



technical data

REQ-B8V3B_REQ-B8W1B

Pair Application

air conditioning systems

Split
Sky Air

R-410A

Split - Sky Air

In all of us,
a green heart



Daikin's unique position as a manufacturer of air conditioning equipment, compressors and refrigerants has led to its close involvement in environmental issues. For several years Daikin has had the intention to become a leader in the provision of products that have limited impact on the environment. This challenge demands the eco design and development of a wide range of products and an energy management system, resulting in energy conservation and a reduction of waste.



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



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

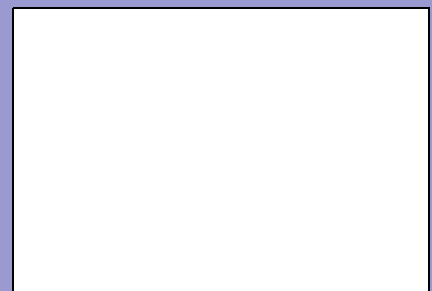


Daikin units comply with the European regulations that guarantee the safety of the product.



Daikin Europe N.V. participates in the Eurovent Certification Programme for Air Conditioners (AC), Liquid Chilling Packages (LCP) and Fan Coil units (FC); the certified data of certified models are listed in the Eurovent Directory.

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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.
- Outdoor units 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.
- A special acryl precoated fin for anti-corrosion treatment on the heat exchanger ensures greater resistance against severe weather conditions



2 Specifications

2-1 NOMINAL CAPACITY AND NOMINAL INPUT				REQ71B8V3B	REQ71B8W1B	REQ100B8V3B	REQ100B8W1B	REQ125B8W1B
For combination indoor units + outdoor units	Indoor Units			FDEQ71B8V3B	FDEQ71B8V3B	FDEQ100B8V3B	FDEQ100B8V3B	FDEQ125B8V3B
	Nominal Capacity	Cooling	Standard kW	7.1	7.1	9.8	9.8	12.5
	Heating	Standard kW	8	8	11.2	11.2	14.5	
Nominal input	Cooling	Standard kW	2.79	2.68	3.98	3.94	4.67	
	Heating	Standard kW	2.49	2.49	3.99	3.96	4.52	
For combination indoor units + outdoor units	EER	Cooling	2.54	2.65	2.46	2.49	2.68	
	COP	Heating	3.21	3.21	2.81	2.83	3.23	
	Energy Labeling Directive	Cooling	E	D	E	E	D	
		Heating	C	C	D	D	C	
	Annual energy consumption kWh		1395	1340	1990	1970	2335	
	Indoor Units			FCQ71C7VEB	FCQ71C7VEB	FCQ100C7VEB	FCQ100C7VEB	FCQ125C7VEB
Nominal Capacity	Cooling	Standard kW	7.1	7.1	10	10	12.5	
	Heating	Standard kW	8	8	11.2	11.2	14.6	
Nominal input	Cooling	Standard kW	2.79	2.66	3.83	3.56	4.66	
	Heating	Standard kW	2.49	2.80	3.75	3.66	5.06	
For combination indoor units + outdoor units	EER	Cooling	2.54	2.67	2.61	2.81	2.68	
	COP	Heating	3.21	2.86	2.99	3.06	2.89	
	Energy Labeling Directive	Cooling	E	D	D	C	D	
		Heating	C	C	D			
	Annual energy consumption kWh		1360	1330	1915	1780	2330	
	Indoor Units			FBQ71B8V3B	FBQ71B8V3B	FBQ100B8V3B	FBQ100B8V3B	FBQ125B8V3B
Nominal Capacity	Cooling	Standard kW	7.1	7.1	10	10	12.2	
	Heating	Standard kW	8	8	11.2	11.2	14.5	
Nominal input	Cooling	Standard kW	2.79	2.68	3.79	3.6	4.67	
	Heating	Standard kW	2.49	2.49	3.91	3.87	4.52	
For combination indoor units + outdoor units	EER	Cooling	2.54	2.65	2.64	2.78	2.61	
	COP	Heating	3.21	3.21	2.86	2.89	3.21	
	Energy Labeling Directive	Cooling	E	D	D	D	D	
		Heating	C	C	D	D	C	
	Annual energy consumption kWh		1395	1340	1895	1800	2335	
	Indoor Units			FHQ71BVV1B	FHQ71BVV1B	FHQ100BVV1B	FHQ100BVV1B	FHQ125BVV1B
Nominal Capacity	Cooling	Standard kW	7.1	7.1	9.8	9.8	12.2	
	Heating	Standard kW	8	8	11.2	11.2	14.5	
Nominal input	Cooling	Standard kW	2.7	2.65	3.75	3.68	4.51	
	Heating	Standard kW	2.85	2.8	4.13	4.01	5.16	
For combination indoor units + outdoor units	EER	Cooling	2.63	2.68	2.61	2.66	2.71	
	COP	Heating	2.81	2.86	2.71	2.79	2.81	
	Energy Labeling Directive	Cooling	D					
		Heating	D	D	E	E	D	
	Annual energy consumption kWh		1350	1325	1875	1840	2255	

2-2 TECHNICAL SPECIFICATIONS				REQ71B8V3B	REQ71B8W1B	REQ100B8V3B	REQ100B8W1B	REQ125B8W1B
Casing	Colour			Daikin White				
	Material			Painted galvanized steel plate				
Dimensions	Unit	Height	mm	770	770	1170	1170	1170
		Width	mm	900	900	900	900	900
		Depth	mm	320	320	320	320	320
	Packing	Height	mm	900	900	1300	1300	1300
		Width	mm	980	980	980	980	980
		Depth	mm	420	420	420	420	420
Weight	Unit		kg	83	83	102	100	108
	Packed Unit		kg	87	87	107	105	113

2 Specifications

2-2 TECHNICAL SPECIFICATIONS				REQ71B8V3B	REQ71B8W1B	REQ100B8V3B	REQ100B8W1B	REQ125B8W1B	
Heat Exchanger	Dimensions	Length	mm	857	857	857	857	857	
		Nr of Rows		2	2	2	2	2	
		Fin Pitch	mm	2.00	2.00	2.00	2.00	2.00	
		Nr of Passes		6	6	10	10	10	
		Face Area	m ²	0.641	0.641	0.980	0.980	0.980	
		Nr of Stages		34	34	52	52	52	
	Tube type		Hi-XSS cooling tube						
Fin	Type		Non-symmetric waffle louver						
	Treatment		Anti-corrosion treatment (PE)						
Fan	Type		Direct Drive Propeller						
	Discharge direction		Horizontal						
	Quantity		1	1	1	1	2		
	Air Flow Rate (nominal at 230V)	Cooling	m ³ /min	48.0	48.0	55.0	55.0	89.0	
		Heating	m ³ /min	43.0	43.0	50.0	50.0	80.0	
	Motor	Quantity		1	1	1	1	1	
Model		P47L11S							
Position						Lower			
Motor	Speed (nominal)	Steps		3	3	3	3	3	
Fan	Motor	Output	W	65	65	90	90	85	
		Position						Upper	
Motor	Speed (nominal)	Steps						3	
Fan	Motor	Output	W					65	
Compressor	Quantity		1	1	1	1	1		
	Motor	Model		JT90G-P4V1N@S	JT90G-YE	JT125G-P4V1@S	JT125G-YE	JT160G-YE	
		Type		Hermetically sealed scroll compressor					
		Motor Output	W	2200	2200	3000	3000	3750	
	Crankcase Heater	W	33	33	33	33	33		
Operation Range	Cooling	Min	°CDB	10.0	10.0	10.0	10.0	10.0	
		Max	°CDB	46.0	46.0	46.0	46.0	46.0	
	Heating	Min	°CWB	-10	-10	-10	-10	-10	
		Max	°CWB	15	15	15	15	15	
Sound Level (nominal)	Cooling	Sound Power	dB(A)	65.0	65.0	70.0	70.0	70.0	
		Sound Pressure	dB(A)	53.0	53.0	57.0	57.0	57.0	
Refrigerant	Type		R-410A						
	Charge	kg	2.5	2.5	3.6	3.6	3.6		
	Control		Expansion valve (electronic type)						
	Nr of Circuits		1	1	1	1	1		
Refrigerant Oil	Type		Daphne FVC68D						
	Charged Volume	l	1.5	1.5	1.5	1.5	1.5		

2 Specifications

2-2 TECHNICAL SPECIFICATIONS			REQ71B8V3B	REQ71B8W1B	REQ100B8V3B	REQ100B8W1B	REQ125B8W1B	
Piping connections	Liquid (OD)	Quantity	1	1	1	1	1	
		Type	Flare connection					
		Diameter (OD) mm	9.52	9.52	9.52	9.52	9.52	
	Gas	Quantity	1	1	1	1	1	
		Type	Flare connection					
		Diameter (OD) mm	15.9	15.9	15.9	15.9	15.9	
	Drain	Quantity	3	3	3	3	3	
		Type	Hole					
		Diameter (OD) mm	26	26	26	26	26	
	Piping Length	Minimum	m	5	5	5	5	5
		Maximum	m	50	50	50	50	50
		Equivalent	m	70	70	70	70	70
		Chargeless	m	7.5	7.5	7.5	7.5	7.5
Installation height difference	Maximum	m	30.0	30.0	30.0	30.0	30.0	
	Max. internunit level difference	m	0.5	0.5	0.5	0.5	0.5	
Heat Insulation		Both liquid and gas pipes						
Defrost Method		Reversed cycle						
Defrost Control		Sensor for outdoor heat exchanger temperature						
Capacity Control Method		None						
Safety Devices		Reverse phase protector						
		PC board fuse						
		Overcurrent relay (compressor)						
		Low pressure switch						
		High pressure switch						
		Fan motor thermal protector						
Standard Accessories	Item	Declaration of conformity						
	Quantity	1	1	1	1	1		
	Item	Installation manual						
Quantity	1	1	1	1	1			
Notes		Sound pressure level is a relative value, depending on the distance and acoustic environment. For more details, please refer to sound level drawings of this chapter.						
		The sound power level is an absolute value indicating the power which a sound source generates.						
		Sound values are measured in a semi-anechoic room.						
		In case of drain piping for outdoor unit, drain piping kit (option) is needed.						
		Nominal cooling capacities are based on : indoor temperature : 27°CDB, 19°CWB, outdoor temperature : 35°CDB, equivalent refrigerant piping : 7.5m, level difference : 0m.						
		Nominal heating capacities are based on : indoor temperature : 20°CDB, outdoor temperature : 7°CDB, 6°CWB, equivalent refrigerant piping : 7.5m, level difference : 0m						

2-3 ELECTRICAL SPECIFICATIONS			REQ71B8V3B	REQ71B8W1B	REQ100B8V3B	REQ100B8W1B	REQ125B8W1B
Power Supply	Name		V3	W1	V3	W1	W1
	Phase		1	3N	1	3N	3N
	Frequency	Hz	50	50	50	50	50
	Voltage	V	230	400	230	400	400
	Voltage range	Minimum	V	-10%			
		Maximum	V	+10%			
Current	Recommended fuses	A	32	16	40	16	20
Wiring connections	For Power Supply	Quantity	1	1	1	1	1
		Remark	3 wires (earth wire included)	5 wires (earth wire included)	3 wires (earth wire included)	5 wires (earth wire included)	5 wires (earth wire included)
	For connection with indoor	Quantity	1	1	1	1	1
		Remark	4 wires (earth wire included)				
Power Supply Intake		Outdoor unit only					

3 Electrical data

Unit combination		Power supply					Compressor		OFM		IFM	
Indoor unit	Outdoor unit	Hz-Volts	Voltage range	MCA	TOCA	MFA	LRA	RLA	kW	FLA	kW	FLA
FCQ71B	REQ71B8V3B	50-230	Max. 50Hz-253V Min. 50Hz-207V	16.6	23.3	32	75.5	12.2	0.065	0.6	0.045	0.7
FCQ71C	REQ71B8V3B	50-230		16.4	23.1	32	75.5	12.2	0.065	0.6	0.065	0.5
FHQ71	REQ71B8V3B	50-230		16.8	23.2	32	75.5	12.5	0.065	0.6	0.062	0.6
FBQ71	REQ71B8V3B	50-230		17.4	23.5	32	75.5	12.7	0.065	0.6	0.125	0.9
FDEQ71	REQ71B8V3B	50-230		15.4	23.5	32	75.5	11.1	0.065	0.6	0.125	0.9
FCQ71B	REQ71B8W1B	50-400	Max. 50Hz-440V Min. 50Hz-360V	7.3	11.3	16	41.1	4.8	0.065	0.6	0.045	0.7
FCQ71C	REQ71B8W1B	50-400		7.1	11.1	16	41.1	4.8	0.065	0.6	0.065	0.5
FHQ71	REQ71B8W1B	50-400		7.5	11.2	16	41.1	5.0	0.065	0.6	0.062	0.6
FBQ71	REQ71B8W1B	50-400		8.1	11.5	16	41.1	5.3	0.065	0.6	0.125	0.9
FDEQ71	REQ71B8W1B	50-400		6.8	11.5	16	41.1	4.2	0.065	0.6	0.125	0.9

3TW26599-9A

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/19.0°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
 $MCA = 1.25 \times RLA + \text{all FLA}$, $MFA = < 2.25 \times RLA + \text{all FLA}$ (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
8. For more details concerning conditional connections, see <http://www.daikineurope.com/extranet>, select "Daikin Documentation" and select "conditional connection", "the requested product type" and "English" from the drop down lists, click the search button.
Finally, click on the document title of your choice.

