

Air Conditioners

Technical Data

Wall mounted unit



EEDEN12-005

FTYN-L

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FTYN-L

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1 Features

- Energy efficient units: up to class A energy labels
- 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
- Wide angle louvers provide a comfortable air flow throughout the entire room
- Flat, stylish front panel blends easily within any interior décor and is more easy to clean

1



3 steps



standard

2 Specifications

2-1 Technical Specifications					FTYN25L		FTYN35L		FTYN50L		FTYN60L	
Power input	Cooling	Nom.	kW		0.032		0.040		0.057		0.072	
	Heating	Nom.	kW		0.032		0.040		0.057		0.072	
Casing	Colour				White							
Dimensions	Unit	Height/Width/Depth	mm		288/800/206				310/1,065/224			
	Packed unit	Height/Width/Depth	mm		344/874/274				370/1,121/285			
Weight	Unit		kg		9				14			
Heat exchanger	Rows	Quantity			2							
	Face area		m²		0.18				0.29			
	Tube material				Seamless Inner Grooved Copper							
	Tube diameter		mm		7							
	Fin	Type			Aluminium (hydrophilic fin)							
Fan	Type				Cross flow fan							
	Air flow rate	Cooling	Super high	m³/min	10.14	10.56		16.14		18.18		
				cfm	358	372		570		641		
			High	m³/min	9.66	10.08		15.18		17.40		
				cfm	342	355		536		614		
			Nom.	m³/min	7.98	8.46		13.56		15.18		
				cfm	282	298		478		537		
			Low	m³/min	6.36	6.84		12.00		13.44		
				cfm	225	242		424		474		
		Silent operation	m³/min	5.94	6.36		10.62		11.82			
			cfm	209	225		375		418			
		Heating	Super high	m³/min	10.14	10.56		16.14		18.18		
				cfm	358	372		570		641		
			High	m³/min	9.66	10.08		15.18		17.40		
				cfm	342	355		536		614		
	Nom.		m³/min	7.98	8.46		13.56		15.18			
			cfm	282	298		478		537			
	Low		m³/min	6.36	6.84		12.00		13.44			
			cfm	225	242		424		474			
	Silent operation	m³/min	5.94	6.36		10.62		11.82				
		cfm	209	225		375		418				
Fan motor	Model				1-Phase SCR							
	Index of Protection				20				44			
	Insulation grade				Class "E"							
	Poles				4							
	Drive				Direct drive							
	Output	High	W		18				26		30	
Sound pressure level	Cooling	Super high/High/ Nom./Low/Silent operation	dBA		39/38/33/27/25		41/40/35/29/27		44/42/39/36/34		48/46/43/40/37	
	Heating	Super high/High/ Nom./Low/Silent operation	dBA		39/38/33/27/25		41/40/35/29/27		44/42/39/36/34		48/46/43/40/37	
Refrigerant	Type				R-410A							
Piping connections	Drain				19				19.05			
Air direction control					Non Ducted							
Air filter	Type				Saranet							
	Quantity			pc	2							
Control	Operation				LCD Remote control							

2 Specifications

2-2 Electrical Specifications				FTYN25L	FTYN35L	FTYN50L	FTYN60L
Power supply	Name			V1			
	Phase			1~			
	Frequency	Hz		50			
	Voltage	V		220-240			
Current	Nominal running current (RLA) - 50Hz	Cooling	A	0.17	0.20	0.27	0.34
		Heating	A	0.17	0.20	0.27	0.34
Current - 60Hz	Nominal running current	A		-			

