

Air Conditioning Technical Data

FXLQ-P



- > FXLQ20P2VEB
- > FXLQ25P2VEB
- > FXLQ32P2VEB
- > FXLQ40P2VEB
- > FXLQ50P2VEB
- > FXLQ63P2VEB

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1 Features

For perimeter zone air conditioning

- Unit can be installed as free standing model by use of optional back plate
- Its low height enables the unit to fit perfectly beneath a window
- Stylish modern casing finished in pure white (RAL9010) and iron grey (RAL7011) blends easily with any interior
- Requires very little installation space
- Wall mounted installation facilitates cleaning beneath the unit where dust tends to accumulate
- Wired remote control can easily be integrated in the unit



Inverter



Home leave operation



Fan only



Auto cooling-heating changeover



Fan speed steps



Dry programme



Air filter



Weekly timer



Infrared remote control



Wired remote control



Centralised control



Auto-restart



Self diagnosis



Multi tenant

2 Specifications

2-1 Technical Specifications					FXLQ20P	FXLQ25P	FXLQ32P	FXLQ40P	FXLQ50P	FXLQ63P
Cooling capacity	Sensible capacity	Nom.	kW		1.70	2.10	2.50	3.10	3.90	4.90
	Latent capacity	Nom.	kW		0.500	0.700	1.10	1.40	1.70	2.20
	Total capacity	Nom.	kW		2.2 (1)	2.8 (1)	3.6 (1)	4.5 (1)	5.6 (1)	7.1 (1)
Heating capacity	Total capacity	Nom.	kW		2.5 (2)	3.2 (2)	4.0 (2)	5.0 (2)	6.3 (2)	8.0 (2)
Power input - 50Hz	Cooling	Nom.	kW		0.05 (1)		0.09 (1)		0.11 (1)	
	Heating	Nom.	kW		0.05 (2)		0.09 (2)		0.11 (2)	
Power input - 60Hz	Cooling	Nom.	kW		0.05 (1)		0.08 (1)		0.11 (1)	
	Heating	Nom.	kW		0.05 (2)		0.08 (2)		0.11 (2)	
Dimensions	Unit	Height	mm		600					
		Width	mm		1,000		1,140		1,420	
		Depth	mm		232					
	Packed unit	Height	mm		720					
		Width	mm		1,128		1,268		1,548	
		Depth	mm		346					
Weight	Unit		kg	27		32		38		
	Packed unit		kg	32		37		43		
Casing	Colour				Fresh white (RAL9010) / Dark grey (RAL7011)					
Heat exchanger	Rows	Quantity			3					
	Fin pitch		mm	1.50						
	Face area		m²	0.159		0.200		0.282		
	Stages	Quantity			14					
	Fin	Type			Cross fin coil					
Fan	Type				Sirocco fan					
	Air flow rate - 50Hz	Cooling	High	m³/min	7		8	11	14	16
			Low	m³/min	6.0		8.5		11.0	12.0
Fan motor	Drive				Direct drive					
Air filter	Type				Resin net					
Sound power level	Cooling	High		dBA	54			57	58	59
Sound pressure level	Cooling	Medium		dBA	-					
		High		dBA	35			38	39	40
		Low		dBA	32			33	34	35
	Heating	High		dBA	35			38	39	40
		Low		dBA	32			33	34	35
Refrigerant	Type				R-410A					
	GWP				2,087.5					
	Control				Electronic expansion valve					
Piping connections	Liquid	Type			Flare connection					
		OD		mm	6,35				9,52	
	Gas	Type			Flare connection					
		OD		mm	12.7				15.9	
	Drain				O.D. 21 (Vinyl chloride)					
	Heat insulation				Glass Fiber/Urethane Foam					
	Sound absorbing insulation				Glass fiber / Urethane foam					
Safety devices	Item	01			Fuse					
		02			Fan motor thermal protection					
Control systems	Infrared remote control				BRC4C65					
	Wired remote control				BRC1H519W/S/K / BRC1D52 / BRC1E53A / BRC1E53B / BRC1E53C					
	Simplified wired remote control for hotel applications				-					

2-2 Electrical Specifications					FXLQ20P	FXLQ25P	FXLQ32P	FXLQ40P	FXLQ50P	FXLQ63P
Power supply	Name				VE					
	Phase				1~					
	Frequency			Hz	50/60					
	Voltage			V	220-240/220					
Voltage range	Max.			%	10					
	Min.			%	-10					

