Applied Systems

Technical Data

Wall mounted unit

EEDEN13-400

FWT-CT

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1 Features

- High aesthetic cabinet design
- Optimum air distribution
- Easy to install
- Wireless remote control up to 9 m distance
- 3-speed fan motor
- Wide operating range
- Quiet tangential fan
- Insulated with self-extinguishing class 1 heat insulation
- Removable washable air filter (self-extinguishing class 1)

2 Specifications

2-1 Technical Specifications				FWT02CT	FWT03CT	FWT04CT	FWT05CT	FWT06CT
Cooling capacity	Total capacity	High	kW	2.43 (1)	2.70 (1)	3.31 (1)	4.54 (1)	5.28 (1)
		Low	kW	2.11 (1)	2.23 (1)	2.78 (1)	3.81 (1)	4.40 (1)
		Nom.	kW	2.29 (1)	2.46 (1)	3.08 (1)	4.25 (1)	4.69 (1)
	Sensible capacity	High	kW	1.85 (1)	2.02 (1)	2.64 (1)	3.43 (1)	4.10 (1)
		Low	kW	1.49 (1)	1.61 (1)	2.05 (1)	2.81 (1)	3.28 (1)
		Nom.	kW	1.64 (1)	1.82 (1)	2.37 (1)	3.11 (1)	3.60 (1)
Heating capacity	2-Pipe	High	kW	3.22 (2)	3.52 (2)	4.40 (2)	6.01 (2)	5.26 (2)
		Medium	kW	2.90 (2)	3.14 (2)	3.96 (2)	5.42 (2)	4.69 (2)
		Low	kW	2.49 (2)	2.70 (2)	3.37 (2)	4.84 (2)	4.40 (2)
Power input	High		W	31	32	42	53	72
	Low		W	25	29	33	42	60
	Nom.		W	29	31	37	47	68
Casing	Colour			-				
	Material			High impact polystyrene				
Dimensions	Unit	Height	mm	288			310	
		Width	mm	800			1,065	
		Depth	mm	206			224	
	Packed unit	Height	mm	350			386	
		Width	mm	894			1,136	
		Depth	mm	280			314	
Weight	Unit		kg	9			14	
	Operation weight		kg	9.5	9.6		15	
	Packed unit		kg	13			16	
Heat exchanger	Rows	Quantity		2				
	Fin pitch		mm	0.71				
	Face area		m^2	0.18			0.29	
	Water volume		l	0.52	0.58		0.95	
Water flow	Cooling		l/h	420	460	570	780	910
	Heating		l/h	420	460	570	780	910
Water pressure drop	Cooling		kPa	34	24	31	28	32
	Heating		kPa	29	20	25		29
Fan	Type			Cross flow fan				
	Quantity			1				
	Air flow rate	High	m^3/h	442	476	629	866	1,053
		Medium	m^3/h	391	425	544	765	883
		Low	m^3/h	340	374	442	663	782
	Available pressure	High	Pa	-				
Fan motor	Speed	Steps		3 (high, medium, low)				
	Model			Induction				
Sound power level	High		dBA	45	48	55		59
	Nom.		dBA	41	44	50	51	54
	Low		dBA	36	39	45	47	51
Sound pressure level	High		dBA	34	35	42		46
	Medium		dBA	29	30	39	38	42
	Low		dBA	25		32	34	39
Piping connections	Drain	OD	mm	19				
Insulation material				PE				
Vibration insulation				Rubber Bush (Fan Motor)				
Water connections	Std. heat exchanger		inch	1/2				

2-2 Electrical Specifications			FWT02CT	FWT03CT	FWT04CT	FWT05CT	FWT06CT
Current input	High	A	0.19	0.20	0.21	0.29	0.34
	Medium	A	0.18	0.20		0.26	0.32
	Low	A	0.17	0.19		0.25	0.31
Power supply	Phase		-				
	Frequency	Hz	-				
	Voltage	V	-				