Notes

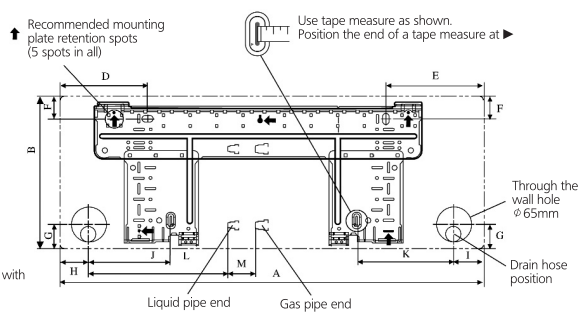
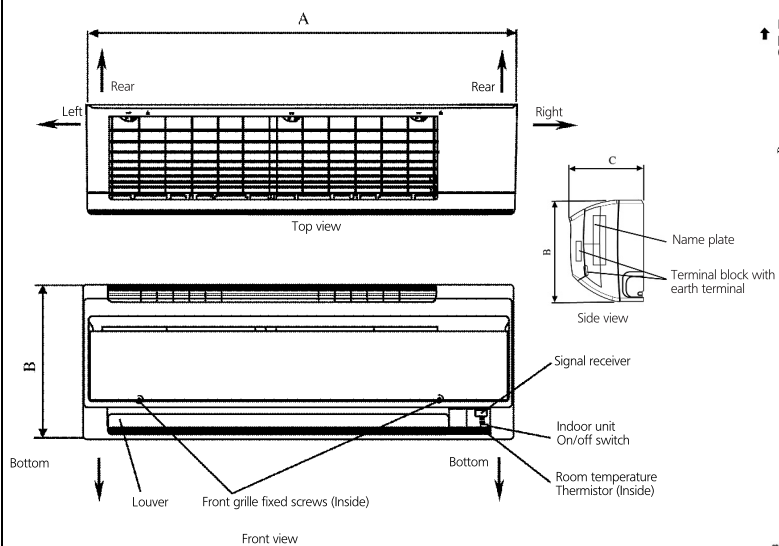
- (1) All units are being tested and comply to ISO 5151 (Non-ducted unit)
 (2) All specifications are subjected to change by the manufacturer without prior notice.

3 Dimensional drawings

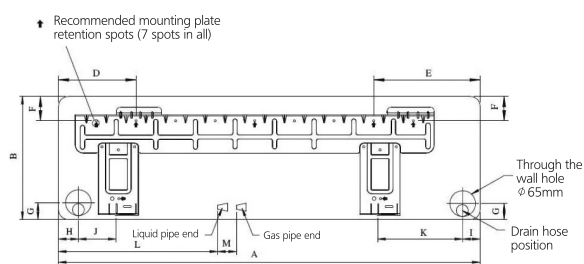
3 - 1 Dimensional Drawings

FTYN-L

The mark (→) shows piping direction



Installation plate FTYN25/35L



Installation plate FTYN50/60L

All dimensions are in mm

Model	Dimension	A	B	C	D	E	F	G	H	I	J	K	L	M
FTYN25/35L		800	288	206	166	184	42	46	55	56	154	182	263	52
FTYN50/60L		1065	310	224	190	173	61	40	45	48	91	219	580	45

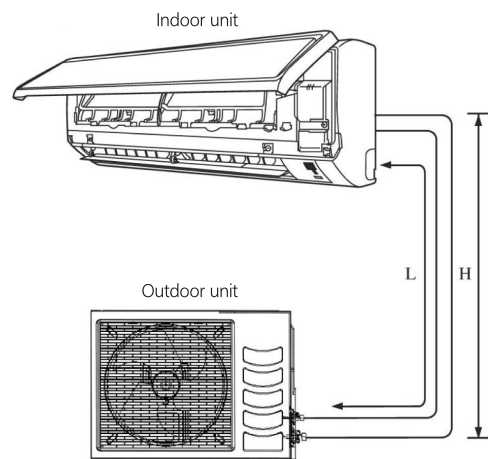
4 Piping diagrams

4 - 1 Piping Diagrams

FTYN-L+RYN-L

Max. 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	Indoor	FTYN25L	FTYN35L	FTYN50L	FTYN60L
	Outdoor	RYN25L	RYN35L	RYN50L	RYN60L
Min. allowable length, m		3		3	
Max. allowable length, m		12		15	
Max. allowable elevation, m		5		8	
Liquid, mm/(inch)		6.35 (1/4")			
gas, mm/(inch)		9.52 (3/8")	12.70 (1/2")		15.88 (5/8")

*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 7.6m / 25ft.