3 Electrical data

Unit combination		Power supply					Compressor		OFM		IFM	
Indoor unit	Outdoor unit	Hz-Volts	Voltage range	MCA	TOCA	MFA	LRA	RLA	kW	FLA	kW	FLA
FCQ100B	REQ100B8V3B	50-230	Max. 50Hz-253V Min. 50Hz-207V	23.8	34.8	40	98.5	17.6	0.090	0.8	0.090	1.0
FCQ100C	REQ100B8V3B	50-230		23.5	34.5	40	98.5	17.6	0.090	0.8	0.120	0.7
FHQ100	REQ100B8V3B	50-230		25.3	34.5	40	98.5	19.0	0.090	0.8	0.130	0.7
FBQ100	REQ100B8V3B	50-230		23.2	34.8	40	98.5	17.1	0.090	0.8	0.135	1.0
FDEQ100	REQ100B8V3B	50-230		24.2	34.8	40	98.5	17.9	0.090	0.8	0.135	1.0
FCQ100B	REQ100B8W1B	50-400	Max. 50Hz-440V Min. 50Hz-360V	9.2	11.8	16	48.2	4.8	0.090	0.8	0.090	1.0
FCQ100C	REQ100B8W1B	50-400		8.9	11.5	16	48.2	4.8	0.090	0.8	0.120	0.7
FHQ100	REQ100B8W1B	50-400		9.4	11.5	16	48.2	5.0	0.090	0.8	0.130	0.7
FBQ100	REQ100B8W1B	50-400		8.9	11.8	16	48.2	5.3	0.090	0.8	0.135	1.0
FDEQ100	REQ100B8W1B	50-400		9.6	11.8	16	48.2	4.2	0.090	0.8	0.135	1.0

3TW26619-9A

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/19.0°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
 $MCA = 1.25 \times RLA + \text{all FLA}$, $MFA = < 2.25 \times RLA + \text{all FLA}$ (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
8. For more details concerning conditional connections, see <http://www.daikineurope.com/extranet>, select "Daikin Documentation" and select "conditional connection", "the requested product type" and "English" from the drop down lists, click the search button.
Finally, click on the document title of your choice.

3 Electrical data

Unit combination		Power supply					Compressor		OFM		IFM	
Indoor unit	Outdoor unit	Hz-Volts	Voltage range	MCA	TOCA	MFA	LRA	RLA	kW	FLA	kW	FLA
FCQ125B	REQ125B8V3B	50-400	Max. 50Hz-400V Min. 50Hz-360V	12.4	15.3	20	63	8.1	0.065 +0.085	0.6+0.7	0.09	1.0
FCQ125C	REQ125B8V3B	50-400		12.4	15.3	20	63	8.1	0.065 +0.085	0.6+0.7	0.12	1.0
FHQ125	REQ125B8V3B	50-400		12.3	15.0	20	63	8.2	0.065 +0.085	0.6+0.7	0.13	0.7
FBQ125	REQ125B8V3B	50-400		12.2	15.7	20	63	7.6	0.065 +0.085	0.6+0.7	0.225	1.4
FDEQ125	REQ125B8V3B	50-400		12.6	15.7	20	63	7.9	0.065 +0.085	0.6+0.7	0.225	1.4

3TW26639-9A

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/19.0°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
 $MCA = 1.25 \times RLA + \text{all FLA}$, $MFA = < 2.25 \times RLA + \text{all FLA}$ (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
8. For more details concerning conditional connections, see <http://www.daikineurope.com/extranet>, select "Daikin Documentation" and select "conditional connection", "the requested product type" and "English" from the drop down lists, click the search button.
 Finally, click on the document title of your choice.

4 Safety device settings

REQ71~ 125B

Safety device	Model	REQ71BV3	REQ100BV3	REQ125BW1
		REQ71BW1	REQ100BW1	
Fan motor thermal protector		Off 135 ±5°C		
		On 95 ±15°C		
HPS		Off 4.15 $\begin{smallmatrix} +0 \\ -0.10 \end{smallmatrix}$ Mpa		
		On 3.2 $\begin{smallmatrix} +0.15 \\ -0.15 \end{smallmatrix}$ Mpa		
LPS		Off -0.03 $\begin{smallmatrix} +0.02 \\ -0.02 \end{smallmatrix}$ Mpa		
		On 0.05 $\begin{smallmatrix} +0.03 \\ -0.03 \end{smallmatrix}$ Mpa		
Max discharge temperature		By thermistor and software control		
Overcurrent relay		By overcurrent sensor and software control		

4TW26321-2B

5 Options

REQ71~125B

Name of option	Kit name		
	REQ71B	REQ100B	REQ125B
Central drain plug	KKPJ5F180		

4TW26599-1

6 Capacity tables

6 - 1 Cooling capacity tables

FHQ71-125B + REQ71-100BV3 REQ71-125BW1

Cooling capacity table

Outdoor	Indoor		Outdoor temp. (°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	1.90	6.1	4.7	2.06	5.7	4.6	2.31	5.5	4.5	2.47	5.3	4.4	2.72	4.8	4.0	2.97
	14.0	20.0	6.6	4.8	1.93	6.5	4.7	2.10	6.0	4.6	2.35	5.9	4.5	2.52	5.5	4.4	2.77	5.2	4.0	3.02
	16.0	22.0	7.2	4.9	1.96	7.0	4.8	2.13	6.5	4.7	2.39	6.3	4.6	2.56	6.0	4.5	2.82	5.4	4.1	3.07
	18.0	25.0	7.7	5.1	2.01	7.5	4.9	2.19	7.2	4.8	2.45	6.8	4.7	2.62	6.4	4.5	2.89	5.9	4.3	3.15
	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	6.1	4.4	3.18
	19.5	27.0	8.0	5.2	2.04	7.9	5.1	2.22	7.4	4.9	2.48	7.2	4.7	2.66	6.7	4.6	2.92	6.2	4.4	3.19
	22.0	30.0	8.7	5.3	2.08	8.5	5.2	2.26	8.0	5.1	2.53	7.9	4.8	2.71	7.4	4.7	2.98	6.7	4.4	3.25
24.0	32.0	9.4	5.3	2.10	9.1	5.2	2.28	8.6	5.1	2.56	8.4	4.9	2.74	8.0	4.7	3.01	7.3	4.4	3.29	
100	12.0	18.0	8.2	6.8	2.60	8.1	6.7	2.88	7.9	6.5	3.25	7.6	6.4	3.43	7.3	6.0	3.81	6.6	5.7	4.27
	14.0	20.0	8.7	6.8	2.65	8.6	6.7	2.93	8.5	6.5	3.31	8.2	6.4	3.50	7.6	6.0	3.87	7.2	5.7	4.35
	16.0	22.0	9.9	6.9	2.69	9.6	6.8	2.98	8.9	6.6	3.37	8.7	6.5	3.56	8.3	6.1	3.94	7.5	5.8	4.42
	18.0	25.0	10.6	7.2	2.76	10.3	7.1	3.05	9.6	6.7	3.45	9.4	6.6	3.64	8.8	6.4	4.04	8.1	5.9	4.53
	19.0	27.0	10.9	7.3	2.78	10.6	7.2	3.08	9.9	6.8	3.48	9.8	6.7	3.68	9.2	6.5	4.08	8.4	6.0	4.58
	19.5	27.0	11.0	7.3	2.79	10.8	7.2	3.09	10.1	6.8	3.49	9.9	6.7	3.69	9.3	6.5	4.09	8.5	6.0	4.59
	22.0	30.0	12.0	7.4	2.85	11.6	7.3	3.16	11.0	6.9	3.56	10.8	6.8	3.77	10.2	6.7	4.17	9.3	6.3	4.68
24.0	32.0	12.8	7.5	2.88	12.5	7.4	3.19	11.7	7.1	3.60	11.4	6.9	3.80	10.9	6.8	4.21	10.0	6.4	4.73	
125	12.0	18.0	11.1	9.1	3.39	10.8	8.8	3.57	10.0	8.3	3.93	9.7	8.2	4.21	9.2	8.0	4.67	8.5	7.5	5.12
	14.0	20.0	11.8	9.1	3.45	11.4	8.8	3.64	10.7	8.3	4.00	10.4	8.2	4.28	9.8	8.0	4.75	9.1	7.5	5.21
	16.0	22.0	12.7	9.2	3.51	12.1	8.9	3.70	11.4	8.4	4.07	11.1	8.3	4.36	10.4	8.1	4.84	9.6	7.6	5.31
	18.0	25.0	13.3	9.5	3.59	13.0	9.1	3.79	12.1	8.7	4.17	11.8	8.6	4.46	11.2	8.3	4.95	10.3	7.9	5.43
	19.0	27.0	13.6	9.6	3.63	13.3	9.1	3.83	12.7	8.8	4.21	12.2	8.6	4.51	11.5	8.4	5.00	10.7	8.0	5.49
	19.5	27.0	13.8	9.6	3.64	13.5	9.1	3.84	12.8	8.8	4.23	12.4	8.7	4.53	11.7	8.4	5.02	10.9	8.0	5.51
	22.0	30.0	15.1	9.7	3.71	14.6	9.4	3.92	13.7	9.0	4.31	13.4	8.9	4.62	12.9	8.7	5.12	11.9	8.2	5.62
24.0	32.0	15.9	9.8	3.75	15.5	9.5	3.96	14.6	9.1	4.35	14.3	9.0	4.66	13.6	8.8	5.17	12.8	8.5	5.67	

3TW26592-3

SYMBOLS

AFR:	Air flow rate	(m ³ /min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
DB*:	Dry bulb temp.	(°CDB)
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
V3: 230 V [50 Hz]
W1: 400 V [50 Hz]

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
SHC* = 0.29 x 60 x AFR (m³/min.) x (1-BF) x (DB*-EDB)/860
Add SHC* to SHC if SHC > TC, then TC equal SHC
- Direct interpolation is permissible. Do not extrapolate.
- Capacities are based on following conditions:
Corresponding refrigerant piping length : 7.5 m
Level difference : 0 m
- Air flow rate and BF are tabulated below.

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

- Add the following corrections to power input of each model.

Model	Supply	FHQ
71	V3	0.05
	W1	0
100	V3	0.07
	W1	0
125	V3	0
	W1	0

6 Capacity tables

6 - 1 Cooling capacity tables

Cooling capacity table
FCQ71-125C7VEB+ REQ71-100B8V3B
REQ71-125B8W1B

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	5.0	1.90	6.1	4.9	2.07	5.7	4.8	2.32	5.5	4.7	2.48	5.3	4.6	2.73	4.8	4.2	2.98
	14.0	20.0	6.6	5.0	1.94	6.5	4.9	2.11	6.0	4.8	2.36	5.9	4.7	2.53	5.5	4.6	2.78	5.2	4.2	3.03
	16.0	22.0	7.2	5.1	1.97	7.0	5.0	2.14	6.5	4.9	2.40	6.3	4.8	2.57	6.0	4.7	2.83	5.4	4.3	3.09
	18.0	25.0	7.7	5.3	2.02	7.5	5.1	2.19	7.2	5.0	2.46	6.8	4.9	2.63	6.4	4.7	2.90	5.9	4.5	3.16
	19.0	27.0	8.0	5.4	2.04	7.7	5.3	2.22	7.3	5.1	2.48	7.1	4.9	2.66	6.6	4.8	2.93	6.1	4.6	3.19
	19.5	27.0	8.0	5.4	2.05	7.9	5.3	2.22	7.4	5.1	2.49	7.2	4.9	2.67	6.7	4.8	2.94	6.2	4.6	3.20
	22.0	30.0	8.7	5.5	2.09	8.5	5.4	2.27	8.0	5.3	2.54	7.9	5.0	2.72	7.4	4.9	2.99	6.7	4.6	3.27
	24.0	32.0	9.4	5.5	2.11	9.1	5.4	2.29	8.6	5.3	2.57	8.4	5.1	2.75	8.0	4.9	3.02	7.3	4.6	3.30
100	12.0	18.0	8.4	7.5	2.51	8.3	7.4	2.78	8.1	7.2	3.14	7.8	7.1	3.32	7.5	6.7	3.68	6.8	6.4	4.13
	14.0	20.0	8.9	7.5	2.56	8.8	7.4	2.83	8.7	7.2	3.20	8.4	7.1	3.38	7.8	6.7	3.75	7.4	6.4	4.20
	16.0	22.0	10.1	7.6	2.60	9.8	7.5	2.88	9.1	7.3	3.26	8.9	7.2	3.44	8.5	6.8	3.81	7.7	6.5	4.28
	18.0	25.0	10.8	7.9	2.67	10.5	7.8	2.95	9.8	7.4	3.33	9.6	7.3	3.52	9.0	7.1	3.91	8.3	6.6	4.38
	19.0	27.0	11.1	8.0	2.69	10.8	7.9	2.98	10.1	7.5	3.37	10.0	7.4	3.56	9.4	7.2	3.94	8.6	6.7	4.43
	19.5	27.0	11.2	8.0	2.70	11.0	7.9	2.99	10.3	7.5	3.38	10.1	7.4	3.57	9.5	7.2	3.96	8.7	6.7	4.44
	22.0	30.0	12.2	8.1	2.76	11.8	8.0	3.05	11.2	7.6	3.45	11.0	7.5	3.64	10.4	7.4	4.04	9.5	7.0	4.53
	24.0	32.0	13.0	8.2	2.78	12.7	8.1	3.08	11.9	7.8	3.48	11.6	7.6	3.68	11.1	7.5	4.08	10.2	7.1	4.57
125	12.0	18.0	11.4	9.5	3.50	11.1	9.2	3.69	10.3	8.7	4.06	10.0	8.6	4.35	9.5	8.4	4.83	8.8	7.9	5.29
	14.0	20.0	12.1	9.5	3.56	11.7	9.2	3.76	11.0	8.7	4.14	10.7	8.6	4.43	10.1	8.4	4.91	9.4	7.9	5.39
	16.0	22.0	13.0	9.6	3.63	12.4	9.3	3.82	11.7	8.8	4.21	11.4	8.7	4.50	10.7	8.5	5.00	9.9	8.0	5.48
	18.0	25.0	13.6	9.9	3.71	13.3	9.5	3.92	12.4	9.1	4.31	12.1	9.0	4.61	11.5	8.7	5.12	10.6	8.3	5.61
	19.0	27.0	13.9	10.0	3.75	13.6	9.5	3.95	13.0	9.2	4.35	12.5	9.0	4.66	11.8	8.8	5.17	11.0	8.4	5.67
	19.5	27.0	14.1	10.0	3.76	13.8	9.5	3.97	13.1	9.2	4.37	12.7	9.1	4.68	12.0	8.8	5.19	11.2	8.4	5.69
	22.0	30.0	15.4	10.1	3.84	14.9	9.8	4.05	14.0	9.4	4.46	13.7	9.3	4.77	13.2	9.1	5.29	12.2	8.6	5.80
	24.0	32.0	16.2	10.2	3.88	15.8	9.9	4.09	14.9	9.5	4.50	14.6	9.4	4.82	13.9	9.2	5.34	13.1	8.9	5.86

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SYMBOLS

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

Caution

TC and SHC are shown by kW
 V3: 230V (50Hz)
 W1: 400V (50Hz)

NOTES

- Ratings shown are net capacities which include a deduction for indoor fan motor heat
-  Shows nominal capacities
- SHC is based on each EWB and EDB
 SHC* = SHC correction for other dry bulb
 = 0.29 x 60 x AFR [m³/min.] x (1-BF) x (DB*-EDB)/860
 Add SHC* to SHC if SHC > TC, then TC equal SHC
- Direct interpolation is permissible.
 Do not extrapolate.
- Capacities are based on following conditions:
 Corresponding refrigerant piping length: 5 m
 Level difference: 0 m
- Air flow rate (AFR) and Bypass factor (BF) are tabulated below.

