

Wall mounted unit Technical Data FWT-HTV



FWT02HATVMV1
FWT03HATVMV1
FWT04HATVMV1
FWT05HATVMV1
FWT06HATVMV1

TABLE OF CONTENTS

FWT-HTV

1	Features	4
	FWT-HTV	4
2	Specifications	5
3	Options	7
4	Dimensional drawings	8
5	Piping diagrams	9
6	Wiring diagrams	10
	Wiring Diagrams - Single Phase	10
7	Sound data	11
	Sound Pressure Spectrum	11
8	Installation	14
	Exploded view	14

1 Features

1 - 1 FWT-HTV

BLDC fan motor unit for wall mounting ..

- 1
 - › Modern style decoration panel in white
 - › DC fan-motor
 - › 5 different sizes from 2.4 kW to 5.3 kW
 - › 230V ON-OFF internal 3-way valve available as factory mounted
 - › Double filtration stage (Gin-Ion filter + PM2.5 filter)

- › Using electrons to trigger chemical reactions with air borne particles, the Flash Streamer breaks down allergens such as pollen and fungal allergens and removes bothersome odours providing a better, cleaner air
- › Modbus gateway available as accessory for BMS integration



Flash Streamer

2 Specifications

2 - 1 Specifications

Technical specifications				FWT02HTV		FWT03HTV		FWT04HTV		FWT05HTV		FWT06HTV		
Cooling capacity (standard conditions)	Latent capacity 2-pipe	High	kW	0.66 (1)		0.63 (1)		0.88 (1)		0.98 (1)		1.09 (1)		
		Sensible capacity 2-pipe	Low	kW	1.52 (1)		1.61 (1)		1.88 (1)		2.64 (1)		3.19 (1)	
	Total capacity 2-pipe	Medium	kW	1.70 (1)		1.85 (1)		2.37 (1)		3.17 (1)		3.58 (1)		
		High	kW	1.77 (1)		2.07 (1)		2.61 (1)		3.56 (1)		4.19 (1)		
	Heating capacity (standard conditions)	Capacity 2-pipe	Low	kW	2.11 (1)		2.23 (1)		2.58 (1)		3.37 (1)		4.07 (1)	
			Medium	kW	2.32 (1)		2.55 (1)		3.19 (1)		4.07 (1)		4.54 (1)	
			High	kW	2.43 (1)		2.70 (1)		3.49 (1)		4.54 (1)		5.28 (1)	
Power input	Low	Med.	kW	1.96 (2)		2.02 (2)		2.64 (2)		4.04 (2)		4.54 (2)		
		High	kW	2.37 (2)		2.40 (2)		3.19 (2)		4.54 (2)		4.89 (2)		
		High	kW	2.73 (2)		2.96 (2)		3.72 (2)		4.89 (2)		6.24 (2)		
FCEER CLASS								A (1)				B (1)		
FCCOP CLASS				A (2)				B (2)						
Dimensions	Unit	Height	mm	288				317						
		Width	mm	870				1,089						
		Depth	mm	234				275						
	Packed unit	Height	mm	314				366						
		Width	mm	930				1,173						
		Depth	mm	357				395						
		Weight	Unit	kg	10				14.6					
Casing	Colour		White											
	Material		High impact polystyrene											
Heat exchanger	Type		Seamless copper tubing, mechanically bonded to rippled and louvred aluminum fins.											
	Height	mm	336				378							
	Length	mm	585				790							
	Circuits	Quantity	4				9							
	Rows	Quantity	2											
	Fin	Type	Aluminium (hydrophilic fin)											
		Thickness	m²	0.1										
	Tube material		Copper											
	Tube type		Plain											
	Tube internal diameter	mm	6.44											
	Tube step		Do not use											
	Heat exchanger	Tube thickness	mm	0.28				0.98						
Water volume		l	0.63											
Air direction control				Automatic louver (up & down)										
Air filter	Type		Gin-Ion Filter											
	Quantity	pc	2											
Fan	Type		Cross flow fan											
	Quantity		1											
	Air flow rate	Low	m³/h	340 (3)	357 (3)	425 (3)	663 (3)	782 (3)						
		Medium	m³/h	391 (3)	416 (3)	544 (3)	765 (3)	883 (3)						
High		m³/h	442 (3)	476 (3)	629 (3)	866 (3)	1,053 (3)							
Fan motor	Model		D1C38S8P11-BOM				M3WMY10/15/18/25A-1							
	Type		DC Motor											
	Index of Protection		40				24							
	Insulation grade		Class "E"											
	Poles		8											
Insulation material				PE										
Total sound power level	Low	dBA	39 (4)				45 (4)		48 (4)		51 (4)			
	Medium	dBA	43 (4)		44 (4)		52 (4)		51 (4)		54 (4)			
	High	dBA	46 (4)		49 (4)		55 (4)		59 (4)					
Sound pressure level	Low	dBA	25 (5)		26 (5)		32 (5)		34 (5)		39 (5)			
	Medium	dBA	29 (5)		30 (5)		39 (5)		38 (5)		42 (5)			
	High	dBA	34 (5)		35 (5)		42 (5)		46 (5)					
Water flow	Cooling	Low	l/h	364	439	444	583	701						
		Medium	l/h	400	467	551	704	781						
		High	l/h	419	467	599	781	906						
	Heating	High	l/h	419	467	599	781	906						
		Low	l/h	364	439	444	583	701						
		Medium	l/h	400	467	551	704	781						
	Water pressure drop	Cooling	Low	kPa	17	18	24	13	20					
			Medium	kPa	20	23	34	18	26					
			High	kPa	26	30	46	25	33					
		Heating	Low	kPa	18 (2)	20 (2)	23 (2)	19 (2)	28 (2)					
			Medium	kPa	21 (2)	25 (2)	32 (2)	22 (2)	34 (2)					
			High	kPa	27 (2)	32 (2)	44 (2)	31 (2)	45 (2)					