Additional charge

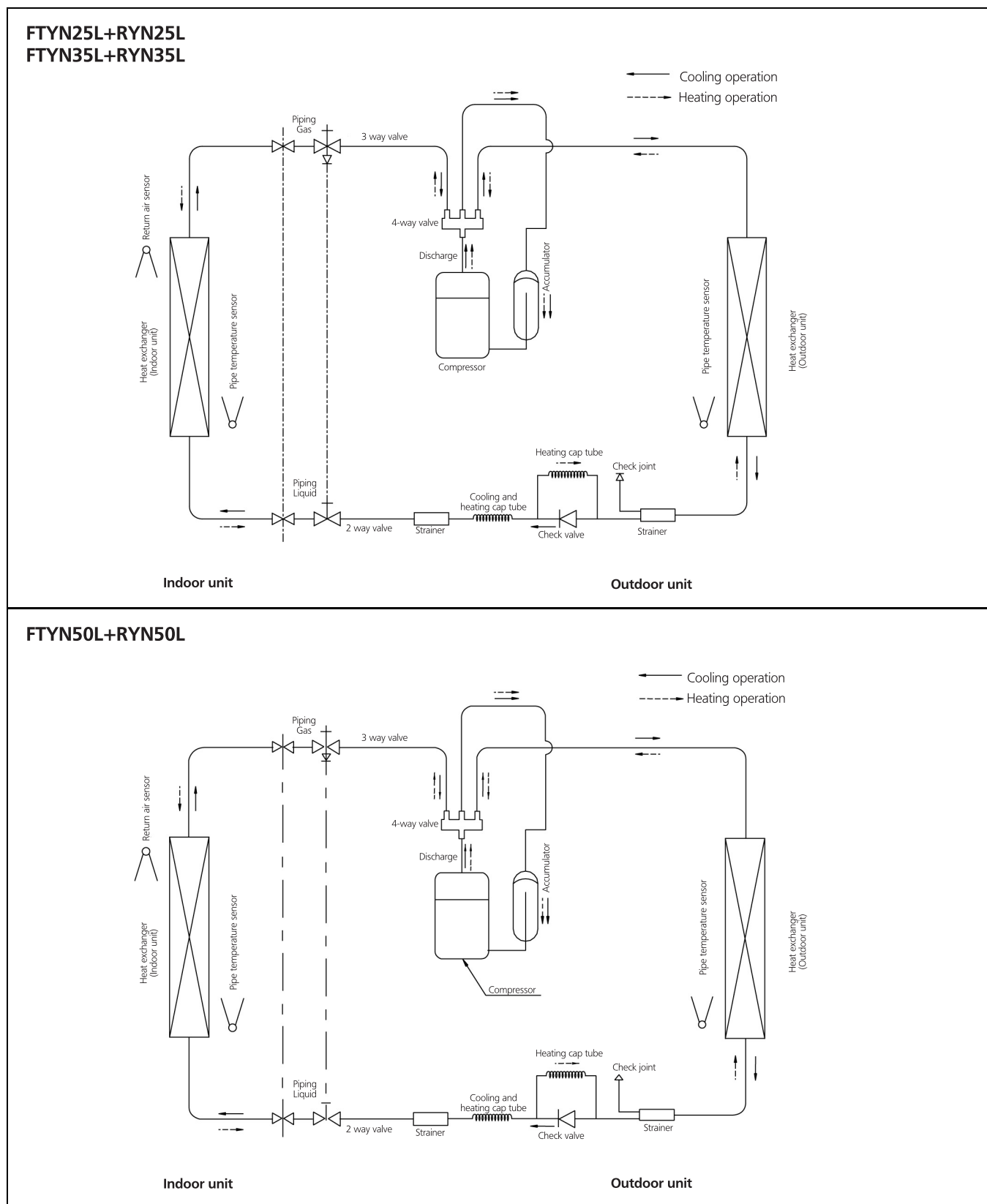
The refrigerant is pre-charged in the outdoor unit. If the piping length is less than 7.6m, then additional charge after vacuuming is not necessary. If the piping length is more than 7.6m, then is the additional charge value as indicated in the table.

