

Air Conditioners

Technical Data



TABLE OF CONTENTS

FTXN-L

1	Features	2
2	Specifications Technical Specifications Electrical Specifications	3
3	Dimensional drawings	
4	Piping diagrams	
5	Wiring diagrams - Single Phase	
6	Sound data Sound Pressure Spectrum	

1 Features

- Energy efficient units: full range A class energy labels
- Indoor unit silent operation: "silent" button on the remote control lowers the operation sound of the indoor unit by 3dBA
- Standard air filter removes airborne dust particles to ensure a steady supply of clean air
- 24 hour timer can be set to start heating or cooling anytime during a 24 hour period
- Vertical auto swing moves the discharge flaps up and down for efficient air and temperature distribution throughout the room
- · Powerful mode can be selected for rapid heating and cooling
- Flat, stylish front panel blends easily within any interior décor and is more easy to clean





















3 steps













2 Specifications

2-1 Technical S	pecifications				FTXN25L FTXN35L		FTXN50L FTXN60L			
Power input	Cooling	Nom.		kW	0.037	0.042	0.037	0.063		
	Heating	Nom.		kW	0.037	0.042	0.039	0.065		
Casing	Colour					White 288/800/212 310				
Dimensions	Unit	Depth		mm	288/8	00/212	310/1,065/229			
	Packed unit	Height/W Depth	/idth/	mm	350/894/280			136/314		
Weight	Unit			kg	!	9	1	4		
Heat exchanger	Rows	Quantity					2			
	Face area m²				0.	.18	0.	29		
	Tube material					Seamless Inner	Grooved Copper			
	Tube diameter mm						7			
	Fin	Туре				Aluminium (h	ydrophilic fin)			
Fan	Туре	•				Direct drive	cross flow fan			
	Air flow rate	Cooling	Super	m³/min	10.68	11.10		-		
1			high	cfm	378	392	578	703		
l			High	m³/min	9.78	10.14		-		
1				cfm	345	358	529	654		
			Nom.	m³/min	7.68	7.98		-		
				cfm	272	282	471	585		
			Low	m³/min	6.06	6.54		-		
				cfm	215	232	418	507		
			Silent	m³/min		68		-		
			operati	cfm	165		374	437		
			on							
		Heating	Super	m³/min	10.68	11.10		-		
			high	cfm	378	392	578	703		
			High	m³/min	9.78	10.14		-		
				cfm	345	358	529	654		
			Nom.	m³/min	7.68	7.98		-		
				cfm	272	282	471	585		
			Low	m³/min	6.06	6.54		-		
				cfm	215	232	418	507		
			Silent	m³/min	4.68 165			-		
			operati	cfm			374	437		
Fan mater	Madal		on		Induction		D. Maria			
Fan motor	Model						Brushless 20 ss "E"			
	Index of Protection				4	14 Class				
	Insulation grade Poles							0		
	Output	High		W		4 18	8 40			
Sound pressure level	Cooling	Super hig Nom./Lo	w/Silent	dBA	41/40/34/29/24	42/41/34/30/25	44/40/38/35/32	46/43/41/37/33		
		operation		dBA						
	Heating		Super high/High/ Nom./Low/Silent		41/40/34/29/24	42/41/34/30/25	44/40/38/35/32	46/43/41/37/33		
Refrigerant	Туре		1		<u>I</u> D_ <i>I</i> I					
Piping connections	Liquid	Type/OD		mm			valve/6.35			
i iping connections	Gas	Type/OD		mm	Flare valve/9.52		Flare valve/12.70 Flare valve/15.			
Air direction control					Auto louver (up & down) & grille (left & right)					
Air filter	Туре				Cor			e Saranet		
All III(CI	Quantity			nc	Saranet Washable Saranet 2					
Control	Operation			рс			ote control			
OUTILIOI	Ομεταιίστι					LOD Kelli	OLO COTILI OI			