2 Specifications

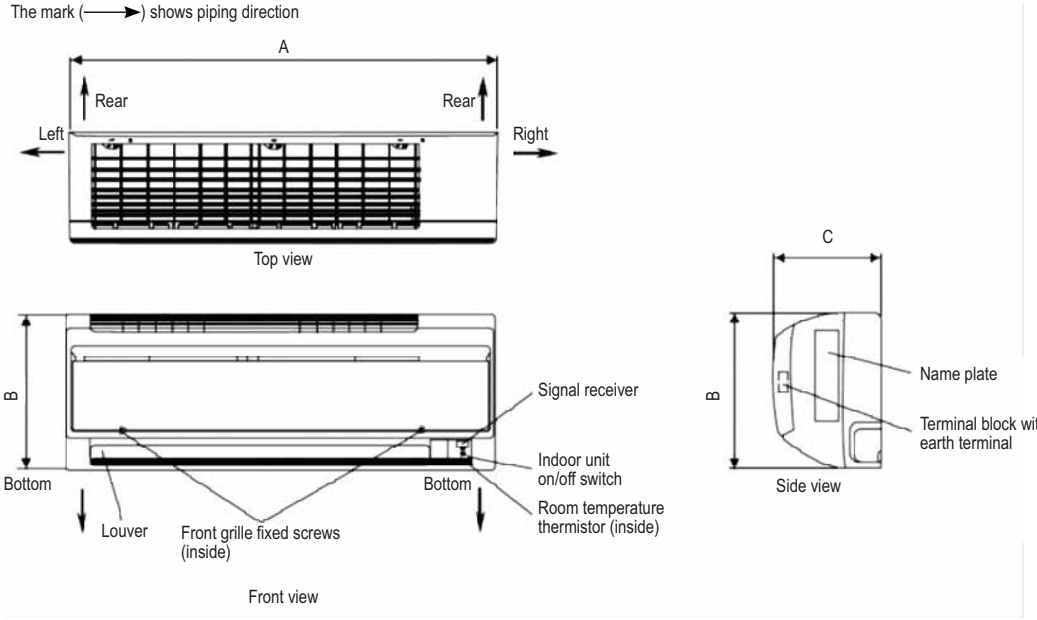
Notes

(1) Cooling: 2 pipe: air 27ºCDB, 19ºCWB; entering water 7ºC; leaving water 12ºC
(2) Heating: 2 pipe: air 20ºCDB; entering water 50ºC; leaving water as per cooling GPM
(3) Sound power level according to ISO 3741
(4) Sound pressure measured at 1,5m below the facia (JIS B 8615)

3 Dimensional drawings

3 - 1 Dimensional Drawings

FWT-CT



Dimension	A	B	C
FWT 02,03,04 CT	800	288	206
FWT 05,06 CT	1065	310	224

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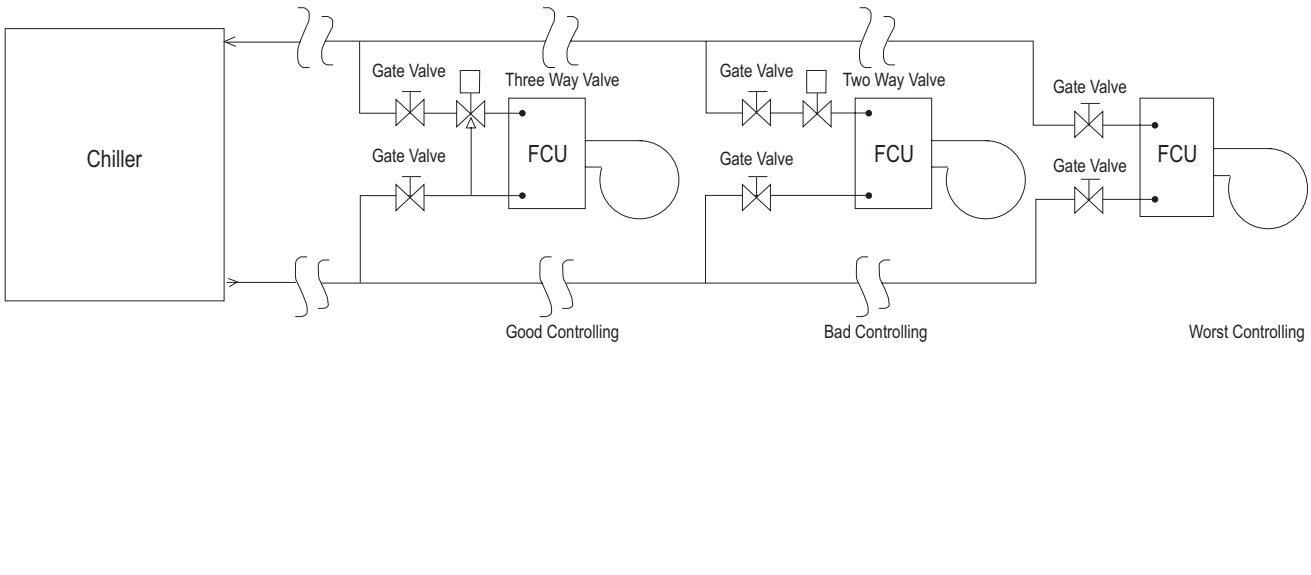
4 Piping diagrams

4 - 1 Piping Diagrams

FWT-CT (water piping diagram)