Additional refrigerant charge [g] per additional 1m length as tabulated (For R410A models)

Model	Indoor	FTYN25L	FTYN35L	FTYN50L	FTYN60L
	Outdoor	RYN25L	RYN35L	RYN50L	RYN60L
Additional charge [g/m]		16			

4 Piping diagrams

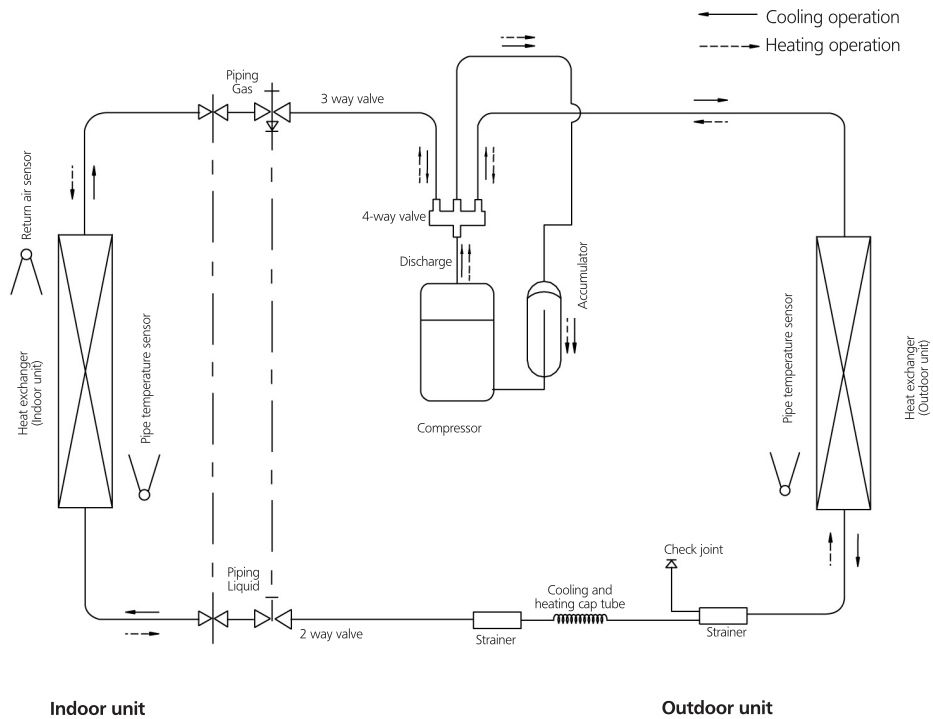
4 - 1 Piping Diagrams



4 Piping diagrams

4 - 1 Piping Diagrams

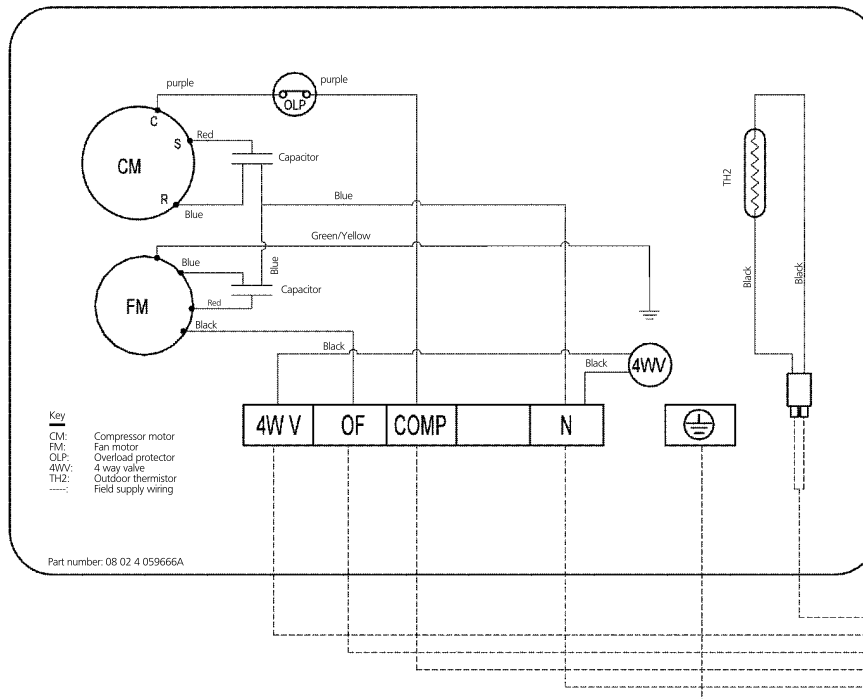
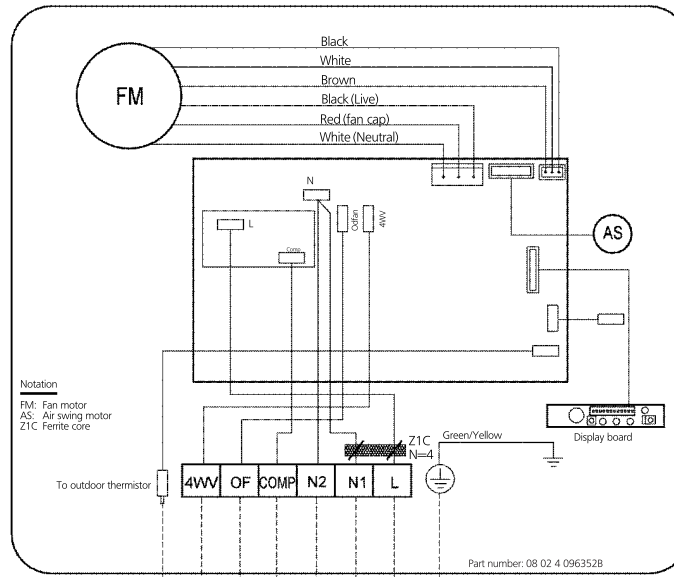
FTYN60L+RYN60L



