

Floor standing unit Air Conditioning Technical Data FXLQ-P



FXLQ20P5VEB
FXLQ25P5VEB
FXLQ32P5VEB
FXLQ40P5VEB
FXLQ50P5VEB
FXLQ63P5VEB

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FXLQ-P

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1 Features

1 - 1 FXLQ-P

For perimeter zone air conditioning

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- › 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 (RAL7012) 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 (3 steps)



Dry programme



Air filter



Weekly timer (optional)



Infrared remote control (optional)



Wired remote control (optional)



Centralised control (optional)



Auto-restart



Self diagnosis



Multi tenant (optional)

2 Specifications

1 - 1 FXLQ-P

Technical specifications				FXLQ20P	FXLQ25P	FXLQ32P	FXLQ40P	FXLQ50P	FXLQ63P
Cooling capacity	Sensible capacity	At high fan speed	kW	1.70	2.10	2.50	3.10	3.90	4.90
	Latent capacity	At high fan speed	kW	0.500	0.700	1.10	1.40	1.70	2.20
	Total capacity	At high fan speed	kW	2.2 (1)	2.8 (1)	3.6 (1)	4.5 (1)	5.6 (1)	7.1 (1)
Heating capacity	Total capacity	At high fan speed	kW	2.5 (2)	3.2 (2)	4.0 (2)	5.0 (2)	6.3 (2)	8.0 (2)
Power input - 50Hz	Cooling	At high fan speed	kW	0.05 (1)		0.09 (1)		0.11 (1)	
	Heating	At high fan speed	kW	0.05 (2)		0.09 (2)		0.11 (2)	
Power input - 60Hz	Cooling	At high fan speed	kW	0.05 (1)		0.08 (1)		0.11 (1)	
	Heating	At high fan speed	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 (RAL7012)					
Heat exchanger	Rows	Quantity		3					
	Fin pitch		mm	1.50					
	Face area		m ²	0.159		0.200		0.282	
	Stages	Quantity		14					
	Fin	Type		Cross fin coil					
Fan	Type			Sirocco fan					
	Air flow rate - 50Hz	Cooling	At high fan speed	m ³ /min	7	8	11	14	16
			At low fan speed	m ³ /min	6.0		8.5	11.0	12.0
Fan motor	Drive			Direct drive					
Sound power level	Cooling	At high fan speed	dB(A)	54		57	58	59	
Sound pressure level	Cooling	At high fan speed	dB(A)	35		38	39	40	
		At low fan speed	dB(A)	32		33	34	35	
	Heating	At high fan speed	dB(A)	35		38	39	40	
		At low fan speed	dB(A)	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					
Piping connections	Gas	Type		Flare connection					
		OD	mm	12.7				15.9	
	Drain			O.D. 21 (Vinyl chloride)					
	Heat insulation			Glass Fiber/Urethane Foam					
Air filter	Sound absorbing insulation			Glass fiber / Urethane foam					
	Type			Resin net					
Safety devices	Item	01		Fuse					
		02		Fan motor thermal protection					
Control systems	Infrared remote control			BRC4C65					
	Wired remote control			BRC1H52W/S/K / BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52					
	Simplified wired remote control for hotel applications			BRC2E52C (heat recovery type) / BRC3E52C (heat pump type)					

Electrical specifications				FXLQ20P	FXLQ25P	FXLQ32P	FXLQ40P	FXLQ50P	FXLQ63P
Power supply	Name			VE					
	Phase			1~					
	Frequency			50/60					
	Voltage			220-240/220					
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		0.5		0.6	
	Maximum fuse amps (MFA)		A			15			
	Full load amps (FLA) Total		A	0.2		0.4		0.5	