2 Specifications

2-2 Electrical Specifications				FXLQ20P	FXLQ25P	FXLQ32P	FXLQ40P	FXLQ50P	FXLQ63P
Current - 50Hz	Minimum circuit amps (MCA)		A	0.3		0.6			
	Maximum fuse amps (MFA)		A	15					
	Full load amps (FLA)	Total	A	0.2		0.5			
Current - 60Hz	Minimum circuit amps (MCA)		A	0.3 (3)		0.5 (3)		0.6 (3)	
	Maximum fuse amps (MFA)		A	15.0 (3)					
	Full load amps (FLA)	Total	A	0.2 (3)		0.4 (3)		0.5 (3)	

Notes

(1) Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 7.5m (horizontal)

(2) Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 7.5m (horizontal)

(3) Contains fluorinated greenhouse gases

Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

Voltage range: units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.

Maximum allowable voltage range variation between phases is 2%.

MCA/MFA: $MCA = 1.25 \times FLA$

$MFA \leq 4 \times FLA$

Next lower standard fuse rating minimum 15A

Select wire size based on the value of MCA

Instead of a fuse, use a circuit breaker

3 Electrical data

3 - 1 Electrical Data

FXLQ-P

Units				Power supply		IFM		Input (W)	
Model	Hz	Volts	Voltage range	MCA	MFA	KW	FLA	Cooling	Heating
FXNQ20P	50	220-240	Max. 264 Min. 198	0.3	15	0.015	0.2	49	49
FXNQ25P				0.3	15	0.015	0.2	49	49
FXNQ32P				0.6	15	0.025	0.5	90	90
FXNQ40P				0.6	15	0.025	0.5	90	90
FXNQ50P				0.6	15	0.035	0.5	110	110
FXNQ63P				0.6	15	0.035	0.5	110	110

SYMBOLS

MCA : Min. Circuit Amps. (A)
 MFA : Max. Fuse Amps. (See note 5)
 kW : Fan Motor Rated Output (kW)
 FLA : Full Load Amps. (A)
 IFM : Indoor Fan Motor

NOTES

- Voltage range
Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.
- Maximum allowable voltage unbalance between phases is 2%
- MCA/MFA
 $MCA + 1.25 \times FLA$
 $MFA \leq 4 \times FLA$
 (next lower standard fuse rating. Min. 15A)
- Select wire size based on the MCA.
- Instead of fuse, use Circuit Breaker.

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4 Safety device settings

4 - 1 Safety Device Settings

FXLQ-P

		FXLQ20P	FXLQ25P	FXLQ32P	FXLQ40P	FXLQ50P	FXLQ63P
PC BOARD FUSE		250V 5A					
FAN MOTOR THERMAL PROTECTOR	°C	OFF: 135 ^{±10} / ON: 120 or less					

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5 Options

5 - 1 Options

FXLQ-P

Option kit	Product name	Availability					
		FXLQ20P2VEB FXLQ25P2VEB	FXLQ32P2VEB FXLQ40P2VEB	FXLQ50P2VEB FXLQ63P2VEB	FXNQ20P2VEB FXNQ25P2VEB	FXNQ32P2VEB FXNQ40P2VEB	FXNQ50P2VEB FXNQ63P2VEB
Wired remote control	BRC1D52/BRC1E53A7(5) BRC1E53B7(6)/BRC1E53C7(7)(8)	✓	✓	✓	✓	✓	✓
Wireless remote control HP	BRC4C65	✓	✓	✓	✓	✓	✓
Wireless remote control CO	BRC4C66	✓	✓	✓	✓	✓	✓
Simplified remote control (with operation mode selector button)	BRC2E52C(2)(8)	✓	✓	✓	✓	✓	✓
Simplified remote control (without operation mode selector button)	BRC3E52C(2)(8)	✓	✓	✓	✓	✓	✓
Remote control for hotel use	BRC3A61	✓	✓	✓	✓	✓	✓
Adaptor for wiring	KRP1B61	✓	✓	✓	✓	✓	✓
Wiring adaptor for electrical appendices 1	KRP2A51	✓	✓	✓	✓	✓	✓
Wiring adaptor for electrical appendices 2	KRP4A51	✓	✓	✓	✓	✓	✓
Remote sensor	KRC501-1	✓	✓	✓	✓	✓	✓
Central remote control	DCS302B51	✓	✓	✓	✓	✓	✓
Electrical box with earth terminal (2 blocks)	KJB212A	✓	✓	✓	✓	✓	✓
Electrical box with earth terminal (3 blocks)	KJB311A	✓	✓	✓	✓	✓	✓
Unified ON/OFF controller	DCS301BA51	✓	✓	✓	✓	✓	✓
Noise filter (for electromagnetic interface only)	KEK26-1	✓	✓	✓	✓	✓	✓
Schedule timer	DST301BA51	✓	✓	✓	✓	✓	✓
External adaptor for outdoor unit (installation on indoor unit)	DTA104A61	✓	✓	✓	✓	✓	✓
Long-life replacement filter	KAFJ361K28	✓	×	×	×	×	×
Long-life replacement filter	KAFJ361K45	×	✓	×	×	✓	×
Long-life replacement filter	KAFJ361K71	×	×	✓	×	×	✓
Rear decoration panel	EKRD25A9	✓	×	×	×	×	×
Rear decoration panel	EKRD40A9	×	✓	×	×	×	×
Rear decoration panel	EKRD63A9	×	×	✓	×	×	×
Multi-tenant	EKMTAC	✓	✓	✓	✓	✓	✓
Digital input adaptor	BRP7A51(3)(4)	✓	✓	✓	✓	✓	✓