2 Specifications

2 - 1 Specifications

2

Technical specifications				FWT02HTV	FWT03HTV	FWT04HTV	FWT05HTV	FWT06HTV
Piping connections	Water	Inlet				3/4"		
		Outlet				3/4"		
	Drain	OD	mm			16.5		
Electrical specifications				FWT02HTV	FWT03HTV	FWT04HTV	FWT05HTV	FWT06HTV
Power supply	Type					220-240 / 1 / 50		
	Phase					1~		
	Frequency	Hz				50		
	Voltage	V				220-240		
Current input	Low	A		0.07		0.09	0.11	0.16
	Medium	A		0.08		0.12	0.16	0.22
	High	A		0.10		0.16	0.22	0.32
Fan motor	Power input	Low	kW	0.007		0.010	0.015	0.020
		Medium	kW	0.008	0.009	0.016	0.020	0.027
		High	kW	0.010	0.012	0.020	0.025	0.043
	Running current	Low	A	0.07		0.09	0.11	0.16
		Medium	A	0.08		0.12	0.16	0.22
		High	A	0.10		0.16	0.22	0.32

(1)Cooling: indoor temp. 27°CDB, 19°CWB; entering water temp. 7°C, water temperature rise 5K. |

(2)Heating: 2 pipe: air 20°CDB; entering water 45°C, water temperature drop 5K. |

(3)Air flow at 0Pa ESP |

(4)Sound power level according to ISO3741 |

(5)Sound pressure measured at 1m in front of the unit and 0.8m below the vertical centre line of the unit (JIS C 9612).

3 Options

3 - 1 Options

FWT-HTV

3

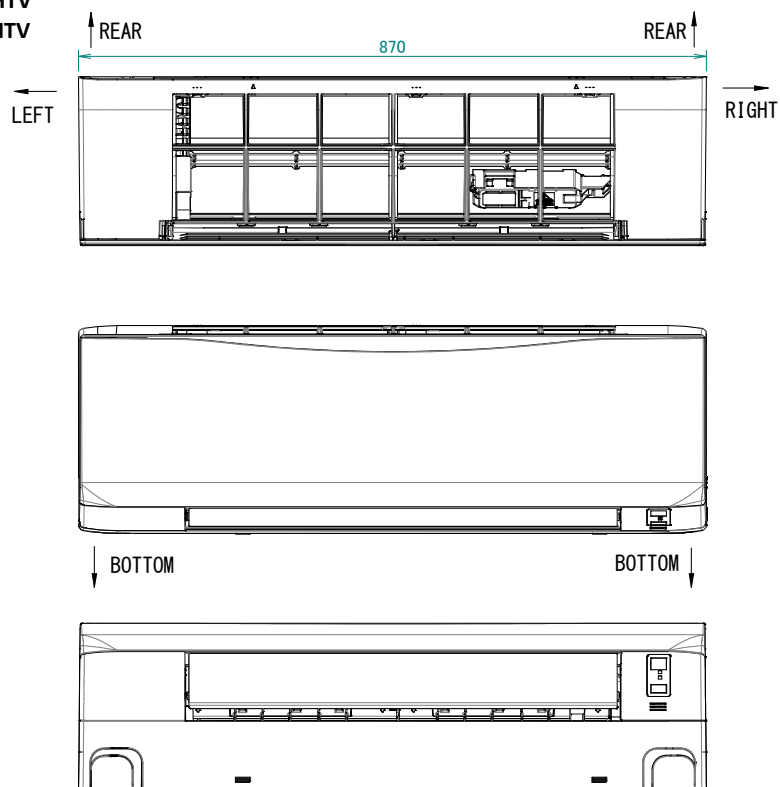
Wired remote controller	BRC51D67
Wireless remote controller	ARC485B2
Modbus gateway (*)	FCBAG