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

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

(5)Maximum allowable voltage range variation between phases is 2%. |

(6)MCA/MFA: MCA = 1.25 x FLA |

(7)MFA ≤ 4 x FLA |

(8)Next lower standard fuse rating minimum 15A |

(9)Select wire size based on the value of MCA |

(10)Contains fluorinated greenhouse gases |

(11)Instead of a fuse, use a circuit breaker

3 Electrical data

3 - 1 Electrical Data

FXLQ-P

MODEL	UNITS			POWER SUPPLY		IFM		INPUT (W)	
	Hz	V	VOLTAGE RANGE	MCA	MFA	kW	FLA	COOLING	HEATING
FXLQ20P5VEB	50	220-240	MAX. 264 MIN. 198	0,3	15	0,015	0,2	49	49
FXLQ25P5VEB				0,3	15	0,015	0,2	49	49
FXLQ32P5VEB				0,6	15	0,025	0,5	90	90
FXLQ40P5VEB				0,6	15	0,025	0,5	90	90
FXLQ50P5VEB				0,6	15	0,035	0,5	110	110
FXLQ63P5VEB				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	FXLQ32P2VEB	FXLQ50P2VEB
			FXLQ25P2VEB	FXLQ40P2VEB	FXLQ63P2VEB
			FXLQ20P5VEB	FXLQ32P5VEB	FXLQ50P5VEB
			FXLQ25P5VEB	FXLQ40P5VEB	FXLQ63P5VEB
	Wired remote control	BRC1D52/BRC1E53A7(5)/BRC1E53B7(6) BRC1E53C7(7)(8)/BRC1H52(W/S/K)/BRC1H82(W/S)(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	KRCS01-1	✓	✓	✓
	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	KAF361L28	✓	×	×
	Long-life replacement filter	KAF361L45	×	✓	×
	Long-life replacement filter	KAF361L71	×	×	✓
	Rear decoration panel	EKRDP25A5	✓	×	×
	Rear decoration panel	EKRDP40A5	×	✓	×
	Rear decoration panel	EKRDP63A5	×	×	✓
	Multi-tenant	EKMTAC	✓	✓	✓
	Digital input adaptor	BRP7A51(3)(4)	✓	✓	✓

①: This kit contains parts to connect with ·10· multi-tenant indoor units.
 ②: 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.
 ③: Only possible in combination with remote control ·BRC2/3E52C, BRC1E53A/B/C7, BRC1H52W/S/K, BRC1H82W/S·.
 ④: Requires installation box for adaptor PCB
 ⑤: Included languages are: English, German, French, Italian, Spanish, Portuguese, and Dutch.
 ⑥: Included languages are: English, Czech, Croatian, Hungarian, Slovenian, Romanian, and Bulgarian.
 ⑦: Included languages are: English, Russian, Greek, Turkish, Polish, Albanian, and Slovak.
 ⑧: Language pack ·3· of controller ·BRC1E53C7· is different from that of controller ·BRC2/3E52C7·.
 ⑨: Editable data for this drawing are available in the ·GDE (E-BOM)· system.

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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

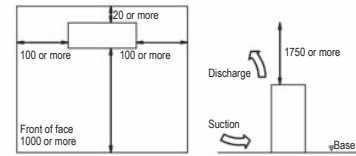
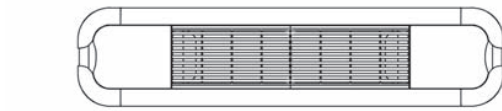
Unit size	Indoor air temp. °CDB					
	16.0	18.0	20.0	21.0	22.0	24.0
	kW	kW	kW	kW	kW	kW
20	2.6	2.6	2.5	2.4	2.3	2.2
25	3.4	3.4	3.2	3.1	3.0	2.8
32	4.2	4.2	4.0	3.9	3.7	3.5
40	5.2	5.2	5.0	4.8	4.7	4.4
50	6.6	6.6	6.3	6.1	5.9	5.5
63	8.4	8.4	8.0	7.7	7.5	7.0