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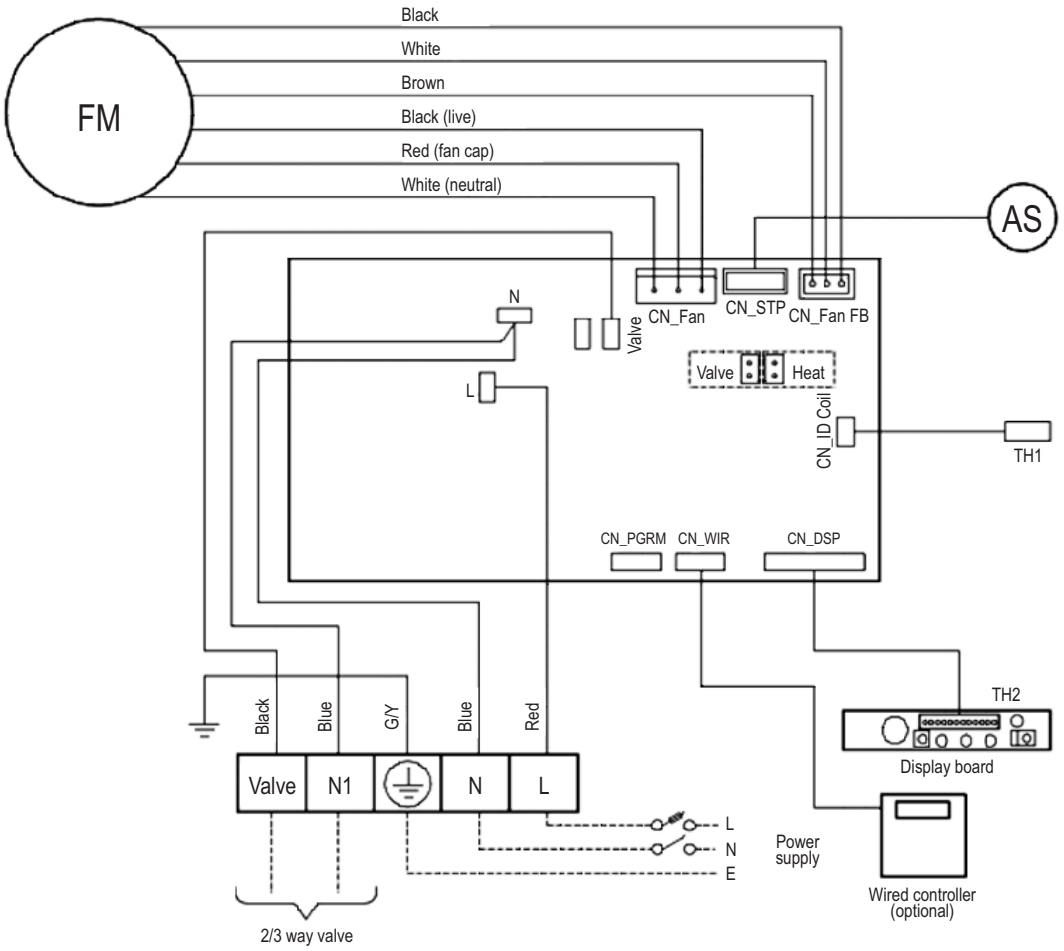
5 Wiring diagrams

5 - 1 Wiring Diagrams - Single Phase

FWT-CT



NOTES

FM : Fan motor
AS : Air swing motor
TH1 : Indoor coil thermistor
TH2 : Room thermistor
Heat • With jumper for heat pump
• Without jumper for cooling only
Valve • With jumper for valve application
• Wirhout jumper for valveless application
------ Field wirring

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6 Sound data

6 - 1 Sound Pressure Spectrum

FWT-CT

Sound pressure level

Model	Speed	1/1 Octave Sound Pressure Level (dB, ref 20μPa)							Overall (dBA)
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	
FWT02CT	High	31	32	33	28	28	14	6	34
	Med	25	29	28	24	19	9	5	29
	Low	20	28	24	20	11	8	6	25
FWT03CT	High	30	33	33	32	28	17	8	35
	Med	26	29	30	27	21	11	7	30
	Low	19	25	25	21	14	6	6	25
FWT04CT	High	41	39	39	38	36	26	14	42
	Med	38	36	37	34	32	22	10	39
	Low	30	30	31	28	23	12	7	32
FWT05CT	High	37	38	38	39	33	22	11	42
	Med	33	35	35	35	29	17	8	38
	Low	29	33	32	31	23	12	7	34
FWT06CT	High	42	42	42	42	40	31	21	43
	Med	37	38	39	38	34	24	13	42
	Low	34	35	36	35	30	20	9	39

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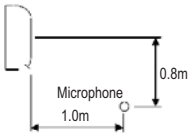
NOTES

1. Measuring Location



2. Testing Standard: JIS C 9612

7 Operation range

7 - 1 Operation Range

FWT-CT

Thermal Carrier: Water
Water Temperature: (4-50)°C
Maximum Water Pressure: 16 bar
Air temperature: (as below)

Heating Mode

Temperature	Ts °C/°F	Th °C/°F
Minimum indoor temperature	15.0 / 59.0	-
Maximum indoor temperature	27.0 / 80.6	-

Cooling Mode

Temperature	Ts °C/°F	Th °C/°F
Minimum indoor temperature	19.0 / 66.2	14.0 / 57.2
Maximum indoor temperature	32.0 / 89.6	23.0 / 73.4

NOTES

Ts: Dry bulb temperature
Th: Wet bulb temperature

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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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