2 Specifications

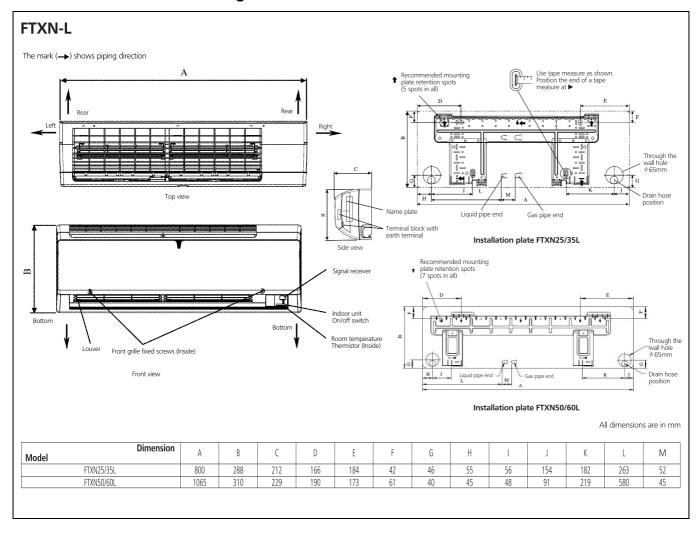
2-2 Electrical	Specifications			FTXN25L	FTXN35L	FTXN50L	FTXN60L		
Power supply	Name			V1					
	Phase			1~					
	Frequency		Hz	50					
	Voltage		٧	220-240					
Current	Nominal running	Cooling	Α		-	0.32	0.56		
	current (RLA) - 50Hz	Heating	Α	-		0.33	0.56		
Current - 50Hz	Nominal running current		Α	0.19	0.21		-		
Current - 60Hz	Nominal running curre	ent	Α		•	-			

Notes

- (1) All units are being tested and comply to ISO 5151 (Non-ducted unit)
- (2) All specifications are subjected to change by the manufacturer without prior notice.

3 Dimensional drawings

3 - 1 Dimensional Drawings



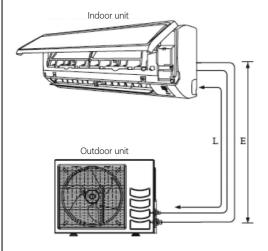
4 Piping diagrams

4 - 1 Piping Diagrams

FTXN-L

Allowable piping length

If the pipe is too long, both the capacity and reliability of the unit will drop. As the number of bends increases, resistance to the flow of refrigerant system increases, thus lowering cooling capacity. As a result, the compressor may become defective. Always choose the shortest path and follow the recommendations as tabulated below:



Model	FTXN25L	FTXN35L	FTXN50L	FTXN60L	
Min. allowable length (L), m		3	3		
Max. allowable length (L), m	15		3	0	
Max. allowable elevation (E), m	10		1	0	
Gas pipe size, mm/(inch)	9.52 (3/8″)		12.70 (1/2")	15.88 (5/8")	
Liquid pipe size, mm/(inch)	6.35 (1/4″)		6.35 (1/4")		

*Be sure to add the proper amount of additional refrigerant. Failure to do so may result in reduced performance.

Remark: The refrigerant pre-charged in the outdoor unit is for piping length up to 7.5m.

Additional charge

The refrigerant is pre-charged in the outdoor unit. If the piping length is less than 7.5m, then additional charge after vacuuming is not necessary. If the piping length is more than 7.5m, then use the additional charge value as indicated in the table.

Additional refrigerant charge [g] per additional 1m length as tabulated

Indoor	FTXN25L	FTXN35L	FTXN50L	FTXN60L
Outdoor	RXN25L	RXN35L	RXN50L	RXN60L
Additional charge [g/m]	20	20	20	20

Example:

FTXN25LV1B & RXN25LV1B with 12m piping length, additional piping length is 4.5m, Thus,

Additional charge $= 4.5[m] \times 20[g/m]$

= 90.0[q]