Model		FBQ
71	AFR	15.5
	BF	0.19
100	AFR	23.5
	BF	0.16
125	AFR	27.5
	BF	0.19

- Add the following corrections to power input of each model.

Model	Supply	FBQ
71	V3	0.06
	W1	0
100	V3	0.27
	W1	0
125	W1	0

6 Capacity tables

6 - 1 Cooling capacity tables

FBQ71-125B + REQ71-100BV3 REQ71-125BW1

Cooling capacity table

Outdoor	Indoor		Outdoor temp. (°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	1.92	6.1	4.7	2.08	5.7	4.6	2.33	5.5	4.5	2.50	5.3	4.4	2.75	4.8	4.0	3.00
	14.0	20.0	6.6	4.8	1.95	6.5	4.7	2.12	6.0	4.6	2.38	5.9	4.5	2.55	5.5	4.4	2.80	5.2	4.0	3.06
	16.0	22.0	7.2	4.9	1.99	7.0	4.8	2.16	6.5	4.7	2.42	6.3	4.6	2.59	6.0	4.5	2.85	5.4	4.1	3.11
	18.0	25.0	7.7	5.1	2.03	7.5	4.9	2.21	7.2	4.8	2.48	6.8	4.7	2.65	6.4	4.5	2.92	5.9	4.3	3.18
	19.0	27.0	8.0	5.2	2.05	7.7	5.1	2.23	7.3	4.9	2.50	7.1	4.7	2.68	6.6	4.6	2.95	6.1	4.4	3.22
	19.5	27.0	8.0	5.2	2.06	7.9	5.1	2.24	7.4	4.9	2.51	7.2	4.7	2.69	6.7	4.6	2.96	6.2	4.4	3.23
	22.0	30.0	8.7	5.3	2.10	8.5	5.2	2.29	8.0	5.1	2.56	7.9	4.8	2.74	7.4	4.7	3.02	6.7	4.4	3.29
24.0	32.0	9.4	5.3	2.12	9.1	5.2	2.31	8.6	5.1	2.58	8.4	4.9	2.77	8.0	4.7	3.05	7.3	4.4	3.32	
100	12.0	18.0	8.4	7.0	2.54	8.3	6.9	2.82	8.1	6.7	3.18	7.8	6.6	3.36	7.5	6.2	3.72	6.8	5.9	4.18
	14.0	20.0	8.9	7.0	2.59	8.8	6.9	2.87	8.7	6.7	3.24	8.4	6.6	3.42	7.8	6.2	3.79	7.4	5.9	4.25
	16.0	22.0	10.1	7.1	2.63	9.8	7.0	2.92	9.1	6.8	3.29	8.9	6.7	3.48	8.5	6.3	3.86	7.7	6.0	4.33
	18.0	25.0	10.8	7.4	2.70	10.5	7.3	2.99	9.8	6.9	3.37	9.6	6.8	3.56	9.0	6.6	3.95	8.3	6.1	4.43
	19.0	27.0	11.1	7.5	2.72	10.8	7.4	3.02	10.1	7.0	3.41	10.0	6.9	3.60	9.4	6.7	3.99	8.6	6.2	4.48
	19.5	27.0	11.2	7.5	2.73	11.0	7.4	3.03	10.3	7.0	3.42	10.1	6.9	3.61	9.5	6.7	4.00	8.7	6.2	4.49
	22.0	30.0	12.2	7.6	2.79	11.8	7.5	3.09	11.2	7.1	3.48	11.0	7.0	3.68	10.4	6.9	4.08	9.5	6.5	4.58
24.0	32.0	13.0	7.7	2.82	12.7	7.6	3.12	11.9	7.3	3.52	11.6	7.1	3.72	11.1	7.0	4.12	10.2	6.6	4.62	
125	12.0	18.0	11.1	9.1	3.51	10.8	8.8	3.70	10.0	8.3	4.07	9.7	8.2	4.36	9.2	8.0	4.84	8.5	7.5	5.30
	14.0	20.0	11.8	9.1	3.57	11.4	8.8	3.77	10.7	8.3	4.14	10.4	8.2	4.44	9.8	8.0	4.92	9.1	7.5	5.40
	16.0	22.0	12.7	9.2	3.63	12.1	8.9	3.83	11.4	8.4	4.22	11.1	8.3	4.51	10.4	8.1	5.01	9.6	7.6	5.49
	18.0	25.0	13.3	9.5	3.72	13.0	9.1	3.92	12.1	8.7	4.32	11.8	8.6	4.62	11.2	8.3	5.13	10.3	7.9	5.63
	19.0	27.0	13.6	9.6	3.76	13.3	9.1	3.96	12.7	8.8	4.36	12.2	8.6	4.67	11.5	8.4	5.18	10.7	8.0	5.68
	19.5	27.0	13.8	9.6	3.77	13.5	9.1	3.98	12.8	8.8	4.38	12.4	8.7	4.69	11.7	8.4	5.20	10.9	8.0	5.70
	22.0	30.0	15.1	9.7	3.85	14.6	9.4	4.06	13.7	9.0	4.46	13.4	8.9	4.78	12.9	8.7	5.30	11.9	8.2	5.82
24.0	32.0	15.9	9.8	3.88	15.5	9.5	4.10	14.6	9.1	4.51	14.3	9.0	4.83	13.6	8.8	5.35	12.8	8.5	5.87	

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SYMBOLS

AFR:	Air flow rate	(m ³ /min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
DB*:	Dry bulb temp.	(°CDB)
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
V3: 230 V [50 Hz]
W1: 400 V [50 Hz]

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
SHC* = 0.29 x 60 x AFR (m³/min.) x (1-BF) x (DB*-EDB)/860
Add SHC* to SHC if SHC > TC, then TC equal SHC
- Direct interpolation is permissible. Do not extrapolate.
- Capacities are based on following conditions:
Corresponding refrigerant piping length : 7.5 m
Level difference : 0 m
- Air flow rate and BF are tabulated below.

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

- Add the following corrections to power input of each model.

Model	Supply	FBQ
71	V3	0.11
	W1	0
100	V3	0.19
	W1	0
125	V3	0
	W1	0

6 Capacity tables

6 - 1 Cooling capacity tables

FDEQ71-125B + REQ71-100BV3 REQ71-125BW1

Cooling capacity table

Outdoor	Indoor		Outdoor temp. (°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	1.92	6.1	4.7	2.08	5.7	4.6	2.33	5.5	4.5	2.50	5.3	4.4	2.75	4.8	4.0	3.00
	14.0	20.0	6.6	4.8	1.95	6.5	4.7	2.12	6.0	4.6	2.38	5.9	4.5	2.55	5.5	4.4	2.80	5.2	4.0	3.06
	16.0	22.0	7.2	4.9	1.99	7.0	4.8	2.16	6.5	4.7	2.42	6.3	4.6	2.59	6.0	4.5	2.85	5.4	4.1	3.11
	18.0	25.0	7.7	5.1	2.03	7.5	4.9	2.21	7.2	4.8	2.48	6.8	4.7	2.65	6.4	4.5	2.92	5.9	4.3	3.18
	19.0	27.0	8.0	5.2	2.05	7.7	5.1	2.23	7.3	4.9	2.50	7.1	4.7	2.68	6.6	4.6	2.95	6.1	4.4	3.22
	19.5	27.0	8.0	5.2	2.06	7.9	5.1	2.24	7.4	4.9	2.51	7.2	4.7	2.69	6.7	4.6	2.96	6.2	4.4	3.23
	22.0	30.0	8.7	5.3	2.10	8.5	5.2	2.29	8.0	5.1	2.56	7.9	4.8	2.74	7.4	4.7	3.02	6.7	4.4	3.29
24.0	32.0	9.4	5.3	2.12	9.1	5.2	2.31	8.6	5.1	2.58	8.4	4.9	2.77	8.0	4.7	3.05	7.3	4.4	3.32	
100	12.0	18.0	8.2	7.0	2.78	8.1	6.9	3.08	7.9	6.7	3.48	7.6	6.6	3.68	7.4	6.2	4.07	6.7	5.9	4.57
	14.0	20.0	8.7	7.0	2.83	8.6	6.9	3.14	8.5	6.7	3.54	8.2	6.6	3.74	7.6	6.2	4.15	7.3	5.9	4.65
	16.0	22.0	9.9	7.1	2.88	9.6	7.0	3.19	8.9	6.8	3.60	8.7	6.7	3.81	8.3	6.3	4.22	7.5	6.0	4.74
	18.0	25.0	10.6	7.4	2.95	10.3	7.3	3.27	9.6	6.9	3.69	9.4	6.8	3.90	8.8	6.6	4.32	8.1	6.1	4.85
	19.0	27.0	10.9	7.5	2.98	10.6	7.4	3.30	9.9	7.0	3.73	9.8	6.9	3.94	9.2	6.7	4.37	8.4	6.2	4.90
	19.5	27.0	11.0	7.5	2.99	10.8	7.4	3.31	10.1	7.0	3.74	9.9	6.9	3.95	9.3	6.7	4.38	8.5	6.2	4.91
	22.0	30.0	12.0	7.6	3.05	11.6	7.5	3.38	11.0	7.1	3.81	10.8	7.0	4.03	10.2	6.9	4.47	9.3	6.5	5.01
24.0	32.0	12.7	7.7	3.08	12.4	7.6	3.41	11.7	7.3	3.85	11.4	7.1	4.07	10.9	7.0	4.51	10.0	6.6	5.06	
125	12.0	18.0	11.1	9.1	3.51	10.8	8.8	3.70	10.0	8.3	4.07	9.7	8.2	4.36	9.2	8.0	4.84	8.5	7.5	5.30
	14.0	20.0	11.8	9.1	3.57	11.4	8.8	3.77	10.7	8.3	4.14	10.4	8.2	4.44	9.8	8.0	4.92	9.1	7.5	5.40
	16.0	22.0	12.7	9.2	3.63	12.1	8.9	3.83	11.4	8.4	4.22	11.1	8.3	4.51	10.4	8.1	5.01	9.6	7.6	5.49
	18.0	25.0	13.3	9.5	3.72	13.0	9.1	3.92	12.1	8.7	4.32	11.8	8.6	4.62	11.2	8.3	5.13	10.3	7.9	5.63
	19.0	27.0	13.6	9.6	3.76	13.3	9.1	3.96	12.7	8.8	4.36	12.2	8.6	4.67	11.5	8.4	5.18	10.7	8.0	5.68
	19.5	27.0	13.8	9.6	3.77	13.5	9.1	3.98	12.8	8.8	4.38	12.4	8.7	4.69	11.7	8.4	5.20	10.9	8.0	5.70
	22.0	30.0	15.1	9.7	3.85	14.6	9.4	4.06	13.7	9.0	4.46	13.4	8.9	4.78	12.9	8.7	5.30	11.9	8.2	5.82
24.0	32.0	15.9	9.8	3.88	15.5	9.5	4.10	14.6	9.1	4.51	14.3	9.0	4.83	13.6	8.8	5.35	12.8	8.5	5.87	

3TW26592-4

SYMBOLS

AFR:	Air flow rate	(m ³ /min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
DB*:	Dry bulb temp.	(°CDB)
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
V3: 230 V [50 Hz]
W1: 400 V [50 Hz]

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
SHC* = 0.29 x 60 x AFR (m³/min.) x (1-BF) x (DB*-EDB)/860
Add SHC* to SHC if SHC > TC, then TC equal SHC
- Direct interpolation is permissible. Do not extrapolate.
- Capacities are based on following conditions:
Corresponding refrigerant piping length : 7.5 m
Level difference : 0 m
- Air flow rate and BF are tabulated below.

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

- Add the following corrections to power input of each model.

Model	Supply	FDEQ
71	V3	0.11
	W1	0
100	V3	0.04
	W1	0
125	W1	0

6 Capacity tables

6 - 2 Heating capacity tables

FHQ71-125B + REQ71-100BV3 REQ71-125BW1

Heating capacity table

Outdoor	outdoor temperature (°CWB)													
	Indoor		-10		-5		0		6		10		15	
	EDB (°C)		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
71	16.0		6.3	2.35	6.8	2.44	7.3	2.53	8.1	2.62	8.7	2.71	/	/
	18.0		6.3	2.44	6.7	2.53	7.3	2.62	8.0	2.71	8.6	2.80	/	/
	20.0		6.3	2.53	6.7	2.62	7.3	2.71	8.0	2.80	8.6	2.89	9.3	2.98
	22.0		6.3	2.62	6.7	2.71	7.3	2.80	8.0	2.89	8.6	2.98	9.3	3.07
	24.0		6.2	2.71	6.6	2.80	7.2	2.89	7.9	2.98	8.5	3.07	9.2	3.16
100	16.0		8.7	3.37	9.5	3.48	10.3	3.58	11.4	3.69	12.1	3.80	/	/
	18.0		8.6	3.48	9.4	3.58	10.3	3.69	11.3	3.80	12.1	3.90	/	/
	20.0		8.6	3.69	9.3	3.80	10.1	3.90	11.2	4.01	11.9	4.12	12.9	4.22
	22.0		8.6	3.80	9.3	3.90	10.1	4.01	11.2	4.12	11.9	4.22	12.8	4.33
	24.0		8.5	3.90	9.3	4.01	9.9	4.12	11.0	4.22	11.7	4.33	12.8	4.44
125	16.0		11.4	4.30	12.4	4.52	13.3	4.62	14.6	4.73	15.6	4.95	/	/
	18.0		11.4	4.41	12.4	4.62	13.3	4.73	14.5	4.95	15.5	5.05	/	/
	20.0		11.4	4.62	12.2	4.83	13.3	5.05	14.5	5.16	15.4	5.27	16.6	5.49
	22.0		11.4	4.73	12.2	4.95	13.3	5.05	14.5	5.27	15.4	5.37	16.6	5.59
	24.0		11.2	4.83	12.2	5.05	13.2	5.27	14.4	5.37	15.4	5.59	16.3	5.80

3TW26592-7

SYMBOLS

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

Caution:

TC is shown by kW
V3: 230 V [50 Hz]
W1: 400 V [50 Hz]

NOTES

- Ratings shown are net capacities. Influence of fan motor heat is included.
- Shows nominal capacities
- Capacities are based on 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
- Direct interpolation is permissible. Do not extrapolate.
- Air flow rate and BF are tabulated below.