(*) does not necessarily require a connection to the wired remote controller

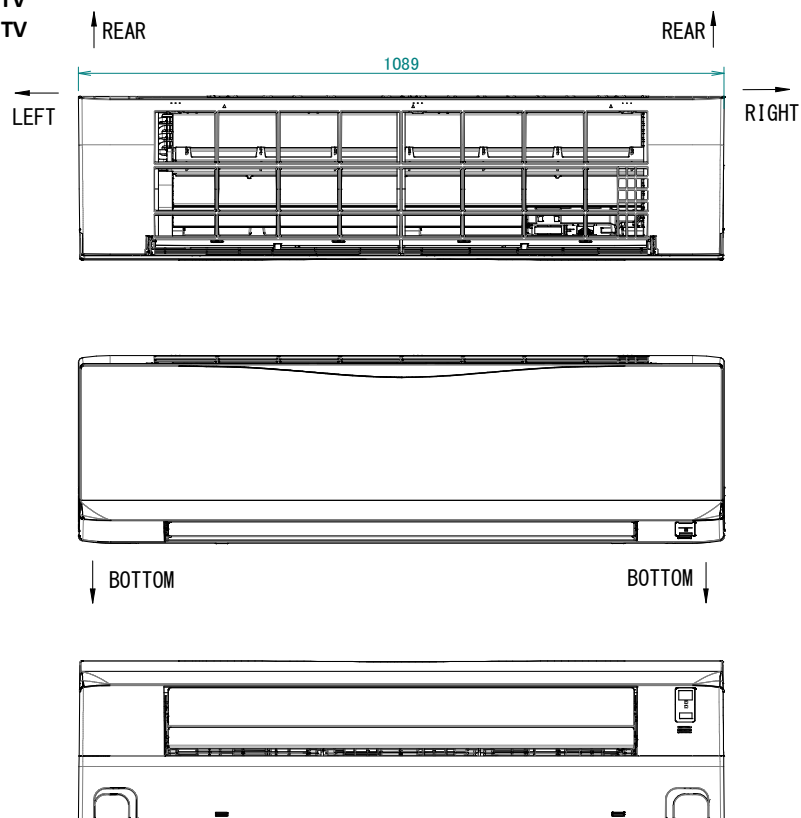
4 Dimensional drawings

4 - 1 Dimensional Drawings

4

FWT02HTV
FWT03HTV
FWT04HTV


3D153410

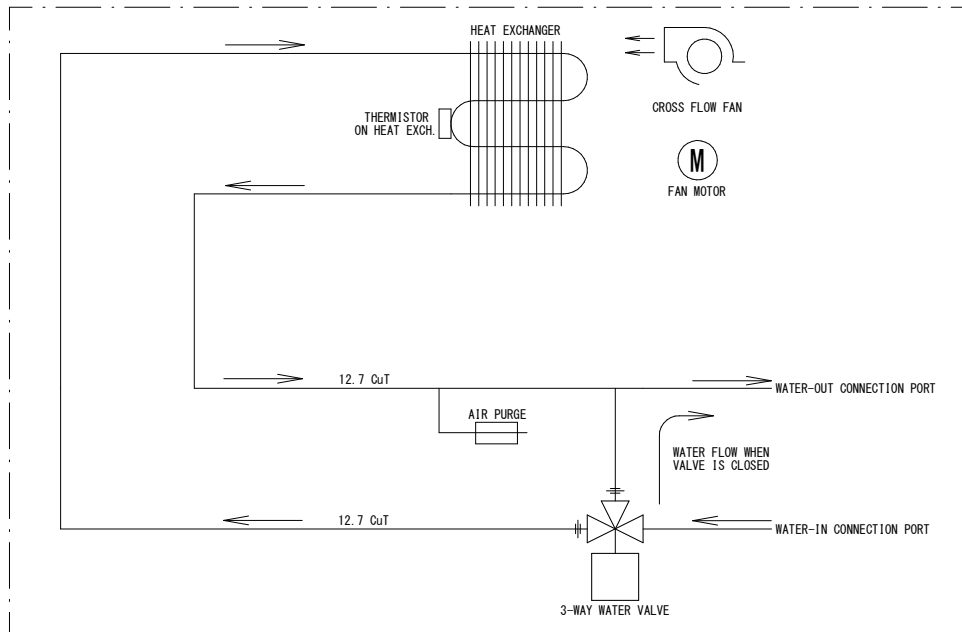
FWT05HTV
FWT06HTV


3D153418

5 Piping diagrams

5 - 1 Piping Diagrams

FWT-HTV



WATER PIPE CONNECTION PORT DIAMETERS

MODEL	WATER IN	WATER OUT
FWT02HATVMV1	3/4" BSPP MALE	3/4" BSPP MALE
FWT03HATVMV1	3/4" BSPP MALE	3/4" BSPP MALE
FWT04HATVMV1	3/4" BSPP MALE	3/4" BSPP MALE
FWT05HATVMV1	3/4" BSPP MALE	3/4" BSPP MALE
FWT06HATVMV1	3/4" BSPP MALE	3/4" BSPP MALE