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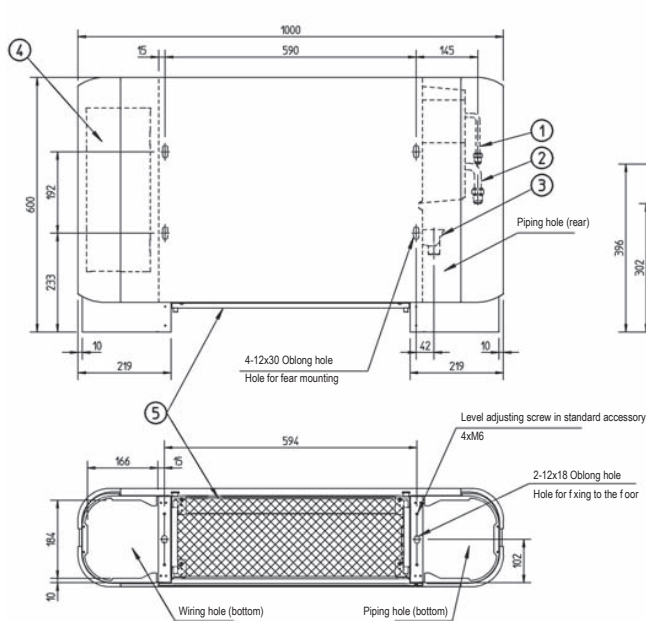
7 Dimensional drawings

7 - 1 Dimensional Drawings

FXLQ20-25P



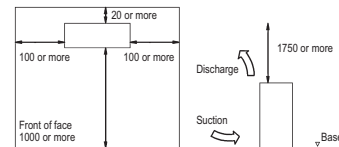
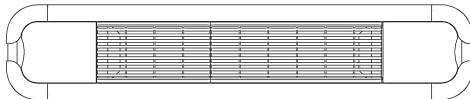
Required installation space



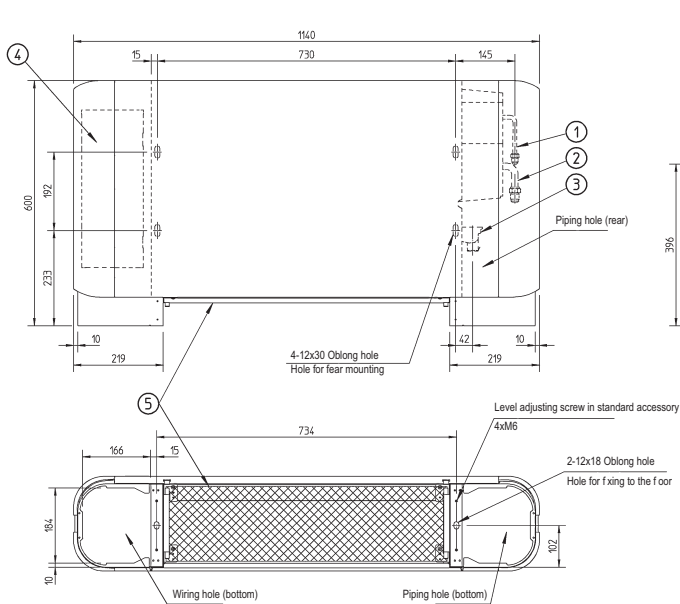
Item	Name	Description
1	Liquid pipe connection	Ø6.4 Flare connection
2	Gas pipe connection	Ø12.7 Flare connection
3	Drain pipe connection	O.D.Ø21
4	Switch box	
5	Air filter	

