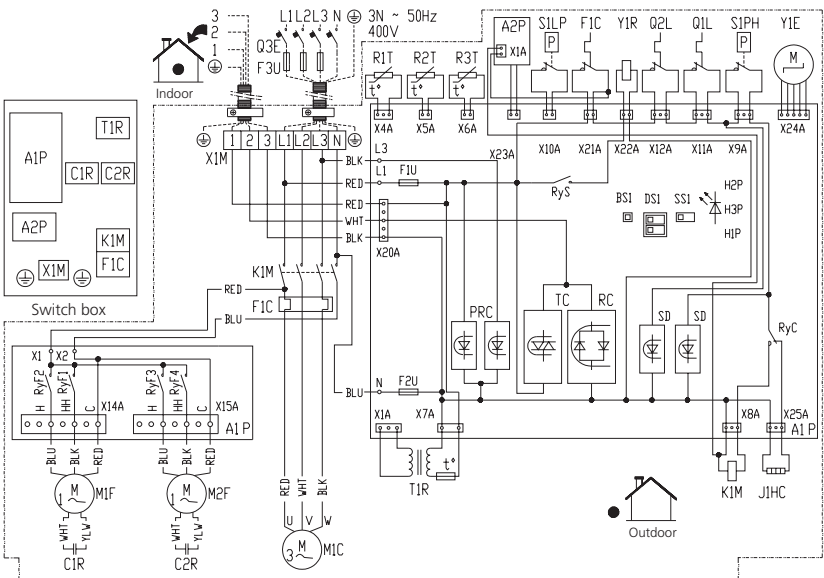
RY100-125B7W1

Note:

Do not operate the unit by short-circuiting S1LP

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

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



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

A1P, A2P	Printed circuit board	H2P, H3P	Light emitting diode (service monitor red)
BS1	Push button (forced defrost-pump down)	J1HC	Crankcase heater
C1R, C2R	Capacitor (M1F-M2F)	K1M	Magnetic contactor (M1C)
DS1	Selector switch (defrost)	M1C	Motor (compressor)
F1C	Overcurrent relay (M1C)	M1F, M2F	Motor (fan)
F1U, F2U	Fuse (250V, 5A)	PRC	Phase reverse circuit
F3U	Field fuse	Q1L, Q2L	Thermo switch (M1F, M2F)
H1P	Light emitting diode (service monitor green)	Q3E	Earth leak detector
		R1T	Thermistor (air)

R2T	Thermistor (coil)	SD	Safety devices input
R3T	Thermistor (discharge pipe)	SS1	Selector switch (emergency)
RC	Signal receiver circuit	T1R	Transformer (220-240V/16V)
RyC	Magnetic relay (K1M)	TC	Signal transmission circuit
RyF1-4	Magnetic relay (M1F, M2F)	X1M	Terminal strip
RyS	Magnetic relay (Y1R)	Y1E	Expansion valve (electronic type)
S1LP	Pressure switch (low)	Y1R	4-way valve
S1PH	Pressure switch (high)		

2TW23256-1

7 Wiring diagrams



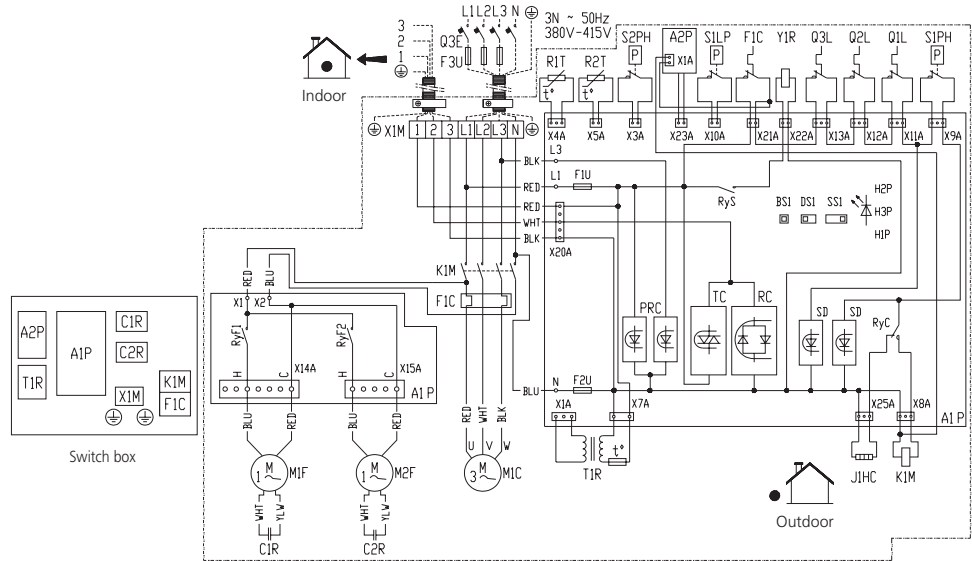
RY200-250F7W1

Note:

Do not operate the unit by short-circuiting S1LP

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

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



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

- A1P, A2P Printed circuit board
- BS1 Push button (pump down)
- C1R, C2R Capacitor (M1F-M2F)
- DS1 Selector switch (defrost)
- F1C Overcurrent relay (M1C)
- F1U, F2U Fuse (250V, 5A)
- F3U Field fuse
- H1P Light emitting diode (service monitor green)

- H2P, H3P Light emitting diode (service monitor red)
- J1HC Crankcase heater
- K1M Magnetic contactor (M1C)
- M1C Motor (compressor)
- M1F, M2F Motor (fan)
- PRC Phase reverse circuit
- Q1L, Q2L, Q3L Thermo switch (M1F, M2F)
- Q3E Earth leak detector

- R1T Thermistor (air)
- R2T Thermistor (coil)
- RC Signal receiver circuit
- RyC Magnetic relay (K1M)
- RyF1-2 Magnetic relay (M1F-M2F)
- RyS Magnetic relay (Y1R)
- S1LP Pressure switch (low)
- S1PH Pressure switch (high)

- S2PH Control pressure switch (high)
- SD Safety devices input
- SS1 Selector switch (emergency)
- T1R Transformer (220-240V/16V)
- TC Signal transmission circuit
- X1M Terminal strip
- Y1R 4-way valve

2TW21506-1A

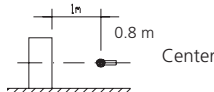
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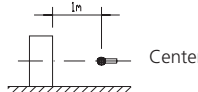
7



8 Sound level

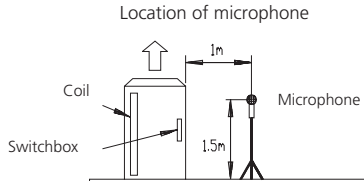
8-1 Sound level data

Model	Sound pressure level		Measuring location	Sound power (H) (cooling/heating)
	230V			
	50Hz			
	H (cooling)	H (heating)		
REY18GA7V1	44	45		57 / 58
REY40GA7V1	46	49		59 / 62

Model	Sound pressure level		Measuring location	Sound power (H) (cooling/heating)
	230V			
	50Hz			
	H (cooling)	H (heating)		
RY22DB7V1	44	45		57 / 58
RY35DA7V1	46	47		59 / 60
RY45DB7V1	47	48		60 / 61
RY60FA7V1	54	55		67 / 68