4 Piping diagrams

4 - 1 Piping Diagrams

FTXN-L

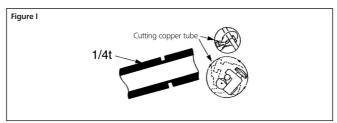
Piping works and flaring technique

- Do not use contaminated or damaged copper tubing.
 If any piping, evaporator or condensor had been
 exposed or had been opened for 15 seconds or more,
 the system must be vacuumed. Generally do not
 remove plastic, rubber plugs and brass nuts from the
 valves, fittings, tubing and coils until it is ready to
 connect suction or liquid line into valves or fittings.
- If any brazing work is required, ensure that nitrogen gas is passed through coil and joints while the brazing work is being done. This will eliminate soot formation on the inside wall of copper tubings.
- Cut the pipe stages by stages, advancing the blade of pipe cutter slowly. Extra force and a deep cut will cause more disortion of pipe and therefore extra burr. See figure I.
- Remove burrs from cut edges of the pipes with remover. See figure II. Hold the pipe on top position and burr removel at lower position to prevent metal chips from entering the pipe. This will avoid unevenness on the flare faces which will cause gas leak.
- Insert the flare nuts, mounted on the connection parts of both the indoor unit and outdoor unit, into the copper pipes.
- The exact length of pipe protruding from the top surface of the swaging block is determined by the flaring tool. See figure III.
- Fix the pipe firmly on the swaging block. Match the centers of both the swaging block and the flaring punch, then tighten the flaring punch fully.
- The refrigerant pipe connection are insulated by closed cell polyurethane.

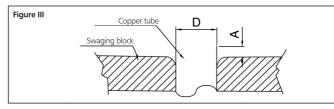
Piping connection to the units

- Align the center of the piping and tighten the flare nut sufficiently with fingers. See figure IV.
- Finally, tighten the flare nut with torque wrench untill the wrench clicks.
- When tightening the flare nut with the torque wrench, ensure that the tightening direction follows the arrow indicated on the wrench.
- The refrigerant pipe connection are insulated by closed cell polyurethane.

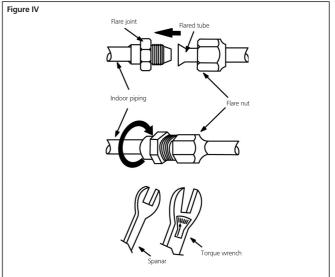
Pipe size, mm (inch)	Torque, Nm / (ft-lb)
6.35 (1/4")	18 (13.3)
9.52 (3/8″)	42 (31.0)
12.70 (1/2")	55 (40.6)
15.88 (5/8″)	65 (48.0)
19.05 (3/4″)	78 (57.6)





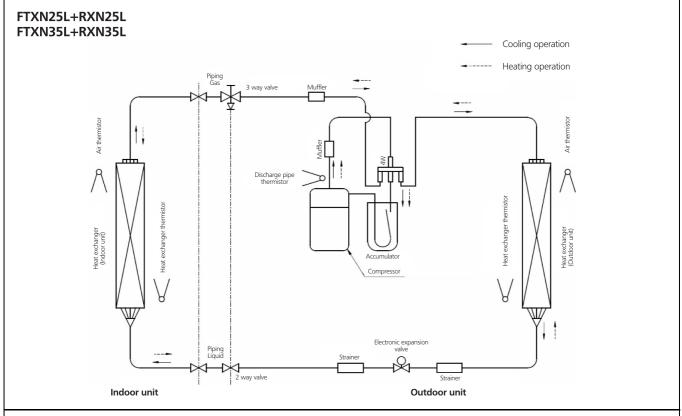


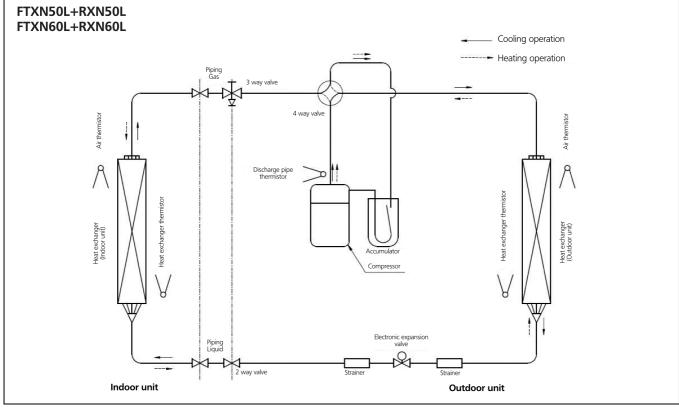
Ф Т	ube, D	A (mm)					
inch	mm	Imperial (Wing-nut type)	Rigid (Clutch type)				
1/4‴	6.35	1.3	0.7				
3/8″	9.52	1.6	1.0				
1/2"	12.70	1.9	1.3				
5/8″	15.88	2.2	1.7				
3/4‴	19.05	2.5	2.0				