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

- Add the following corrections to power input of each model.

Model	Supply	FHQ
71	V3	0.05
	W1	0
100	V3	0.12
	W1	0
125	W1	0

6 Capacity tables

6 - 2 Heating capacity tables

Heating capacity table

FCQ71-125C7VEB+ REQ71-100B8V3B
REQ71-125B8W1B

Outdoor	Outdoor temperature (°CDB)												
	Indoor	-10		-5		0		6		10		15	
	EDB (°C)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
71	16.0	6.3	2.35	6.8	2.44	7.3	2.53	8.1	2.62	8.7	2.71	/	/
	18.0	6.3	2.44	6.7	2.53	7.3	2.62	8.0	2.71	8.6	2.80	/	/
	20.0	6.3	2.53	6.7	2.62	7.3	2.71	8.0	2.80	8.6	2.89	9.3	2.98
	22.0	6.3	2.62	6.7	2.71	7.3	2.80	8.0	2.89	8.6	2.98	9.3	3.07
	24.0	6.2	2.71	6.6	2.80	7.2	2.89	7.9	2.98	8.5	3.07	9.2	3.16
71	16.0	8.7	3.08	9.5	3.18	10.3	3.27	11.4	3.37	12.1	3.47	/	/
	18.0	8.6	3.18	9.4	3.27	10.3	3.37	11.3	3.47	12.1	3.56	/	/
	20.0	8.6	3.37	9.3	3.47	10.1	3.56	11.2	3.66	11.9	3.76	12.9	3.85
	22.0	8.6	3.47	9.3	3.56	10.1	3.66	11.2	3.76	11.9	3.85	12.8	3.95
	24.0	8.5	3.56	9.3	3.66	9.9	3.76	11.0	3.85	11.7	3.95	12.8	4.05
71	16.0	11.5	4.21	12.5	4.42	13.4	4.52	14.7	4.63	15.7	4.84	/	/
	18.0	11.5	4.31	12.5	4.52	13.4	4.63	14.6	4.84	15.6	4.94	/	/
	20.0	11.5	4.52	12.3	4.73	13.4	4.94	14.6	5.05	15.5	5.16	16.7	5.37
	22.0	11.5	4.63	12.3	4.84	13.4	4.94	14.6	5.16	15.5	5.26	16.7	5.47
	24.0	11.3	4.73	12.3	4.94	13.3	5.16	14.5	5.26	15.5	5.47	16.4	5.68

3D057264


SYMBOLS

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

Caution

TC and SHC are shown by kW
V3: 230V (50Hz)
W1: 400V (50Hz)

NOTES

- Ratings shown are net capacities which include a deduction for indoor fan motor heat
-  Shows nominal capacities
- Capacities are based on following conditions:
outdoor air : 85 % RH. however, the condition on nominal capacity is 7° CDB/6° CWB
Corresponding refrigerant piping length: 5 m
Level difference: 0 m
- Direct interpolation is permissible.
Do not extrapolate.
- Air flow rate (AFR) and Bypass factor (BF) are tabulated below.

Model		FBQ
71	AFR	16.0
	BF	0.19
100	AFR	23.5
	BF	0.16
125	AFR	27.5
	BF	0.19

- Add the following corrections to power input of each model.

Model	Supply	FBQ
71	V3	0.05
	W1	0
100	V3	0.09
	W1	0
125	W1	0

6 Capacity tables

6 - 2 Heating capacity tables

FBQ71-125B + REQ71-100BV3 REQ71-125BW1													
Heating capacity table													
Outdoor	outdoor temperature (°CWB)												
	Indoor	-10		-5		0		6		10		15	
	EDB (°C)	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
71	16.0	6.3	2.09	6.8	2.17	7.3	2.25	8.1	2.33	8.7	2.41	/	/
	18.0	6.3	2.17	6.7	2.25	7.3	2.33	8.0	2.41	8.6	2.49	/	/
	20.0	6.3	2.25	6.7	2.33	7.3	2.41	8.0	2.49	8.6	2.57	9.3	2.65
	22.0	6.3	2.33	6.7	2.41	7.3	2.49	8.0	2.57	8.6	2.65	9.3	2.73
	24.0	6.2	2.41	6.6	2.49	7.2	2.57	7.9	2.65	8.5	2.73	9.2	2.81
100	16.0	8.7	3.26	9.5	3.36	10.3	3.46	11.4	3.56	12.1	3.67	/	/
	18.0	8.6	3.36	9.4	3.46	10.3	3.56	11.3	3.67	12.1	3.76	/	/
	20.0	8.6	3.56	9.3	3.67	10.1	3.76	11.2	3.87	11.9	3.98	12.9	4.07
	22.0	8.6	3.67	9.3	3.76	10.1	3.87	11.2	3.98	11.9	4.07	12.8	4.18
	24.0	8.5	3.76	9.3	3.87	9.9	3.98	11.0	4.07	11.7	4.18	12.8	4.28
125	16.0	11.4	3.77	12.4	3.96	13.3	4.05	14.6	4.14	15.6	4.33	/	/
	18.0	11.4	3.86	12.4	4.05	13.3	4.14	14.5	4.33	15.5	4.42	/	/
	20.0	11.4	4.05	12.2	4.23	13.3	4.42	14.5	4.52	15.4	4.62	16.6	4.81
	22.0	11.4	4.14	12.2	4.33	13.3	4.42	14.5	4.62	15.4	4.71	16.6	4.90
	24.0	11.2	4.23	12.2	4.42	13.2	4.62	14.4	4.71	15.4	4.90	16.3	5.08

3TW26592-6

SYMBOLS

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

Caution:

TC is shown by kW
V3: 230 V [50 Hz]
W1: 400 V [50 Hz]

NOTES

- Ratings shown are net capacities. Influence of fan motor heat is included.
- Shows nominal capacities
- Capacities are based on 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
- Direct interpolation is permissible. Do not extrapolate.
- Air flow rate and BF are tabulated below.

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

- Add the following corrections to power input of each model.

Model	Supply	FBQ
71	V3	0
	W1	0
100	V3	0.04
	W1	0
125	W1	0

6 Capacity tables

6 - 2 Heating capacity tables

FDEQ71-125B + REQ71-100BV3 REQ71-125BW1

Heating capacity table

Outdoor	Indoor		outdoor temperature (°CWB)											
	EDB (°C)		-10		-5		0		6		10		15	
			TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
71	16.0		6.3	2.09	6.8	2.17	7.3	2.25	8.1	2.33	8.7	2.41	/	/
	18.0		6.3	2.17	6.7	2.25	7.3	2.33	8.0	2.41	8.6	2.49	/	/
	20.0		6.3	2.25	6.7	2.33	7.3	2.41	8.0	2.49	8.6	2.57	9.3	2.65
	22.0		6.3	2.33	6.7	2.41	7.3	2.49	8.0	2.57	8.6	2.65	9.3	2.73
	24.0		6.2	2.41	6.6	2.49	7.2	2.57	7.9	2.65	8.5	2.73	9.2	2.81
100	16.0		8.7	3.33	9.5	3.44	10.3	3.54	11.4	3.65	12.1	3.75	/	/
	18.0		8.6	3.44	9.4	3.54	10.3	3.65	11.3	3.75	12.1	3.85	/	/
	20.0		8.6	3.65	9.3	3.75	10.1	3.85	11.2	3.96	11.9	4.07	12.9	4.17
	22.0		8.6	3.75	9.3	3.85	10.1	3.96	11.2	4.07	11.9	4.17	12.8	4.27
	24.0		8.5	3.85	9.3	3.96	9.9	4.07	11.0	4.17	11.7	4.27	12.8	4.38
125	16.0		11.4	3.77	12.4	3.96	13.3	4.05	14.6	4.14	15.6	4.33	/	/
	18.0		11.4	3.86	12.4	4.05	13.3	4.14	14.5	4.33	15.5	4.42	/	/
	20.0		11.4	4.05	12.2	4.23	13.3	4.42	14.5	4.52	15.4	4.62	16.6	4.81
	22.0		11.4	4.14	12.2	4.33	13.3	4.42	14.5	4.62	15.4	4.71	16.6	4.90
	24.0		11.2	4.23	12.2	4.42	13.2	4.62	14.4	4.71	15.4	4.90	16.3	5.08

3TW26592-8

SYMBOLS

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

Caution:

TC is shown by kW
V3: 230 V [50 Hz]
W1: 400 V [50 Hz]

NOTES

- Ratings shown are net capacities. Influence of fan motor heat is included.
- Shows nominal capacities
- Capacities are based on 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
- Direct interpolation is permissible. Do not extrapolate.
- Air flow rate and BF are tabulated below.

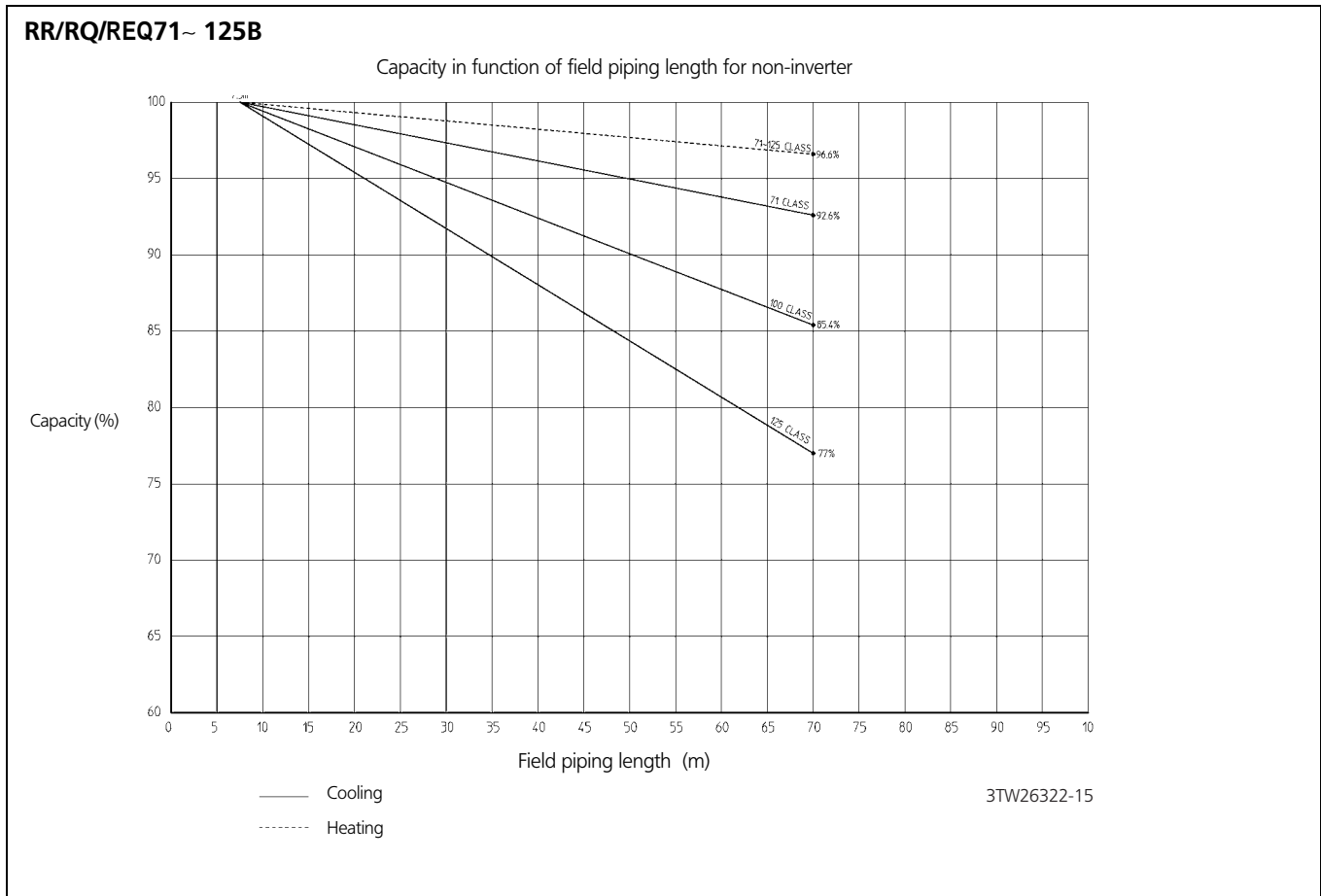
Model		FDEQ
71	AFR	19
	BF	0.11
100	AFR	27
	BF	0.2
125	AFR	35
	BF	0.14

- Add the following corrections to power input of each model.

Model	Supply	FDEQ
71	V3	0
	W1	0
100	V3	0.04
	W1	0
125	W1	0

6 Capacity tables

6 - 2 Heating capacity tables



7 Dimensional drawing & centre of gravity

7 - 1 Dimensional drawing

REQ71B

Hole for anchor bolt
4-M12

Top view dimensions: 140, 620, 140, 350, 395, 320, 48, 40, 30, 54, 95, 19, 80, 145, 84, 135, 34, 352, 89, 89, 19, 54, 34, 142, 145, 84, 135.

Front view dimensions: 30, 900, 770, 28, 89, 89, 19, 54, 34, 142, 145, 84, 135, 34, 352, 19, 80, 145, 84, 135.

