



technical data



**RYEP-L7**

**Pair Application**

air conditioning systems

Split  
Sky Air

# Split - Sky Air



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



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



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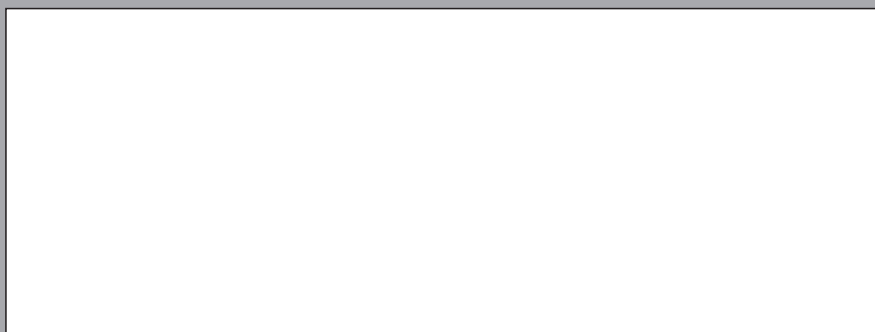


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Specifications are subject to change without prior notice.

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# 1 Features

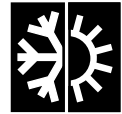


## 1 Outdoor units for pair application

- 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 a scroll compressor, renowned for low noise and high energy efficiency.
- The piping connections can be accessed from underneath, front, side or rear.
- The service valves are hidden inside the casing.



## 2 Specifications

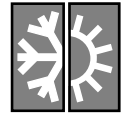


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TECHNICAL SPECIFICATIONS						
OUTDOOR UNITS			RYEP71L7V1/W1	RYEP100L7V1/W1	RYEP125L7W1	
DIMENSIONS	Unit	H	mm	770	1,170	
		W	mm	900	900	
		D	mm	320	320	
WEIGHT			kg	79	102/100	106
MATERIAL	Unit	Painted galvanised steel plate				
COLOUR	Unit	Ivory white				
SOUND LEVEL	Sound pressure (1) (cooling/heating)	high	dBa	53/55	57/59	
	Sound power (2) (cooling)	high	dBa	64	70	
FAN	Air flow rate (cooling/heating)	high	m <sup>3</sup> /min	48/43	55/50	89/80
	Speed	steps		3 steps		
		high	rpm	670	760	670/715
	Qty x model				1xP47L11S	2xP47L11S
Qty x motor output		W	1 x 65	1 x 90	85 + 65	
HEAT EXCHANGER	Type	Hi-XSS cooling tube, non sym. waffle fin				
	Rows x stages x fin pitch		mm	2 x 34 x 2.0	2 x 52 x 2.0	
	Face area		m <sup>2</sup>	0.634	0.983	
REFRIGERANT CIRCUIT	Refrigerant type	R-407C				
	Refrigerant charge		kg	2.2	3.5	
	Minimum/maximum allowable distance between indoor and outdoor		m	5/50		
	Maximum allowable level difference		m	30		
	Additional refrigerant charge		g/m	Please refer to item 12 'Installation' of this chapter		
COMPRESSOR	Refrigerant control	Expansion valve (electronic type)				
	Type	Hermetically sealed scroll type				
	Qty x model				1xZR34K3E-PFJ	1xT160FA-YE
	Motor output x no		W	2,110 x 1	2,920 x 1	3,750 x 1
	Oil type				3MAWPOE	DAPHNE FVC68D
Oil charge volume		ℓ	1,242		1,500	
PIPING CONNECTIONS		liquid	mm	φ9.5		
		gas	mm	φ15.9		φ19.1
		drain	mm	φ26 x 3		
INSULATION MATERIAL	Heat insulation	Both liquid and gas pipes				
	Safety devices				High and low pressure switch, thermal protection for indoor and outdoor fan motor, overcurrent relay (compressor), fuse	High and low pressure switch, thermal protector for indoor and outdoor fan motor, overcurrent relay (compressor), reverse phase protector, fuse

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3TW25251-1  
3TW25271-1  
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## 2 Specifications



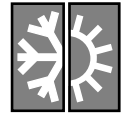
### 2

ELECTRICAL SPECIFICATIONS						
OUTDOOR UNITS						
				RYEP71L7V1/W1	RYEP100L7V1/W1	RYEP125L7W1
CURRENT	Nominal running current	cooling/heating	A	Please refer to electrical data		
	Max. running current	cooling/heating	A	Please refer to electrical data		
	Starting current	cooling/heating	A	Please refer to electrical data		
POWER SUPPLY				V1/W1	V1/W1	W1
NOMINAL DISTRIBUTION SYSTEM VOLTAGE	Phase			1~, 3N~	1~, 3N~	3N~
	Frequency		Hz	50	50	50
	Voltage		V	230 / 400	230 / 400	400

#### NOTES

- 1 The sound pressure level is measured in an anechoic room at 1m distance from the unit. It is a relative value, depending on the distance and acoustic environment. For measuring conditions: please refer to item 8 of this chapter.
- 2 The sound power level is an absolute value indicating the "power" which a sound source generates.

# 2 Specifications



## ELECTRICAL DATA

2

### RYEP71L7

Unit combination		Power supply		Compressor		OFM		IFM				
Indoor unit	Outdoor unit	Hz-Volts	Voltage range	MCA	TOCA	MFA	LRA	RLA	kW	FLA	kW	FLA
FHYCP71	RYEP71L7V1	50-230	Max. 50Hz-264V Min. 50Hz-198V	16.0	23.2	32	73	11.8	0.065	0.6	0.045	0.6
FUYP71	RYEP71L7V1	50-230		15.5	23.2	32	73	11.4	0.065	0.6	0.045	0.6
FHYP71	RYEP71L7V1	50-230		16.5	23.2	32	73	12.2	0.065	0.6	0.062	0.6
FHYKP71	RYEP71L7V1	50-230		15.1	23.1	32	73	11.2	0.065	0.6	0.045	0.5
FAYP71	RYEP71L7V1	50/230		15.2	22.9	32	73	11.4	0.065	0.6	0.046	0.3
FHYBP71	RYEP71L7V1	50-230		15.5	23.5	32	73	11.2	0.065	0.6	0.125	0.9
FDYMP71	RYEP71L7V1	50-230		15.6	23.5	32	73	11.3	0.065	0.6	0.125	0.9
FHYCP71	RYEP71L7W1	50-400/230	Max. 50Hz-440/253V Min. 50Hz-360/197V	7.0	11.2	16	38	4.6	0.065	0.6	0.045	0.6
FUYP71	RYEP71L7W1	50-400/230		6.7	11.2	16	38	4.4	0.065	0.6	0.045	0.6
FHYP71	RYEP71L7W1	50-400/230		7.1	11.2	16	38	4.7	0.065	0.6	0.062	0.6
FHYKP71	RYEP71L7W1	50-400/230		6.6	11.1	16	38	4.4	0.065	0.6	0.045	0.5
FAYP71	RYEP71L7W1	50-400/230		6.4	10.9	16	38	4.4	0.065	0.6	0.046	0.3
FHYBP71	RYEP71L7W1	50-400/230		7.0	11.5	16	38	4.4	0.065	0.6	0.125	0.9
FDYMP71	RYEP71L7W1	50-400/230		7.0	11.5	16	38	4.4	0.065	0.6	0.125	0.9

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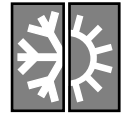
### SYMBOLS

- MCA : Min. Circuit Amps
- TOCA : Total Over Current Amps
- MFA : Max. Fuse Amps (see note 7)
- LRA : Locked Rotor Amps
- RLA : Rated Load Amps
- 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  
 $MCA = 1.25 \times RLA + \text{all FLA}$ ,  $MFA = < 2.25 \times RLA + \text{all FLA}$   
(next lower standard fuse rating Min. 16A)
6. Select wire size based on the larger value of MCA or TOCA
7. Instead of fuse, use circuit breaker

## 2 Specifications



### 2

#### ELECTRICAL DATA

##### RYEP100L7

Unit combination		Power supply					Compressor		OFM		IFM		
Indoor unit	Outdoor unit	Hz-Volts	Voltage range		MCA	TOCA	MFA	LRA	RLA	kW	FLA	kW	FLA
FHYCP100	RYEP100L7V1	50-230	Max. 50Hz-264V Min. 50Hz-198V		22.1	34.8	40	108	16.2	0.090	0.8	0.090	1.0
FUYP100	RYEP100L7V1	50-230			21.8	34.8	40	108	16.0	0.090	0.8	0.090	1.0
FHYP100	RYEP100L7V1	50-230			22.1	34.5	40	108	16.5	0.090	0.8	0.130	0.7
FAYP100	RYEP100L7V1	50-230			21.6	34.2	40	108	16.3	0.090	0.8	0.049	0.4
FHYBP100	RYEP100L7V1	50-230			21.7	34.8	40	108	15.9	0.090	0.8	0.135	1.0
FDYMP100	RYEP100L7V1	50-230			22.1	34.8	40	108	16.2	0.090	0.8	0.135	1.0
FHYCP100	RYEP100L7W1	50-400/230	Max. 50Hz-440/253V Min. 50Hz-360/197V		9.6	11.8	16	48	6.2	0.090	0.8	0.090	1.0
FUYP100	RYEP100L7W1	50-400/230			9.6	11.8	16	48	6.2	0.090	0.8	0.090	1.0
FHYP100	RYEP100L7W1	50-400/230			9.4	11.5	16	48	6.3	0.090	0.8	0.130	0.7
FAYP100	RYEP100L7W1	50-400/230			8.8	11.2	16	48	6.1	0.090	0.8	0.049	0.4
FHYBP100	RYEP100L7W1	50-400/230			9.6	11.8	16	48	6.2	0.090	0.8	0.135	1.0
FDYMP100	RYEP100L7W1	50-400/230			9.6	11.8	16	48	6.2	0.090	0.8	0.135	1.0

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#### SYMBOLS

MCA	: Min. Circuit Amps
TOCA	: Total Over Current Amps
MFA	: Max. Fuse Amps (see note 7)
LRA	: Locked Rotor Amps
RLA	: Rated Load Amps
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  
 $MCA = 1.25 \times RLA + \text{all FLA}$ ,  $MFA = < 2.25 \times RLA + \text{all FLA}$   
(next lower standard fuse rating Min. 16A)
6. Select wire size based on the larger value of MCA or TOCA
7. Instead of fuse, use circuit breaker



## 2 Specifications



### ELECTRICAL DATA

2

#### RYEP125L7

Unit combination		Hz-Volts	Power supply			Compressor		OFM		IFM			
Indoor unit	Outdoor unit		Voltage range			MCA	TOCA	MFA	LRA	RLA	kW	FLA	kW
FHYCP125	RYEP125L7W1	50-400/230	Max. 50Hz-440/253V Min. 50Hz-360/197V	12.2	15.3	20	59	7.9	0.065 + 0.085	0.6 + 0.7	0.09	1.0	
FUYP125	RYEP125L7W1	50-400/230		11.4	15.3	20	59	7.3	0.065 + 0.085	0.6 + 0.7	0.09	1.0	
FHYP125	RYEP125L7W1	50-400/230		12.1	15.0	20	59	8.1	0.065 + 0.085	0.6 + 0.7	0.13	0.7	
FHYBP125	RYEP125L7W1	50-400/230		12.0	15.7	20	59	7.4	0.065 + 0.085	0.6 + 0.7	0.225	1.4	
FDYMP125	RYEP125L7W1	50-400/230		12.0	15.7	20	59	7.4	0.065 + 0.085	0.6 + 0.7	0.225	1.4	
FDYP125	RYEP125L7W1	50-400/230		14.8	18.5	20	59	7.4	0.065 + 0.085	0.6 + 0.7	0.5	4.2	

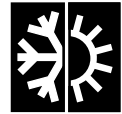
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#### SYMBOLS

- MCA : Min. Circuit Amps
- TOCA : Total Over Current Amps
- MFA : Max. Fuse Amps (see note 7)
- LRA : Locked Rotor Amps
- RLA : Rated Load Amps
- 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  
 $MCA = 1.25 \times RLA + \text{all FLA}$ ,  $MFA = < 2.25 \times RLA + \text{all FLA}$   
(next lower standard fuse rating Min. 16A)
6. Select wire size based on the larger value of MCA or TOCA
7. Instead of fuse, use circuit breaker



# 3 Capacity tables

3

FHYKP71BV1 + RYEP71L7V1  
RYEP71L7W1

Cooling capacity

V1/T1: 230V [50Hz]  
W1: 400V [50Hz]

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

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## SYMBOLS

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

**Caution:**  
TC and SHC are shown by kW

## NOTES

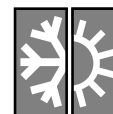
- Ratings shown are net capacities. Influence of fan motor heat is included.
- Shows nominal capacities
- SHC is based on each EWB and EDB  
SHC\* = SHC correction for other dry bulb  
= 0.29 x 60 x AFR(m<sup>3</sup>/min) x (1-BF) x (DB°-EDB)/860  
Add SHC\* to SHC if SHC > TC, then TC equal SHC
- Direct interpolation is permissible. Do not extrapolate.
- Capacities are based on the following conditions:  
Corresponding refrigerant piping length: 7.5 m  
Level difference: 0 m
- Air flow rate and BF are tabulated below.