24
8

8-1

Model	Sound pressure level		Measuring location	Sound power (H) (cooling/heating)
	230V			
	50Hz			
	H (cooling)	H (heating)		
RY71B7V1	49	51		61 / -
RY71B7W1	49	51		61 / -
RY100B7V1	52	54		64 / -
RY100B7W1	52	54		64 / -
RY125B7W1	52	54		64 / -
RY200F7W1	57	57		77 / 78
RY250F7W1	57	57		77 / 78

8

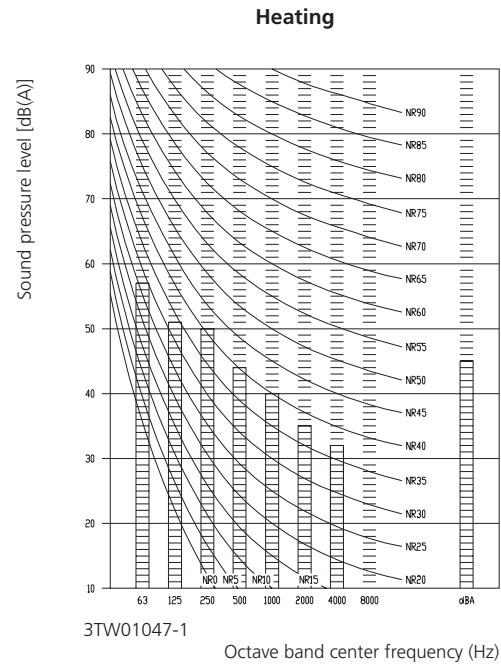
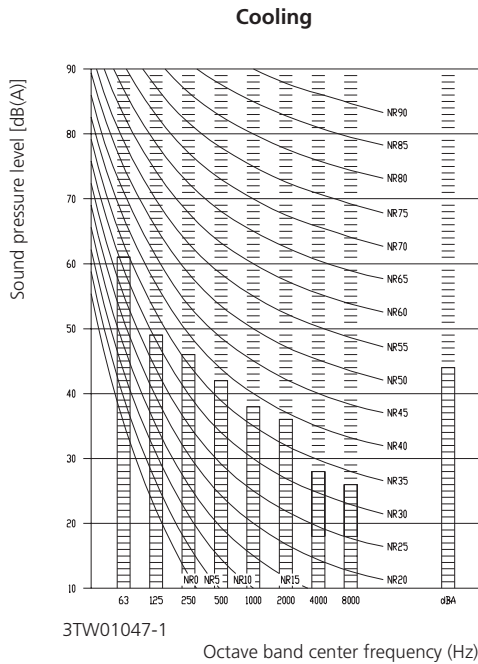
Sound level

8-2

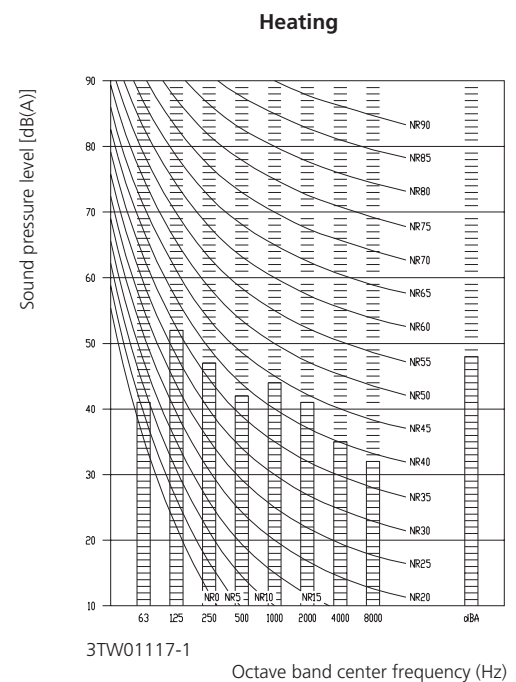
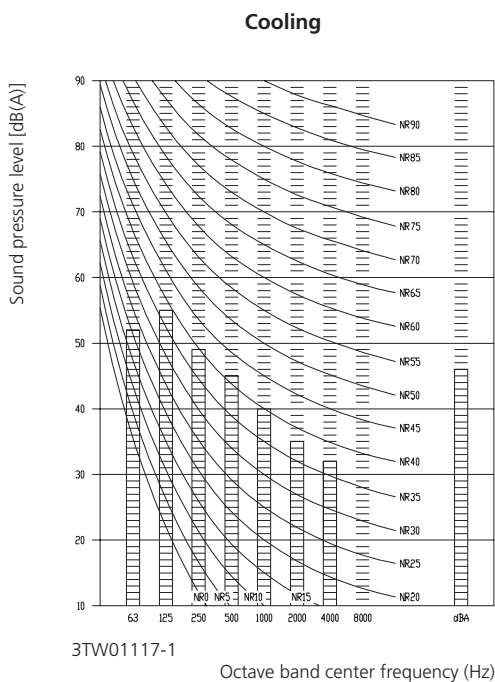
Sound pressure spectrum



REY18GA7V1



REY40GA7V1



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

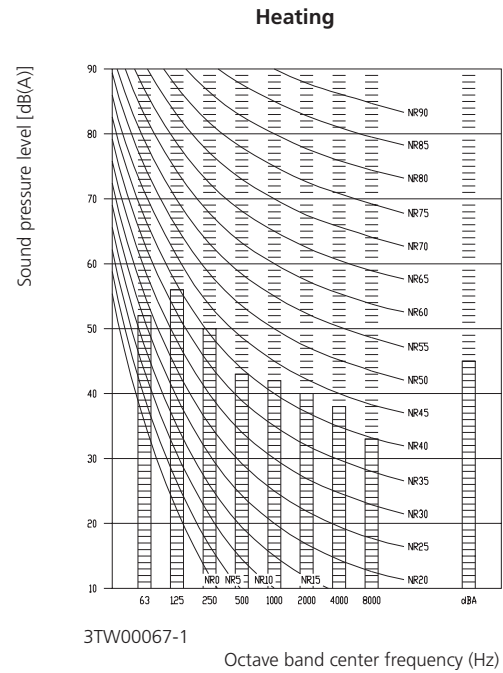
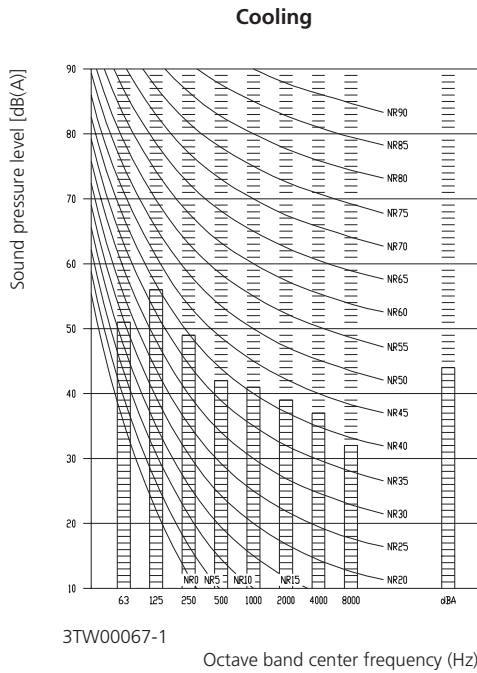
Sound level