This kit contains parts to connect with 10 multi-tenant indoor units.

Included languages are:

Language pack 1: English, German, French, Dutch, Spanish, Italian, and Portuguese.

With PC cable EKPCAB3 in combination with the Updater PC software, you can additionally change the language to:

Language pack 2: English, Bulgarian, Croatian, Czech, Hungarian, Romanian, and Slovenian.

Language pack 3: English, Greek, Polish, Russian, Serbian, Slovak, and Turkish.

Only possible in combination with remote control BRC2/3E52C, BRC1E53A/B/C7.

Requires installation box for adaptor PCB

Included languages are: English, German, French, Italian, Spanish, Portuguese, and Dutch.

Included languages are: English, Czech, Croatian, Hungarian, Slovenian, Romanian, and Bulgarian.

Included languages are: English, Russian, Greek, Turkish, Polish, Albanian, and Slovak.

Language pack 3 of controller BRC1E53C7 is different from that of controller BRC2/3E52C7.

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6 Capacity tables

6 - 1 Cooling Capacity Tables

FXLQ-P

TC: Total capacity; kW
SHC: Sensible heat capacity; kW

Unit size	Indoor air temp.													
	14.0 °CWB		16.0 °CWB		18.0 °CWB		19.0 °CWB		20.0 °CWB		22.0 °CWB		24.0 °CWB	
	20.0 °CDB		23.0 °CDB		26.0 °CDB		27.0 °CDB		28.0 °CDB		30.0 °CDB		32.0 °CDB	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
20	1.5	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.3	1.7	2.4	1.6	2.4	1.5
25	1.9	1.6	2.3	1.8	2.6	2.0	2.8	2.1	3.0	2.1	3.0	2.0	3.1	1.9
32	2.4	2.1	2.9	2.2	3.4	2.5	3.6	2.5	3.8	2.5	3.9	2.4	4.0	2.3
40	3.0	2.5	3.6	2.7	4.2	3.1	4.5	3.1	4.7	3.2	4.9	3.1	5.0	2.9
50	3.8	3.0	4.5	3.4	5.2	3.8	5.6	3.9	5.9	4.0	6.0	3.8	6.2	3.6
63	4.8	3.7	5.7	4.2	6.6	4.8	7.1	4.9	7.5	4.9	7.7	4.7	7.8	4.3

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6 Capacity tables

6 - 2 Heating Capacity Tables

FXLQ-P

Unit size	Indoor air temp. °CDB					
	16.0	18.0	20.0	21.0	22.0	24.0
	kW	kW	kW	kW	kW	kW
20	2.6	2.6	2.5	2.4	2.3	2.2
25	3.4	3.4	3.2	3.1	3.0	2.8
32	4.2	4.2	4.0	3.9	3.7	3.5
40	5.2	5.2	5.0	4.8	4.7	4.4
50	6.6	6.6	6.3	6.1	5.9	5.5
63	8.4	8.4	8.0	7.7	7.5	7.0

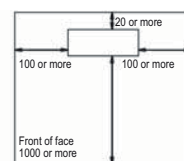
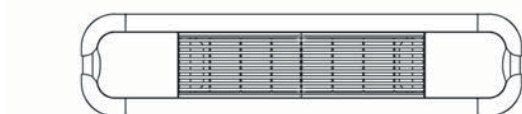
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7 Dimensional drawings