Model		FHYKP
71	AFR	17
	BF	0.07

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

Model	Supply	FHYKP
71	V1	0.1
	W1	0

### 3 Capacity tables



FHYKP71BV1 + RYEP71L7V1  
RYEP71L7W1

3

Heating capacity

V1: 230V [50Hz]  
W1: 400V [50Hz]

Outdoor	Indoor EDB (°C)	Outdoor temperature (°CDB)											
		-10		-5		0		6		10		15	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
71	16.0	6.3	2.31	6.7	2.39	7.4	2.39	8.1	2.48	8.6	2.48	-	-
	18.0	6.3	2.31	6.7	2.39	7.4	2.48	8.0	2.56	8.6	2.56	-	-
	20.0	6.3	2.39	6.7	2.48	7.3	2.56	8.0	2.56	8.6	2.65	9.3	2.74
	21.0	6.3	2.48	6.7	2.48	7.3	2.56	8.0	2.65	8.6	2.74	9.3	2.82
	22.0	6.3	2.48	6.7	2.56	7.3	2.65	8.0	2.74	8.6	2.74	9.1	2.82
	24.0	6.3	2.56	6.7	2.65	7.3	2.74	7.9	2.82	8.6	2.82	9.1	2.91

3TW25242-13A

#### SYMBOLS

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

**Caution:**  
TC is shown by kW

#### NOTES

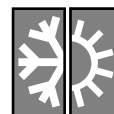
- Ratings shown are net capacities. Influence of fan motor heat is included.
- Shows nominal capacities
- Capacities are based on the following conditions:  
Outdoor air : 85 % RH. however, the condition on nominal capacity is 7° CDB/6° CWB (heating)  
Corresponding refrigerant piping length: 7.5 m 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

Model		FHYKP
71	AFR	17
	BF	0.07

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

Model	Supply	FHYKP
71	V1	0.07
	W1	0

### 3 Capacity tables



#### 3 FHYCP(71-100)B7V1 + RYEP(71-100)L7V1 RYEP(71-100)L7W1

Cooling capacity

V1/T1: 230V [50Hz]  
W1: 400V [50Hz]

Outdoor	Indoor		Outdoor temperature (°CDB)																	
	EWB (°C)	EDB (°C)	20			25			32			35			40			46		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
71	12.0	18.0	6.2	4.8	1.89	6.1	4.7	2.16	5.7	4.6	2.34	5.5	4.5	2.52	5.3	4.4	2.79	4.9	4.1	3.06
	14.0	20.0	6.6	4.8	1.98	6.5	4.7	2.25	6.0	4.6	2.43	5.9	4.5	2.52	5.5	4.4	2.79	5.3	4.1	3.06
	16.0	22.0	7.2	4.9	1.98	7.0	4.8	2.25	6.5	4.7	2.43	6.3	4.6	2.61	6.0	4.5	2.88	5.5	4.2	3.15
	18.0	25.0	7.7	5.1	2.07	7.5	4.9	2.25	7.2	4.8	2.52	6.8	4.7	2.70	6.4	4.5	2.88	6.0	4.4	3.24
	19.0	27.0	8.0	5.2	2.07	7.7	5.1	2.25	7.3	4.9	2.52	7.1	4.7	2.70	6.6	4.6	2.97	6.2	4.5	3.24
	19.5	27.0	8.0	5.2	2.07	7.9	5.1	2.25	7.4	4.9	2.52	7.2	4.7	2.70	6.7	4.6	2.97	6.3	4.5	3.24
	22.0	30.0	8.7	5.3	2.16	8.5	5.2	2.34	8.0	5.1	2.61	7.9	4.8	2.79	7.4	4.7	2.97	6.8	4.5	3.33
24.0	32.0	9.4	5.3	2.16	9.1	5.2	2.34	8.6	5.1	2.70	8.4	4.9	2.79	8.0	4.7	3.06	7.4	4.5	3.42	
100	12.0	18.0	8.4	7.0	2.81	8.3	6.9	3.02	8.1	6.7	3.43	7.8	6.6	3.64	7.5	6.2	4.06	6.9	6.0	4.47
	14.0	20.0	8.9	7.0	2.91	8.8	6.9	3.02	8.7	6.7	3.43	8.4	6.6	3.64	7.8	6.2	4.06	7.5	6.0	4.47
	16.0	22.0	10.1	7.1	2.91	9.8	7.0	3.12	9.1	6.8	3.54	8.9	6.7	3.75	8.5	6.3	4.16	7.8	6.1	4.58
	18.0	25.0	10.8	7.4	2.91	10.5	7.3	3.12	9.8	6.9	3.54	9.6	6.8	3.75	9.0	6.6	4.16	8.4	6.2	4.68
	19.0	27.0	11.1	7.5	2.91	10.8	7.4	3.23	10.1	7.0	3.64	10.0	6.9	3.85	9.4	6.7	4.27	8.7	6.3	4.79
	19.5	27.0	11.2	7.5	2.91	11.0	7.4	3.23	10.3	7.0	3.64	10.1	6.9	3.85	9.5	6.7	4.27	8.8	6.3	4.79
	22.0	30.0	12.2	7.6	3.02	11.8	7.5	3.23	11.2	7.1	3.75	11.0	7.0	3.95	10.4	6.9	4.37	9.6	6.6	4.79
24.0	32.0	13.0	7.7	3.12	12.7	7.6	3.33	11.9	7.3	3.85	11.6	7.1	4.06	11.1	7.0	4.47	10.3	6.7	4.89	

3TW25242-1A

#### SYMBOLS

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

**Caution:**  
TC and SHC are shown by kW

#### NOTES

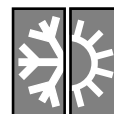
- Ratings shown are net capacities. Influence of fan motor heat is included.
- Shows nominal capacities
- SHC is based on each EWB and EDB  
 $SHC^* = SHC \text{ correction for other dry bulb} = 0.29 \times 60 \times AFR(m^3/min) \times (1-BF) \times (DB^* - EDB)/860$   
 Add SHC\* to SHC if SHC > TC, then TC equal SHC
- Direct interpolation is permissible. Do not extrapolate.
- Capacities are based on the following conditions:  
 Corresponding refrigerant piping length: 7.5 m  
 Level difference: 0 m
- Air flow rate and BF are tabulated below.

Model		FHYCP
71	AFR	19
	BF	0.1
100	AFR	28
	BF	0.16

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

Model	Supply	FHYCP
71	V1	0.08
	W1	0
100	V1	-0.05
	W1	0

# 3 Capacity tables



FHYCP(71-100)B7V1 + RYEP(71-100)L7V1  
RYEP(71-100)L7W1

Heating capacity

V1: 230V [50Hz]  
W1: 400V [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	6.3	2.48	6.7	2.57	7.4	2.57	8.1	2.67	8.6	2.67	-	-
	18.0	6.3	2.48	6.7	2.57	7.4	2.67	8.0	2.76	8.6	2.76	-	-
	20.0	6.3	2.57	6.7	2.67	7.3	2.76	8.0	2.76	8.6	2.85	9.3	2.94
	21.0	6.3	2.67	6.7	2.67	7.3	2.76	8.0	2.85	8.6	2.94	9.3	3.03
	22.0	6.3	2.67	6.7	2.76	7.3	2.85	8.0	2.94	8.6	2.94	9.1	3.03
	24.0	6.3	2.76	6.7	2.85	7.3	2.94	7.9	3.03	8.6	3.03	9.1	3.13
100	16.0	8.7	3.19	9.5	3.29	10.3	3.39	11.4	3.49	12.1	3.59	-	-
	18.0	8.6	3.29	9.4	3.39	10.3	3.49	11.3	3.59	12.1	3.69	-	-
	20.0	8.6	3.39	9.4	3.49	10.1	3.59	11.2	3.69	12.0	3.79	12.9	3.89
	21.0	8.6	3.49	9.3	3.59	10.1	3.69	11.2	3.79	11.9	3.89	12.9	3.99
	22.0	8.6	3.59	9.3	3.69	10.1	3.79	11.2	3.89	11.9	3.99	12.8	4.09
	24.0	8.5	3.69	9.3	3.79	9.9	3.89	11.0	3.99	11.7	4.09	12.8	4.19

3TW25242-9A

### SYMBOLS

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

**Caution:**  
TC is shown by kW

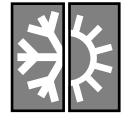
### NOTES

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

Model		FHYCP
71	AFR	19
	BF	0.10
100	AFR	28
	BF	0.16

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

Model	Supply	FHYCP
71	V1	0
	W1	0
100	V1	-0.1
	W1	0



### 3 Capacity tables

3

**FHYBP(71-100)B7V1 + RYEP(71-100)L7V1  
RYEP(71-100)L7W1**

**Cooling capacity**

**V1/T1: 230V [50Hz]  
W1: 400V [50Hz]**

Outdoor	Indoor		Outdoor temperature (°CDB)																	
	EWB (°C)	EDB (°C)	20			25			32			35			40			46		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
71	12.0	18.0	6.2	4.8	1.85	6.1	4.7	2.11	5.7	4.6	2.29	5.5	4.5	2.46	5.3	4.4	2.73	4.9	4.1	2.99
	14.0	20.0	6.6	4.8	1.94	6.5	4.7	2.20	6.0	4.6	2.38	5.9	4.5	2.46	5.5	4.4	2.73	5.3	4.1	2.99
	16.0	22.0	7.2	4.9	1.94	7.0	4.8	2.20	6.5	4.7	2.38	6.3	4.6	2.55	6.0	4.5	2.82	5.5	4.2	3.08
	18.0	25.0	7.7	5.1	2.02	7.5	4.9	2.20	7.2	4.8	2.46	6.8	4.7	2.64	6.4	4.5	2.82	6.0	4.4	3.17
	19.0	27.0	8.0	5.2	2.02	7.7	5.1	2.20	7.3	4.9	2.46	7.1	4.7	2.64	6.6	4.6	2.90	6.2	4.5	3.17
	19.5	27.0	8.0	5.2	2.02	7.9	5.1	2.20	7.4	4.9	2.46	7.2	4.7	2.64	6.7	4.6	2.90	6.3	4.5	3.17
	22.0	30.0	8.7	5.3	2.11	8.5	5.2	2.29	8.0	5.1	2.55	7.9	4.8	2.73	7.4	4.7	2.90	6.8	4.5	3.26
	24.0	32.0	9.4	5.3	2.11	9.1	5.2	2.29	8.6	5.1	2.64	8.4	4.9	2.73	8.0	4.7	2.99	7.4	4.5	3.34
100	12.0	18.0	8.4	7.0	2.79	8.3	6.9	3.00	8.1	6.7	3.42	7.8	6.6	3.62	7.5	6.2	4.04	6.9	6.0	4.45
	14.0	20.0	8.9	7.0	2.90	8.8	6.9	3.00	8.7	6.7	3.42	8.4	6.6	3.62	7.8	6.2	4.04	7.5	6.0	4.45
	16.0	22.0	10.1	7.1	2.90	9.8	7.0	3.11	9.1	6.8	3.52	8.9	6.7	3.73	8.5	6.3	4.14	7.8	6.1	4.55
	18.0	25.0	10.8	7.4	2.90	10.5	7.3	3.11	9.8	6.9	3.52	9.6	6.8	3.73	9.0	6.6	4.14	8.4	6.2	4.66
	19.0	27.0	11.1	7.5	2.90	10.8	7.4	3.21	10.1	7.0	3.62	10.0	6.9	3.83	9.4	6.7	4.24	8.7	6.3	4.76
	19.5	27.0	11.2	7.5	2.90	11.0	7.4	3.21	10.3	7.0	3.62	10.1	6.9	3.83	9.5	6.7	4.24	8.8	6.3	4.76
	22.0	30.0	12.2	7.6	3.00	11.8	7.5	3.21	11.2	7.1	3.73	11.0	7.0	3.93	10.4	6.9	4.35	9.6	6.6	4.76
	24.0	32.0	13.0	7.7	3.11	12.7	7.6	3.31	11.9	7.3	3.83	11.6	7.1	4.04	11.1	7.0	4.45	10.3	6.7	4.87

3TW25242-2A

**SYMBOLS**

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

**Caution:**  
TC and SHC are shown by kW

**NOTES**

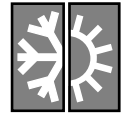
- Ratings shown are net capacities. Influence of fan motor heat is included.
- Shows nominal capacities
- SHC is based on each EWB and EDB  
 $SHC^* = SHC \text{ correction for other dry bulb}$   
 $= 0.29 \times 60 \times AFR(m^3/min) \times (1-BF) \times (DB^*-EDB)/860$   
 Add SHC\* to SHC if SHC > TC, then TC equal SHC
- Direct interpolation is permissible. Do not extrapolate.
- Capacities are based on the following conditions:  
 Corresponding refrigerant piping length: 7.5 m  
 Level difference: 0 m
- Air flow rate and BF are tabulated below.

Model		FHYBP
71	AFR	19
	BF	0.11
100	AFR	27
	BF	0.2

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

Model	Supply	FHYBP
71	V1	0.08
	W1	0
100	V1	-0.1
	W1	0

### 3 Capacity tables



FHYBP(71-100)B7V1 + RYEP(71-100)L7V1  
RYEP(71-100)L7W1

Heating capacity

V1: 230V [50Hz]  
W1: 400V [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	6.3	2.26	6.7	2.35	7.4	2.35	8.1	2.43	8.6	2.34	-	-
	18.0	6.3	2.26	6.7	2.35	7.4	2.43	8.0	2.52	8.6	2.52	-	-
	20.0	6.3	2.35	6.7	2.43	7.3	2.52	8.0	2.52	8.6	2.60	9.3	2.68
	21.0	6.3	2.43	6.7	2.43	7.3	2.52	8.0	2.60	8.6	2.68	9.3	2.77
	22.0	6.3	2.43	6.7	2.52	7.3	2.60	8.0	2.68	8.6	2.68	9.1	2.77
	24.0	6.3	2.52	6.7	2.60	7.3	2.68	7.9	2.77	8.6	2.77	9.1	2.85
100	16.0	8.7	3.36	9.5	3.47	10.3	3.57	11.4	3.68	12.1	3.78	-	-
	18.0	8.6	3.47	9.4	3.57	10.3	3.68	11.3	3.78	12.1	3.89	-	-
	20.0	8.6	3.57	9.4	3.68	10.1	3.78	11.2	3.89	12.0	3.99	12.9	4.10
	21.0	8.6	3.68	9.3	3.78	10.1	3.89	11.2	3.99	11.9	4.10	12.9	4.20
	22.0	8.6	3.78	9.3	3.89	10.1	3.99	11.2	4.10	11.9	4.20	12.8	4.31
	24.0	8.5	3.89	9.3	3.99	9.9	4.10	11.0	4.20	11.7	4.31	12.8	4.41