8-2

Sound pressure spectrum



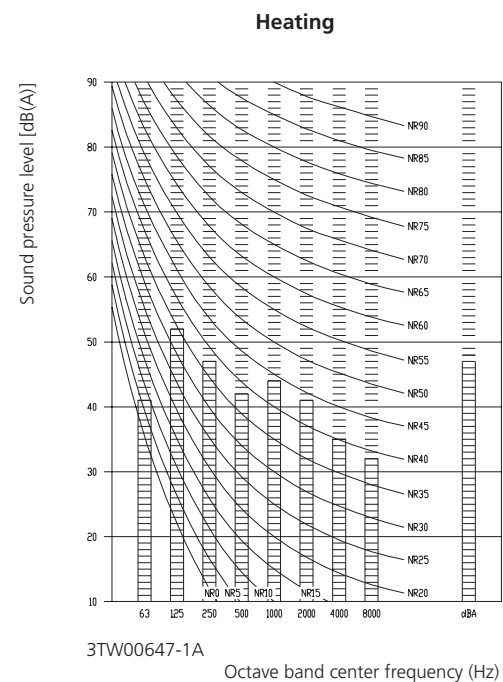
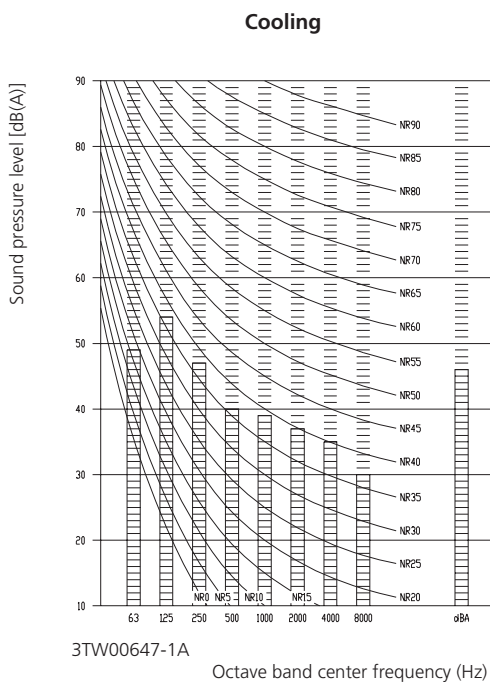
RY22DB7V1



Octave band center frequency (Hz)

Octave band center frequency (Hz)

RY35DA7V1



Octave band center frequency (Hz)

Octave band center frequency (Hz)

Notes

- Operation sound levels are valid at nominal operation condition 230V
- 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

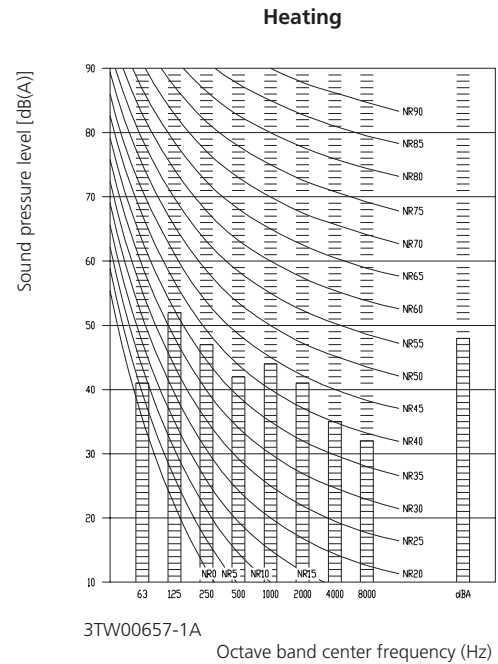
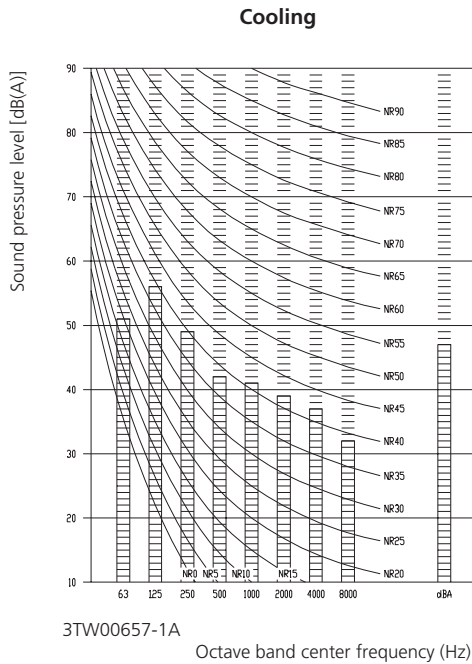
Sound level

8-2

Sound pressure spectrum



RY45DB7V1

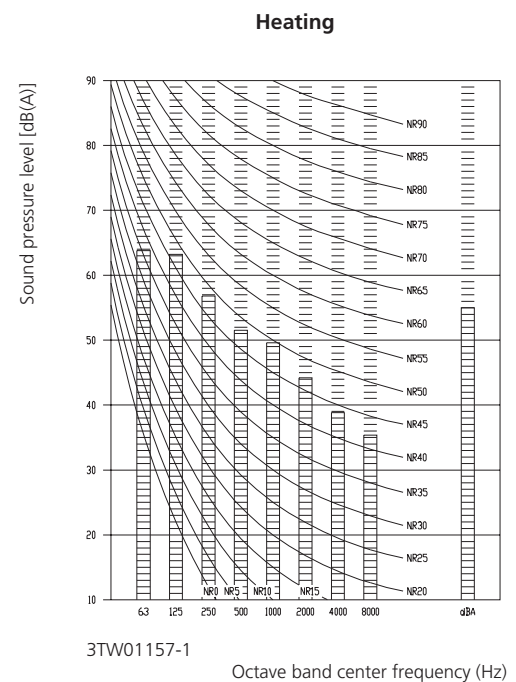
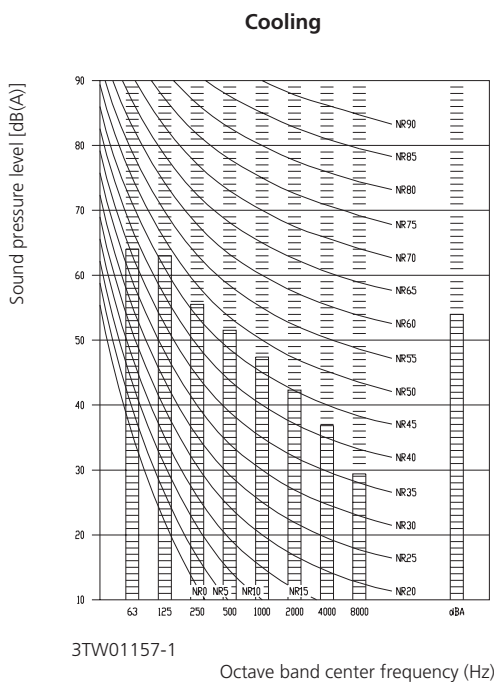


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8-2

RY60FA7V1



Notes

- Data is valid at free field condition 230V/50Hz
- 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