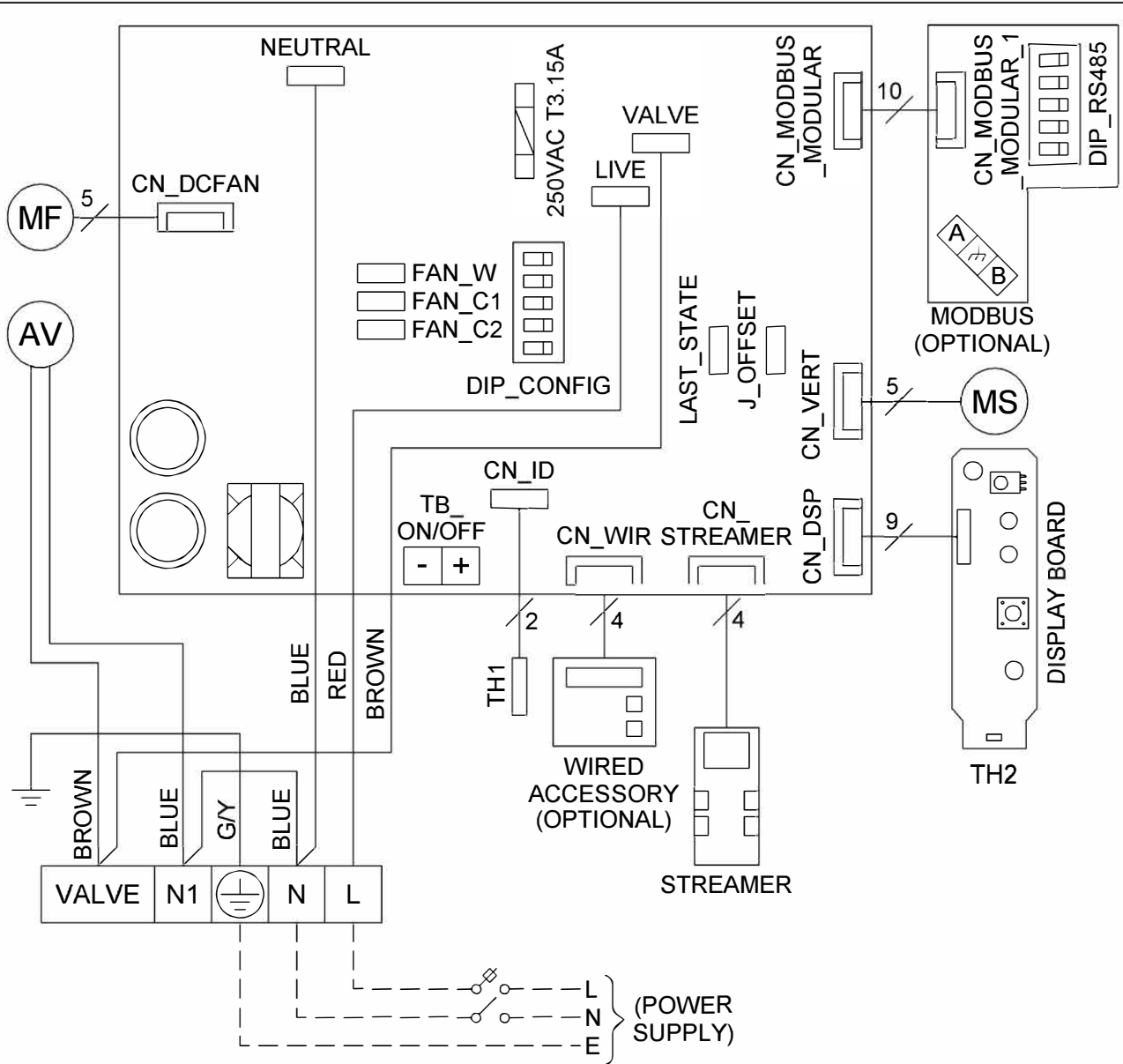
3D153430B

6 Wiring diagrams

6 - 1 Wiring Diagrams - Single Phase

6

FWT-HTV



NOTATION:

- MF : FAN MOTOR
- MS : AIR SWING MOTOR (UP DOWN)
- AV : ACTUATOR VALVE
- TH1 : INDOOR COIL THERMISTOR
- TH2 : ROOM THERMISTOR
- G/Y : GREEN/YELLOW
- — — : FIELD WIRING
- / N : N INDICATES NUMBER OF WIRES