Bottom view dimensions: 70, 102, 117, 45, 376, 191, 71, 16, 15, 158, 5.

unit (mm)

- 1 Gas pipe connection ϕ 15.9 flare
- 2 Liquid pipe connection - ϕ 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 ϕ 34)
- 7 Control wiring intake (knock hole ϕ 27)
- 8 Drain outlet

3TW26324-1

REQ100B

Hole for anchor bolt
4-M12

Top view dimensions: 140, 620, 140, 350, 393, 320, 48, 40, 30, 54, 95, 19, 80, 145, 84, 135, 34, 435, 89, 89, 19, 54, 34, 142, 145, 84, 135.

Front view dimensions: 30, 900, 1070, 24, 89, 89, 19, 54, 34, 142, 145, 84, 135, 34, 435, 19, 80, 145, 84, 135.

Bottom view dimensions: 70, 102, 117, 45, 376, 191, 71, 16, 15, 158, 5.

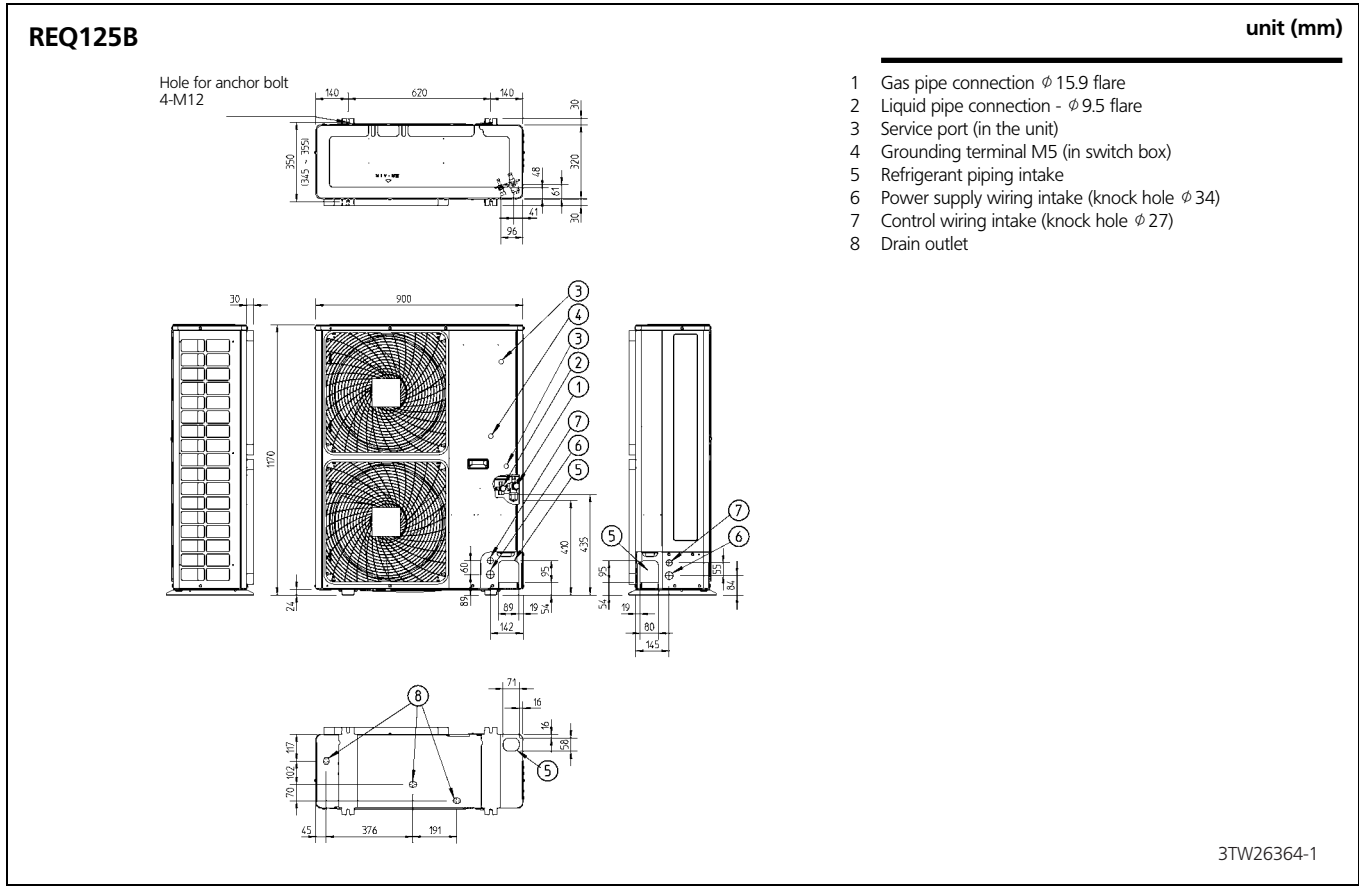
unit (mm)

- 1 Gas pipe connection ϕ 15.9 flare
- 2 Liquid pipe connection - ϕ 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 ϕ 34)
- 7 Control wiring intake (knock hole ϕ 27)
- 8 Drain outlet

3TW26344-1

7 Dimensional drawing & centre of gravity

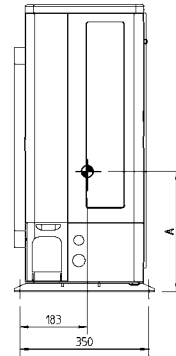
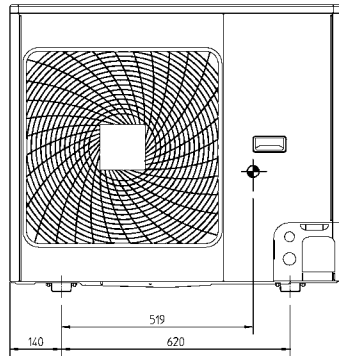
7 - 1 Dimensional drawing



7 Dimensional drawing & centre of gravity

7 - 2 Centre of gravity

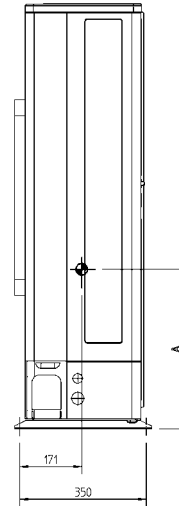
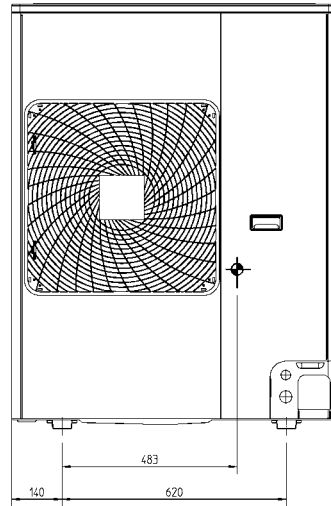
REQ71B