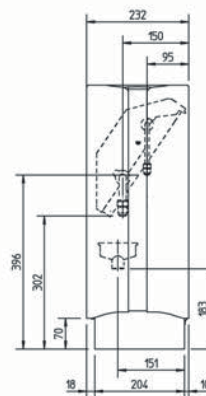
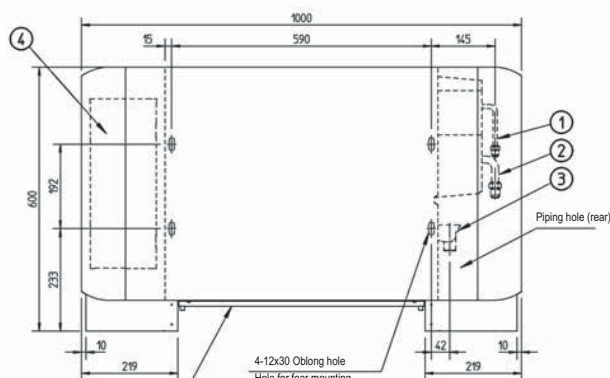
7 - 1 Dimensional Drawings

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FXLQ20-25P



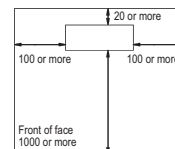
Required installation space



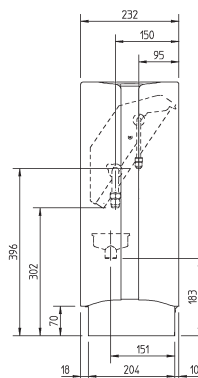
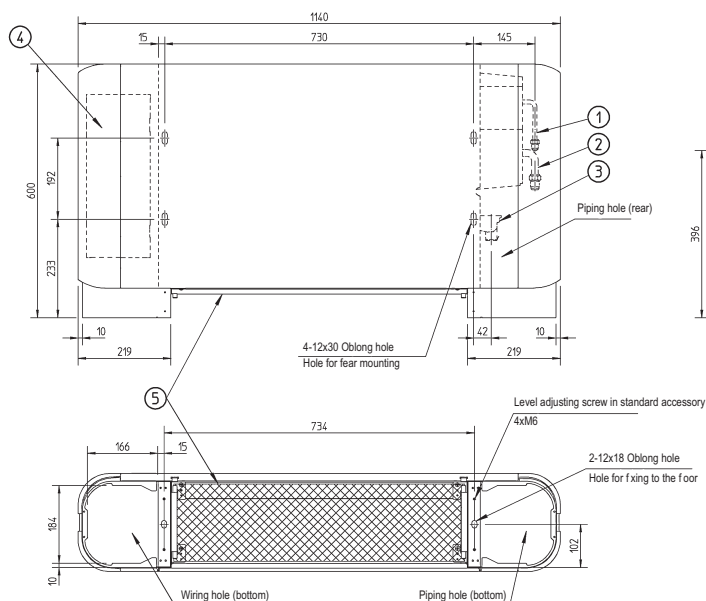
Item	Name	Description
1	Liquid pipe connection	Ø6.4 Flare connection
2	Gas pipe connection	Ø12.7 Flare connection
3	Drain pipe connection	O.D.Ø21
4	Switch box	
5	Air filter	