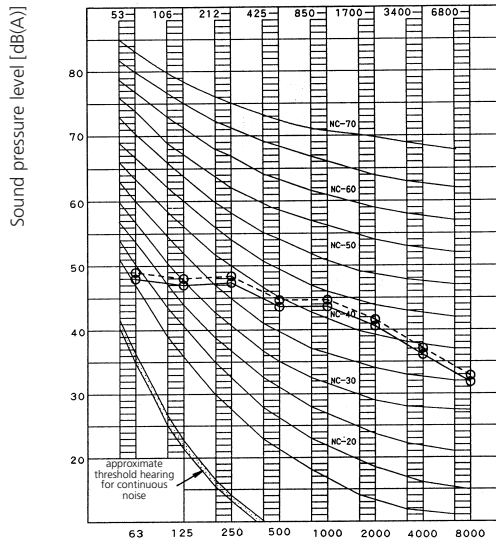
8-2

Sound pressure spectrum



RY71DB7V1

Cooling

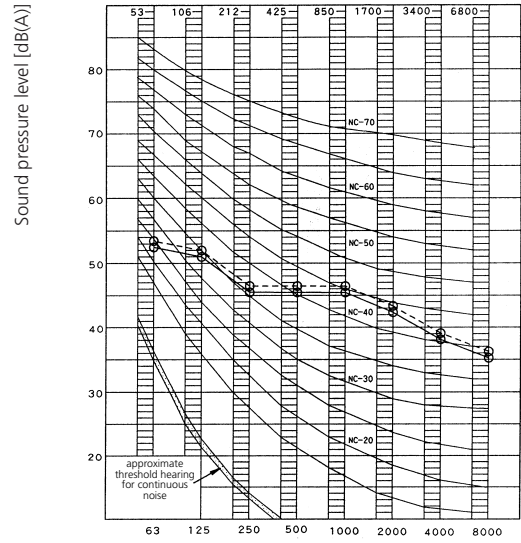


DU427-4261

Octave band center frequency (Hz)

RY71B7W1

Heating

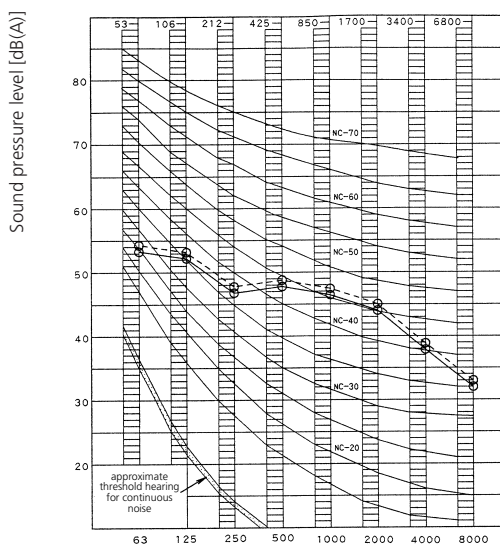


DU427-4262

Octave band center frequency (Hz)

RY100B7V1

Cooling

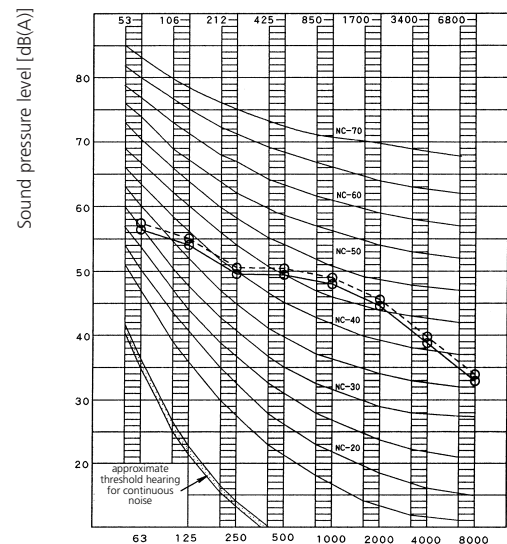


DU428-4211

Octave band center frequency (Hz)

RY100B7W1

Heating



DU428-4210

Octave band center frequency (Hz)

Notes

- Data is valid at free field condition 230V/50Hz
- 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

- 50Hz, 220V
- - ○ 50Hz, 240V

8

Sound level

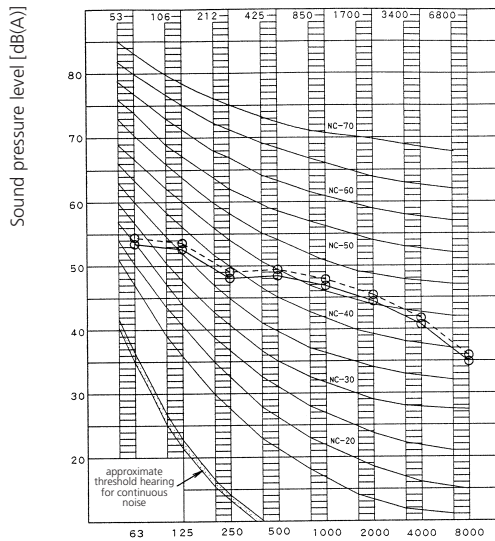
8-2

Sound pressure spectrum



RY125B7V1

Cooling

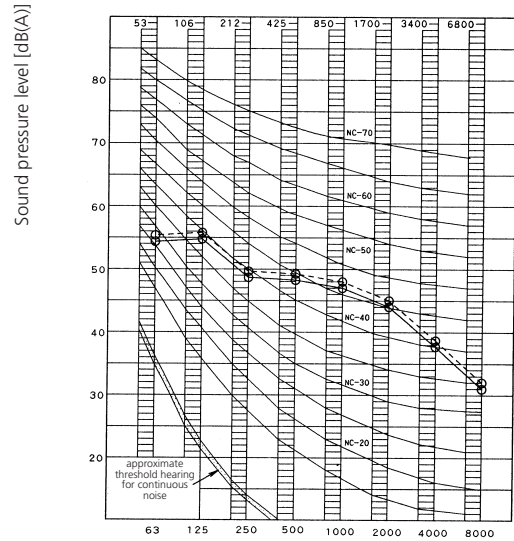


DU429-4178

Octave band center frequency (Hz)

RY125B7W1

Heating



DU429-4177

Octave band center frequency (Hz)

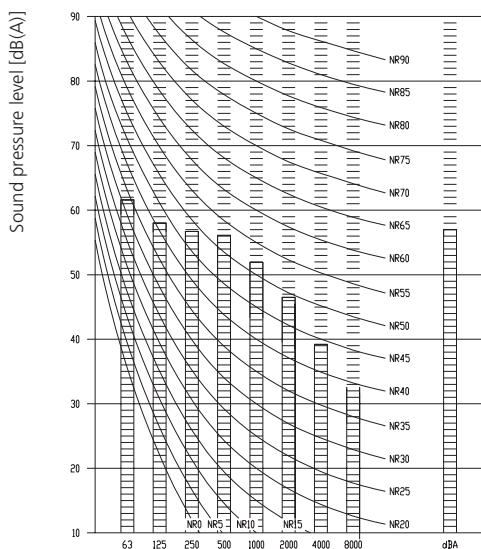
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8-2

RY200F7

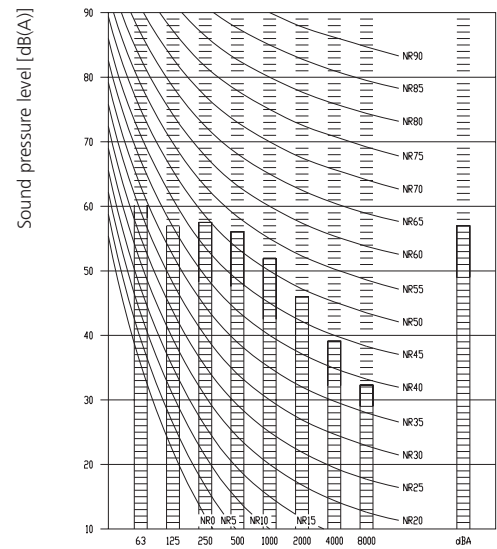
Cooling



3TW21507-1A

Octave band center frequency (Hz)