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FXLQ32-40P



Required installation space



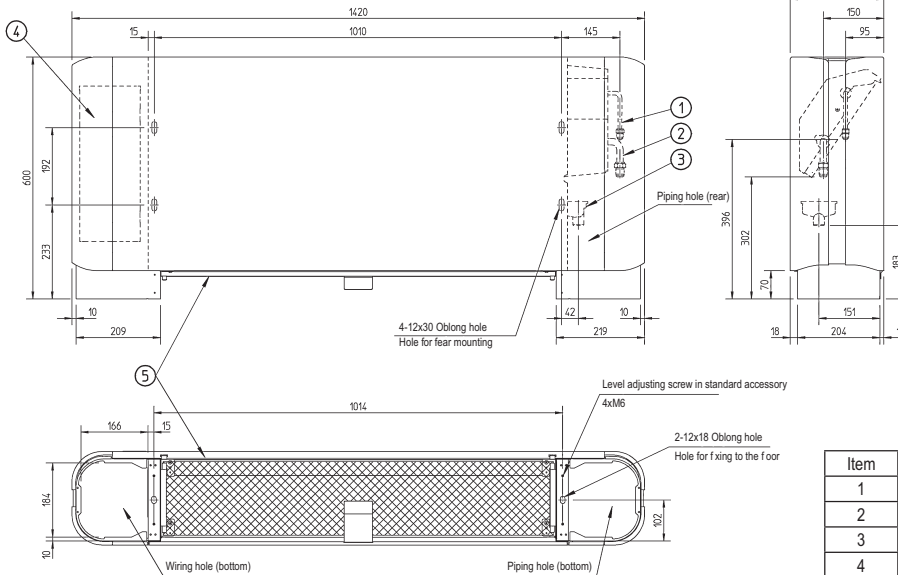
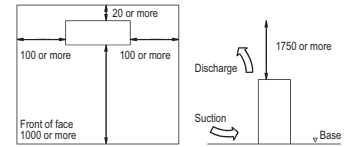
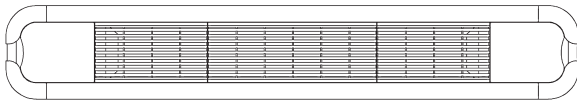
Item	Name	Description
1	Liquid pipe connection	Ø6.4 Flare connection
2	Gas pipe connection	Ø12.7 Flare connection
3	Drain pipe connection	O.D.Ø21
4	Switch box	
5	Air filter	

3TW32314-1

7 Dimensional drawings

7 - 1 Dimensional Drawings

FXLQ50-63P



Model	A	B
FXL050	Ø6.4	Ø12.7
FXL063	Ø9.5	Ø15.9

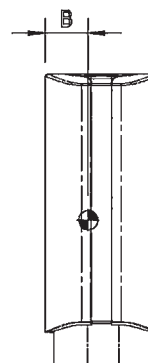
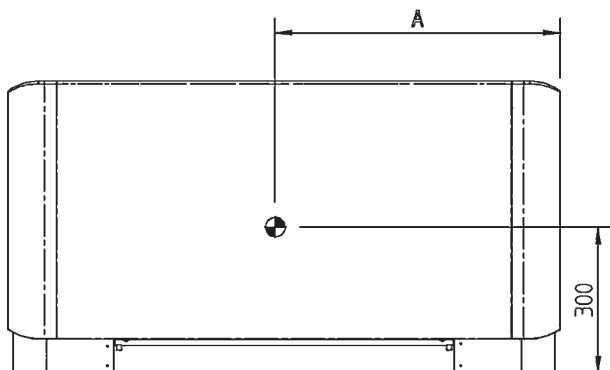
Item	Name	Description
1	Liquid pipe connection	ØA Flare connection
2	Gas pipe connection	ØB Flare connection
3	Drain pipe connection	O.D.Ø21
4	Switch box	
5	Air filter	