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FXLQ32-40P



Required installation space



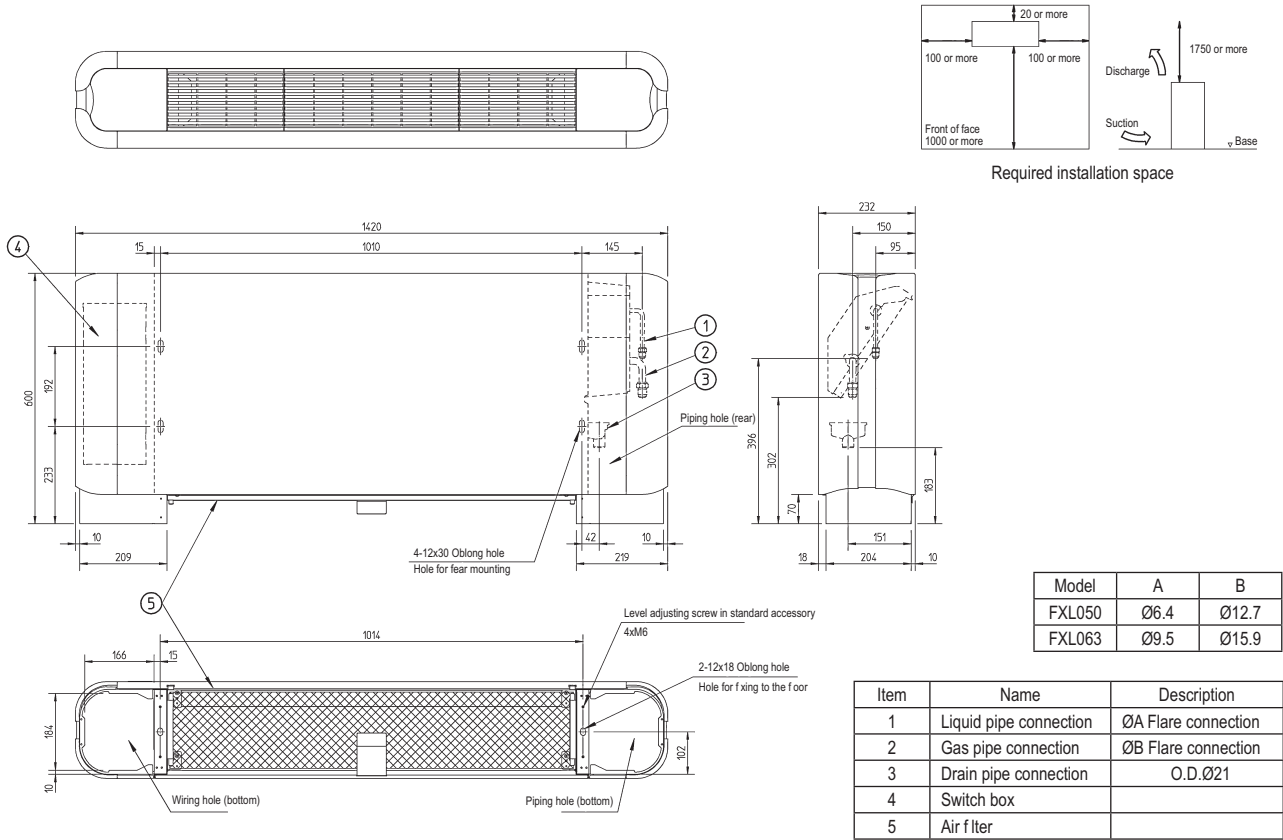
Item	Name	Description
1	Liquid pipe connection	Ø6.4 Flare connection
2	Gas pipe connection	Ø12.7 Flare connection
3	Drain pipe connection	O.D.Ø21
4	Switch box	
5	Air filter	