Heating



3TW21507-1A

Octave band center frequency (Hz)

Notes

- Data is valid at free field condition 230V/50Hz
- dBA = A-weighted sound pressure level (A-scale according to IEC)
- Reference acoustic pressure 0dB = 20μPa

- 50Hz, 220V
- - ○ 50Hz, 240V

8

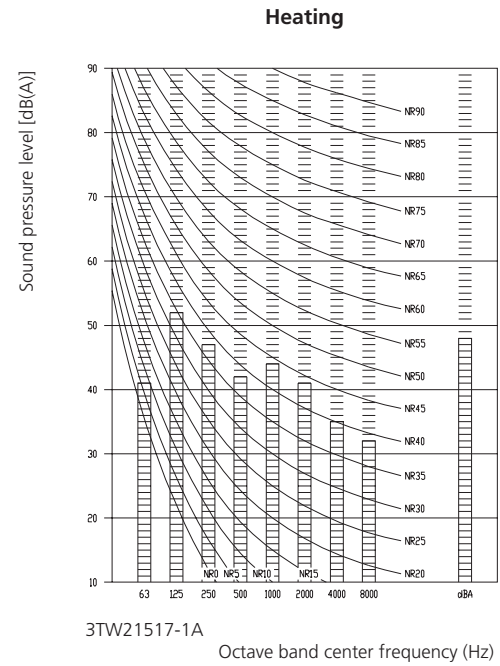
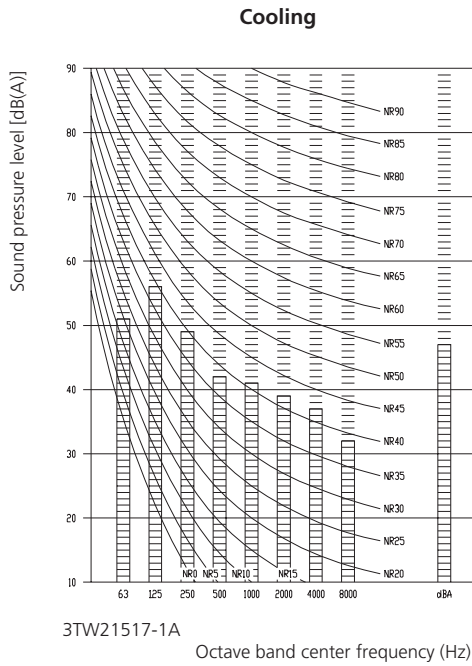
Sound level

8-2

Sound pressure spectrum



RY250F7



Notes

- Data is valid at free field condition 230V/50Hz
- dBA = A-weighted sound pressure level (A-scale according to IEC)
- Reference acoustic pressure 0dB = 20μPa



9 Accessories

9-1 Optional accessories

REY18-40GA7
RY22-45DB7 / RY35DA7
RY60FA7

Model	Option kit	EKDK01	EKDK02	EKDK03
REY18GA7V1		○		○
REY40GA7V1			○	○
RY22DB7V1		○		○
RY35DA7V1			○	○
RY45DB7V1			○	○
RY60FA7V1			○	○

4TW00029-1

EKDK01: Drain kit (20 x socket / 10 x conn)
 EKDK02: Drain kit (10 x joint)
 EKDK03: Drain kit (20 x cap)

Available options for RY71-125B7(V1,W1)

Name of option		Kit name		
		RY71B	RY100B	RY125B
Central drain plug		KKPJ5F180		
Refrigerant branch piping	Twin	KHRP79BA7		
	Triple	-	KHRP96H7	

3TW23189-1

Available options for RY200-250F7W1

Option	Name of option	RY200F	RY250F
Fan motor size up	NFM22C5	X	
Fan motor size up	NFM22C10		X
Kit for discharge duct	EKND26A10	X	X
Refnet	KHRP79BA7	Refer to the table with possible indoor combinations*	
Refnet	KHRP102BA7		
Refnet	KHRP127HA7		

3TW21489-2A

table with possible combinations: see chapter RY (twin / triple / double twin application).

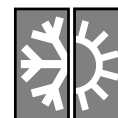
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9

9-1

9 Accessories

9-1 Optional accessories



	Liquid side joint	--	Suction gas side joint	Others
Sky Air				Insulator Installation manual
				Insulator Installation manual

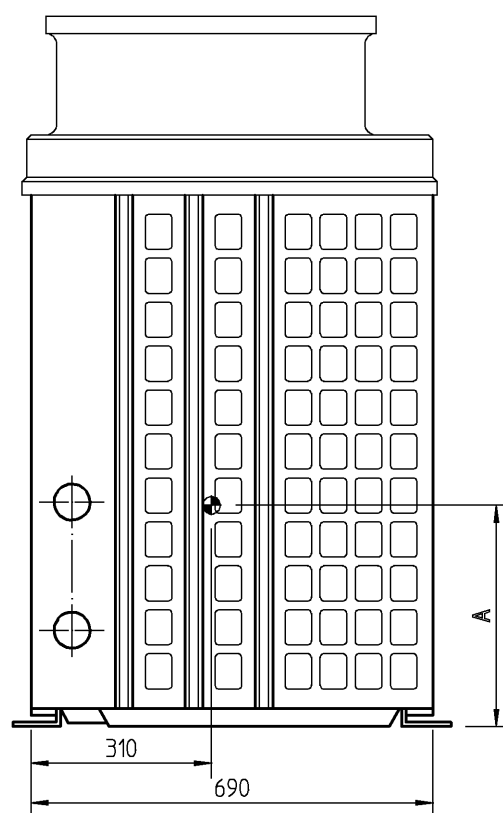
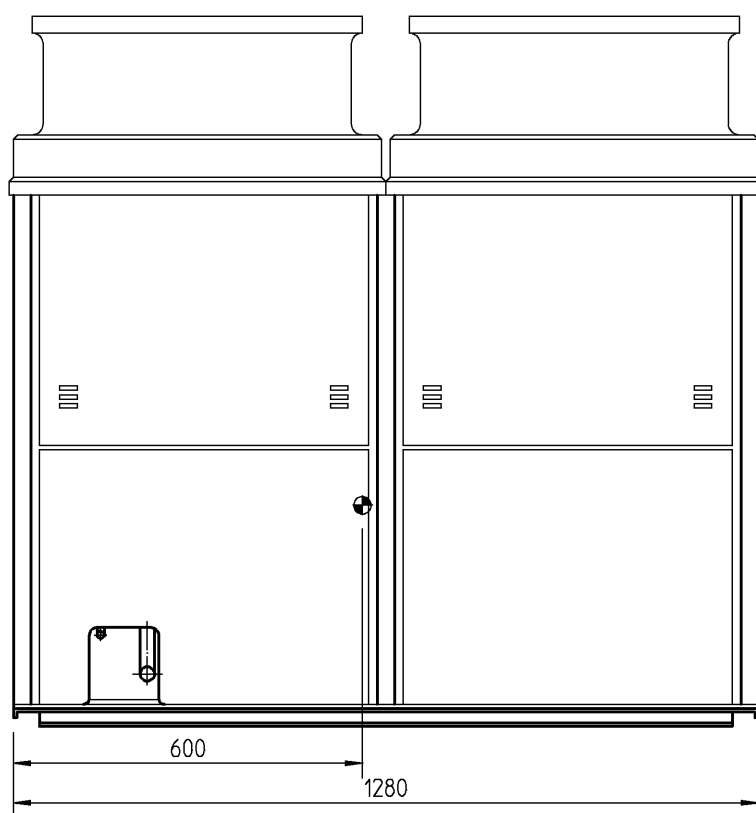
	Liquid side joint	--	Suction gas side header	Others
Sky Air				Insulator Installation manual
				Insulator Installation manual