3TW25242-10A

#### SYMBOLS

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

**Caution:**  
TC is shown by kW

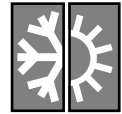
#### NOTES

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

Model		FHYCP
71	AFR	19
	BF	0.11
100	AFR	27
	BF	0.2

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

Model	Supply	FHYCP
71	V1	0.06
	W1	0
100	V1	-0.06
	W1	0



### 3 Capacity tables

3

**FDYMP(71-100)L7V1 + RYEP(71-100)L7V1  
RYEP(71-100)L7W1**

**Cooling capacity**

**V1/T1: 230V [50Hz]  
W1: 400V [50Hz]**

Outdoor	Indoor		Outdoor temperature (°CDB)																	
	EWB (°C)	EDB (°C)	20			25			32			35			40			46		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
71	12.0	18.0	6.2	4.8	1.85	6.1	4.7	2.11	5.7	4.6	2.29	5.5	4.5	2.46	5.3	4.4	2.73	4.9	4.1	2.99
	14.0	20.0	6.6	4.8	1.94	6.5	4.7	2.20	6.0	4.6	2.38	5.9	4.5	2.46	5.5	4.4	2.73	5.3	4.1	2.99
	16.0	22.0	7.2	4.9	1.94	7.0	4.8	2.20	6.5	4.7	2.38	6.3	4.6	2.55	6.0	4.5	2.82	5.5	4.2	3.08
	18.0	25.0	7.7	5.1	2.02	7.5	4.9	2.20	7.2	4.8	2.46	6.8	4.7	2.64	6.4	4.5	2.82	6.0	4.4	3.17
	19.0	27.0	8.0	5.2	2.02	7.7	5.1	2.20	7.3	4.9	2.46	7.1	4.7	2.64	6.6	4.6	2.90	6.2	4.5	3.17
	19.5	27.0	8.0	5.2	2.02	7.9	5.1	2.20	7.4	4.9	2.46	7.2	4.7	2.64	6.7	4.6	2.90	6.3	4.5	3.17
	22.0	30.0	8.7	5.3	2.11	8.5	5.2	2.29	8.0	5.1	2.55	7.9	4.8	2.73	7.4	4.7	2.90	6.8	4.5	3.26
	24.0	32.0	9.4	5.3	2.11	9.1	5.2	2.29	8.6	5.1	2.64	8.4	4.9	2.73	8.0	4.7	2.99	7.4	4.5	3.34
100	12.0	18.0	8.4	7.0	2.77	8.3	6.9	2.97	8.1	6.7	3.38	7.8	6.6	3.59	7.5	6.2	3.99	6.9	6.0	4.40
	14.0	20.0	8.9	7.0	2.87	8.8	6.9	2.97	8.7	6.7	3.38	8.4	6.6	3.59	7.8	6.2	3.99	7.5	6.0	4.40
	16.0	22.0	10.1	7.1	2.87	9.8	7.0	3.07	9.1	6.8	3.48	8.9	6.7	3.69	8.5	6.3	4.10	7.8	6.1	4.51
	18.0	25.0	10.8	7.4	2.87	10.5	7.3	3.07	9.8	6.9	3.48	9.6	6.8	3.69	9.0	6.6	4.10	8.4	6.2	4.61
	19.0	27.0	11.1	7.5	2.87	10.8	7.4	3.18	10.1	7.0	3.59	10.0	6.9	3.79	9.4	6.7	4.20	8.7	6.3	4.71
	19.5	27.0	11.2	7.5	2.87	11.0	7.4	3.18	10.3	7.0	3.59	10.1	6.9	3.79	9.5	6.7	4.20	8.8	6.3	4.71
	22.0	30.0	12.2	7.6	2.97	11.8	7.5	3.18	11.2	7.1	3.69	11.0	7.0	3.89	10.4	6.9	4.30	9.6	6.6	4.71
	24.0	32.0	13.0	7.7	3.07	12.7	7.6	3.28	11.9	7.3	3.79	11.6	7.1	3.99	11.1	7.0	4.40	10.3	6.7	4.81

3TW25242-3A

**SYMBOLS**

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

**Caution:**  
TC and SHC are shown by kW

**NOTES**

- Ratings shown are net capacities. Influence of fan motor heat is included.
- Shows nominal capacities
- SHC is based on each EWB and EDB  
 $SHC^* = SHC \text{ correction for other dry bulb}$   
 $= 0.29 \times 60 \times AFR(m^3/min) \times (1-BF) \times (DB^*-EDB)/860$   
 Add SHC\* to SHC if SHC > TC, then TC equal SHC
- Direct interpolation is permissible. Do not extrapolate.
- Capacities are based on the following conditions:  
 Corresponding refrigerant piping length: 7.5 m  
 Level difference: 0 m
- Air flow rate and BF are tabulated below.

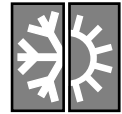
Model		FDYMP
71	AFR	19
	BF	0.11
100	AFR	27
	BF	0.2

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

Model	Supply	FDYMP
71	V1	0.08
	W1	0
100	V1	-0.1
	W1	0



### 3 Capacity tables



FDYMP(71-100)L7V1 + RYEP(71-100)L7V1  
RYEP(71-100)L7W1

Heating capacity

V1: 230V [50Hz]  
W1: 400V [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	6.3	2.26	6.7	2.35	7.4	2.35	8.1	2.43	8.6	2.43	-	-
	18.0	6.3	2.26	6.7	2.35	7.4	2.43	8.0	2.52	8.6	2.52	-	-
	20.0	6.3	2.35	6.7	2.43	7.3	2.52	8.0	2.52	8.6	2.60	9.3	2.68
	21.0	6.3	2.43	6.7	2.43	7.3	2.52	8.0	2.60	8.6	2.68	9.3	2.77
	22.0	6.3	2.43	6.7	2.52	7.3	2.60	8.0	2.68	8.6	2.68	9.1	2.77
	24.0	6.3	2.52	6.7	2.60	7.3	2.68	7.9	2.77	8.6	2.77	9.1	2.85
100	16.0	8.5	3.29	9.3	3.40	10.1	3.50	11.2	3.60	11.9	3.70	-	-
	18.0	8.4	3.40	9.2	3.50	10.1	3.60	11.1	3.70	11.9	3.81	-	-
	20.0	8.4	3.50	9.2	3.60	10.0	3.70	11.0	3.81	11.8	3.91	12.7	4.01
	21.0	8.4	3.60	9.1	3.70	10.0	3.81	11.0	3.91	11.7	4.01	12.7	4.12
	22.0	8.4	3.70	9.1	3.81	10.0	3.91	11.0	4.01	11.7	4.12	12.6	4.22
	24.0	8.3	3.81	9.1	3.91	9.8	4.01	10.8	4.12	11.5	4.22	12.6	4.32

3TW25242-14A

#### SYMBOLS

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

**Caution:**  
TC is shown by kW

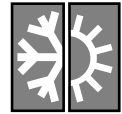
#### NOTES

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

Model		FDYMP
71	AFR	19
	BF	0.11
100	AFR	27
	BF	0.2

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

Model	Supply	FDYMP
71	V1	0.07
	W1	0
100	V1	-0.05
	W1	0



# 3 Capacity tables

## 3 FHYP(71-100)BV1 + RYEP(71-100)L7V1 RYEP(71-100)L7W1

Cooling capacity

V1/T1: 230V [50Hz]  
W1: 400V [50Hz]

Outdoor	Indoor		Outdoor temperature (°CDB)																	
	EWB (°C)	EDB (°C)	20			25			32			35			40			46		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
71	12.0	18.0	6.2	4.8	1.86	6.1	4.7	2.12	5.7	4.6	2.30	5.5	4.5	2.47	5.3	4.4	2.74	4.9	4.1	3.00
	14.0	20.0	6.6	4.8	1.94	6.5	4.7	2.21	6.0	4.6	2.39	5.9	4.5	2.47	5.5	4.4	2.74	5.3	4.1	3.00
	16.0	22.0	7.2	4.9	1.94	7.0	4.8	2.21	6.5	4.7	2.39	6.3	4.6	2.56	6.0	4.5	2.83	5.5	4.2	3.09
	18.0	25.0	7.7	5.1	2.03	7.5	4.9	2.21	7.2	4.8	2.47	6.8	4.7	2.65	6.4	4.5	2.83	6.0	4.4	3.18
	19.0	27.0	8.0	5.2	2.03	7.7	5.1	2.21	7.3	4.9	2.47	7.1	4.7	2.65	6.6	4.6	2.92	6.2	4.5	3.18
	19.5	27.0	8.0	5.2	2.03	7.9	5.1	2.21	7.4	4.9	2.47	7.2	4.7	2.65	6.7	4.6	2.92	6.3	4.5	3.18
	22.0	30.0	8.7	5.3	2.12	8.5	5.2	2.30	8.0	5.1	2.56	7.9	4.8	2.74	7.4	4.7	2.92	6.8	4.5	3.27
24.0	32.0	9.4	5.3	2.12	9.1	5.2	2.30	8.6	5.1	2.65	8.4	4.9	2.74	8.0	4.7	3.00	7.4	4.5	3.36	
100	12.0	18.0	8.4	7.0	2.77	8.3	6.9	2.97	8.1	6.7	3.38	7.8	6.6	3.59	7.5	6.2	3.99	6.9	6.0	4.40
	14.0	20.0	8.9	7.0	2.87	8.8	6.9	2.97	8.7	6.7	3.38	8.4	6.6	3.59	7.8	6.2	3.99	7.5	6.0	4.40
	16.0	22.0	10.1	7.1	2.87	9.8	7.0	3.07	9.1	6.8	3.48	8.9	6.7	3.69	8.5	6.3	4.10	7.8	6.1	4.51
	18.0	25.0	10.8	7.4	2.87	10.5	7.3	3.07	9.8	6.9	3.48	9.6	6.8	3.69	9.0	6.6	4.10	8.4	6.2	4.61
	19.0	27.0	11.1	7.5	2.87	10.8	7.4	3.18	10.1	7.0	3.59	10.0	6.9	3.79	9.4	6.7	4.20	8.7	6.3	4.71
	19.5	27.0	11.2	7.5	2.87	11.0	7.4	3.18	10.3	7.0	3.59	10.1	6.9	3.79	9.5	6.7	4.20	8.8	6.3	4.71
	22.0	30.0	12.2	7.6	2.97	11.8	7.5	3.18	11.2	7.1	3.69	11.0	7.0	3.89	10.4	6.9	4.30	9.6	6.6	4.71
24.0	32.0	13.0	7.7	3.07	12.7	7.6	3.28	11.9	7.3	3.79	11.6	7.1	3.99	11.1	7.0	4.40	10.3	6.7	4.81	

3TW25242-4A

### SYMBOLS

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

**Caution:**  
TC and SHC are shown by kW

### NOTES

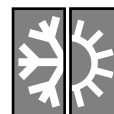
- Ratings shown are net capacities. Influence of fan motor heat is included.
- Shows nominal capacities
- SHC is based on each EWB and EDB  
 $SHC^* = SHC \text{ correction for other dry bulb}$   
 $= 0.29 \times 60 \times AFR(m^3/min) \times (1-BF) \times (DB^*-EDB)/860$   
 Add SHC\* to SHC if SHC > TC, then TC equal SHC
- Direct interpolation is permissible. Do not extrapolate.
- Capacities are based on the following conditions:  
 Corresponding refrigerant piping length: 7.5 m  
 Level difference: 0 m
- Air flow rate and BF are tabulated below.

Model		FHYP
71	AFR	17
	BF	0.1
100	AFR	24
	BF	0.14

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

Model	PI	FHYP
71	V1	0.07
	W1	0
100	V1	-0.1
	W1	0

# 3 Capacity tables



FHYP(71-100)BV1 + RYEP(71-100)L7V1  
RYEP(71-100)L7W1

Heating capacity

V1: 230V [50Hz]  
W1: 400V [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	6.3	2.48	6.7	2.57	7.4	2.57	8.1	2.67	8.6	2.67	-	-
	18.0	6.3	2.48	6.7	2.57	7.4	2.67	8.0	2.76	8.6	2.76	-	-
	20.0	6.3	2.57	6.7	2.67	7.3	2.76	8.0	2.76	8.6	2.85	9.3	2.94
	21.0	6.3	2.67	6.7	2.67	7.3	2.76	8.0	2.85	8.6	2.94	9.3	3.03
	22.0	6.3	2.67	6.7	2.76	7.3	2.85	8.0	2.94	8.6	2.94	9.1	3.03
	24.0	6.3	2.76	6.7	2.85	7.3	2.94	7.9	3.03	8.6	3.03	9.1	3.13
100	16.0	8.5	3.29	9.3	3.40	10.1	3.50	11.2	3.60	11.9	3.70	-	-
	18.0	8.4	3.40	9.2	3.50	10.1	3.60	11.1	3.70	11.9	3.81	-	-
	20.0	8.4	3.50	9.2	3.60	10.0	3.70	11.0	3.81	11.8	3.91	12.7	4.01
	21.0	8.4	3.60	9.1	3.70	10.0	3.81	11.0	3.91	11.7	4.01	12.7	4.12
	22.0	8.4	3.70	9.1	3.81	10.0	3.91	11.0	4.01	11.7	4.12	12.6	4.22
	24.0	8.3	3.81	9.1	3.91	9.8	4.01	10.8	4.12	11.5	4.22	12.6	4.32

3TW25242-8A

### SYMBOLS

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

**Caution:**  
TC is shown by kW

### NOTES

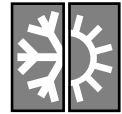
- Ratings shown are net capacities. Influence of fan motor heat is included.
- Shows nominal capacities
- Capacities are based on the following conditions:  
Outdoor air : 85 % RH. however, the condition on nominal capacity is 7° CDB/6° CWB (heating)  
Corresponding refrigerant piping length: 7.5 m 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

Model		FHYP
71	AFR	17
	BF	0.10
100	AFR	24
	BF	0.14

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

Model	Supply	FHYP
71	V1	0.15
	W1	0
100	V1	0
	W1	0

### 3 Capacity tables



#### 3 FUYP(71-100)BV1 + RYEP(71-100)L7V1 RYEP(71-100)L7W1

Cooling capacity

V1/T1: 230V [50Hz]  
W1: 400V [50Hz]