3TW32314-1

7 Dimensional drawings

7 - 1 Dimensional Drawings

FXLQ50-63P

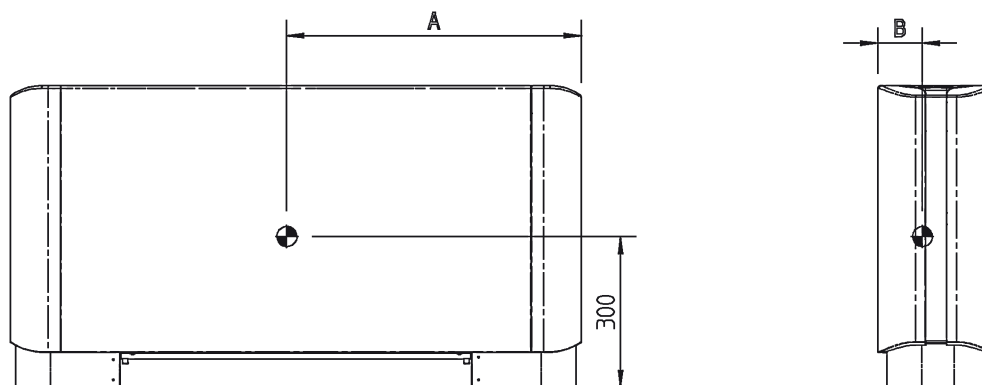


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8 Centre of gravity

8 - 1 Centre of Gravity

FXLQ-P



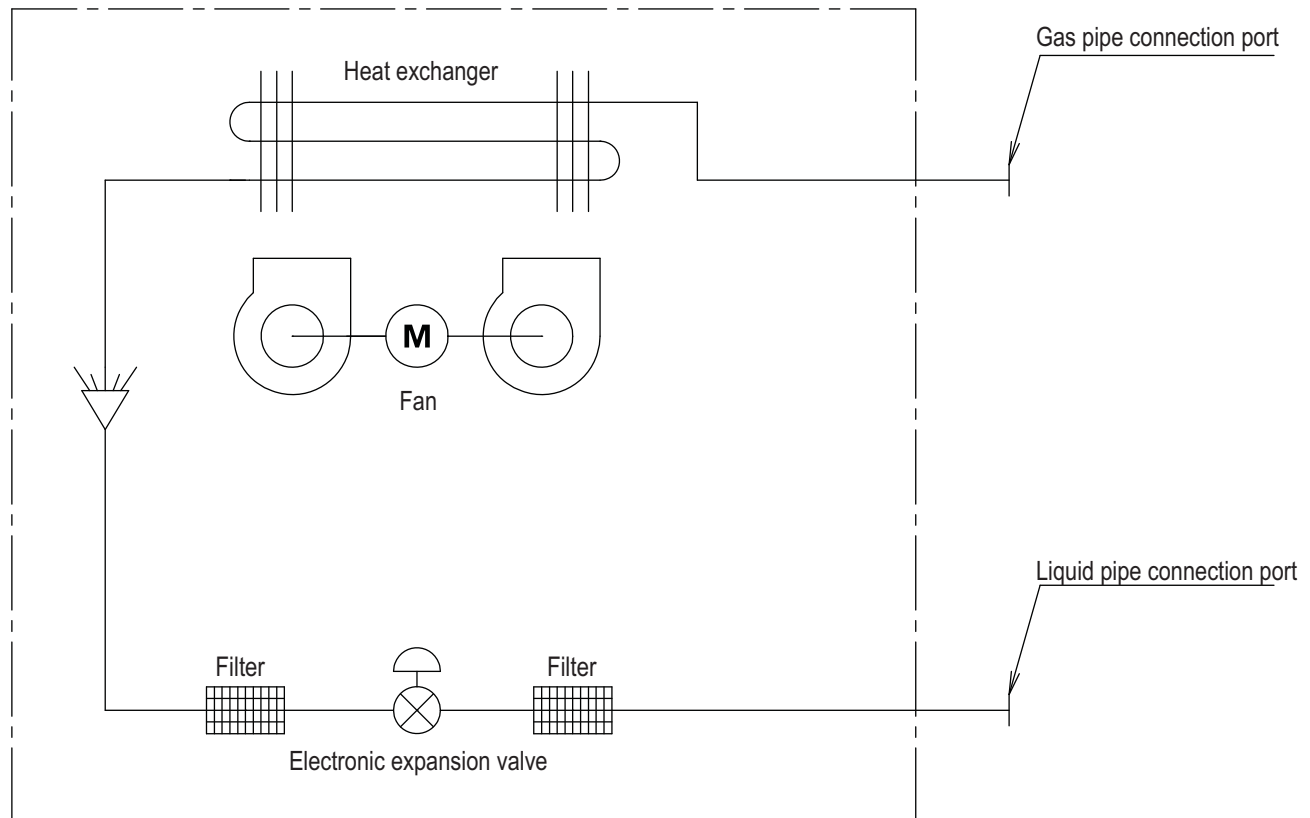
Model	A	B
FXLQ 20, 25 P	500	81
FXLQ 32, 40 P	588	89
FXLQ 50, 63 P	728	99

4TW32299-2

9 Piping diagrams

9 - 1 Piping Diagrams

FXLQ-P



Applicable model

FXC, FXM, FXL, FXN
 FXH, FXK, FXS, FJSP
 CBXLS, FXSP, FXCP
 FZSP, FXNP, FJNP
 FHQ, FXA, FXMQ, FBQ
 FXAQ, FXSP ~ BA, FAQ, FCQ
 FZSP ~ BA (N), FSSP ~ BA
 FQSP ~ BAN, FXUQ, FZCP, FZAP
 FXSQ ~ PV2S, FXSQ ~ T, FXSP ~ CA (N)
 FZSP ~ CA (N), FQSP ~ CAN
 FSSP ~ CA, FXSP ~ AA, FSSFP ~ AA