1TW21559-11A



10 Centre of gravity

RY200-250F7



24
10

Model	A
RY200F7W1	380
RY250F7W1	510

4TW23619-1



11 Safety device settings

REY18GA7V1 REY40GA7V1

Safety device	Model	REY18GA7V1	REY40GA7V1
Fan motor thermal protector		Off 135 ±5°C On 115 ±5°C	Off 135 ±5°C On 115 ±5°C
Compressor internal protector		–	Off 175 ±5°C On 100 ±10°C
Overload relay		Off 150 ±7°C On 69 ±10°C	Off 130 ±3°C On 95 ±10°C
Overcurrent relay		*Off 4.8A ±22%	–

4TW01011-2B / 4TW01101-2A

Note: * shows U/T data (based on air temp. 100°C)

RY22-35-45-60

Safety device	Model	RY22DB7	RY35DA7	RY45DB7	RY60FA7V1
Fan motor thermal protector		Off 135 ±5°C On 90 ±25°C	Off 135 ±5°C On 86 ±25°C	Off 135 ±5°C On 86 ±15°C	Off 135 ±5°C On 86 ±15°C
Compressor internal protector		Off 185 ±5°C On 100 ±10°C	Off 185 ±5°C On 100 ±5°C	Off 175 ±5°C On 100 ±5°C	Off 170 ±5°C On 110 ±9°C
Overload relay		Off 150 ±7°C On 85 ±10°C	Off 130 ±3°C On 95 ±10°C	Off 130 ±3°C On 95 ±10°C	–
Overcurrent relay		Off 19 ±2°C On 23 ±2°C	–	–	–

4TW00621-3B

Note: *shows data at 25°C

12 Installation



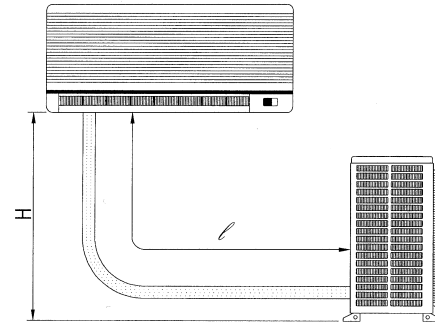
REY18-40

Refrigerant piping

1. Field piping
All field piping must be provided by a licensed refrigeration technician and must comply with the relevant local and national codes.
2. Pipe connections
Pipe connections must be made from the right side of the unit.

First installation

- If pipe length (ℓ) between indoor and outdoor unit exceeds 8 metres, additional refrigerant R22 (30g/m) must be charged after vacuum drying of the installation.
- Pipe length (ℓ) between indoor and outdoor unit is limited up to 15 meters.
- Maximum allowable level difference (H_{max}) between indoor and outdoor unit is limited up to 10 meters.

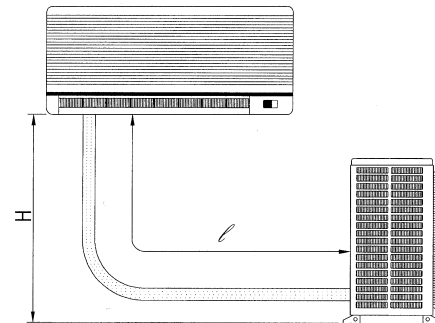


RY22-35-45-60

1. Field piping
All field piping must be provided by a licensed refrigeration technician and must comply with the relevant local and national codes.
2. Pipe connections
Pipe connections must be made from the right side of the unit.

First installation

- If pipe length (ℓ) between indoor and outdoor unit exceeds 10 meters, additional refrigerant R22 (30g/m) must be charged after vacuum drying of the installation.
- Maximum allowable level difference (H_{max}) between indoor and outdoor unit is limited up to 15 meters, (10 meters for RY22).
- Maximum allowable piping length (L) is limited as shown in figure.



RY60

- If pipe length (ℓ) between indoor and outdoor unit exceeds 10 meters, additional refrigerant R22 (30g/m) must be charged after vacuum drying of the installation.
- Maximum allowable level difference (H_{max}) between indoor and outdoor unit is limited up to 15 meters.
- Maximum allowable piping length (L) is limited as shown in figure.

L	RY22DB7	RY35DA7	RY45DB7	RY60FA7
	15m	20m	25m	25m

12 Installation



The numerical figures used here represent the dimensions for the models RY71. The figures inside () indicate the dimensions for the models RY100 and RY125. (Unit: mm)

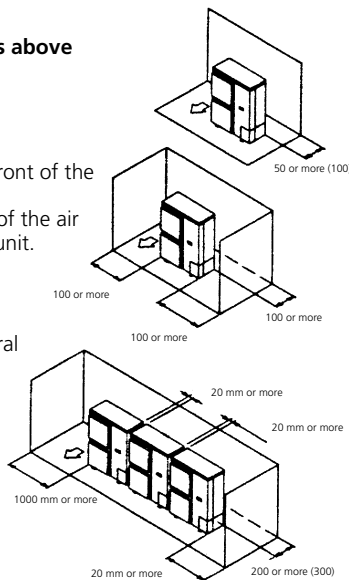
The figures inside < > indicate the dimension of discharge grille when it is installed facing downward

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

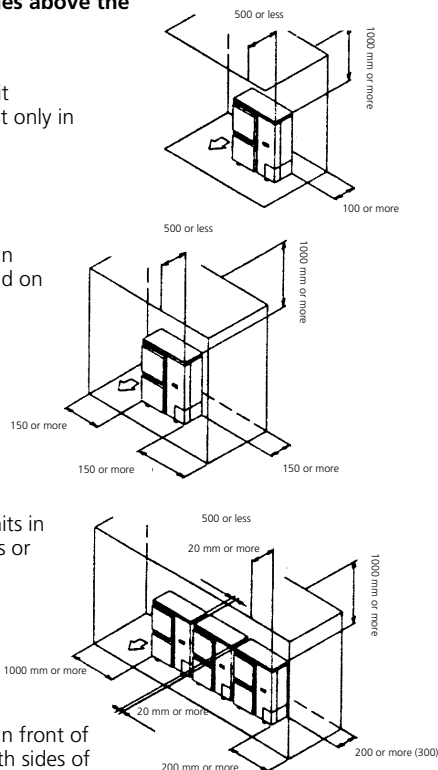
- Where there are no obstacles above the unit

- 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.
- Installation of multiple units in lateral connection.



- Where there are obstacles above the unit.

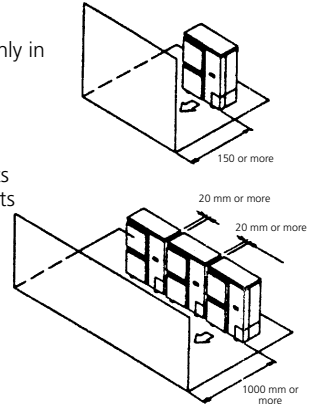
- Installation of single unit
 - In case obstacles exist only in front of outlet side.
 - In case obstacles exist in front of the air inlet and on both sides of the unit.
- Installation of multiple units in lateral connection (2 units or more).