Model	A
REQ71B	267

3TW26329-5C

REQ100B

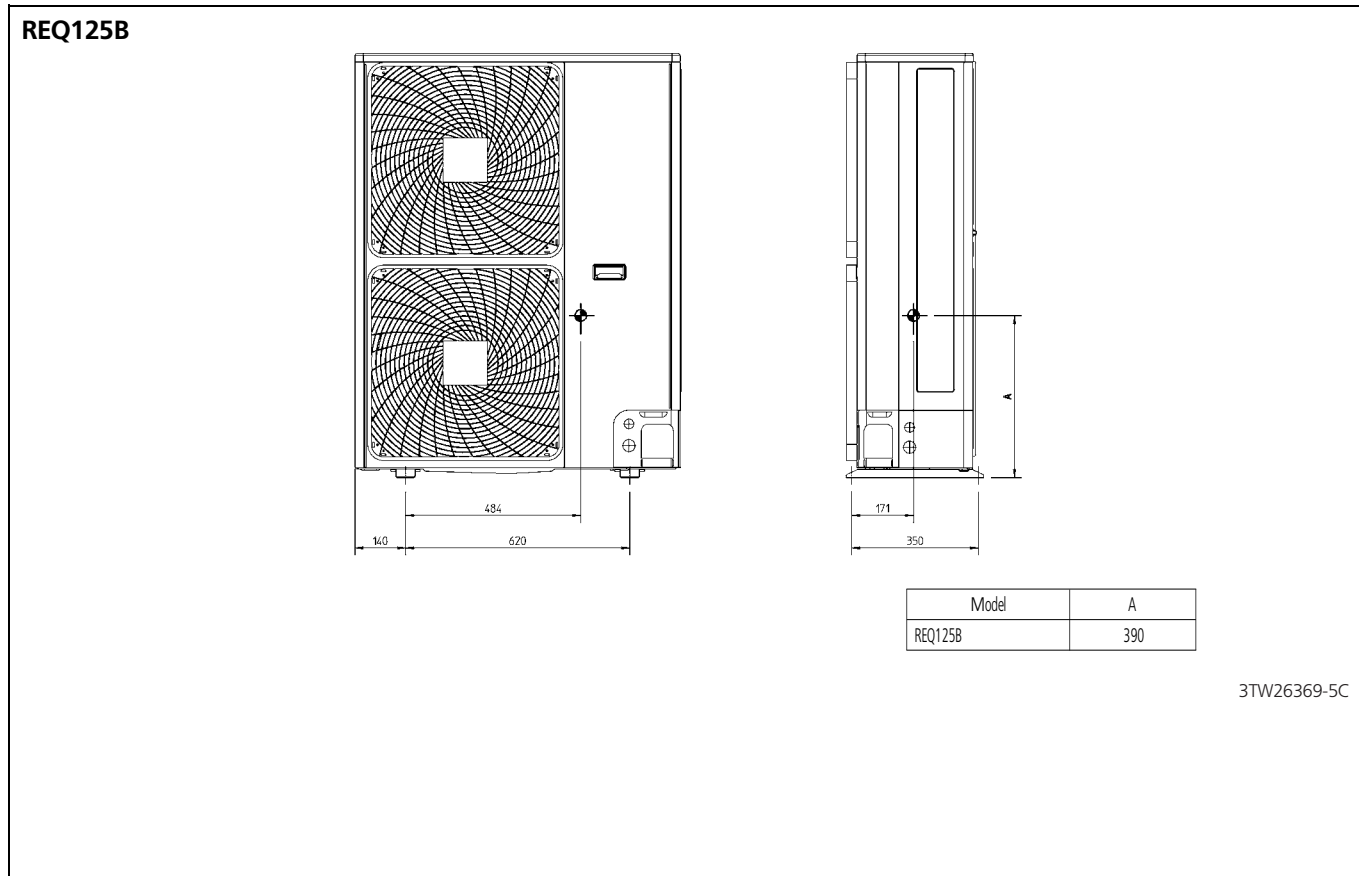


Model	A
REQ100B	390

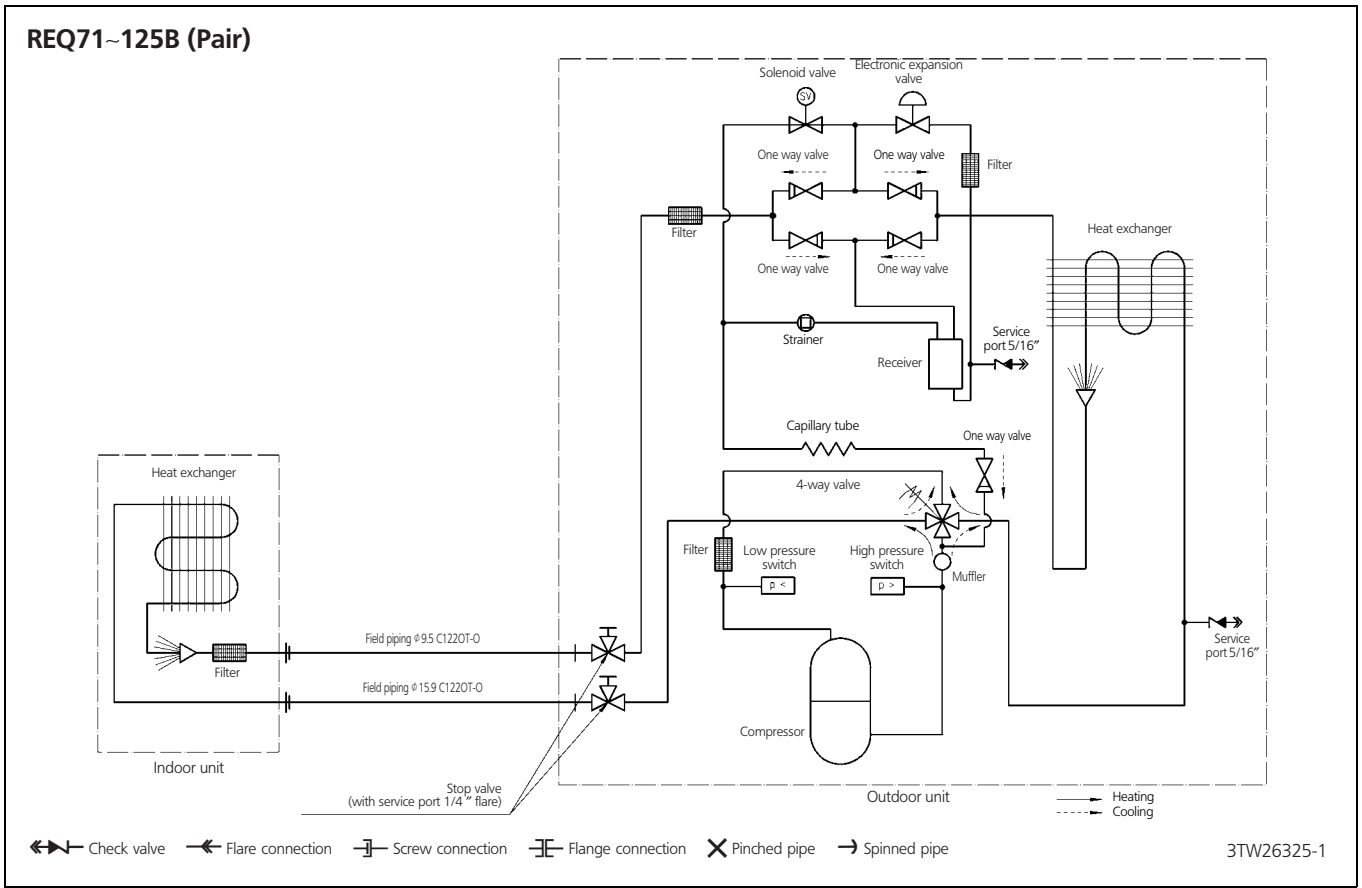
3TW26349-5C

7 Dimensional drawing & centre of gravity

7 - 2 Centre of gravity

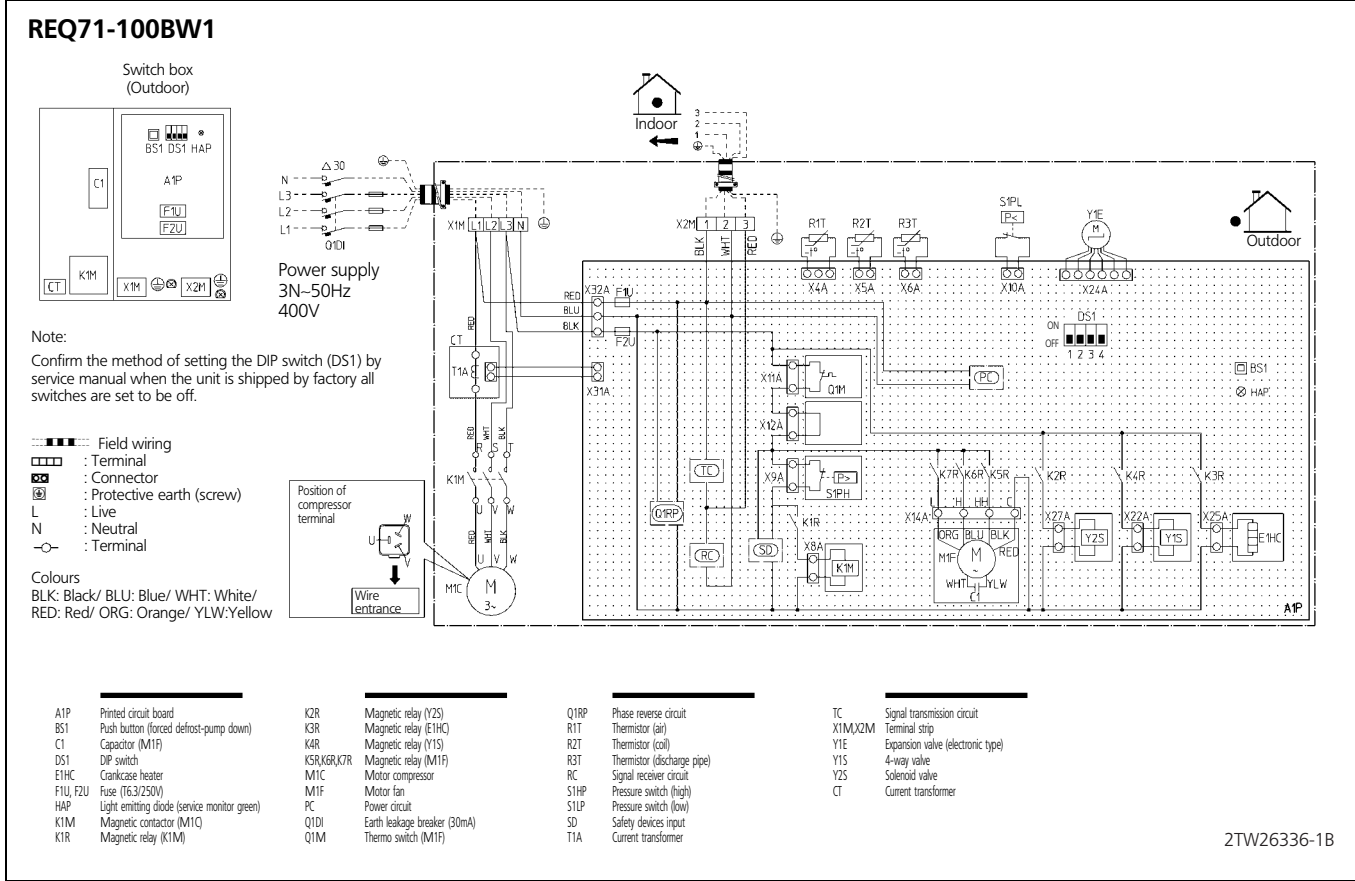
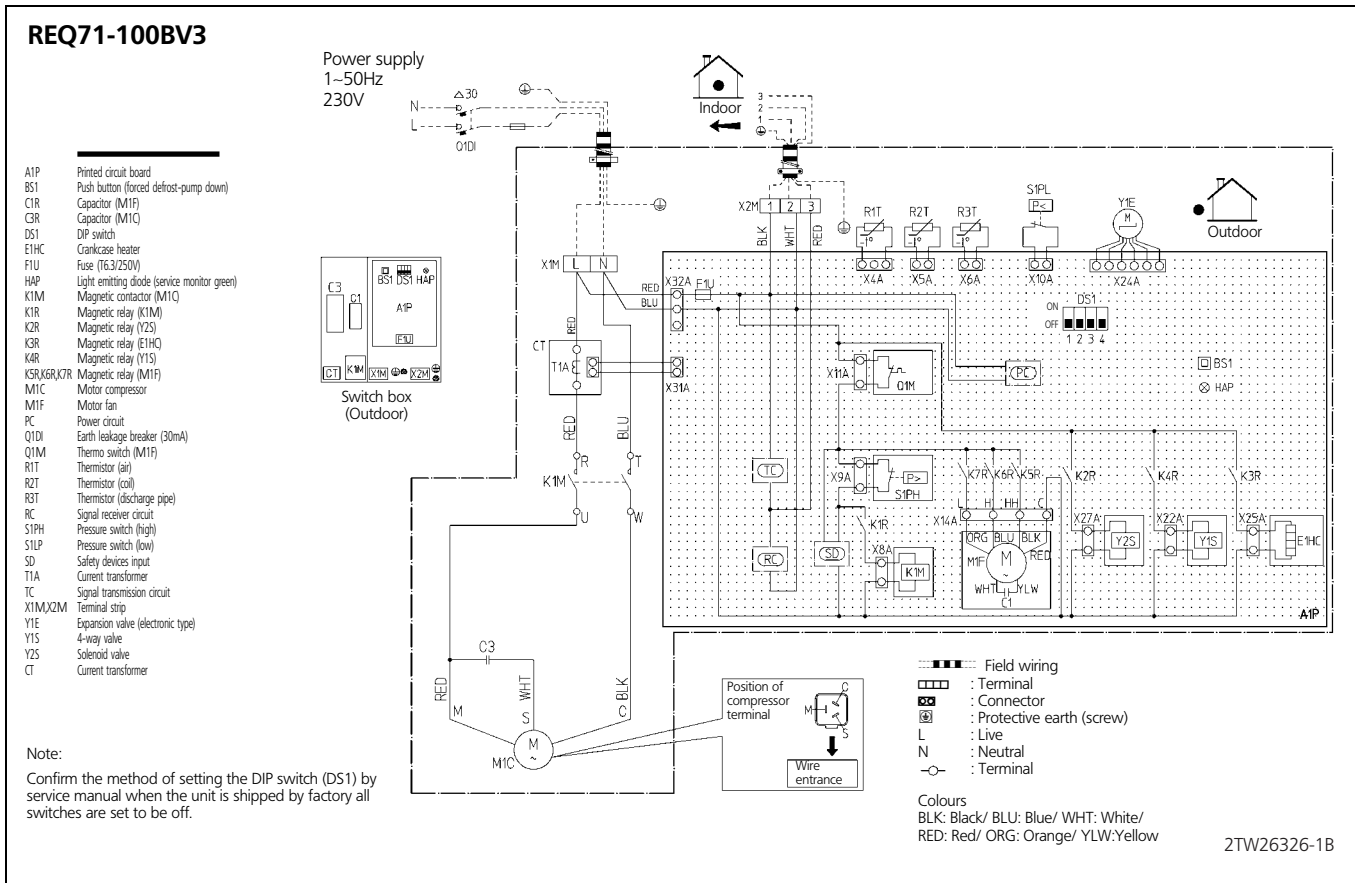