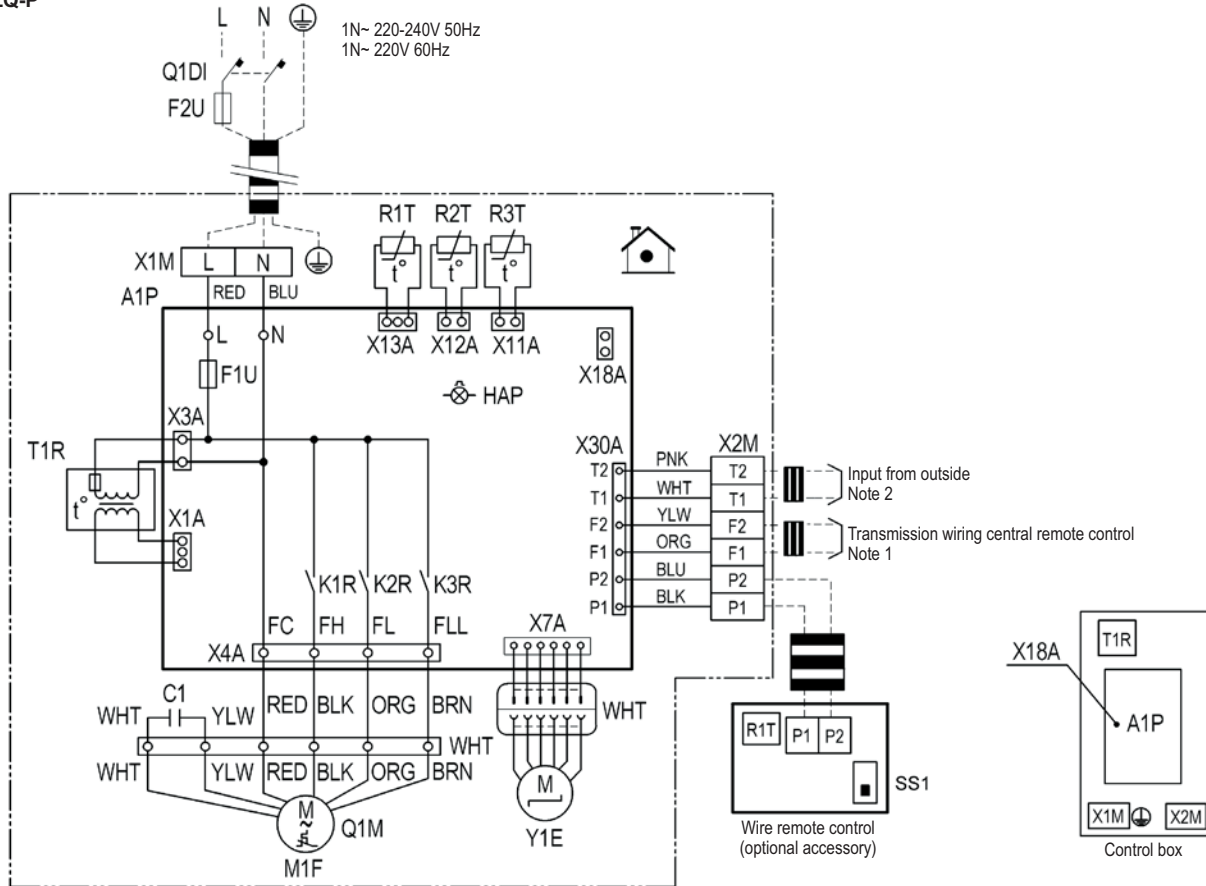
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10 Wiring diagrams

10 - 1 Wiring Diagrams - Single Phase

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FXLQ-P



Indoor unit	
A1P	Printed circuit board
C1	Capacitor (M1F)
F1U	Fuse (B , 5A, 250V)
F2U	Field Fuse
HAP	Light emitting diode (service monitor green)
K1R-K3R	Magnetic relay (M1F)
M1F	Motor (indoor fan)
Q1M	Thermo switch (M1F embedded)
Q1DI	Earth Leak Detector
R1T	Thermistor (air)
R2T-R3T	Thermistor (coil)
T1R	Transformer (220-240V/22V)
X1M	Terminal block (power supply)
X2M	Terminal block (control)
Y1E	Electronic expansion valve
Wired remote control	
R1T	Thermistor (air)
SS1	Select switch (main/sub)
Connector optional accessory	
X18A	Connector (wiring adapter for electrical appendices)

Colors	
BLK	: Black
BLU	: Blue
BRN	: Brown
ORG	: Orange
PNK	: Pink
RED	: Red
WHT	: White
YLW	: Yellow

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NOTES

- When using the central remote control see manual for connection to the unit.
- When connecting the input wires from outside, forced "OFF" or "ON/OFF" operation can be selected by the remote control. See installation manual for more details.
- Use copper conductors only.

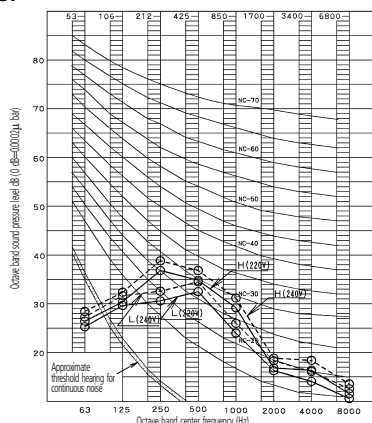
	: Terminal block		: Connector
	: Field wiring		: Terminal
L	: Live		: Protective earth (screw)
N	: Neutral		
	: Connector		

11 Sound data

11 - 1 Sound Pressure Spectrum

FXLQ20,25P

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NOTES

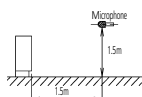
- Over all (dB):
(B, G, N is already rectified)