4 Piping diagrams

4 - 1 Piping Diagrams





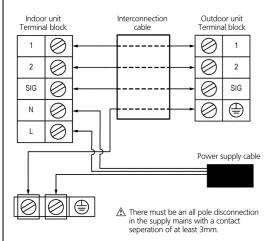
5 Wiring diagrams

5 - 1 Wiring Diagrams - Single Phase

FTXN-L+RXN-L

IMPORTANT:

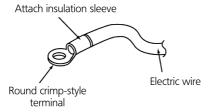
- * The figures shown in the table are for information purpose only. They should be checked and selected to comply with the local/national codes of regulations. This is also subject to the type of installation and conductors used.
- ** The appropriate voltage range should be checked with label data on the unit.



Model	FTXN25/35L RXN25/35L	FTXN50/60L RXN50/60L
Voltage range**	220V - 240V	/ 1Ph / 50Hz+ 🚇
Power supply cable size* mm ² Number of conductors	1.5 3	1.5 3
Interconnection cable size* mm² Number of conductors	1.5 4	1.5 4
Recommended time delay fuse A	15	20

^{*} If the length of the cable is more than 2m, use cable with bigger size.

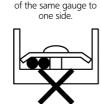
- All wires must be firmly connected.
- Make sure all the wires do not touch the refrigerant pipings, compressor or any moving parts.
- The connecting wire between the indoor and the outdoor unit must be clamped by using provided cord anchorage.
- The power supply cord must be equivalent to H07RN-F which is the minimum requirement.
- Make sure no external pressure is applied to the terminal connectors and wires.
- Make sure all the covers are properly fixed to avoid any gap.
- Use round crimp-style terminal for connecting wires to the power supply terminal block. Connect the wires by matching to the indication on terminal block. (Refer to the wiring diagram attached to the unit.)



- Use the correct screwdriver for terminal screw tightening. Unsuitable screwdrivers can damage the screw head.
- Over tightening can damage the terminal screws.
- Do not connect wire of different gauge to same terminal.
- Keep wiring in an orderly manner. Prevent the wiring from obstructing other parts and the terminal box cover.