8 Piping diagram



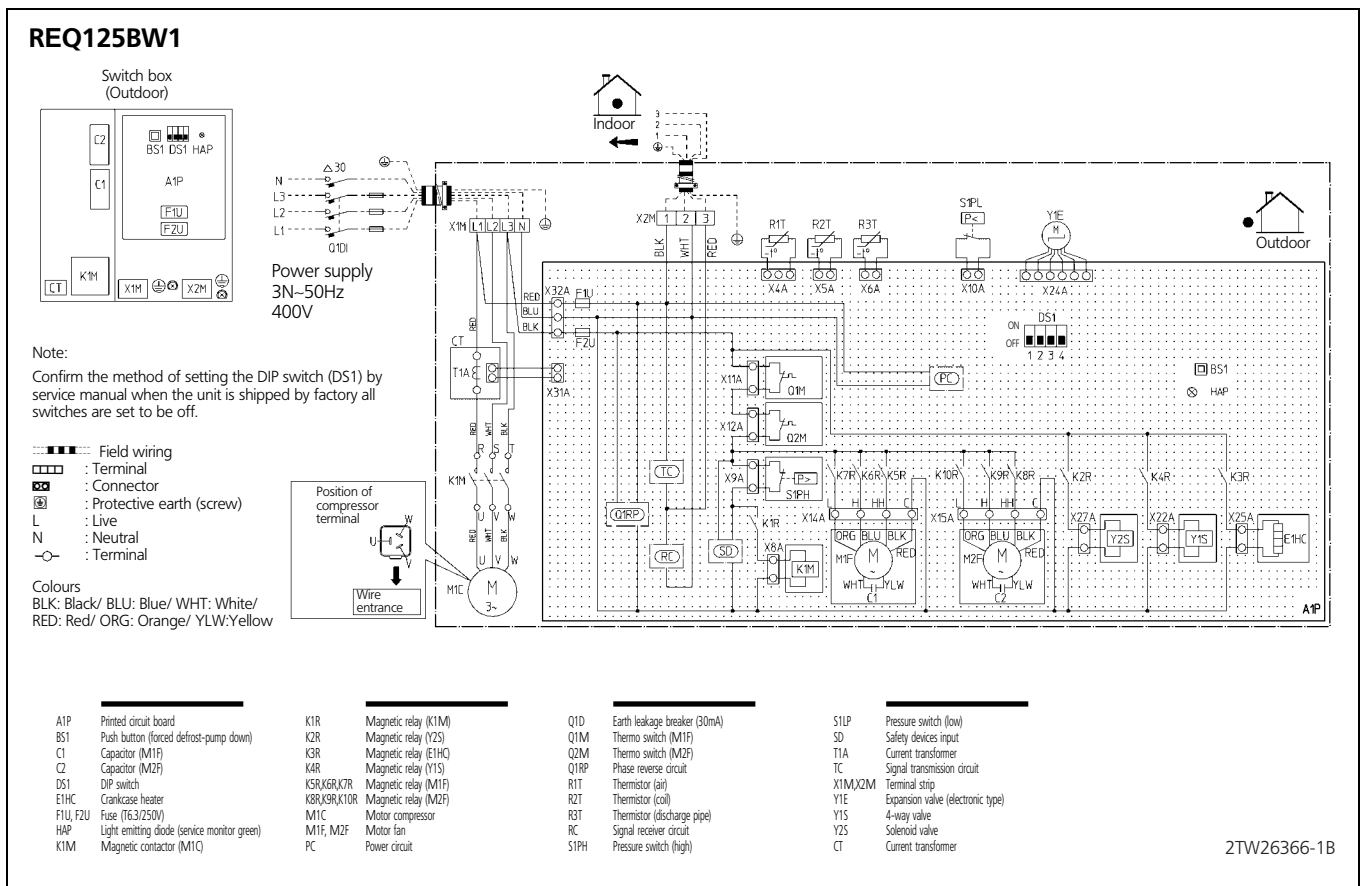
9 Wiring diagram

9 - 1 Wiring diagram



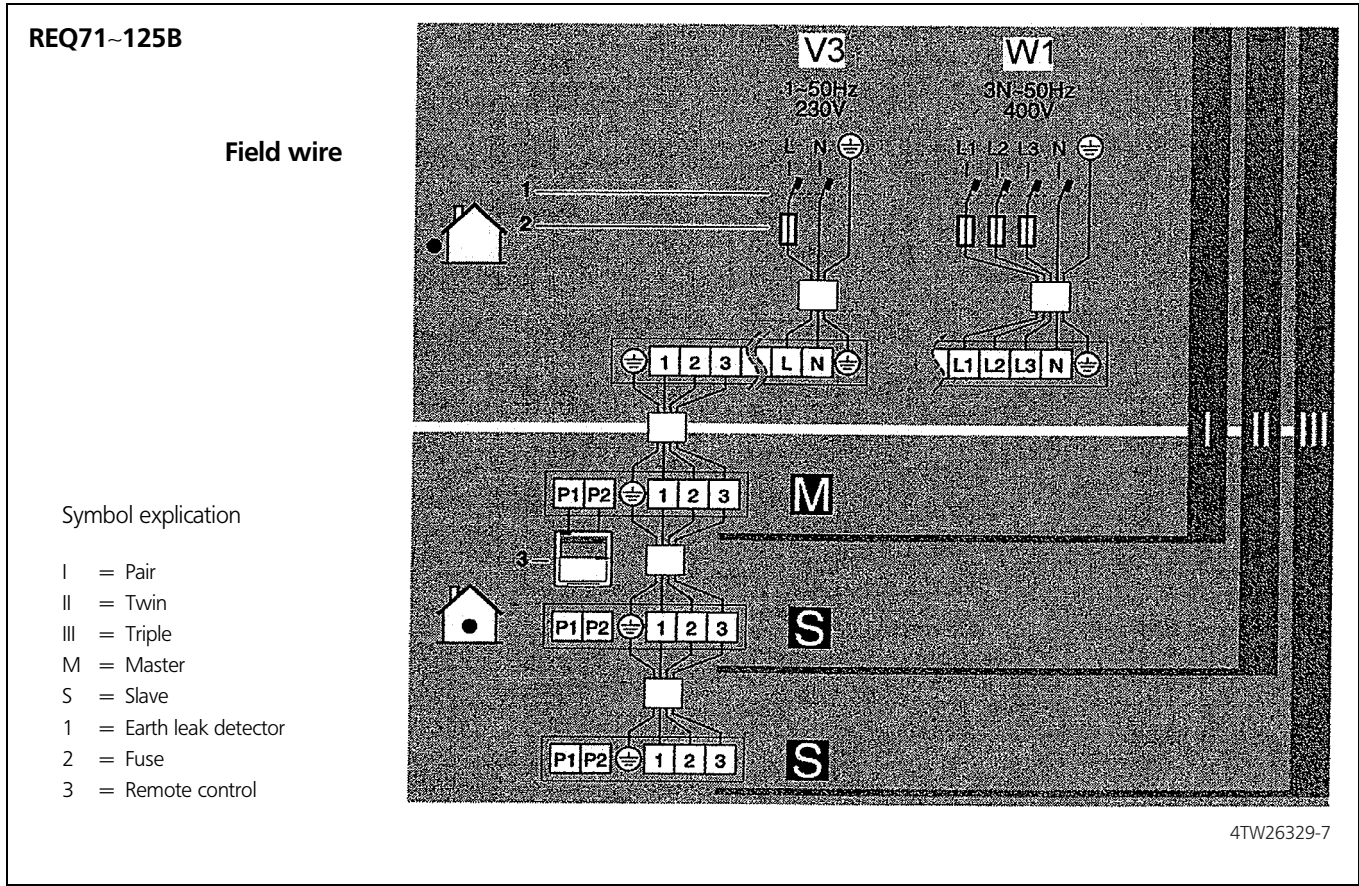
9 Wiring diagram

9 - 1 Wiring diagram



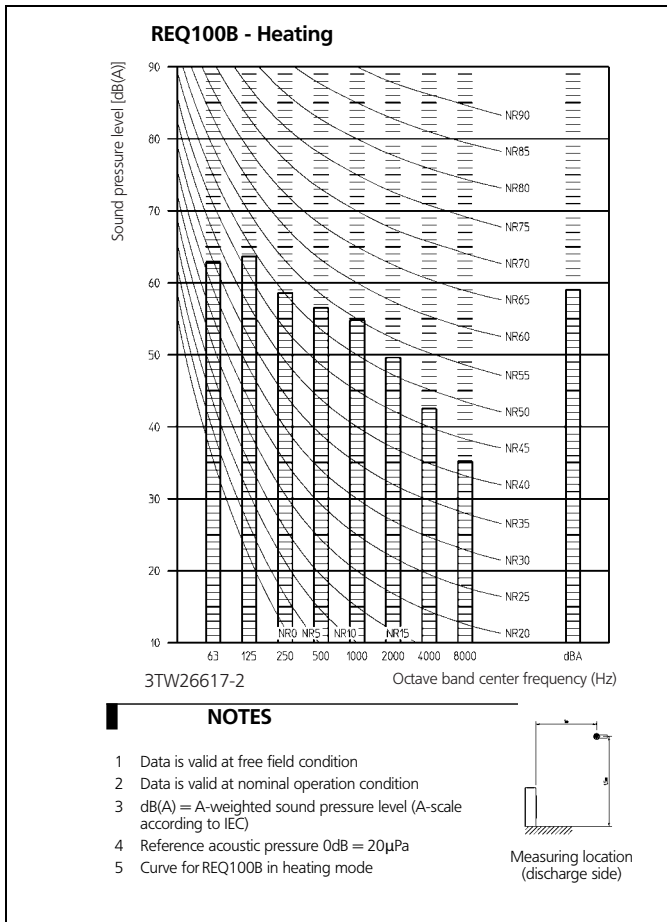
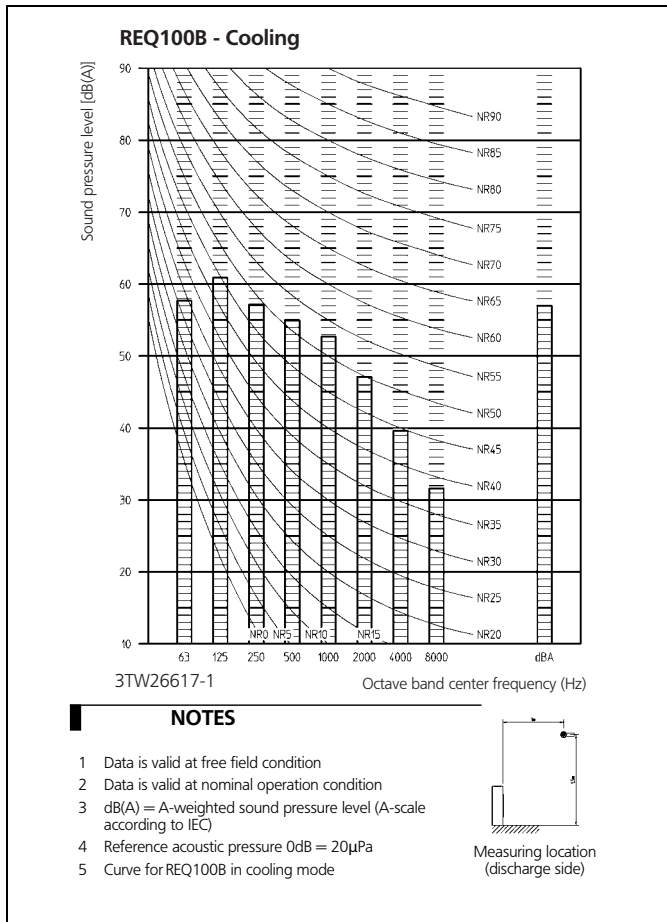
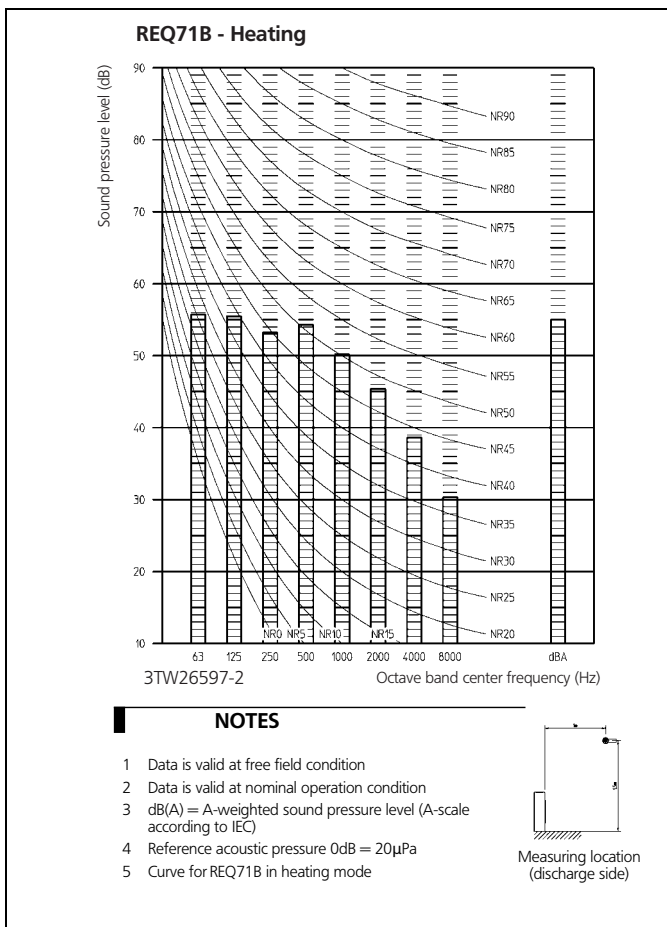
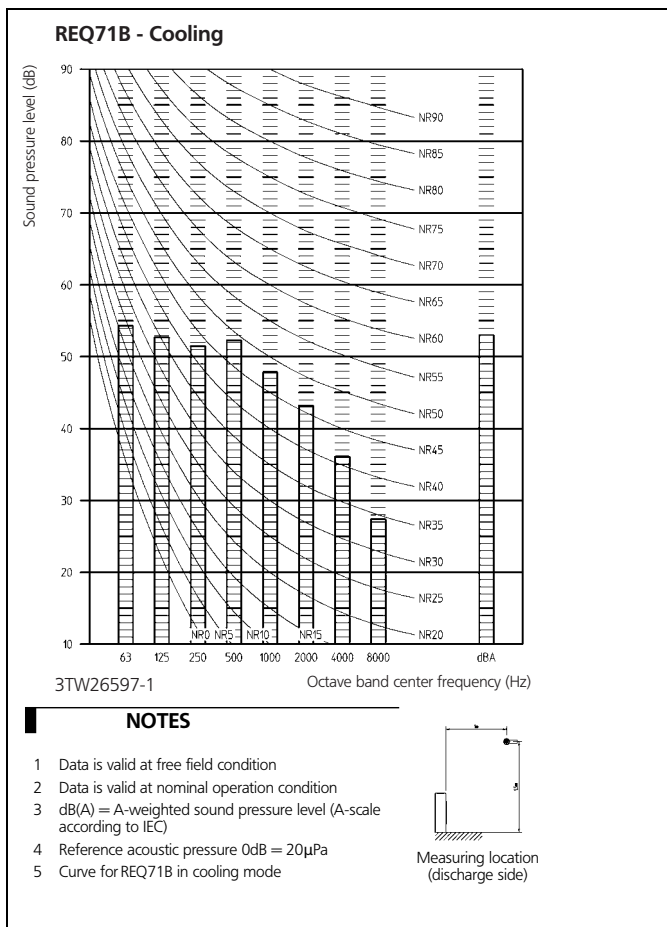
9 Wiring diagram

9 - 2 External connection diagram



10 Sound data

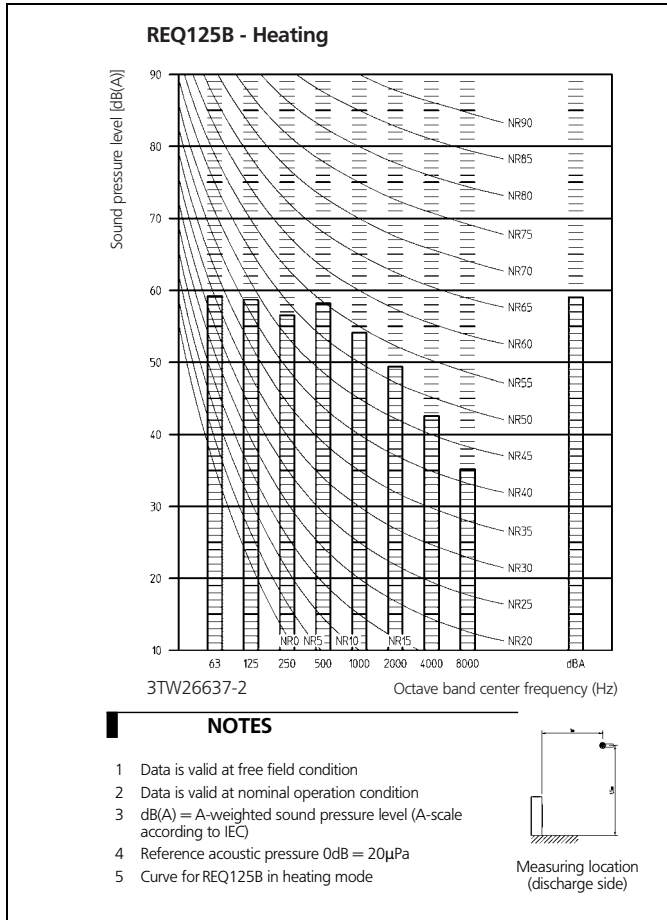
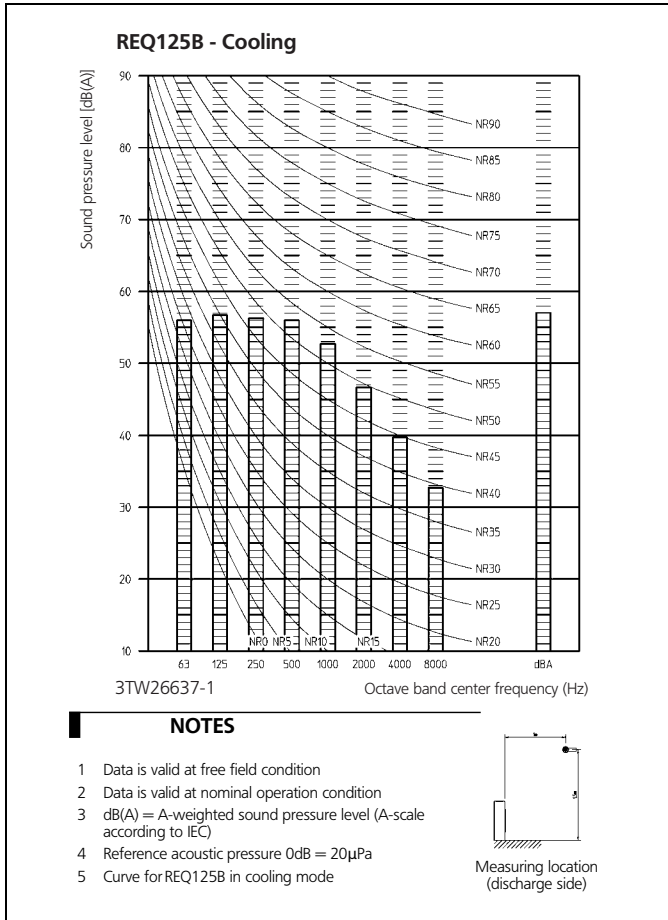
10 - 1 Sound pressure spectrum