Outdoor	Indoor		Outdoor temperature (°CDB)																	
	EWB (°C)	EDB (°C)	20			25			32			35			40			46		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
71	12.0	18.0	6.2	4.9	1.90	6.1	4.8	2.17	5.7	4.7	2.35	5.5	4.6	2.53	5.3	4.5	2.80	4.9	4.2	3.07
	14.0	20.0	6.6	4.9	1.99	6.5	4.8	2.26	6.0	4.7	2.44	5.9	4.6	2.53	5.5	4.5	2.80	5.3	4.2	3.07
	16.0	22.0	7.2	5.0	1.99	7.0	4.9	2.26	6.5	4.8	2.44	6.3	4.7	2.62	6.0	4.6	2.89	5.5	4.3	3.16
	18.0	25.0	7.7	5.2	2.08	7.5	5.0	2.26	7.2	4.9	2.53	6.8	4.8	2.71	6.4	4.6	2.89	6.0	4.5	3.25
	19.0	27.0	8.0	5.3	2.08	7.7	5.2	2.26	7.3	5.0	2.53	7.1	4.8	2.71	6.6	4.7	2.98	6.2	4.6	3.25
	19.5	27.0	8.0	5.3	2.08	7.9	5.2	2.26	7.4	5.0	2.53	7.2	4.8	2.71	6.7	4.7	2.98	6.3	4.6	3.25
	22.0	30.0	8.7	5.4	2.17	8.5	5.3	2.35	8.0	5.2	2.62	7.9	4.9	2.80	7.4	4.8	2.98	6.8	4.6	3.34
	24.0	32.0	9.4	5.4	2.17	9.1	5.3	2.35	8.6	5.2	2.71	8.4	5.0	2.80	8.0	4.8	3.07	7.4	4.6	3.43
100	12.0	18.0	8.4	7.2	2.87	8.3	7.1	3.08	8.1	6.9	3.51	7.8	6.8	3.72	7.5	6.4	4.14	6.9	6.2	4.57
	14.0	20.0	8.9	7.2	2.97	8.8	7.1	3.08	8.7	6.9	3.51	8.4	6.8	3.72	7.8	6.4	4.14	7.5	6.2	4.57
	16.0	22.0	10.1	7.3	2.97	9.8	7.2	3.19	9.1	7.0	3.61	8.9	6.9	3.82	8.5	6.5	4.25	7.8	6.3	4.67
	18.0	25.0	10.8	7.6	2.97	10.5	7.5	3.19	9.8	7.1	3.61	9.6	7.0	3.82	9.0	6.8	4.25	8.4	6.4	4.78
	19.0	27.0	11.1	7.7	2.97	10.8	7.6	3.29	10.1	7.2	3.72	10.0	7.1	3.93	9.4	6.9	4.35	8.7	6.5	4.89
	19.5	27.0	11.2	7.7	2.97	11.0	7.6	3.29	10.3	7.2	3.72	10.1	7.1	3.93	9.5	6.9	4.35	8.8	6.5	4.89
	22.0	30.0	12.2	7.8	3.08	11.8	7.7	3.29	11.2	7.3	3.82	11.0	7.2	4.04	10.4	7.1	4.46	9.6	6.8	4.89
	24.0	32.0	13.0	7.9	3.19	12.7	7.8	3.40	11.9	7.5	3.93	11.6	7.3	4.14	11.1	7.2	4.57	10.3	6.9	4.99

3TW25242-5A

#### SYMBOLS

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

**Caution:**  
TC and SHC are shown by kW

#### NOTES

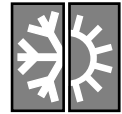
- Ratings shown are net capacities. Influence of fan motor heat is included.
- Shows nominal capacities
- SHC is based on each EWB and EDB  
 $SHC^* = SHC \text{ correction for other dry bulb} = 0.29 \times 60 \times AFR(m^3/min) \times (1-BF) \times (DB^*-EDB)/860$   
 Add SHC\* to SHC if SHC > TC, then TC equal SHC
- Direct interpolation is permissible. Do not extrapolate.
- Capacities are based on the following conditions:  
 Corresponding refrigerant piping length: 7.5 m  
 Level difference: 0 m
- Air flow rate and BF are tabulated below.

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

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

Model	Supply	FUYP
71	V1	0.1
	W1	0
100	V1	-0.1
	W1	0

### 3 Capacity tables



FUYP(71-100)BV1 + RYEP(71-100)L7V1  
RYEP(71-100)L7W1

Heating capacity

V1: 230V [50Hz]  
W1: 400V [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	6.3	2.13	6.7	2.21	7.4	2.21	8.1	2.29	8.6	2.29	-	-
	18.0	6.3	2.13	6.7	2.21	7.4	2.29	8.0	2.37	8.6	2.37	-	-
	20.0	6.3	2.21	6.7	2.29	7.3	2.37	8.0	2.37	8.6	2.45	9.3	2.53
	21.0	6.3	2.29	6.7	2.29	7.3	2.37	8.0	2.45	8.6	2.53	9.3	2.61
	22.0	6.3	2.29	6.7	2.37	7.3	2.45	8.0	2.53	8.6	2.53	9.1	2.61
	24.0	6.3	2.37	6.7	2.45	7.3	2.53	7.9	2.61	8.6	2.61	9.1	2.69
100	16.0	8.5	3.06	9.3	3.15	10.1	3.25	11.2	3.34	11.9	3.44	-	-
	18.0	8.4	3.15	9.2	3.25	10.1	3.34	11.1	3.44	11.9	3.53	-	-
	20.0	8.4	3.25	9.2	3.34	10.0	3.44	11.0	3.53	11.8	3.63	12.7	3.73
	21.0	8.4	3.34	9.1	3.44	10.0	3.53	11.0	3.63	11.7	3.73	12.7	3.82
	22.0	8.4	3.44	9.1	3.53	10.0	3.63	11.0	3.73	11.7	3.82	12.6	3.92
	24.0	8.3	3.53	9.1	3.63	9.8	3.73	10.8	3.82	11.5	3.92	12.6	4.01

3TW25242-11A

#### SYMBOLS

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

**Caution:**  
TC is shown by kW

#### NOTES

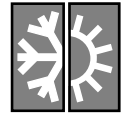
- Ratings shown are net capacities. Influence of fan motor heat is included.
- Shows nominal capacities
- Capacities are based on the following conditions:  
Outdoor air : 85 % RH. however, the condition on nominal capacity is 7° CDB/6° CWB (heating)  
Corresponding refrigerant piping length: 7.5 m 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

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

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

Model	Supply	FUYP
71	V1	0.04
	W1	0
100	V1	-0.1
	W1	0

### 3 Capacity tables



#### 3 **FAYP(71-100)BV1 + RYEP(71-100)L7V1 RYEP(71-100)L7W1**

**Cooling capacity**

**V1/T1: 230V [50Hz]  
W1: 400V [50Hz]**

Outdoor	Indoor		Outdoor temperature (°CDB)																	
	EWB (°C)	EDB (°C)	20			25			32			35			40			46		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
71	12.0	18.0	6.2	4.9	1.90	6.1	4.8	2.17	5.7	4.7	2.35	5.5	4.6	2.53	5.3	4.5	2.80	4.9	4.2	3.07
	14.0	20.0	6.6	4.9	1.99	6.5	4.8	2.26	6.0	4.7	2.44	5.9	4.6	2.53	5.5	4.5	2.80	5.3	4.2	3.07
	16.0	22.0	7.2	5.0	1.99	7.0	4.9	2.26	6.5	4.8	2.44	6.3	4.7	2.62	6.0	4.6	2.89	5.5	4.3	3.16
	18.0	25.0	7.7	5.2	2.08	7.5	5.0	2.26	7.2	4.9	2.53	6.8	4.8	2.71	6.4	4.6	2.89	6.0	4.5	3.25
	19.0	27.0	8.0	5.3	2.08	7.7	5.2	2.26	7.3	5.0	2.53	7.1	4.8	2.71	6.6	4.7	2.98	6.2	4.6	3.25
	19.5	27.0	8.0	5.3	2.08	7.9	5.2	2.26	7.4	5.0	2.53	7.2	4.8	2.71	6.7	4.7	2.98	6.3	4.6	3.25
	22.0	30.0	8.7	5.4	2.17	8.5	5.3	2.35	8.0	5.2	2.62	7.9	4.9	2.80	7.4	4.8	2.98	6.8	4.6	3.34
	24.0	32.0	9.4	5.4	2.17	9.1	5.3	2.35	8.6	5.2	2.71	8.4	5.0	2.80	8.0	4.8	3.07	7.4	4.6	3.43
100	12.0	18.0	8.4	7.2	2.69	8.3	7.1	2.88	8.1	6.9	3.28	7.8	6.8	3.48	7.5	6.4	3.88	6.9	6.2	4.28
	14.0	20.0	8.9	7.2	2.78	8.8	7.1	2.88	8.7	6.9	3.28	8.4	6.8	3.48	7.8	6.4	3.88	7.5	6.2	4.28
	16.0	22.0	10.1	7.3	2.78	9.8	7.2	2.98	9.1	7.0	3.38	8.9	6.9	3.58	8.5	6.5	3.98	7.8	6.3	4.38
	18.0	25.0	10.8	7.6	2.78	10.5	7.5	2.98	9.8	7.1	3.38	9.6	7.0	3.58	9.0	6.8	3.98	8.4	6.4	4.48
	19.0	27.0	11.1	7.7	2.78	10.8	7.6	3.08	10.1	7.2	3.48	10.0	7.1	3.68	9.4	6.9	4.08	8.7	6.5	4.58
	19.5	27.0	11.2	7.7	2.78	11.0	7.6	3.08	10.3	7.2	3.48	10.1	7.1	3.68	9.5	6.9	4.08	8.8	6.5	4.58
	22.0	30.0	12.2	7.8	2.88	11.8	7.7	3.08	11.2	7.3	3.58	11.0	7.2	3.78	10.4	7.1	4.18	9.6	6.8	4.58
	24.0	32.0	13.0	7.9	2.98	12.7	7.8	3.18	11.9	7.5	3.68	11.6	7.3	3.88	11.1	7.2	4.28	10.3	6.9	4.67

3TW25242-6A

#### SYMBOLS

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

**Caution:**  
TC and SHC are shown by kW

#### NOTES

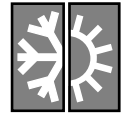
- Ratings shown are net capacities. Influence of fan motor heat is included.
- Shows nominal capacities
- SHC is based on each EWB and EDB  
 $SHC^* = SHC \text{ correction for other dry bulb} = 0.29 \times 60 \times AFR(m^3/min) \times (1-BF) \times (DB^*-EDB)/860$   
 Add SHC\* to SHC if SHC > TC, then TC equal SHC
- Direct interpolation is permissible. Do not extrapolate.
- Capacities are based on the following conditions:  
 Corresponding refrigerant piping length: 7.5 m  
 Level difference: 0 m
- Air flow rate and BF are tabulated below.

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

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

Model	Supply	FAYP
71	V1	0
	W1	0
100	V1	-0.1
	W1	0

# 3 Capacity tables



**FAYP(71-100)BV1 + RYEP(71-100)L7V1  
RYEP(71-100)L7W1**

Heating capacity

**V1: 230V [50Hz]  
W1: 400V [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	6.3	2.15	6.7	2.23	7.4	2.23	8.1	2.31	8.6	2.31	-	-
	18.0	6.3	2.15	6.7	2.23	7.4	2.31	8.0	2.39	8.6	2.39	-	-
	20.0	6.3	2.23	6.7	2.31	7.3	2.39	8.0	2.39	8.6	2.47	9.3	2.55
	21.0	6.3	2.31	6.7	2.31	7.3	2.39	8.0	2.47	8.6	2.55	9.3	2.63
	22.0	6.3	2.31	6.7	2.39	7.3	2.47	8.0	2.55	8.6	2.55	9.1	2.63
	24.0	6.3	2.39	6.7	2.47	7.3	2.55	7.9	2.63	8.6	2.63	9.1	2.71
100	16.0	8.4	3.13	9.1	3.23	10.0	3.33	11.0	3.43	11.6	3.52	-	-
	18.0	8.3	3.23	9.0	3.33	10.0	3.43	10.9	3.52	11.6	3.62	-	-
	20.0	8.3	3.33	9.0	3.43	9.8	3.52	10.8	3.62	11.5	3.72	12.5	3.82
	21.0	8.3	3.43	8.9	3.52	9.8	3.62	10.8	3.72	11.5	3.82	12.5	3.92
	22.0	8.3	3.52	8.9	3.62	9.8	3.72	10.8	3.82	11.5	3.92	12.4	4.01
	24.0	8.2	3.62	8.9	3.72	9.6	3.82	10.6	3.92	11.3	4.01	12.4	4.11

3TW25242-12A

### SYMBOLS

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

**Caution:**  
TC is shown by kW

### NOTES

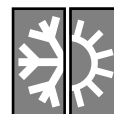
- Ratings shown are net capacities. Influence of fan motor heat is included.
- Shows nominal capacities
- Capacities are based on the following conditions:  
Outdoor air : 85 % RH. however, the condition on nominal capacity is 7° CDB/6° CWB (heating)  
Corresponding refrigerant piping length: 7.5 m 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

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

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

Model	Supply	FAYP
71	V1	0.02
	W1	0
100	V1	-0.1
	W1	0

### 3 Capacity tables



#### 3 FDYP125B7V1 + RYEP125L7W1

#### Cooling capacity

V1/T1: 230V [50Hz]  
W1: 400V [50Hz]

Outdoor	Indoor		Outdoor temperature (°CDB)																	
	EWB (°C)	EDB (°C)	20			25			32			35			40			46		
			TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
125	12.0	18.0	11.1	10.4	3.46	10.8	10.1	3.76	10.0	9.6	4.07	9.7	9.5	4.37	9.2	9.3	4.78	8.6	8.9	5.49
	14.0	20.0	11.8	10.4	3.56	11.4	10.1	3.76	10.7	9.6	4.17	10.4	9.5	4.48	9.8	9.3	4.88	9.2	8.9	5.49
	16.0	22.0	12.7	10.5	3.56	12.1	10.2	3.87	11.4	9.7	4.17	11.1	9.6	4.58	10.4	9.4	4.99	9.7	9.0	5.60
	18.0	25.0	13.3	10.8	3.66	13.0	10.4	3.87	12.1	10.0	4.27	11.8	9.9	4.68	11.2	9.6	5.09	10.4	9.3	5.60
	19.0	27.0	13.6	10.9	3.76	13.3	10.4	3.97	12.7	10.1	4.37	12.2	9.9	4.68	11.5	9.7	5.19	10.8	9.4	5.70
	19.5	27.0	13.8	10.9	3.76	13.5	10.4	3.97	12.8	10.1	4.37	12.4	10.0	4.68	11.7	9.7	5.19	11.0	9.4	5.70
	22.0	30.0	15.1	11.0	3.87	14.6	10.7	3.97	13.7	10.3	4.48	13.4	10.2	4.78	12.9	10.0	5.29	12.0	9.6	5.90
	24.0	32.0	15.9	11.1	3.87	15.5	10.8	4.07	14.6	10.4	4.58	14.3	10.3	4.88	13.6	10.1	5.39	12.9	9.9	6.00

3TW25282-6A

#### SYMBOLS

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

**Caution:**  
TC and SHC are shown by kW

#### NOTES

- Ratings shown are net capacities. Influence of fan motor heat is included.
- Shows nominal capacities
- SHC is based on each EWB and EDB  
 $SHC^* = SHC \text{ correction for other dry bulb} = 0.29 \times 60 \times AFR(m^3/min) \times (1-BF) \times (DB^{\circ}-EDB)/860$   
 Add SHC\* to SHC if SHC > TC, then TC equal SHC
- Direct interpolation is permissible. Do not extrapolate.
- Capacities are based on the following conditions:  
 Corresponding refrigerant piping length: 7.5 m  
 Level difference: 0 m
- Air flow rate and BF are tabulated below.