5 Wiring diagrams

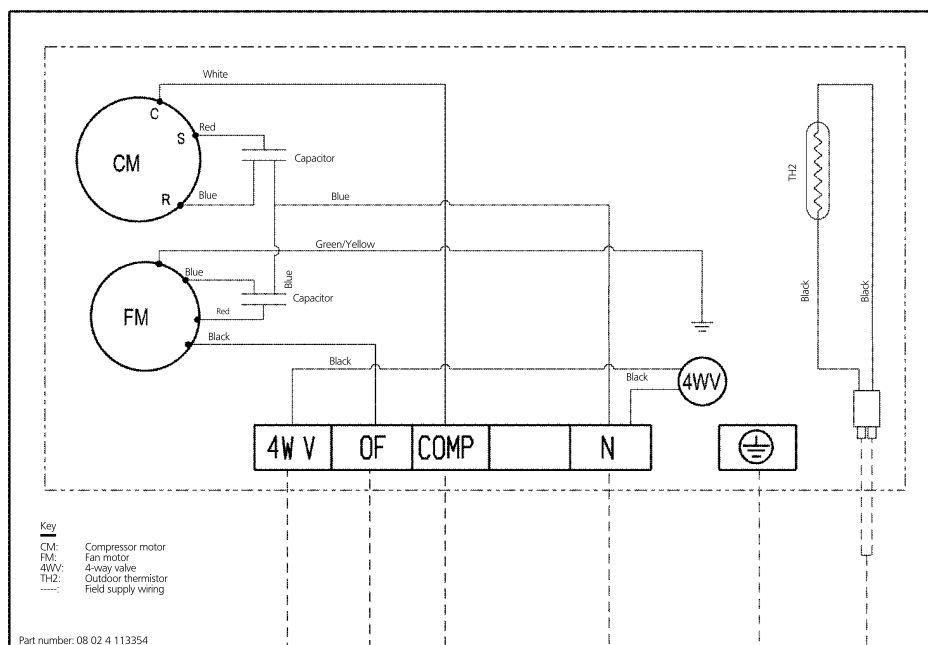
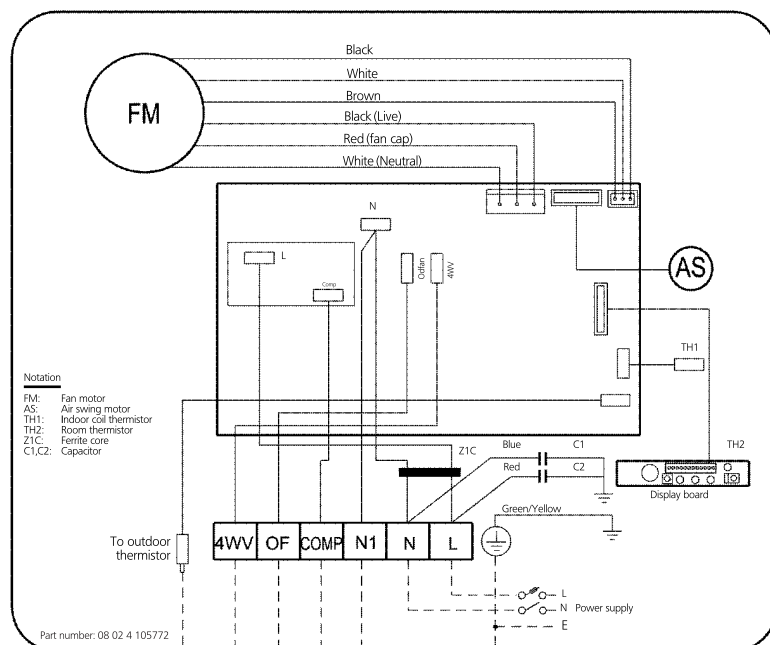
5 - 1 Wiring Diagrams - Single Phase