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8 Centre of gravity

8 - 1 Centre of Gravity

FXLQ-P



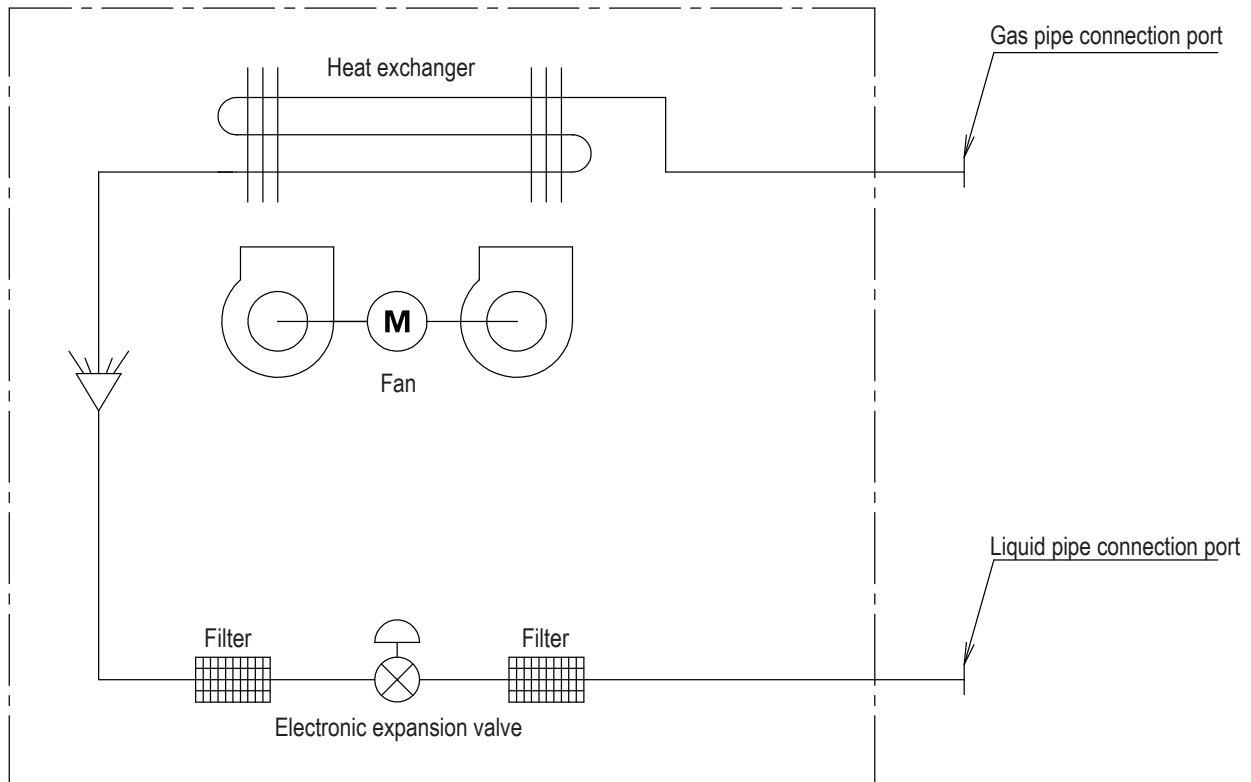
Model	A	B
FXLQ 20, 25 P	500	81
FXLQ 32, 40 P	588	89
FXLQ 50, 63 P	728	99