Model		FDYP
125	AFR	45
	BF	0.25



### 3 Capacity tables



3

**FDYP125B7V1 + RYEP125L7W1**

**Heating capacity**

**V1: 230V [50Hz]  
W1: 400V [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
125	16.0	11.5	3.76	12.5	3.95	13.4	4.04	14.7	4.13	15.7	4.32	-	-
	18.0	11.5	3.85	12.5	4.04	13.4	4.13	14.6	4.32	15.6	4.42	-	-
	20.0	11.5	3.95	12.3	4.13	13.4	4.23	14.6	4.42	15.6	4.60	17.0	4.70
	21.0	11.5	4.04	12.3	4.23	13.4	4.42	14.6	4.51	15.5	4.60	16.7	4.79
	22.0	11.5	4.13	12.3	4.32	13.4	4.42	14.6	4.60	15.5	4.70	16.7	4.89
	24.0	11.3	4.23	12.3	4.42	13.3	4.60	14.5	4.70	15.5	4.89	16.4	5.07

3TW25282-12

**SYMBOLS**

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

**Caution:**  
TC is shown by kW

**NOTES**

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

Model		FDYP
125	AFR	45
	BF	0.25

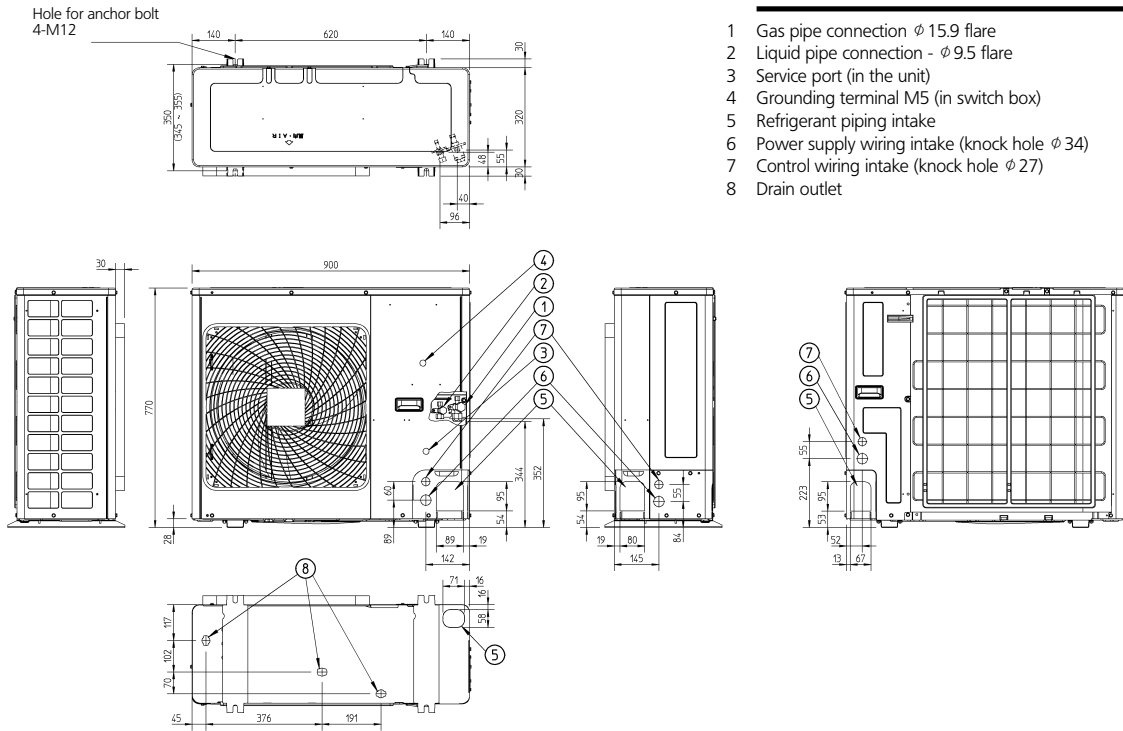
# 4 Dimensional drawings



4

## RYEP71L7

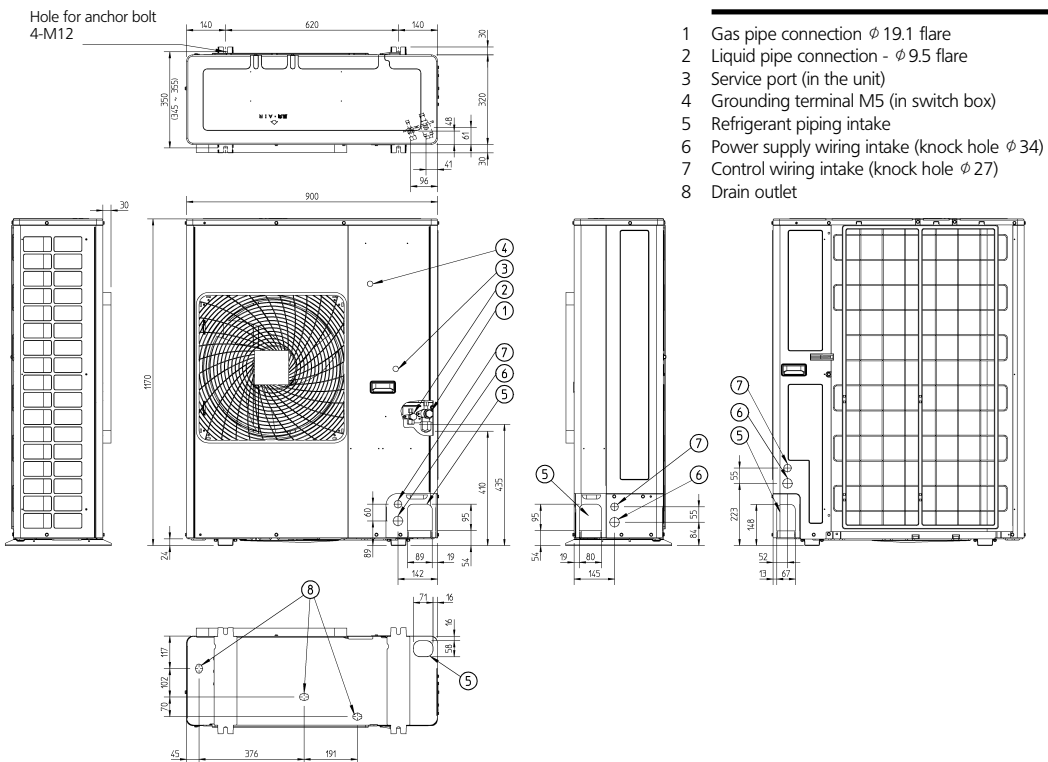
unit (mm)



3TW25144-1

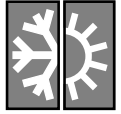
## RYEP100L7

unit (mm)



3TW25154-1

# 4 Dimensional drawings



**RYEP125L7**
**unit (mm)**

Hole for anchor bolt 4-M12

- 1 Gas pipe connection  $\phi$  19.1 flare
- 2 Liquid pipe connection -  $\phi$  9.5 flare
- 3 Service port (in the unit)
- 4 Grounding terminal M5 (in switch box)
- 5 Refrigerant piping intake
- 6 Power supply wiring intake (knock hole  $\phi$  34)
- 7 Control wiring intake (knock hole  $\phi$  27)
- 8 Drain outlet

3TW25204-1

# 5 Operation range

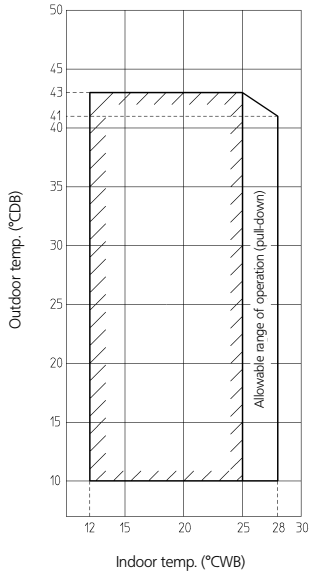


5

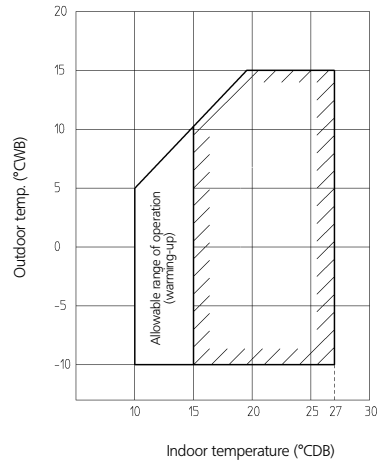
## RYEP71-125L7

Model name		
RYEP100L7V1	RYEP125L7W1	RYEP71L7W1
RYEP100L7W1	RYEP71L7V1	

Cooling



Heating

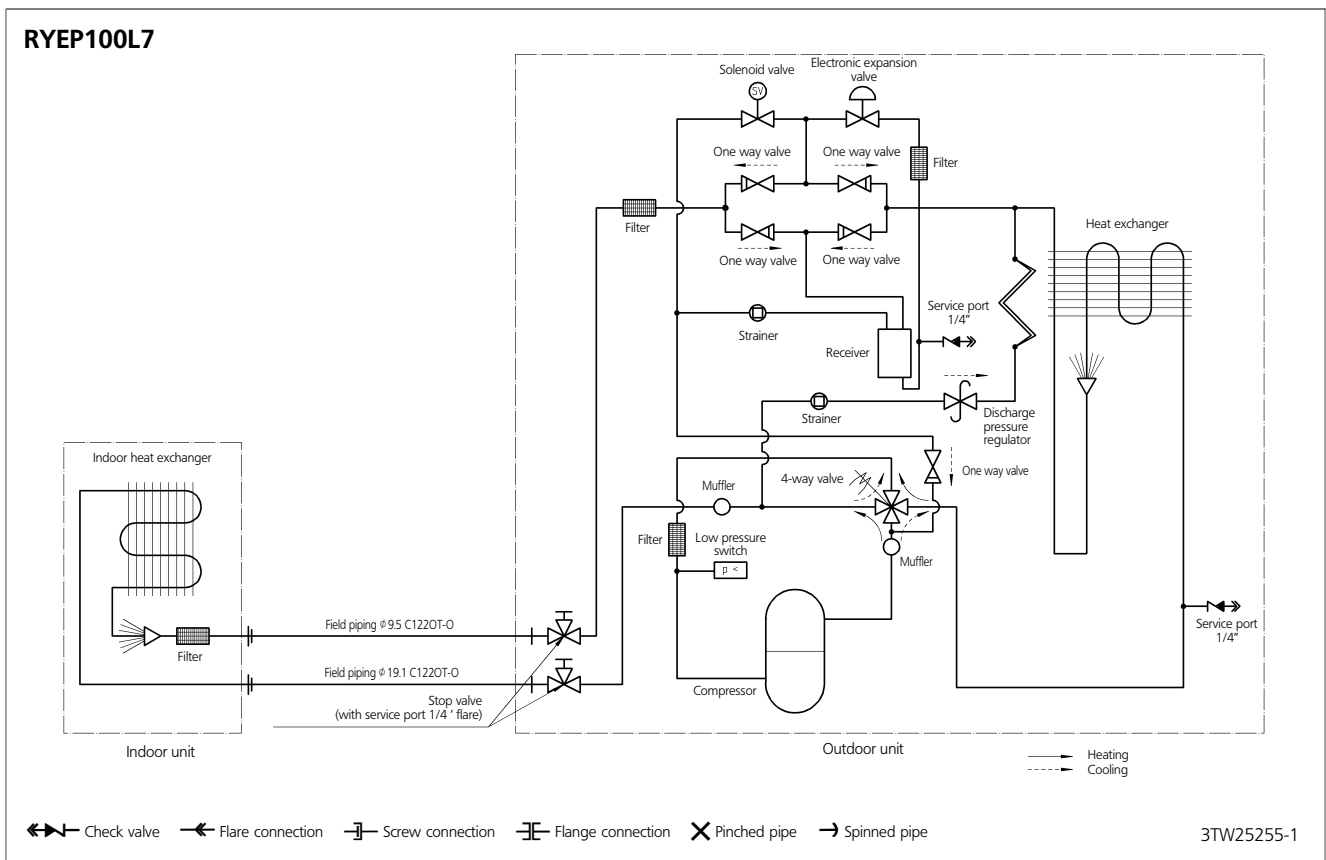
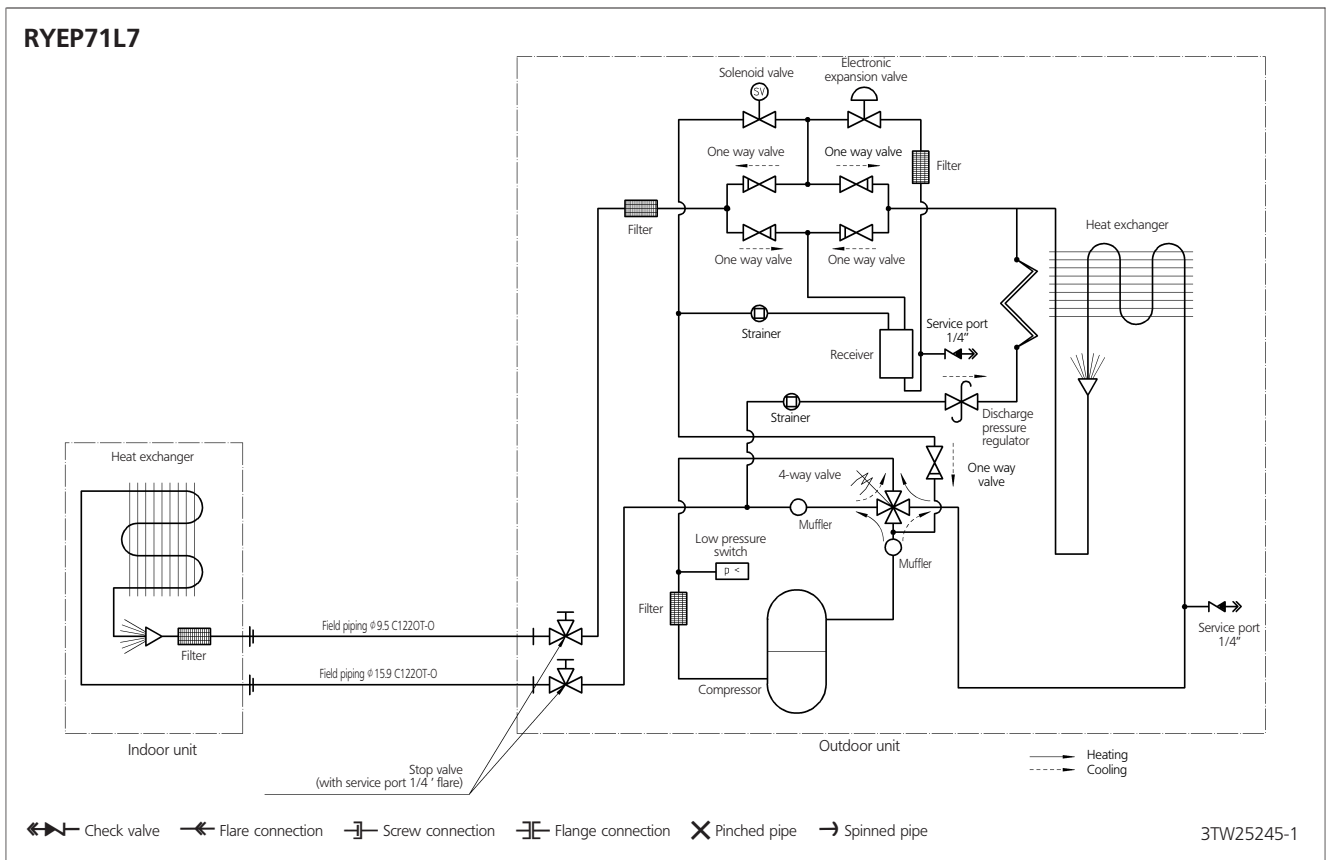