FTYN25-35L



5 Wiring diagrams

5 - 1 Wiring Diagrams - Single Phase

FTYN50-60L

6 Sound data

6 - 1 Sound Pressure Spectrum

FTYN-L

Sound pressure level

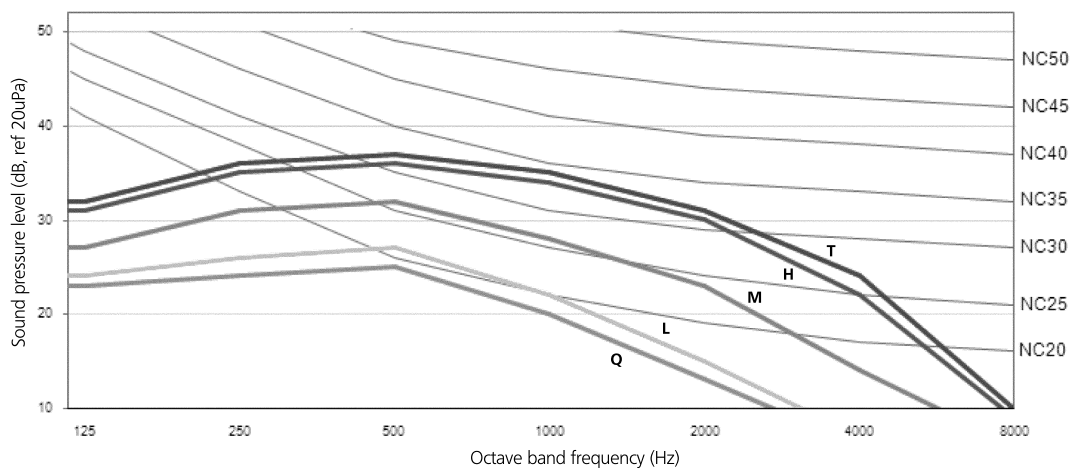
Model	Speed	1/1 Octave A-Weighted Sound Pressure (dBA), ref. 20μPa							Overall (dBA)	Noise Criteria
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz		
FTYN25L	Turbo	32	36	37	35	31	24	10	39	34
	High	31	35	36	34	30	22	9	38	33
	Medium	27	31	32	28	23	14	6	33	26
	Low	24	26	27	22	15	7	7	27	21
FTYN35L	Quiet	23	24	25	20	13	6	5	25	-
	Turbo	36	38	38	37	34	26	14	41	36
	High	34	37	38	36	33	25	13	40	35
	Medium	31	33	34	30	26	17	11	35	29
FTYN50L	Low	30	28	29	24	19	11	10	29	23
	Quiet	29	27	28	23	18	11	10	28	22
	Turbo	23	32	37	40	38	29	17	44	39
	High	21	31	36	38	36	27	15	42	37
FTYN60L	Medium	17	28	34	35	32	23	13	39	34
	Low	14	26	31	32	29	20	12	36	32
	Quiet	12	25	31	31	27	20	13	34	30
	Turbo	42	44	44	44	42	34	22	48	43
FTYN60L	High	40	42	42	42	39	32	20	46	41
	Medium	37	39	39	39	36	27	19	43	37
	Low	34	37	37	36	32	24	18	40	35
	Quiet	31	35	35	33	29	22	18	37	32