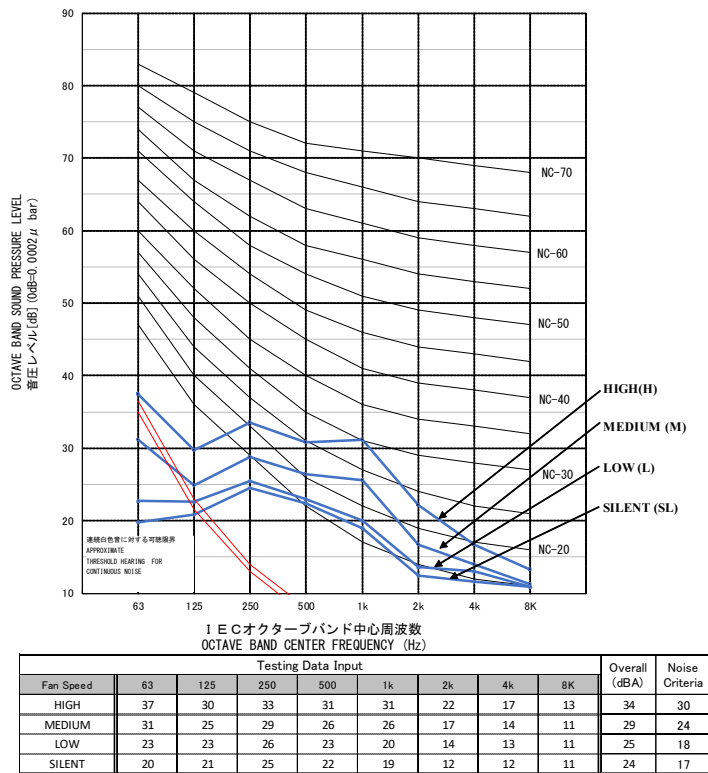
PART NO.: 3P784913-1

3P784913

7 Sound data

7 - 1 Sound Pressure Spectrum

FWT02HTV



測定場所 MEASURING PLACE

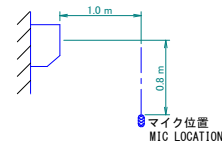
無音室
ANECHOIC CHAMBER

注) 運転音は、運転条件、周囲の状態等によって変わります。
NOTE: OPERATION NOISE DIFFERS WITH OPERATION AND AMBIENT CONDITIONS.

運転条件 OPERATING CONDITIONS

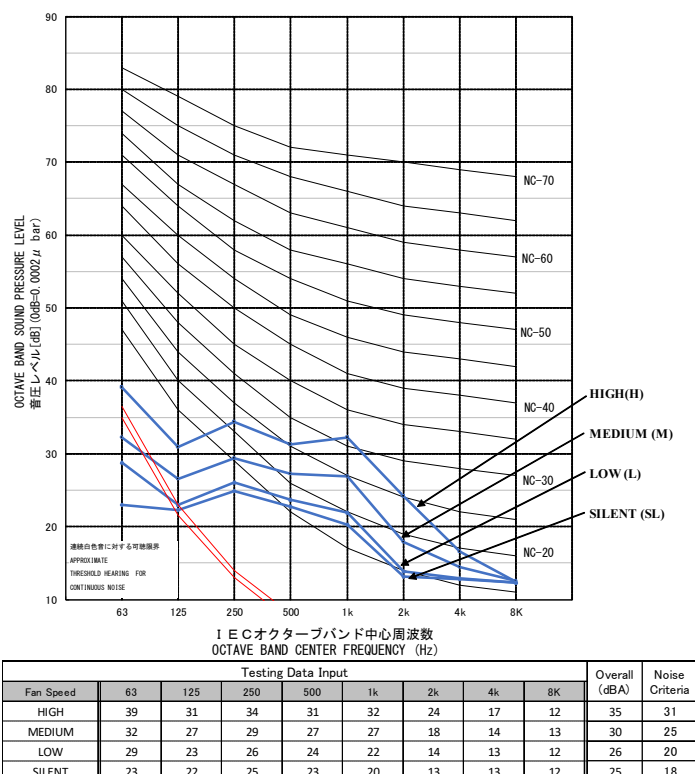
電源
POWER SOURCE 220-240V 50Hz

マイクロホン位置 LOCATION OF MICROPHONE



3D153614

FWT03HTV



測定場所 MEASURING PLACE

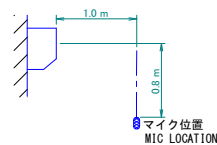
無音室
ANECHOIC CHAMBER

注) 運転音は、運転条件、周囲の状態等によって変わります。
NOTE: OPERATION NOISE DIFFERS WITH OPERATION AND AMBIENT CONDITIONS.

運転条件 OPERATING CONDITIONS

電源
POWER SOURCE 220-240V 50Hz

マイクロホン位置 LOCATION OF MICROPHONE



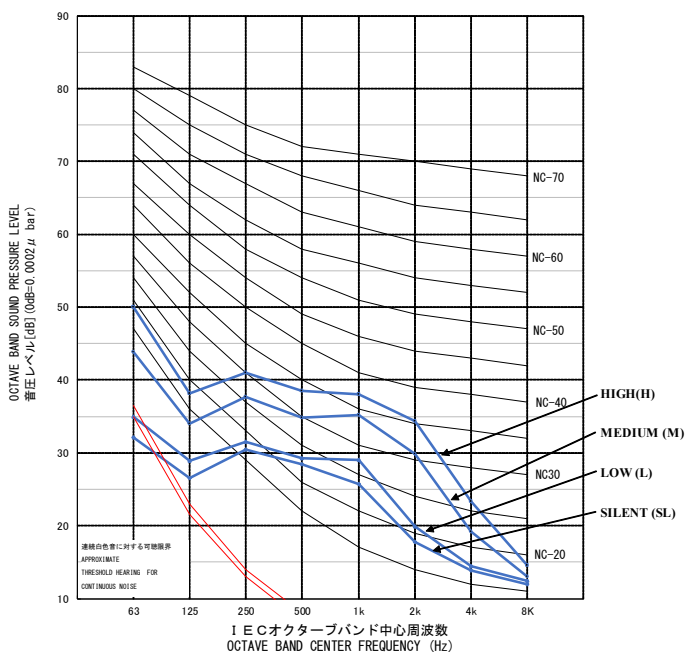
3D153613

7 Sound data

7 - 1 Sound Pressure Spectrum

7

FWT04HTV



Testing Data Input									Overall (dB A)	Noise Criteria
Fan Speed	63	125	250	500	1k	2k	4k	8K		
HIGH	50	38	41	38	38	34	23	15	42	37
MEDIUM	44	34	38	35	35	30	19	13	39	34
LOW	35	29	32	29	29	20	14	12	32	28
SILENT	32	27	30	28	26	18	14	12	29	24