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9 Piping diagrams

9 - 1 Piping Diagrams

FXLQ-P



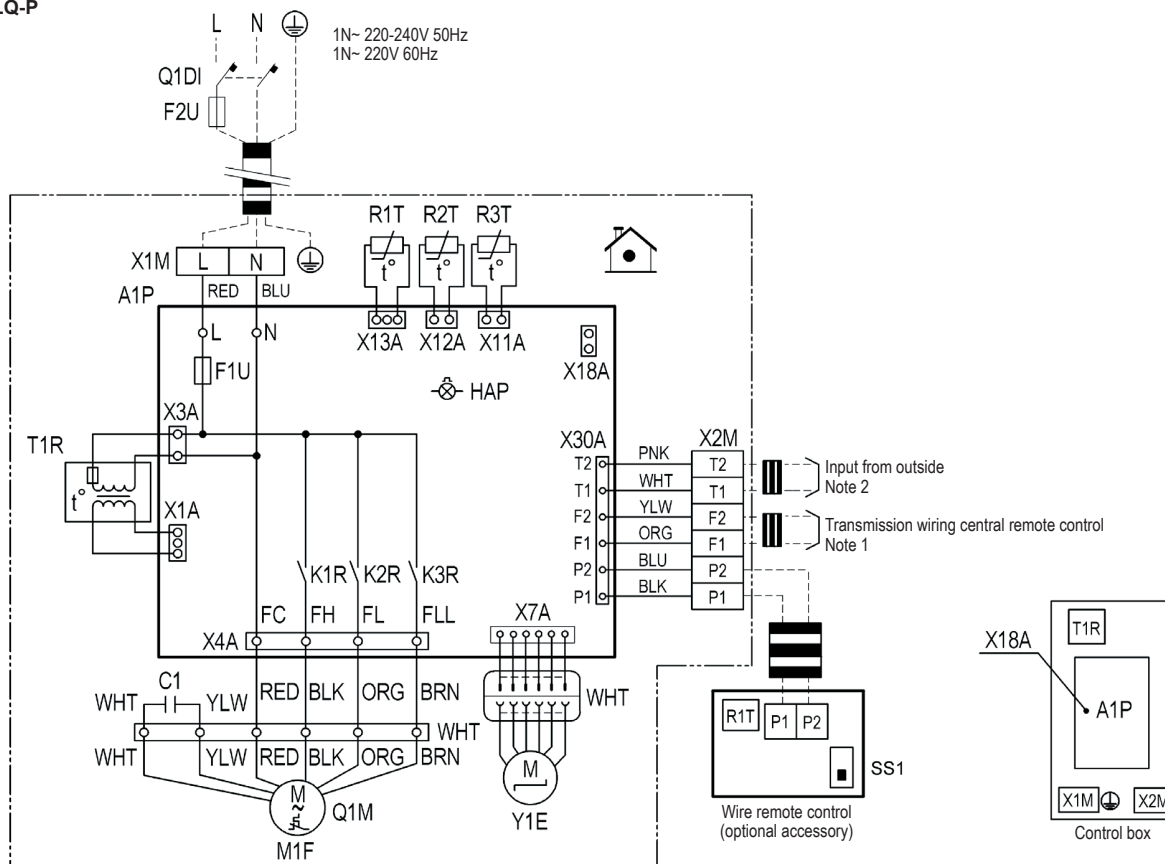
Applicable model

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 - 1 Wiring Diagrams - Single Phase

10



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

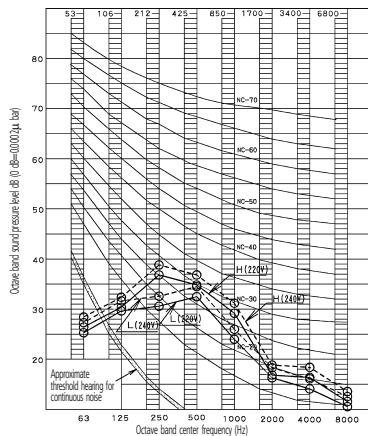
1. When using the central remote control see manual for connection to the unit.
2. When connecting the input wires from outside, forced "OFF" or "ON/OFF" operation can be selected by the remote control. See installation manual for more details.
3. Use copper conductors only.

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

11 Sound data

11 - 1 Sound Pressure Spectrum

FXLQ20,25P



NOTES

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

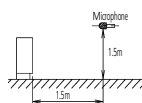
Scale	220V		240V	
	H	L	H	L
A	35	32	37	34
C	40	36.5	42	38.5

- Measuring place: Anechoic chamber

- Operating conditions:

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

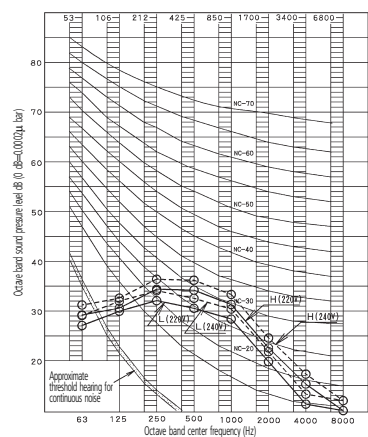
- Location of microphone



- Operating noise differs with operation and ambient conditions.