Model	Measuring location
FTYN25L FTYN35L FTYN50L FTYN60L	Standard: JIS C 9612

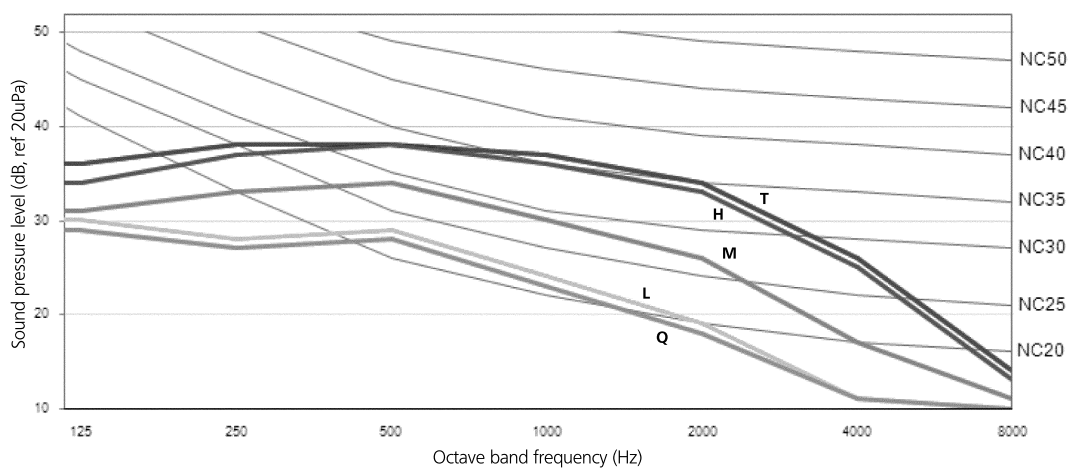
6 Sound data

6 - 1 Sound Pressure Spectrum

FTYN25L



FTYN35L



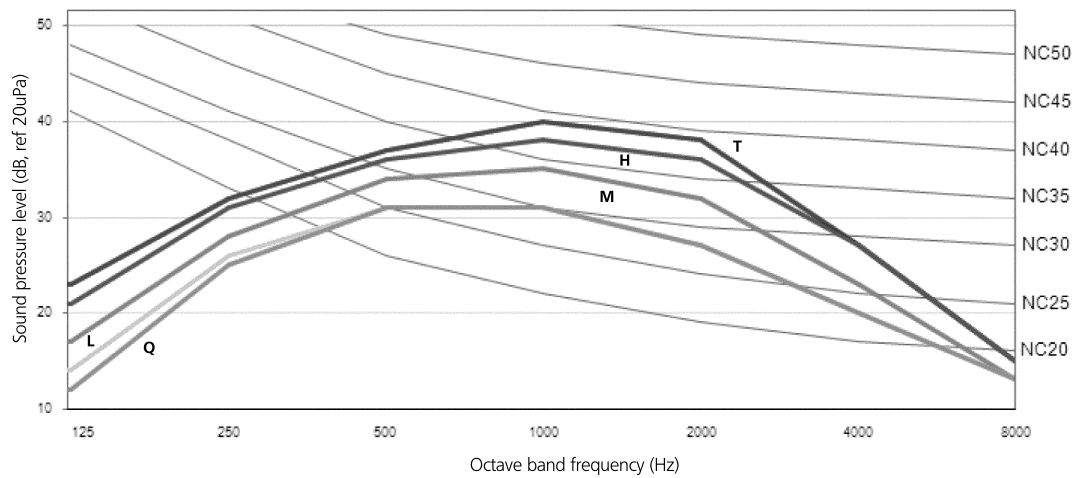
Legend

- T: Turbo
- H: High
- M: Medium
- L: Low
- Q: Quiet

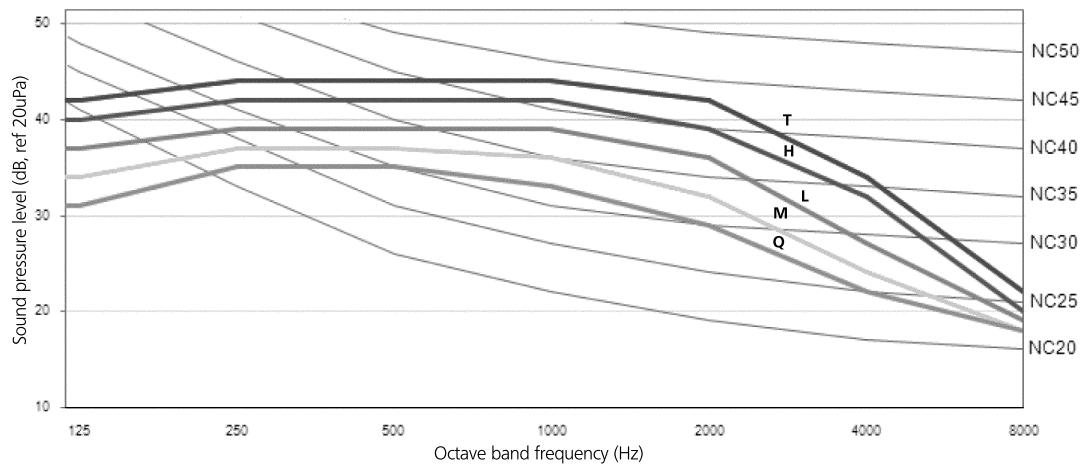
6 Sound data

6 - 1 Sound Pressure Spectrum

FTYN50L



FTYN60L



Legend

- T: Turbo
- H: High
- M: Medium
- L: Low
- Q: Quiet

7 Installation

7 - 1 Installation Method

FTYN-L

Troubleshooting

Indicator lights

IR Signal receiver

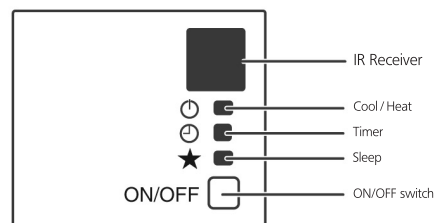
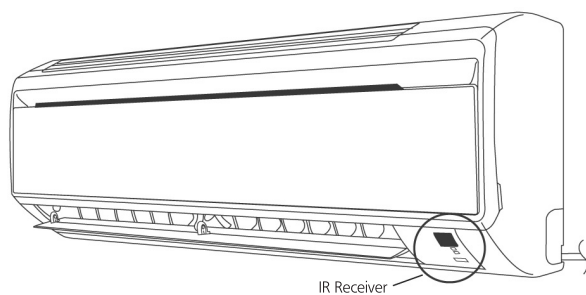
When an infra red remote control operating signal has been transmitted, the signal receiver on the indoor unit will respond as below to confirm acceptance of the signal transmission.

ON to OFF	1 Long beep
OFF to ON Pump down / cool force on	2 Short beep
Others	1 Short beep

Cooling unit / Heat pump unit

The table below shows the LED indicator lights for the air conditioner unit under normal operation and fault conditions. The LED lights are located at the middle of the air conditioner unit.

The heat pump units are equipped with an "auto" mode sensor whereby it will provide reasonable room temperature by switching automatically to either "cool" or "heat" mode according to the temperature set by the user.



7 Installation

7 - 1 Installation Method

FTYN-L