Scale	220V		240V	
	H	L	H	L
A	35	32	37	34
C	40	36.5	42	38.5

- Measuring place: Anechoic chamber
- Operating conditions:
 - Power source: 220•240V/220V 50/60Hz
 - JIS standard



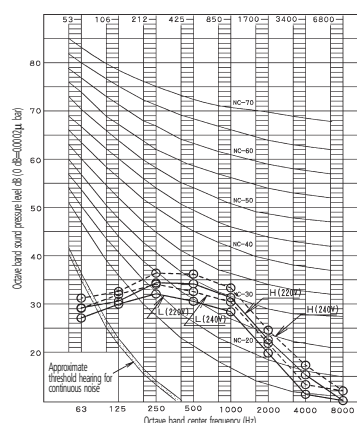
- Location of microphone



- Operating noise differs with operation and ambient conditions.

FXLQ32P

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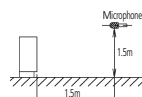
- Over all (dB):
(B, G, N is already rectified)

Scale	220V		240V	
	H	L	H	L
A	35	32	37	34
C	39	37	41	39

- Measuring place: Anechoic chamber
- Operating conditions:
 - Power source: 220•240V/220V 50/60Hz
 - JIS standard



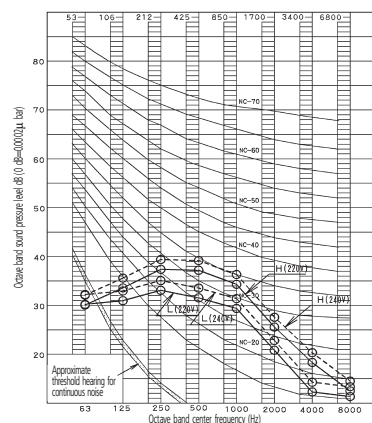
- Location of microphone



- Operating noise differs with operation and ambient conditions.

FXLQ40P

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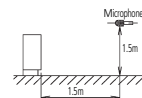
- Over all (dB):
(B, G, N is already rectified)

Scale	220V		240V	
	H	L	H	L
A	38	33	40	35
C	42	38	44	40

- Measuring place: Anechoic chamber
- Operating conditions:
 - Power source: 220•240V/220V 50/60Hz
 - JIS standard



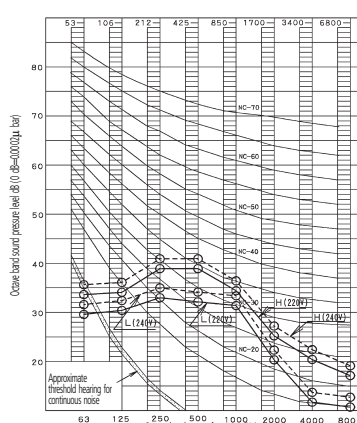
- Location of microphone



- Operating noise differs with operation and ambient conditions.

FXLQ50P

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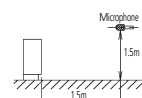
- Over all (dB):
(B, G, N is already rectified)

Scale	220V		240V	
	H	L	H	L
A	39	34	41	36
C	44	38.5	46	40.5

- Measuring place: Anechoic chamber
- Operating conditions:
 - Power source: 220•240V/220V 50/60Hz
 - JIS standard



- Location of microphone



- Operating noise differs with operation and ambient conditions.

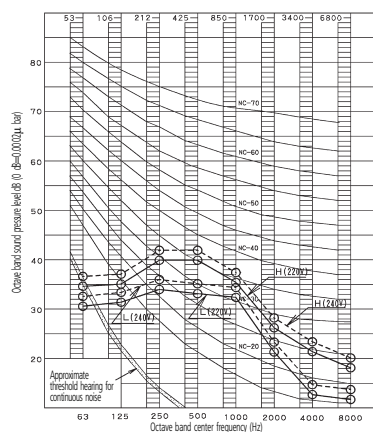
11 Sound data

11 - 1 Sound Pressure Spectrum

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FXLQ63P

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NOTES

- Over all (dB):
(B, G, N is already rectified)

Scale	220V		240V	
	H	L	H	L
A	40	35	42	37
C	45	39.5	47	41.5

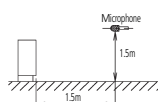
- Measuring place: Anechoic chamber

- Operating conditons:

- Power source: 220•240V/220V 50/60Hz
- JIS standard

○ ——— 220V
○ - - - - - 240V

- Location of microphone



- Operating noise differs with operation and ambient conditions.



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