測定場所 MEASURING PLACE

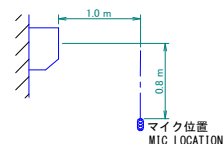
無響室
ANECHOIC CHAMBER

注) 運轉音は、運轉条件、周囲の状態等によって変わります。
NOTE: OPERATION NOISE DIFFERS WITH OPERATION
AND AMBIENT CONDITIONS.

運轉条件 OPERATING CONDITIONS

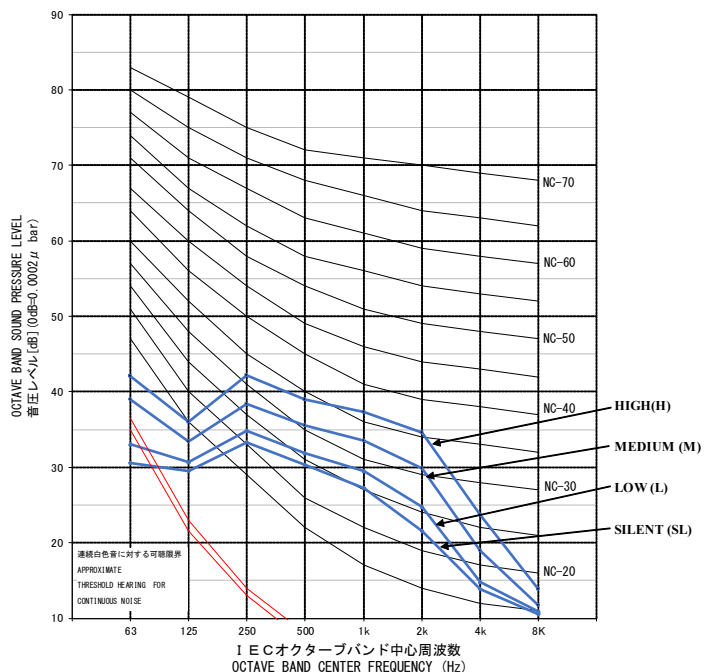
電源 POWER SOURCE 220-240V 50Hz

マイクロホン位置 LOCATION OF MICROPHONE



3D153612

FWT05HTV



Testing Data Input									Overall (dB A)	Noise Criteria
Fan Speed	63	125	250	500	1k	2k	4k	8K		
HIGH	42	36	42	39	37	35	24	14	42	36
MEDIUM	39	33	38	36	34	30	19	12	38	33
LOW	33	31	35	32	30	25	15	11	34	29
SILENT	31	30	33	30	27	22	14	11	32	25

測定場所 MEASURING PLACE

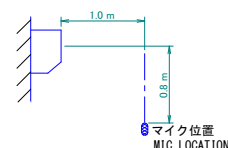
無響室
ANECHOIC CHAMBER

注) 運轉音は、運轉条件、周囲の状態等によって変わります。
NOTE: OPERATION NOISE DIFFERS WITH OPERATION
AND AMBIENT CONDITIONS.

運轉条件 OPERATING CONDITIONS

電源 POWER SOURCE 220-240V 50Hz

マイクロホン位置 LOCATION OF MICROPHONE

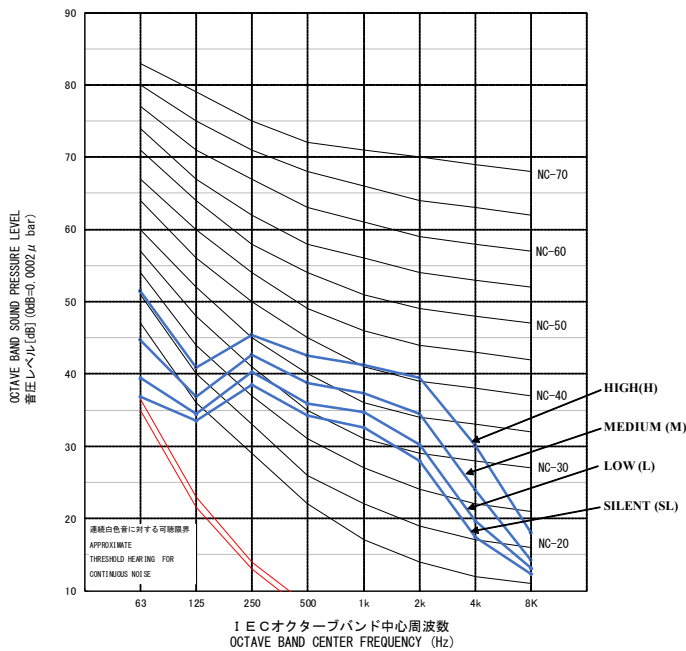


3D153494

7 Sound data

7 - 1 Sound Pressure Spectrum

FWT06HTV



Testing Data Input									Overall (dBA)	Noise Criteria
Fan Speed	63	125	250	500	1k	2k	4k	8k		
HIGH	51	41	45	43	41	39	30	18	46	40
MEDIUM	45	37	43	39	37	35	24	14	42	36
LOW	40	35	40	36	35	30	20	13	39	34
SILENT	37	34	39	34	33	28	17	12	37	32