3TW25243-1

# 6 Piping diagrams



6

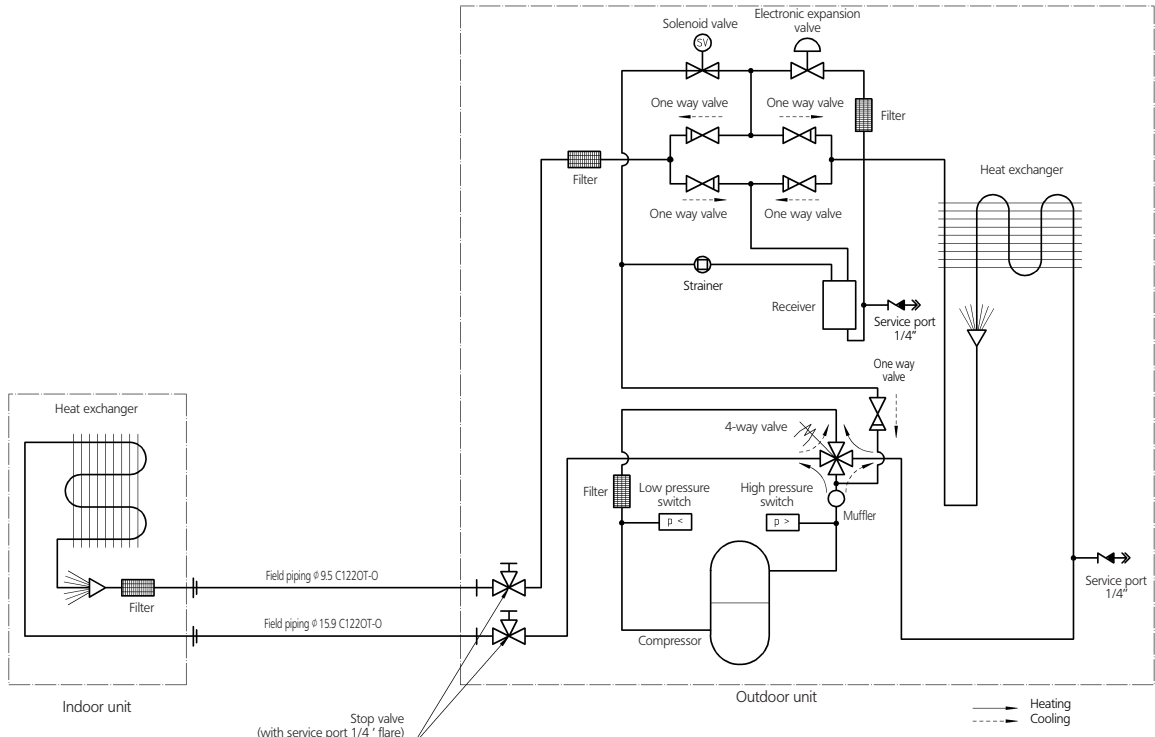


# 6 Piping diagrams



6

RYEP125L7



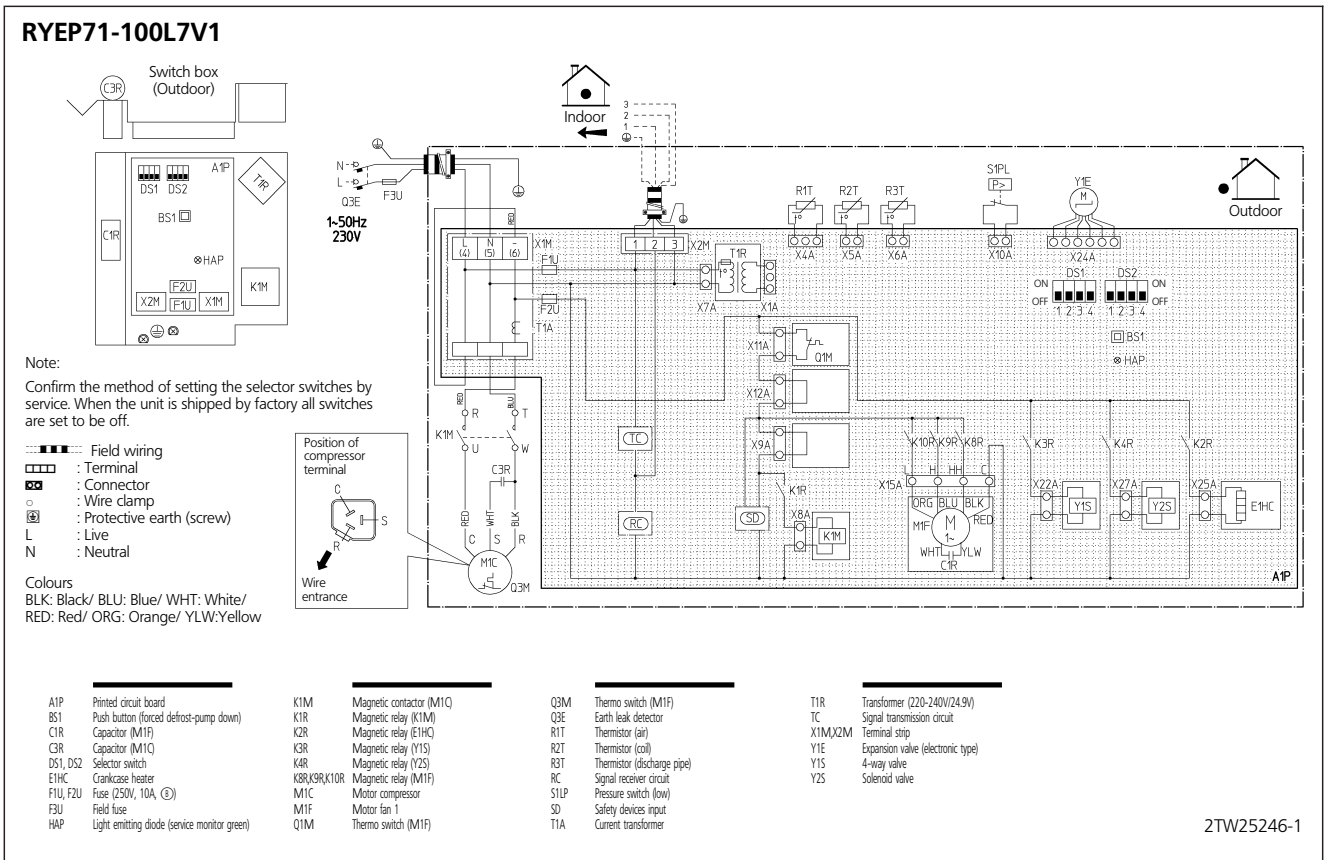
- ↔ Check valve
- ↔ Flare connection
- Screw connection
- Flange connection
- ✗ Pinched pipe
- Spinned pipe

3TW25155-1

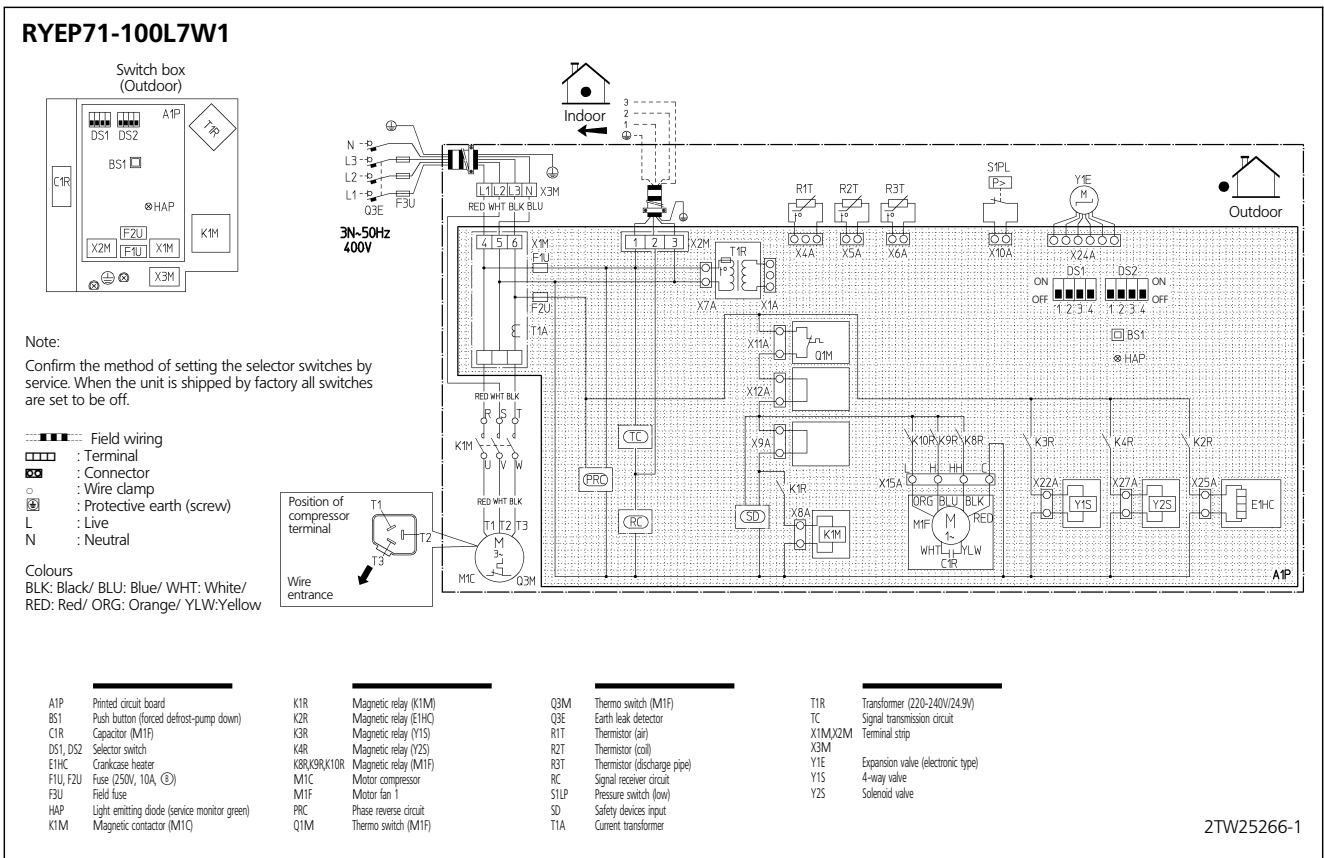
# 7 Wiring diagrams



7



2TW25246-1



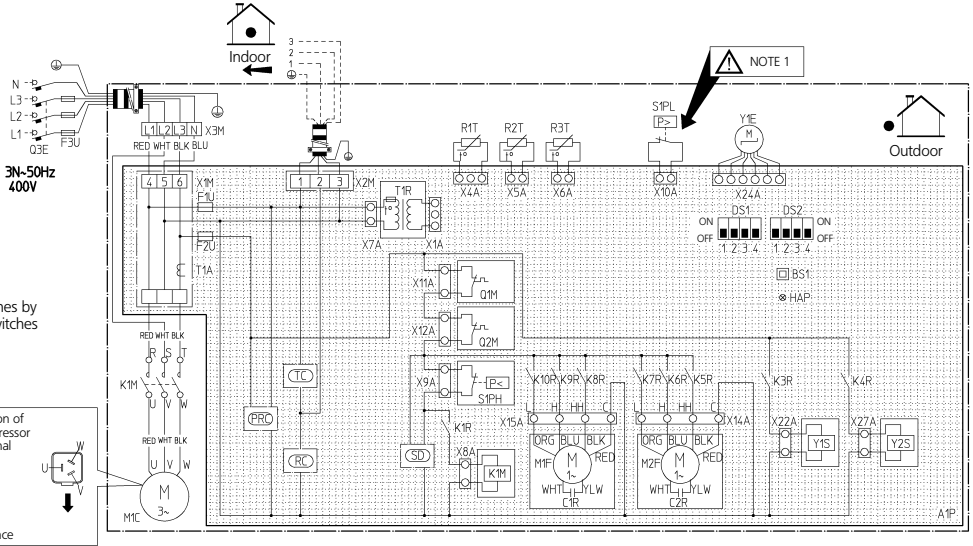
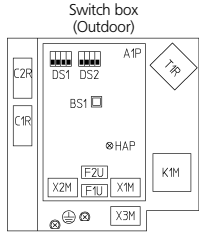
2TW25266-1

# 7 Wiring diagrams



7

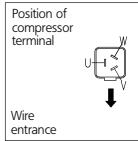
## RYEP125L7W1



Note:  
Confirm the method of setting the selector switches by service. When the unit is shipped by factory all switches are set to be off.