LED indoor lights: Normal operation and fault conditions for cooling / heat pump unit

	 cool/heat (Green / Red)		Error code	Normal operation / Fault indication	Action
	 Green		-	Cool mode	-
	 Red		-	Heat mode	-
	 Red		-	Auto mode in heating operation	-
	 Green		-	Auto mode in cooling operation	-
	 Green		-	Time on	-
	 Green		-	Sleep mode on	-
	 Green		-	Fan mode on	-
	 Green		-	Dry mode on	-
	 Green		Blink E1	Room air sensor contact loose / short	Check room sensor connection / change room air sensor
	 Green		Blink E3	Outdoor coil sensor open	Check outdoor coil sensor connection / change outdoor coil sensor
	 Green		Blink E2	Indoor coil sensor open	Check indoor coil sensor connection / change indoor coil sensor
	 Green		Blink E4	Compressor overload / indoor coil sensor short / outdoor coil sensor short	If running ampere highly increase, change the compressor. If not, replace the coil sensor.
	 Green		-	Defrost operation	-
	 Green		Blink E5	Gas leak	Top up refrigerant / Check for Leakage
	 Green		Blink E8	Hardware error (tact switch pin short)	Contact your distributor
	 Green		Blink E9	No feedback from indoor fan	Contact your distributor
	 Green		Blink EE	EEPROM defrost	Contact your distributor

 ON
  ON or OFF
  Blinking

Note: The unit will not detect sensor missing when the compressor is ON.



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.

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