10

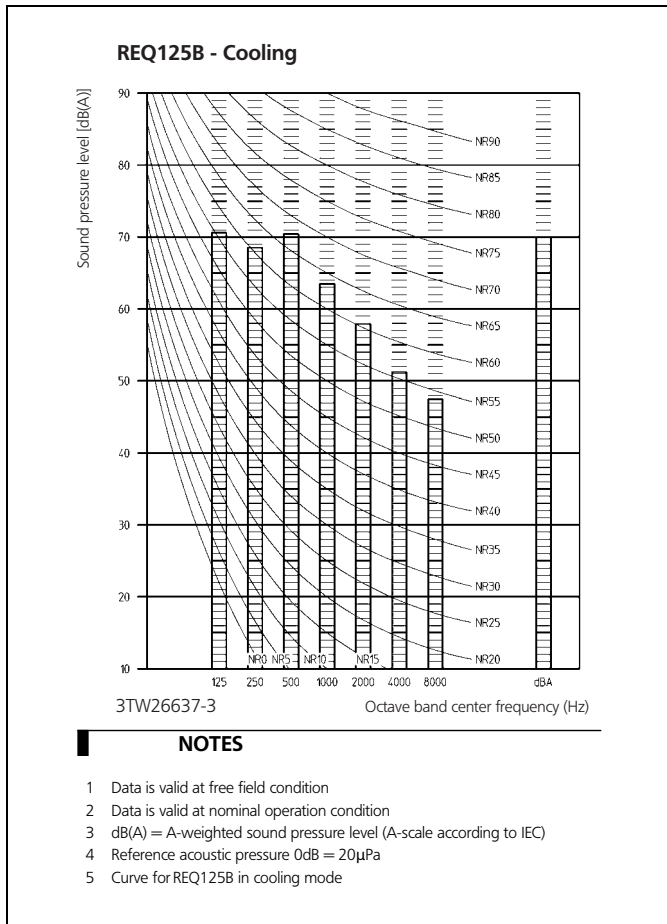
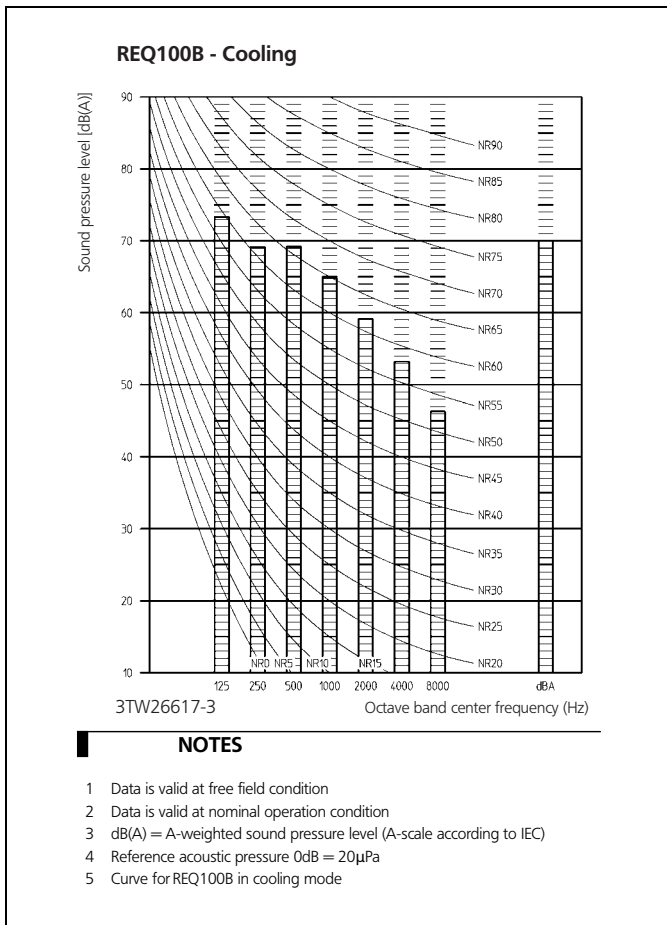
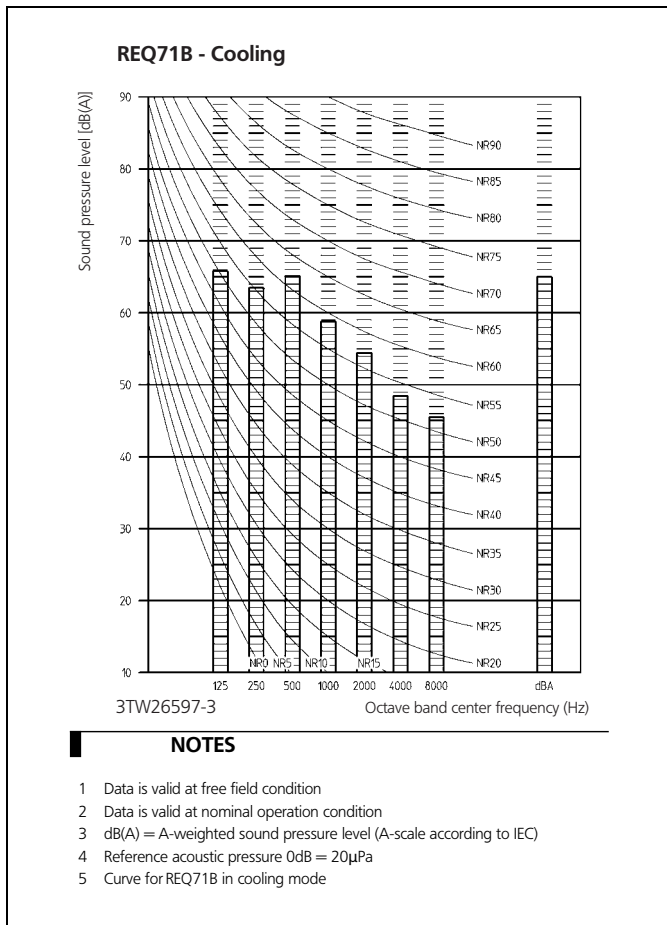
10 Sound data

10 - 1 Sound pressure spectrum



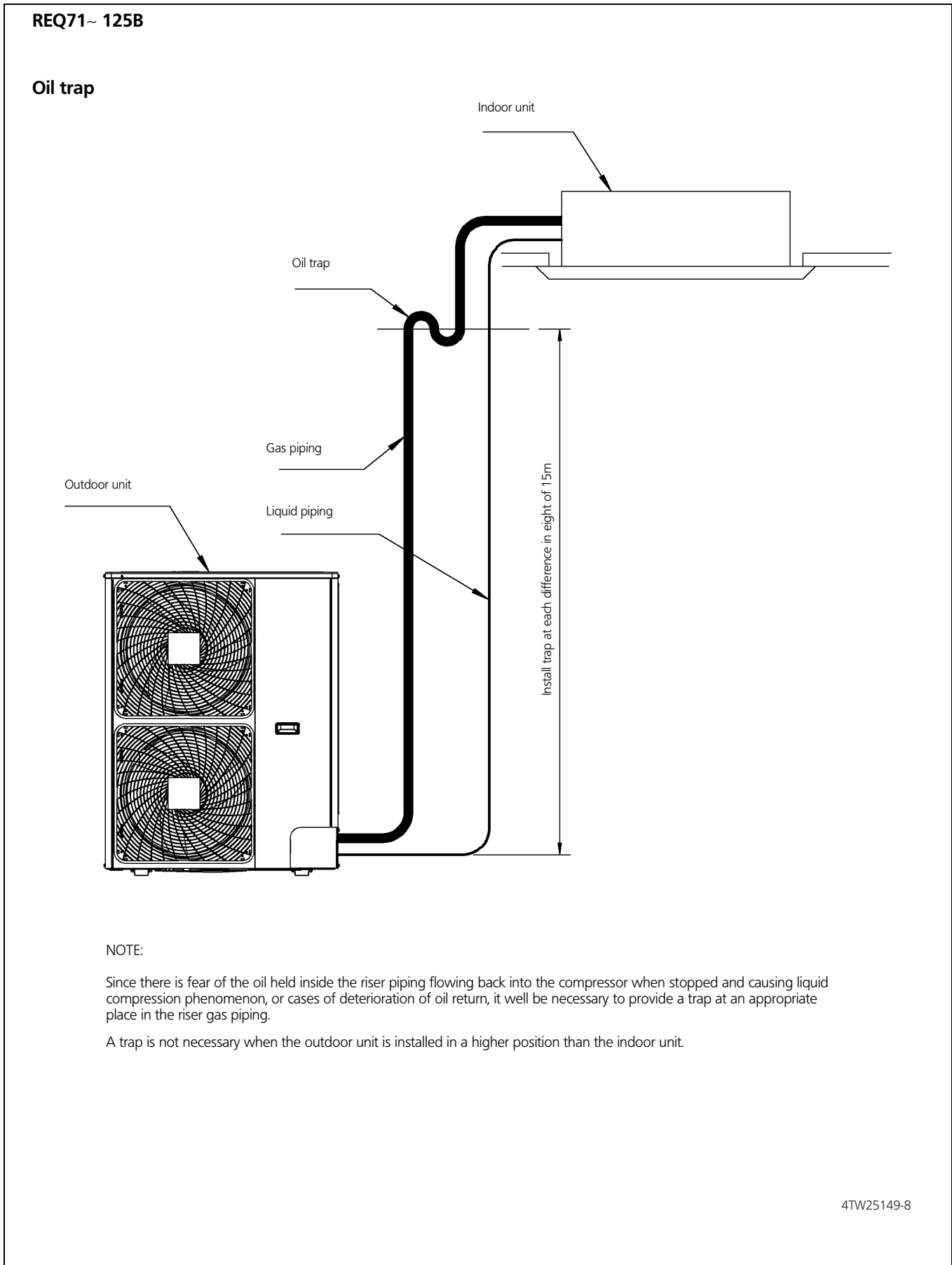
10 Sound data

10 - 2 Sound power spectrum



11 Installation

11 - 1 Installation method

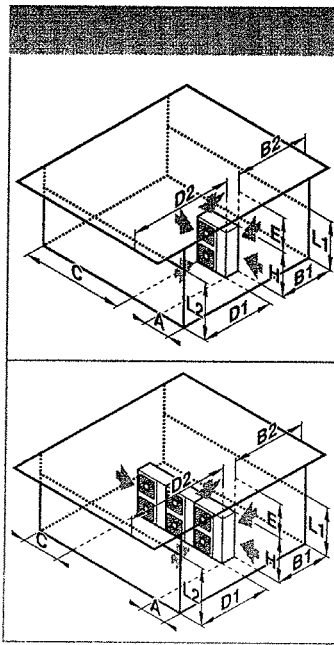


11 Installation

11 - 2 Service space

REQ71~ 125B

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		≥500		≥1000	
	✓				L1<L2	≥50(100)			≥500			
	✓				L2<L1	≥50(100)			≥500			
	✓	✓			L1<L2	L1≤H	≥150(250)	≤500	≥750	≥1000	0<L1≤1/2H	0<L1≤1/2H
	✓	✓			L2<L1	L2≤H	≥50(100)		≥500 (1000)	≥500	≥1000	0<L2≤1/2H
	✓	✓			L1<L2	L1≤H	≥150(250)		≥1000	≥1000	≥1000	1/2H<L2≤H
	✓	✓			L2<L1	L2≤H	≥200(300)		≥1250	≤500	≥1000	1/2H<L1≤H
	✓	✓			L1<L2	L1≤H	≥200(300)	≤500	≥1000	≥1000	≥1000	0<L1≤1/2H
	✓	✓			L2<L1	L2≤H	≥150(250)		≥1000 (1500)	≤500	≥1000	0<L2≤1/2H
	✓	✓			L1<L2	L1≤H	≥200(300)		≥1000	≥1000	≥1000	1/2H<L1≤H
	✓	✓			L2<L1	L2≤H	≥200(300)		≥1000 (1500)	≤500	≥1000	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.

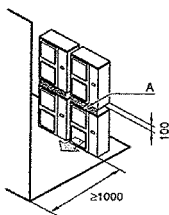
2 In these cases, only 2 units can be installed.

 This situation is not allowed.

Figures between () indicate the dimensions only for the 100-125 class models.

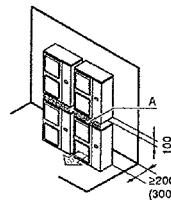
B. Stacked installation

1. Obstacles exist in front of the outlet side



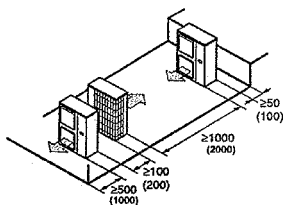
Do not stack more than one unit.
About 100mm is required as the dimension for laying the upper outdoor unit's drain pipe.
Get the portion A sealed so that air from the outlet does not bypass.

2. Obstacles exist in front of the air inlet

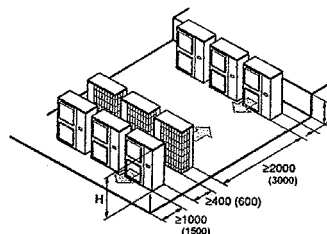


C. Multiple-row installation

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.

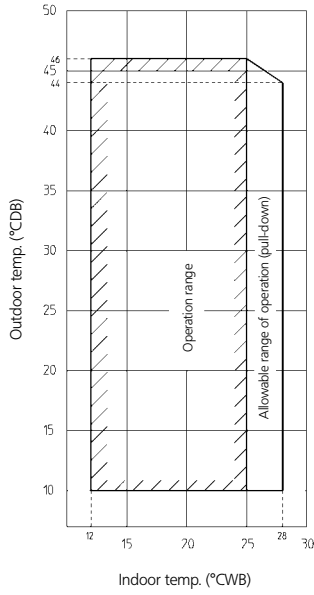
	L	A
L ≤ H	0 < L ≤ 1/2 H	150 (250)
	1/2 H < L	200 (300)
H < L	Installation impossible	

3TW25149-4A

12 Operation range

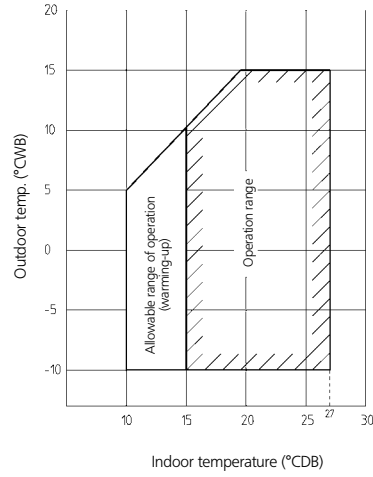
REQ71~125B

Cooling



Model name		
REQ71BV3	REQ100BV3	REQ125BW1
REQ71BW1	REQ100BW1	

Heating



Notes:

- Depending on operation and installation conditions, the indoor unit can change over to freeze-up operation (indoor de-icing).
- To reduce the freeze-up operation (indoor de-icing) frequency, it is recommended to install the outdoor unit in a location not exposed to wind.

3TW26593-1