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FXLQ32P



NOTES

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

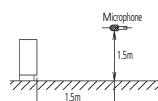
Scale	220V		240V	
	H	L	H	L
A	35	32	37	34
C	39	37	41	39

- 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.

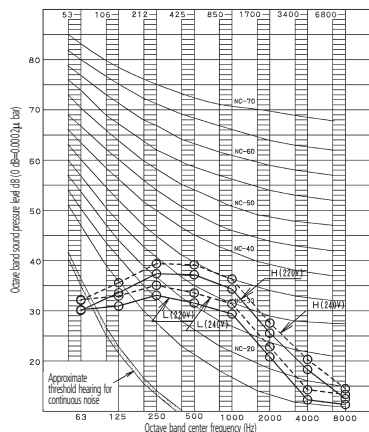
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11 Sound data

11 - 1 Sound Pressure Spectrum

11

FXLQ40P



NOTES

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

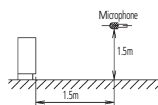
Scale	220V		240V	
A	H	L	H	L
C	42	38	44	40

- Measuring place: Anechoic chamber

- Operating conditions:

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

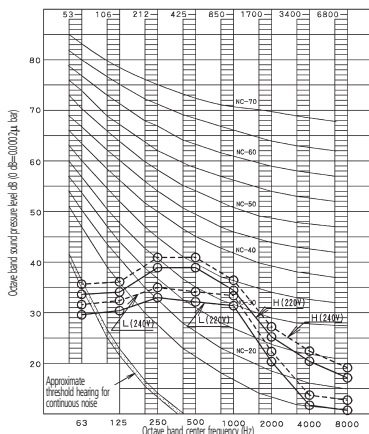
- Location of microphone



- Operating noise differs with operation and ambient conditions.

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FXLQ50P



NOTES

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

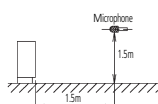
Scale	220V		240V	
A	H	L	H	L
C	44	38.5	46	40.5

- Measuring place: Anechoic chamber

- Operating conditions:

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

- Location of microphone



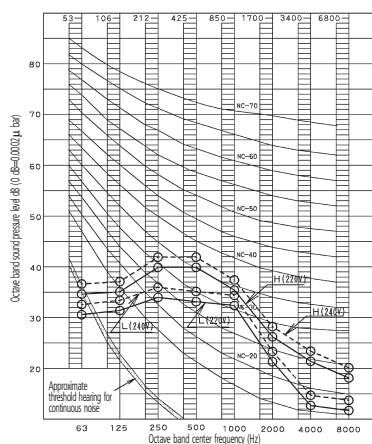
- Operating noise differs with operation and ambient conditions.

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11 Sound data

11 - 1 Sound Pressure Spectrum

FXLQ63P



NOTES

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

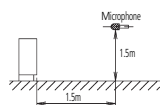
Scale	220V		240V	
A	H	L	H	L
C	40	35	42	37
	45	39.5	47	41.5

- Measuring place: Anechoic chamber

- Operating conditons:

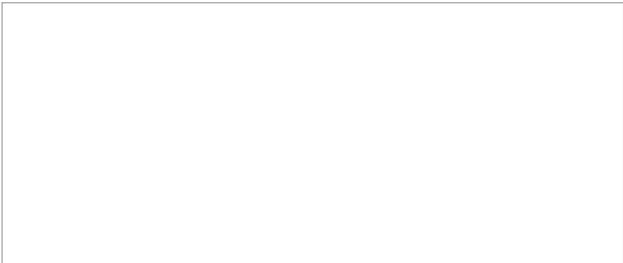
- Power source: 220•240V/220V 50/60Hz
- JIS standard

- Location of microphone



- Operating noise differs with operation and ambient conditions.

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