測定場所 MEASURING PLACE

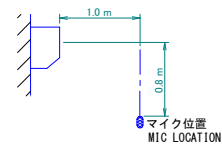
無音室
ANECHOIC CHAMBER

注) 運転音は、運転条件、周囲の状態等によって異なります。
NOTE: OPERATION NOISE DIFFERS WITH OPERATION
AND AMBIENT CONDITIONS.

運転条件 OPERATING CONDITIONS

電源
POWER SOURCE 220-240V 50Hz

マイクロホン位置 LOCATION OF MICROPHONE



3D153493

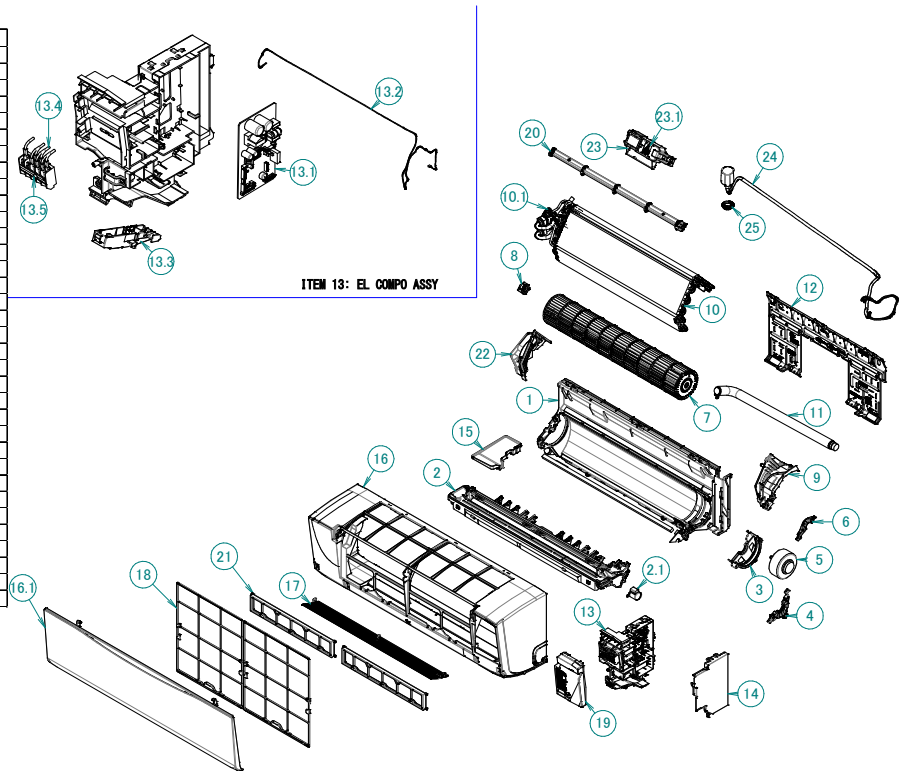
8 Installation

8 - 1 Exploded view

8

FWT02HTV
FWT03HTV
FWT04HTV

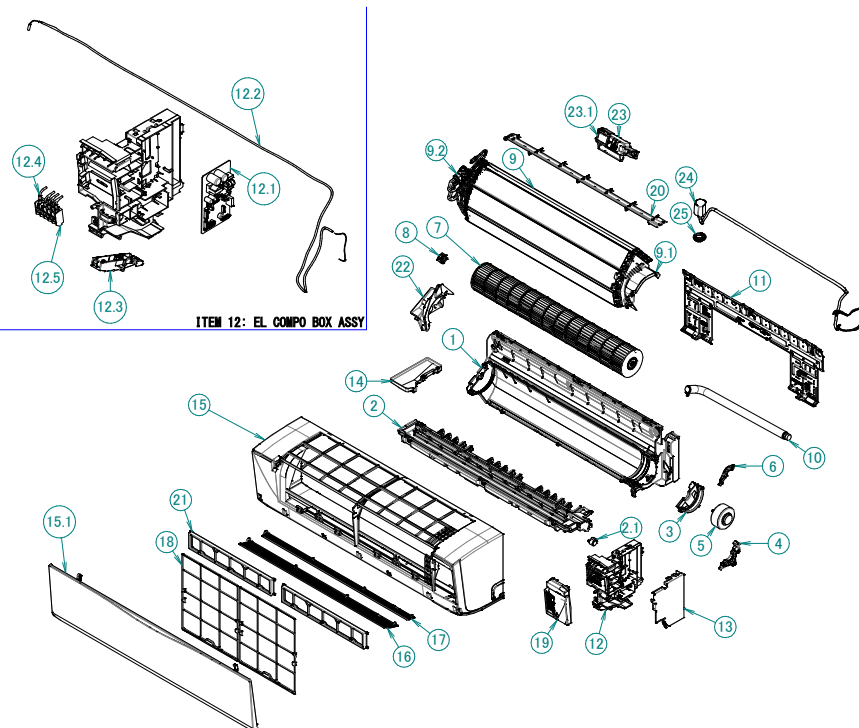
NO	DESCRIPTION
1	BOTTOM FRAME ASSY
2	DRAIN PAN ASSY
2.1	STEPPING MOTOR
3	MOTOR MOUNTING PLATE (1)
4	MOTOR MOUNTING PLATE (2)
5	FAN MOTOR (DC)
6	MOTOR MOUNTING PLATE (3)
7	CROSS FLOW FAN ASSY
8	FAN BEARING VIBRATION ABSORBER ASSY (M)
9	RIGHT SIDE PANEL(RESIN)
10	HEAT EXCHANGER ASSY
10.1	MOTOR OPERATED VALVE BODY (1770853)
11	DRAIN HOSE ASSY
12	INSTALLATION PLATE ASSY
13	EL. COMPO. ASSY
13.1	CONTROL MODULE
13.2	INDOOR COIL SENSOR
13.3	PRINTED CIRCUIT BOARD ASSY (DISPLAY)
13.4	ASSY, HARNESS WIRE
13.5	TERMINAL BLOCK
14	SHIELD PLATE(2)
15	DRAIN PAN ASSY (RESIN) EXTENSION
16	FRONT GRILLE ASSY
16.1	FRONT PANEL
17	DISCH.GRILLE HOR.BLADE ASSY
18	AIR FILTER
19	SERVICE COVER ASSY
20	SEALING PLATE (TOP)
21	AIR FILTER PM2.5
22	SIDE PANEL (LEFT)
23	COVER ASSY, STREAMER (HOLDER)
23.1	DISCHARGE PLATE STREAMER ASSY
24	WIRE HARNESS ASSY (ACTUATOR WIRE)
25	REDUCING SOCKET ADAPTOR



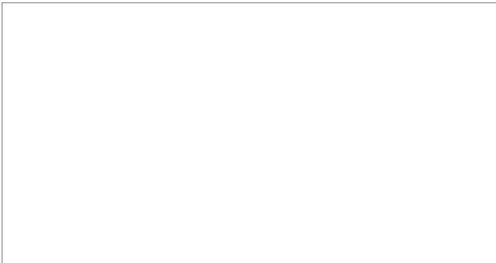
3D153587

FWT05HTV
FWT06HTV

1	DESCRIPTION
1	BOTTOM FRAME ASSY
2	DRAIN PAN ASSY
2.1	STEPPING MOTOR
3	MOTOR MOUNTING PLATE (1)
4	MOTOR MOUNTING PLATE (2)
5	FAN MOTOR (DC)
6	MOTOR MOUNTING PLATE (3)
7	CROSS FLOW FAN ASSY
8	FAN BEARING VIBRATION ABSORBER ASSY (M)
9	HEAT EXCHANGER ASSY
9.1	RIGHT SIDE PANEL(RESIN)