Connect wires of the

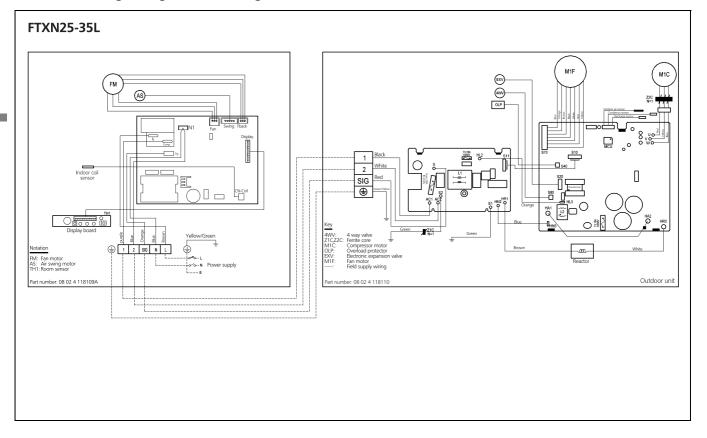


Do not connect wires



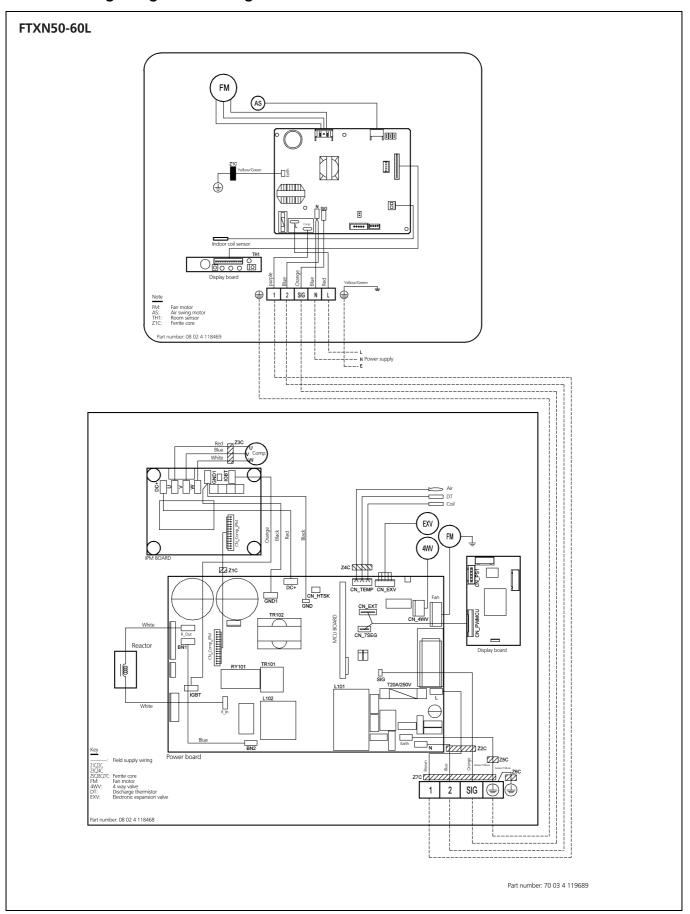
5 Wiring diagrams

5 - 1 Wiring Diagrams - Single Phase

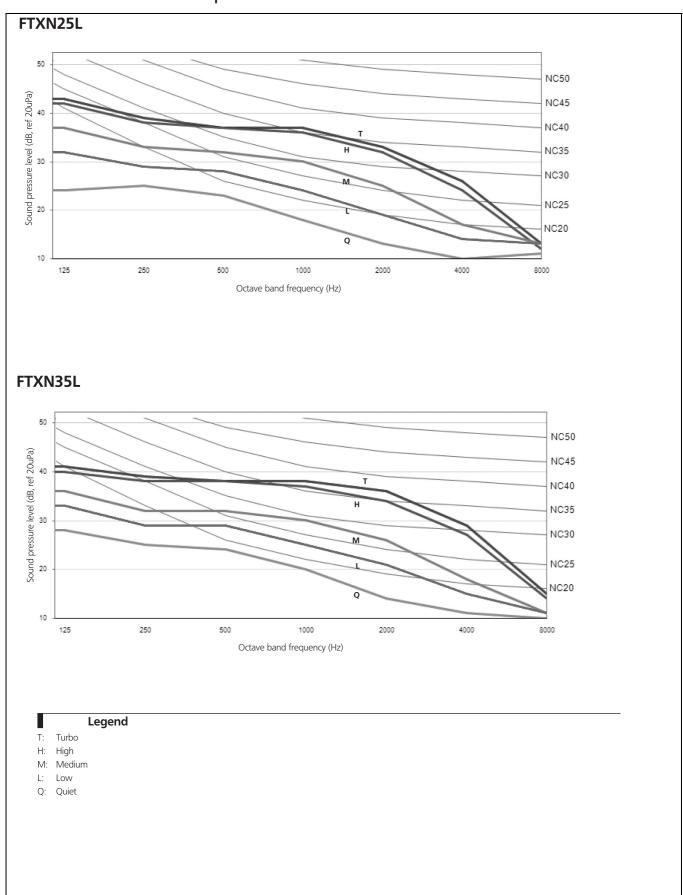


5 Wiring diagrams

5 - 1 Wiring Diagrams - Single Phase



6 - 1 Sound Pressure Spectrum

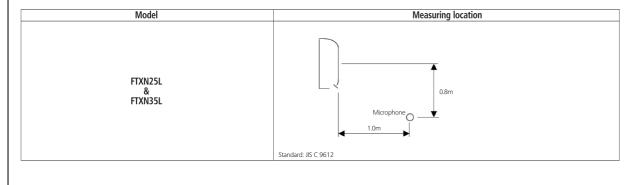


6 - 1 Sound Pressure Spectrum

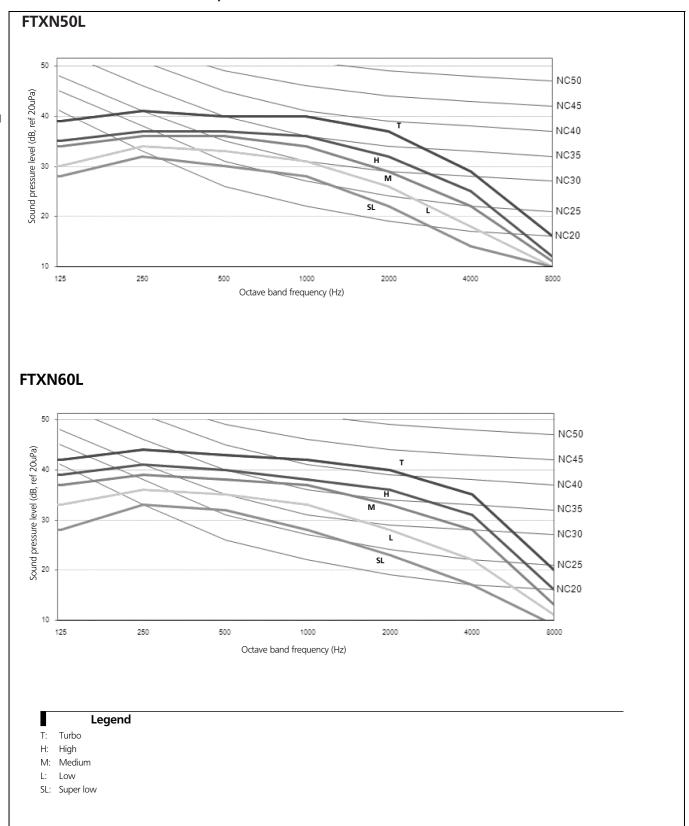
FTXN25-35L

Sound pressure level

Model	Speed		1/1 Octave	A-Weighte	d Sound Pre	ssure (dBA),	ref. 20µPa		Overall	Noise
Wodel	speed	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	(dBA)	Criteria
	Turbo	43	39	37	37	33	26	13	41	36
	High	42	38	37	36	32	24	12	40	35
FTXN25L	Medium	37	33	32	30	25	17	13	34	29
	Low	32	29	28	24	19	14	13	29	22
	Quiet	24	25	23	18	13	10	11	24	-
	Turbo	41	39	38	38	36	29	15	42	37
	High	40	38	38	37	34	27	14	41	36
FTXN35L	Medium	36	32	32	30	26	18	11	34	29
	Low	33	29	29	25	21	15	11	30	23
	Quiet	28	25	24	20	14	11	10	25	-



6 - 1 Sound Pressure Spectrum