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

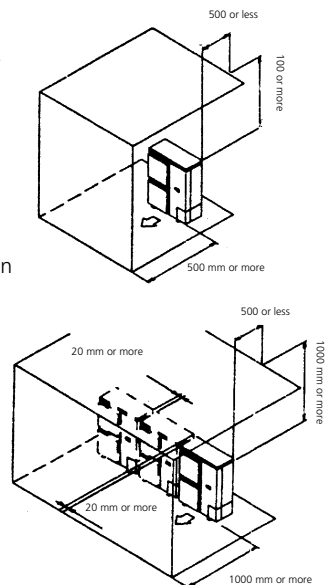
- Where there are no obstacles above the unit.

- Installation of single unit
 - In case obstacles exist only in front of outlet side.
- Installation of multiple units in lateral connection (2 units or more).



- Where there are obstacles above the unit.

- Installation of single unit
 - In case obstacles exist only in front of outlet side.
- Installation of multiple units in lateral connection (2 units or more).



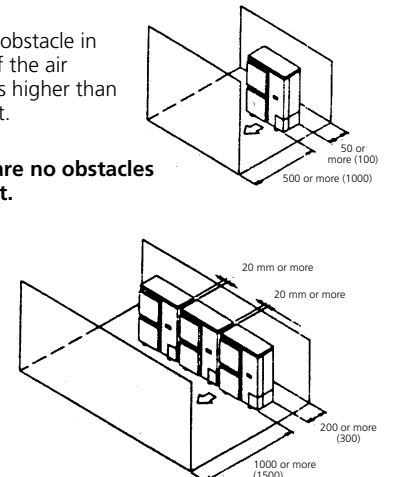
(C) In case obstacles exist in front of both the air inlet and outlet sides.

Pattern 1

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

- Where there are no obstacles above the unit.

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



12 Installation

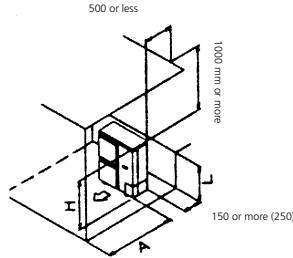


• Where there are obstacles above the unit.

1 Installation of single unit.

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

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

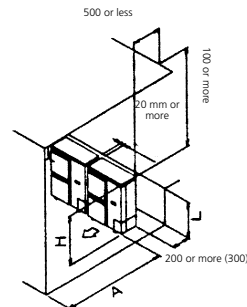


Get the lower part of the frame sealed so that air from the outlet does not bypass

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

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

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



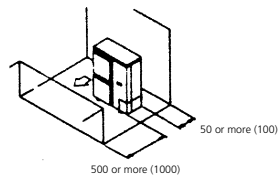
Get the lower part of the frame sealed so that air from the outlet does not bypass
Do not install more than 2 units

Pattern 2

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

• Where there are no obstacles above the unit.

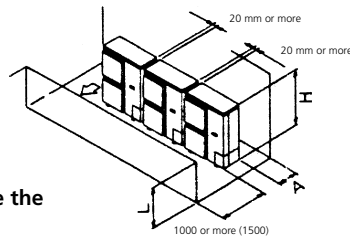
1 Installation of single unit.



1 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
$L \leq H$	$0 < L \leq 1/2 H$	150 (250)
	$1/2 H < L$	200 (300)

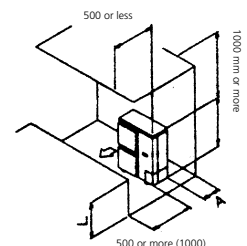


• Where there are obstacles above the unit.

1 Installation of single unit.

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

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

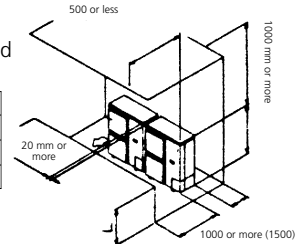


Get the lower part of the frame sealed so that air from the outlet does not bypass

3 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
$L \leq H$	$0 < L \leq 1/2 H$	150 (250)
	$1/2 H < L$	200 (300)
$H < L$	Set the frame to be $L \leq H$	



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

Do not install more than 2 units

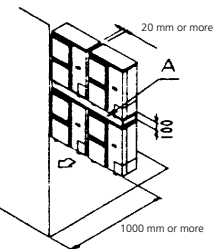
(D) In case of stacked installation

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.

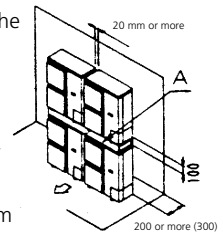


2 In case obstacles exist in front of the air inlet.

Do not stack more than one unit.

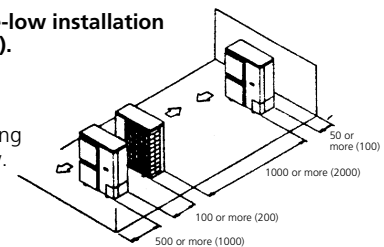
About 100mm is required as the dimension for laying the upper outdoor unit's drain pipe.

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

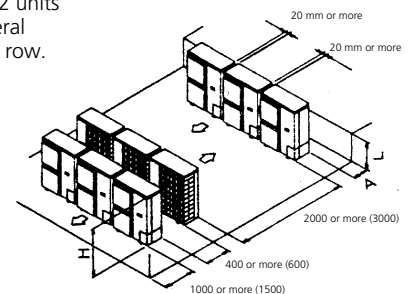


(E) In case of multiple-low installation (for roof top use, etc.).

1 In case of installing one unit per row.



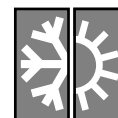
2 In case of installing multiple units (2 units or more) in lateral connection per row.



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

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

12 Installation



RY200-250F7W1

Refrigerant pipe size

Pair system

	Refrigerant pipe size	
	Gas	Liquid
RY200	φ 28.6	φ 12.7
RY250	φ 28.6	φ 15.9

Additional charge

The heatpump unit, requires additional charging of refrigerant according to the length of pipe connected at the site.

Pair system

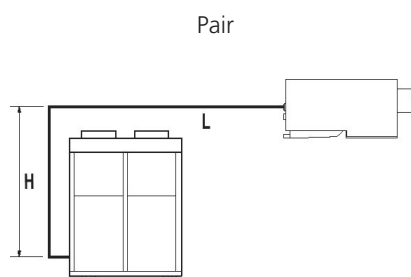
RY200	$G = (L - 7.5) * 0.03$
RY250	$G = (L - 7.5) * 0.05$

One way length of main liquid pipe φ 9.5 (unit of measurement = m)