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

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



- A1P Printed circuit board
- BS1 Push button (forced defrost-pump down)
- C1R Capacitor (M1R)
- C2R Capacitor (M2R)
- DS1, DS2 Selector switch
- F1U, F2U Fuse (250V, 10A, ☉)
- F3U Field fuse
- HAP Light emitting diode (service monitor green)
- K1M Magnetic contactor (M1C)

- K1R Magnetic relay (K1M)
- K3R Magnetic relay (Y1S)
- K4R Magnetic relay (Y2S)
- K5R, K6R, K7R Magnetic relay (M2F)
- K8R, K9R, K10R Magnetic relay (M1F)
- M1C Motor compressor
- M1F Motor fan 1
- M2F Motor fan 2
- PRC Phase reverse circuit

- Q1M Thermo switch (M1F)
- Q2M Thermo switch (M2F)
- Q3E Earth leak detector
- R1T Thermistor (air)
- R2T Thermistor (coil)
- R3T Thermistor (discharge pipe)
- RC Signal receiver circuit
- S1PH Pressure switch (high)
- S1LP Pressure switch (low)

- SD Safety devices input
- T1A Current transformer
- T1R Transformer (220-240V/24.9V)
- TC Signal transmission circuit
- X1M, X2M Terminal strip
- X3M Expansion valve (electronic type)
- Y1E 4-way valve
- Y1S 4-way valve
- Y2S Solenoid valve

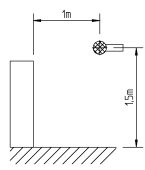
2TW25196-1



# 8 Sound level

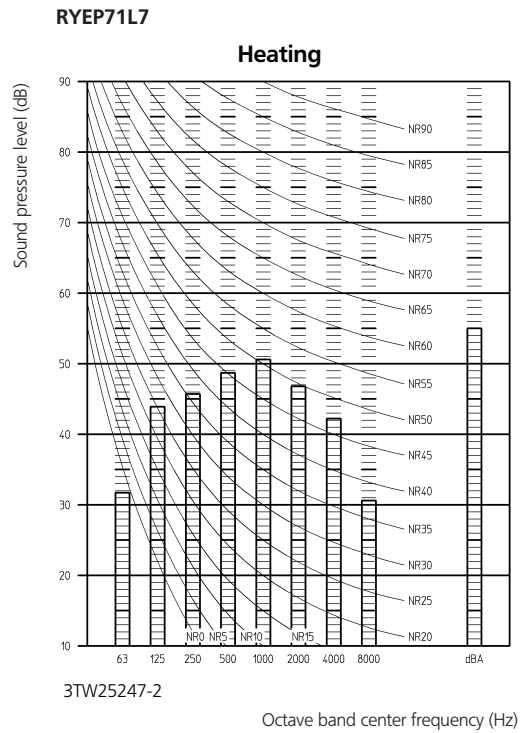
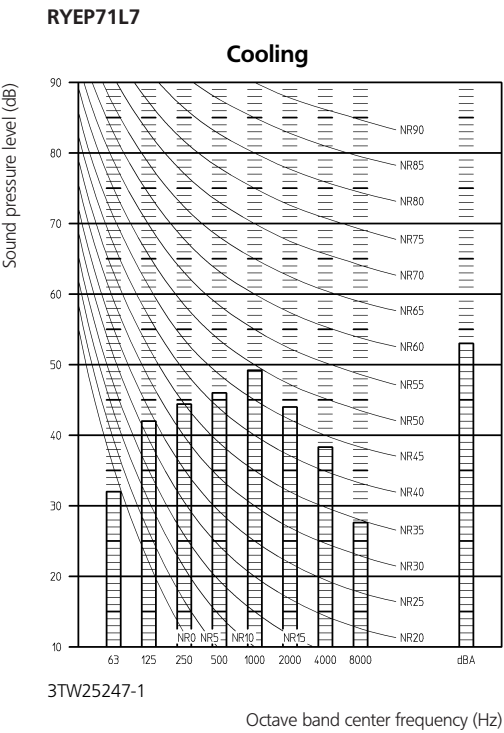
## 8-1 Sound level data



Model	Sound pressure level		Measuring location 	Sound power (H) (cooling)
	230V, 50Hz			
	H (cooling)	H (heating)		
RYEP71L7	53	55		54
RYEP100L7	57	59		70
RYEP125L7	57	59		70

8  
8-1

## 8-2 Sound pressure spectrum



### NOTES

- 1 Data is valid at free field condition
- 2 Data is valid at nominal conditions.
- 3 dBA = A-weighted sound pressure level (A-scale according to IEC)
- 4 Reference acoustic pressure 0dB = 20μPa

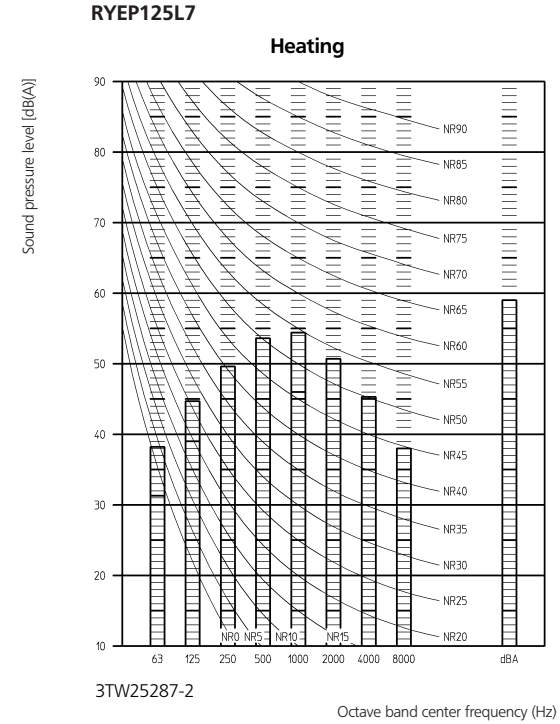
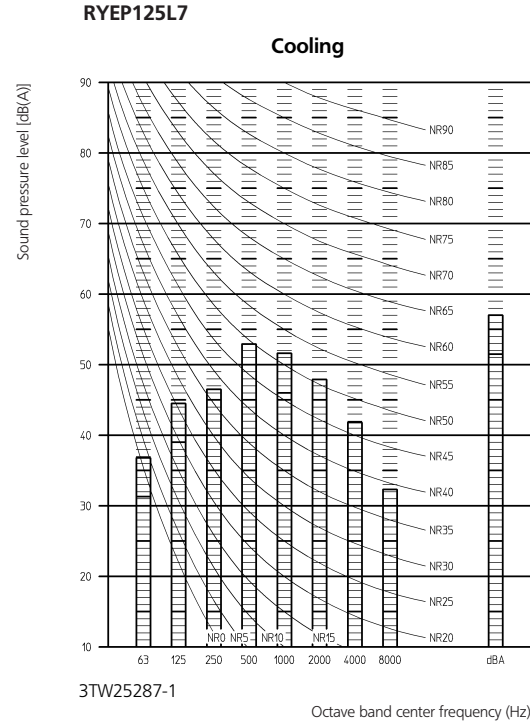
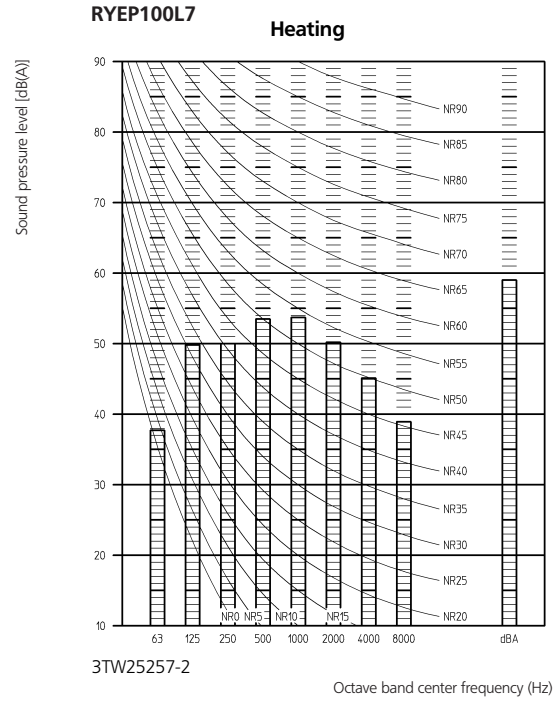
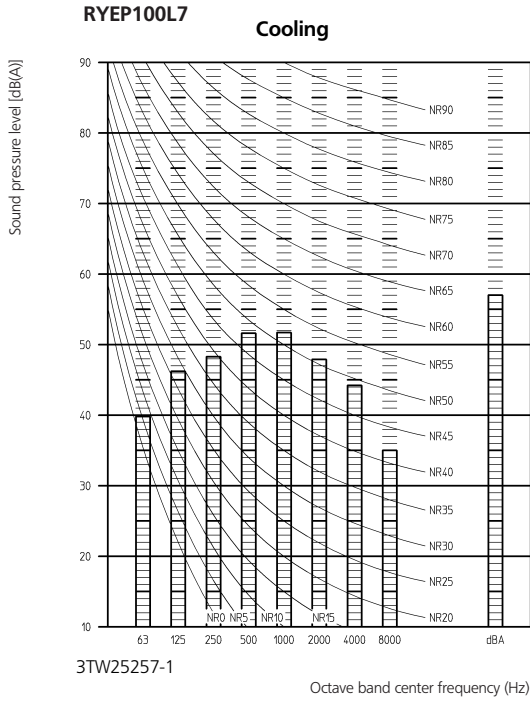
# 8 Sound level

## 8-2 Sound pressure spectrum



8

8-2

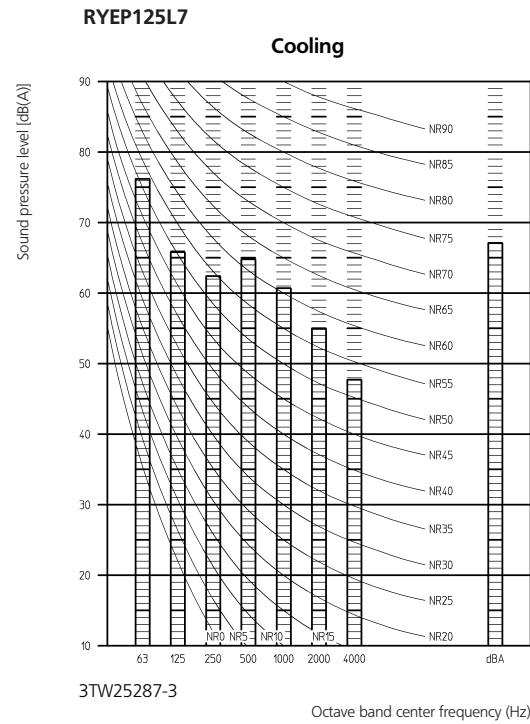
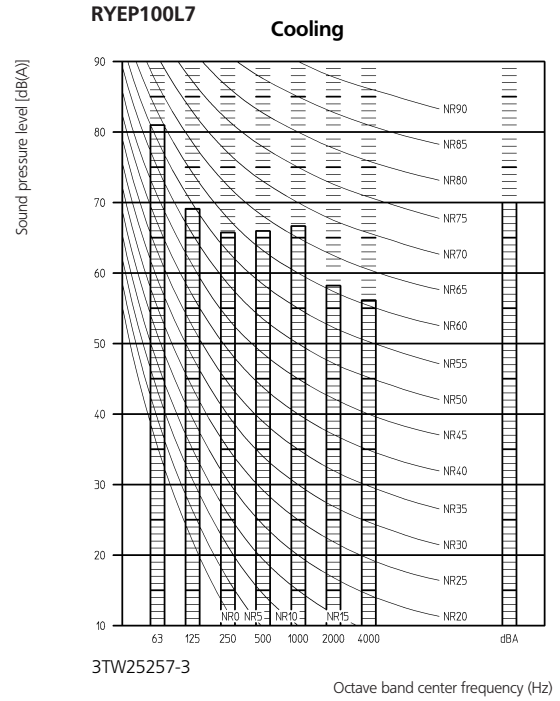
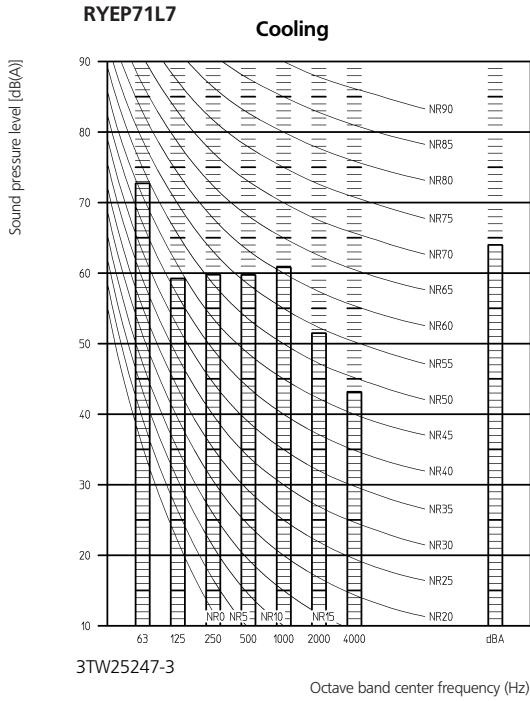
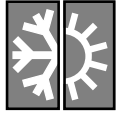


**NOTES**

- 1 Data is valid at free field condition
- 2 Data is valid at nominal conditions.
- 3 dBA = A-weighted sound pressure level (A-scale according to IEC)
- 4 Reference acoustic pressure 0dB = 20μPa

# 8 Sound level

## 8-3 Sound power spectrum



### NOTES

- 1 Data is valid at free field condition
- 2 Data is valid at nominal conditions.
- 3 dBA = A-weighted sound pressure level (A-scale according to IEC)
- 4 Reference acoustic pressure 0dB = 20μPa



# 9 Accessories

## 9-1 Optional accessories

### 9 Available options for RYEP71-125L7V1,W1

9-1

Name of option		RYEP71L	RYEP100L	RYEP125L
Central drain plug			KKPJ5F180	
Refrigerant branch piping	Twin		KHRP79BA7	
	Triple	~	KHRP96H7	