9.2	MOTOR OPERATED VALVE BODY (1776361)
10	DRAIN HOSE ASSY
11	INSTALLATION PLATE ASSY
12	EL. COMPO. ASSY
12.1	CONTROL MODULE
12.2	INDOOR COIL SENSOR
12.3	PRINTED CIRCUIT BOARD ASSY (DISPLAY)
12.4	ASSY, HARNESS WIRE
12.5	TERMINAL BLOCK
13	SHIELD PLATE(2)
14	DRAIN PAN ASSY (RESIN) EXTENSION
15	FRONT GRILLE ASSY
15.1	FRONT PANEL
16	DISCH.GRILLE HOR.BLADE (1) ASSY
17	DISCH.GRILLE HOR.BLADE (2) ASSY
18	AIR FILTER
19	SERVICE COVER ASSY
20	SEALING PLATE (TOP)
21	AIR FILTER PM2.5
22	LEFT SIDE PANEL (RESIN)
23	COVER ASSY, STREAMER (HOLDER)
23.1	DISCHARGE PLATE STREAMER ASSY
24	WIRE HARNESS ASSY (ACTUATOR WIRE)
25	REDUCING SOCKET ADAPTOR



3D153588A



EEDEN25

01/2025



Daikin Europe N.V. participates in the ECP programmes for Fan Coil Units and Variable Refrigerant Flow systems. Daikin Applied Europe S.p.A. participates in the ECP programmes for Liquid Chilling Packages and Hydronic Heat Pumps. Check ongoing validity of certificate: www.eurovent-certification.com

The present leaflet is drawn up by way of information only and does not constitute an offer binding upon Daikin Europe N.V. Daikin Europe N.V. has compiled the content of this leaflet to the best of its knowledge. No express or implied warranty is given for the completeness, accuracy, reliability or fitness for particular purpose of its content and the products and services presented therein. Specifications are subject to change without prior notice. Daikin Europe N.V. explicitly rejects any liability for any direct or indirect damage, in the broadest sense, arising from or related to the use and/or interpretation of this leaflet. All content is copyrighted by Daikin Europe N.V.