Allowable pipe length

		Pair
Max. allowable piping length	L	50m
Max height difference	H	30m

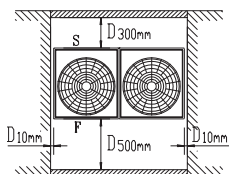
24
12



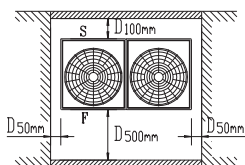
3TW21489-3A

Single installation

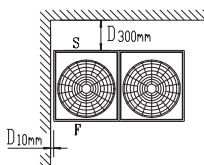
Case 1



Case 2

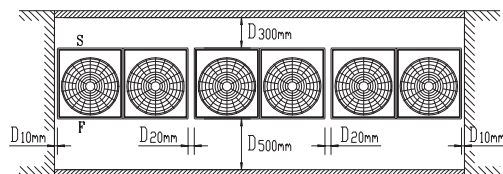


Case 3

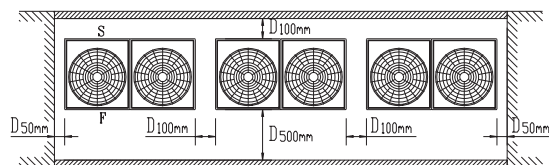


Installation in a row

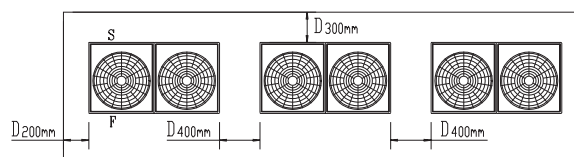
Case 1



Case 2

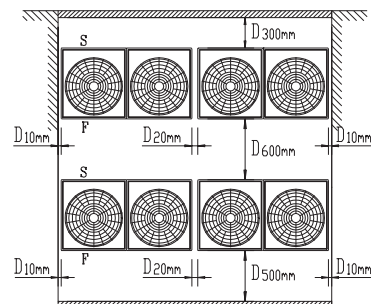


Case 3

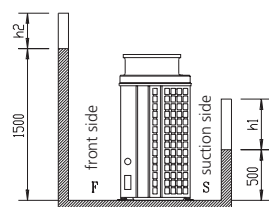
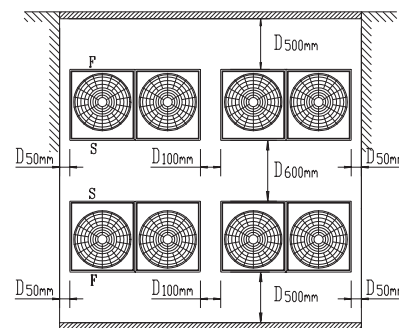
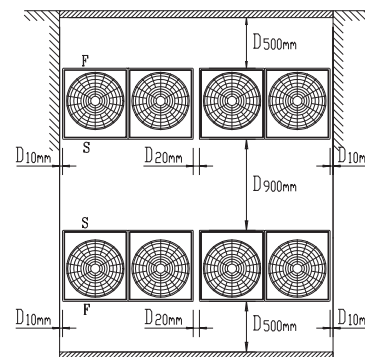
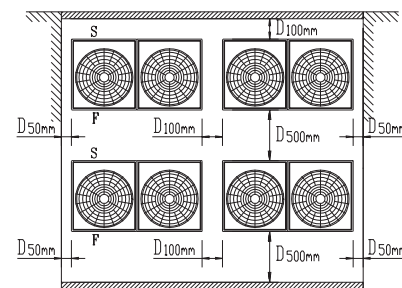


Concentrated installation

Case 1



Case 2



- 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
- 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)
- 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)
- Please install considering piping installation at the front side.

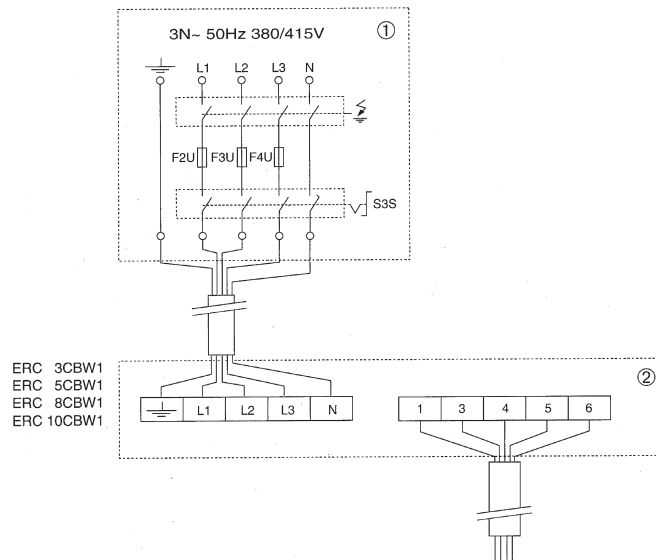
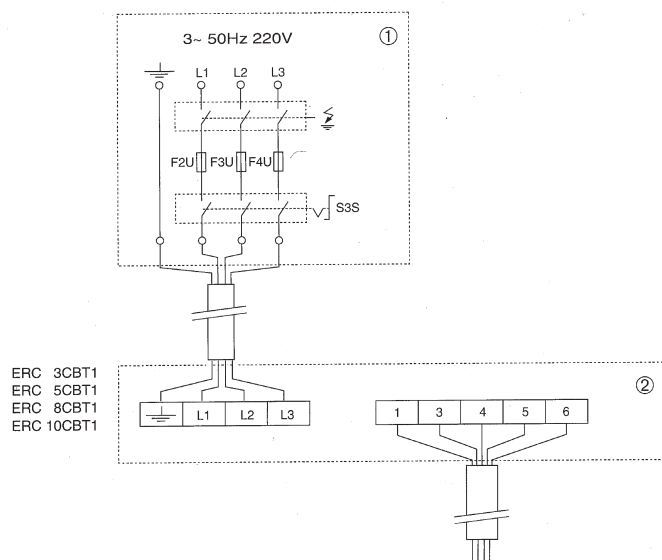
3TW23619-4





11 Installation

11-2 Electrical connections



23

11

11-2

Parts table

L	: Earth connection
L1, L2, L3	: Live line
N	: Neutral
1	: Power supply panel
2	: Switch box condensing unit
F2,3,4U	: Field fuses
S3S	: Main isolator switch
Ⓢ	: Earth leak detector

Power circuit and cable requirements

A power circuit (see table below) must be provided for connection of the air conditioning unit. This circuit must be protected with the required safety devices, i.e. a circuit breaker, a slow blow fuse on each phase and an earth leak detector.

	Phase and frequency	Voltage	Recom. fuses
EFC 3CB T1	3-50Hz	220V	16aM
ERC 3CB W1	3N-50Hz	380-415V	16aM
EFC 5CB T1	3-50Hz	220V	25aM
ERC 5CB W1	3N-50Hz	380-415V	20aM
EFC 8CB T1	3-50Hz	220V	40aM
ERC 8CB W1	3N-50Hz	380-415V	25aM
EFC 10CB T1	3-50Hz	220V	50aM
ERC 10CB W1	3N-50Hz	380-415V	32aM

Note If the power cable is placed outside, use a cable of the RN-F type: e.g. H05 RN-F'G' or H07 RN-F'G'.

Connection of the condensing unit power supply

1. Using the appropriate cable (see above table), connect the power circuit to the (N), L2 and L3 terminals of the condensing unit as shown on the wiring diagrams.
2. Connect the earth conductor (yellow/green) to the earthing terminal.

Interconnection cables

In addition to the power supply cable, a cable must be provided for the interconnection between the unit and the switch box of the air conditioning unit.

The cable must be of the type H05 VV-U 5x1.5 and must be connected to terminals 1, 3, 4, 5 and 6 of the condensing unit as shown on the wiring diagrams.

Refer to the manual supplied with the air conditioning unit for the connections at the switch box side.

CENELEC system for cable designation

H	Harmonised cable type
05	300/500 volts
V	PVC wire insulation
R	Vulcanised natural rubber wire insulation
V	PVC conductor insulation
N	Neoprene conductor insulation
U	Solid core
F	Flexible core conductor
4	Number of conductors
G	One conductor is the earth conductor (yellow/green)
X	No earth conductor (yellow/green)
1.5	Cross-section of conductors (mm)