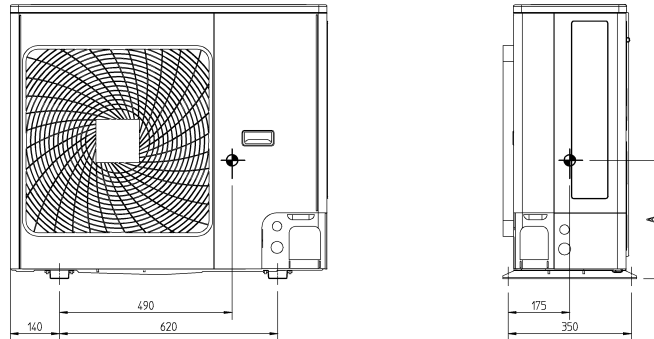
3TW25149-1

# 10 Centre of gravity



## RYEP71L7V1/W1

10

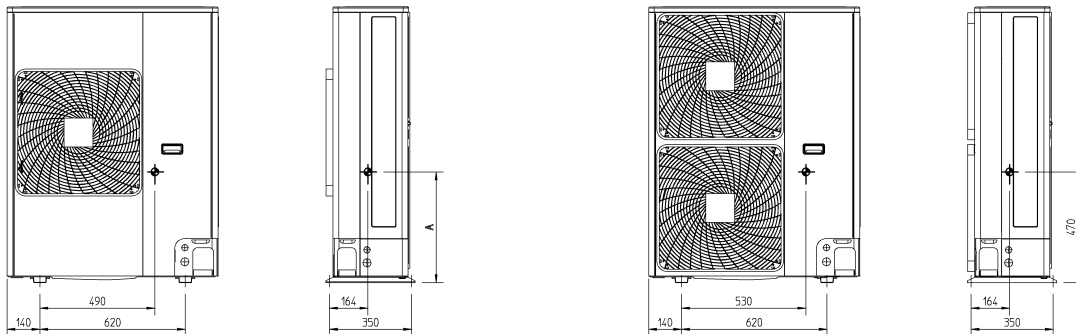


Model	A
RYEP71L7	350

3TW25149-5

## RYEP100L7V1/W1

## RYEP125L7W1



Model	A
RYEP100-125L7	470

3TW25159-5

# 11 Safety device settings

Safety device	Model	RYEP71L7	RYEP100L7	RYEP125L7
Fan motor thermal protector			Off 135 ±5°C On 95 ±15°C	
HPS				Off 3.30 ± 0.1 Mpa On 2.55 ± 0.15 Mpa
LPS			Off -0.03 ± 0.02 Mpa On 0.05 ± 0.02 Mpa	
Max discharge temperature			By thermistor and software control	
Overcurrent relay			By TC on PCB and software control	

4TW25141-2

# 12 Installation



## 12 A. Non stacked installation

	←	→	↖	↗		A	B1	B2	C	D1	D2	E	L1/L2	
	✓					≥50(100)								
	✓		✓	✓		≥100	≥100	≥100						
	✓				✓	≥100					≤500	≥1000		
	✓		✓	✓	✓	≥150	≥150		≥150		≤500	≥1000		
		✓									≥500			
		✓									≥500		≥1000	
		✓	✓			L1<L2	≥50(100)				≥500			
		✓	✓			L2<L1	≥50(100)				≥500			
		✓	✓			L1<L2	L1≤H	≥150(250)	≤500		≥1000	≥1000	0<L1≤1/2H	0<L1≤1/2H
		✓	✓			L2<L1	L2≤H	≥50(100)		≥1000	≥500	≥1000	0<L2≤1/2H	1/2H<L2≤H
	✓		✓	✓		≥200	≥200(300)		≥1000					
	✓		✓	✓	✓	≥200	≥200(300)		≥1000		≤500	≥1000		
		✓									≤500	≥1000		
		✓				L1<L2	≥200(300)			≥1000				
		✓	✓			L2<L1	≥150(250)		≥1000				0<L2≤1/2H	
		✓	✓			L2<L1	≥200(300)		≥1000				1/2H<L2≤H	
		✓	✓			L1<L2	L1≤H	≥200(300)	≤500	≥1000	≥1000	≥1000	0<L1≤1/2H	1/2H<L1≤H
		✓	✓			L2<L1	L2≤H	≥150(250)		≥1000	≤500	≥1000	0<L2≤1/2H	1/2H<L2≤H
		✓	✓			L2<L1	L2≤H	≥200(300)		≥1000	≤500	≥1000	0<L2≤1/2H	1/2H<L2≤H
		✓	✓			L2<L1	L2≤H	≥200(300)		≥1000	≤500	≥1000	0<L2≤1/2H	1/2H<L2≤H

Legend

- ← Suction side obstacle
- Discharge side obstacle
- ↖ Left side obstacle
- ↗ Right side obstacle
- ↕ Top side obstacle
- ✓ Obstacle is present

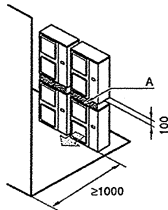
**1** In these cases, close the bottom of the installation frame to prevent discharged air from being bypassed.

**2** In these cases, only 2 units can be installed.

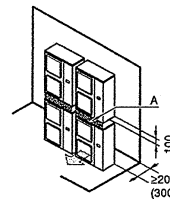
This situation is not allowed.

## B. Stacked installation

### 1. Obstacles exist in front of the outlet side



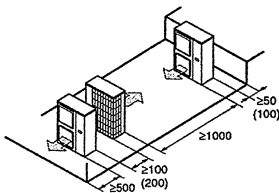
### 2. Obstacles exist in front of the air inlet



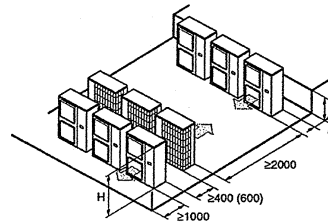
Do not stack more than one unit  
About 100mm is required as the dimension for laying the upper outdoor unit's drain pipe  
Get the portion A sealed so that air from the outlet does not bypass

## C. Multiple-row installation

### 1. Installation of one unit per row



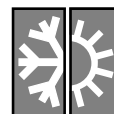
### 2. Installing multiple units (2 units or more) in lateral connection per row



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

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

# 12 Installation



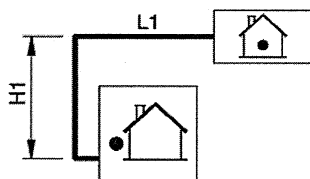
## Charging refrigerant

This unit requires additional charging of refrigerant according to the length of pipe connected at the site. Charge the refrigerant to the liquid pipe in its liquid state. Since R-407C is a mixed refrigerant, its composition changes if charged in a state of gas and normal system operation would no longer be assured.

On this model it is not necessary to charge additionally if the piping length  $\leq 5$ m.

Piping length is the 1 way length, gas or liquid.

Over 7.5m or for complete recharging, please charge based as shown below, where the pipe length is L1.



## Additional charging of refrigerant

Over 7.5m please, add refrigerant quantity according to following table.

For future servicing, mark with a circle the selected amount on the tables below.

## Pair system

Table 1: Additional charging amount <unit: kg>

Model	Piping length		
	7.5~30m	30~40m	40~50m
71	+0.60	+1.1	+1.60
100	+0.20	+0.95	+1.70
125	+0.20	0.95	+1.70

In case of complete recharge of the refrigerant, please first execute vacuuming. Execute this vacuuming from the service port. Do not use the port of the stop valve for vacuuming. Vacuuming can not be executed completely using such port.

Position of service port:

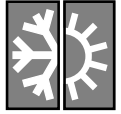
Heat pump: On the piping between the heat exchanger and the 4 way valve.

Cooling only: On the discharge pipe.

## Complete charging of the refrigerant (after a leak, etc.)

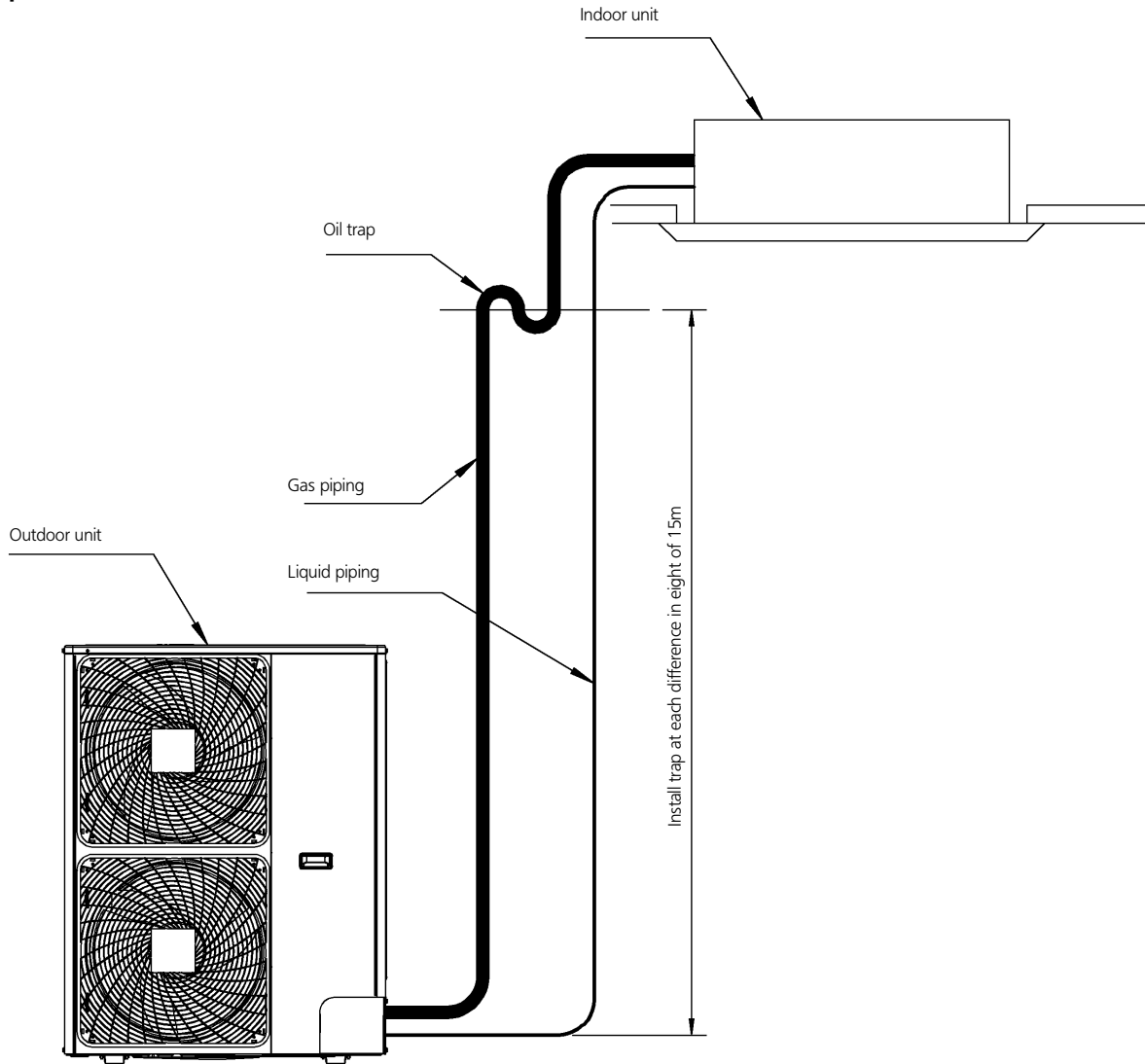
When the entire refrigerant pipe length is within 7.5 meters, charge the refrigerant in accordance with the amount mentioned in the nameplate, and when the pipe length exceeds 7.5 meters, the charging amount mentioned in the nameplate and that required for additional charging are to be totalled as the net charging amount.

# 12 Installation



## 12 RYEP71-125L7

### Oil trap



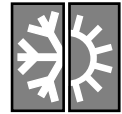
**NOTE:**

Since there is fear of the oil held inside the riser piping flowing back into the compressor when stopped and causing liquid compression phenomenon, or cases of deterioration of oil return, it will be necessary to provide a trap at an appropriate place in

A trap is not necessary when the outdoor unit is installed in a higher position than the indoor unit.



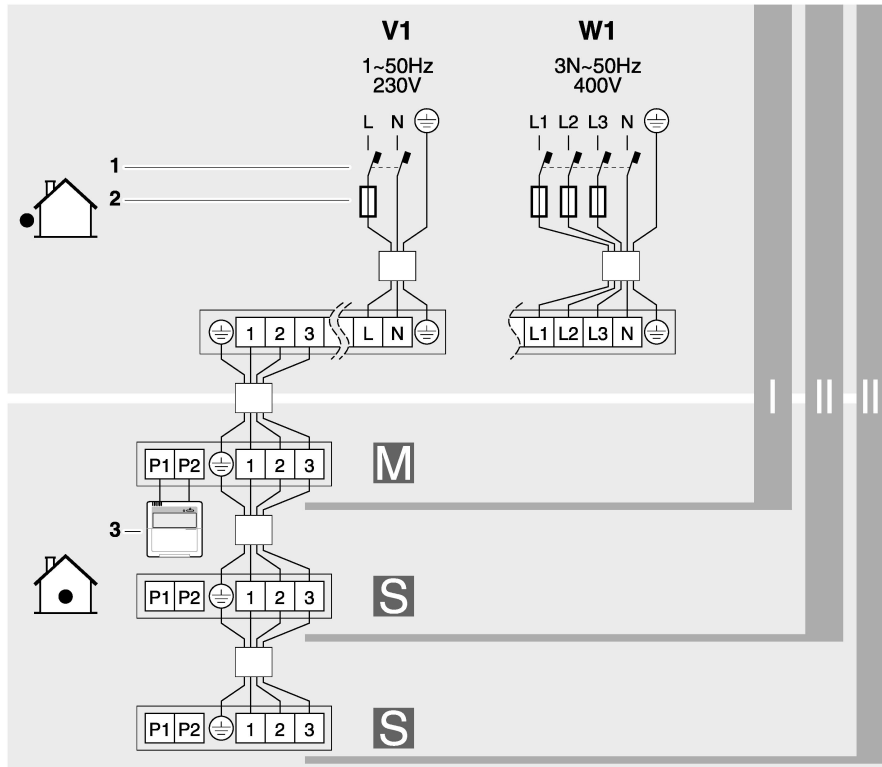
# 12 Installation



RYEP71-125L7

12

Field wire



4TW25149-6

Symbol explication

- I = Pair
- II = Twin
- III = Triple
- M = Master
- S = Slave
- 1 = Earth leak detector
- 2 = Fuse
- 3 = Remote controller