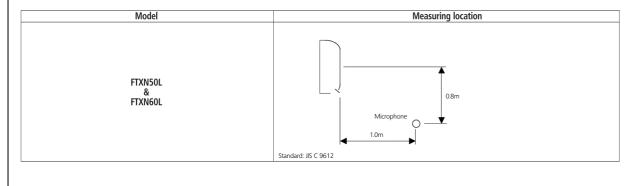


6 - 1 Sound Pressure Spectrum

FTXN50-60L

Sound pressure level

Model	Speed		1/1 Octave	A-Weighte	d Sound Pre	ssure (dBA),	ref. 20µPa		Overall	Noise
Wiodei	Speed	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	(dBA)	Criteria
	Turbo	39	41	40	40	37	29	16	44	39
	High	35	37	37	36	32	25	12	40	35
FTXN50L	Medium	34	36	36	34	29	22	11	38	33
	Low	30	34	33	31	26	18	10	35	30
	Quiet	28	32	30	28	22	14	10	32	26
	Turbo	42	44	43	42	40	35	20	46	41
	High	39	41	40	38	36	31	16	43	37
FTXN60L	Medium	37	39	38	37	33	28	13	41	36
	Low	33	36	35	33	28	22	11	37	32
	Quiet	28	33	32	28	23	17	9	33	26





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.









Daikin Europe N.V. participates in the Eurovent Certification programme for Air conditioners (AC), Liquid Chilling Packages (LCP), Air handling units (AHU) and Fan coil units (FCU), Check ongoing validity of certificate online: www.eurovent-certification.com or using: www.certiflash.com*

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