Open protocol 4-way blow ceiling mounted cassette Technical Data

FWF-D

FWF02DATN5V3--
FWF03DATN5V3--
FWF04DATN5V3--
FWF05DATN5V3--
FWF02DAFN5V3--
FWF03DAFN5V3--
FWF04DAFN5V3--
FWF05DAFN5V3--

EEDEN23

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FWF-D

1 Features

1 - 1 FWF-D

BLDC fan motor for a precise control of operation 4-way air discharge

- Reduced energy consumption thanks to specially developed heat exchanger, DC fan motor and drain pump
- Unit fits into standard 600x600 architectural modules
- Optional fresh air intake
- Modern style decoration panel in white (RAL9010) or fully flat decoration panel in white or silver/white combination (adaptor needed)
- Open protocol unit allows controller integration
- Standard drain pump with 835mm lift increases flexibility and installation speed

2 Specifications

2 - 1 Specifications

Technical specifications					FWF02DT	FWF03DT	FWF04DT	FWF05DT
Cooling capacity (standard conditions)	Latent capacity 2-pipe	High		kW	0.24	0.69	1.06	1.22
	Sensible capacity 2-pipe	Low		kW	1.09	1.75	1.91	2.11
		Medium		kW	1.43	2.08	2.49	3.08
		High		kW	1.76	2.31	3.01	3.88
	Total capacity 2-pipe	Low		kW	1.30	2.37	2.65	2.93
		Medium		kW	1.67	2.78	3.41	4.16
		High		kW	2.00	3.00	4.07	5.10
Heating capacity (standard conditions)	Capacity 2-pipe	Low		kW	1.56	2.44	2.69	2.95
		Medium		kW	2.05	2.96	3.48	4.34
		High		kW	2.54	3.30	4.26	5.74
Power input	Low			kW	0.01			0.02
	Med.			kW	0.01	0.02		0.03
	High			kW	0.018	0.019	0.024	0.045
FCEER CLASS					B	A	B	
FCEER					121	188	180	120
FCCOP					156	197	194	128
FCCOP CLASS					C	B		C
Dimensions	Unit	Height		mm	260			
		Width		mm	642			
		Depth		mm	575			
	Packed unit	Height		mm	694			
		Width		mm	694			
		Depth		mm	80			
Weight	Unit			kg	14.5	15.5		
	Packed unit			kg	18	19		
Heat exchanger	Type				Cross fin coil (waffle louver fins and Hi-X tubes)			
	Rows	Quantity			2			
Fan	Type				Turbo fan			
	Quantity				1			
	Air flow rate	Low		m^3/h	278	363	369	408
		Medium		m^3/h	388	455	496	634
		High		m^3/h	498	516	623	860
Fan motor	Model				ARW5216DK			
	Type				DC motor			
Total sound power level	Low			dBA	33.0	36.0		39.0
	Medium			dBA	37.0	39.0	41.0	46.0
Total sound power level	High			dBA	41.0	42.0	47.0	54.0
Sound pressure level	Low			dBA	19.0	22.0		25.0
	Medium			dBA	23.0	25.0	27.0	32.0
	High			dBA	27.0	28.0	33.0	40.0
Water flow	Cooling	Low		l/h	224	407	455	504
		Medium		l/h	286	477	586	716
		High		l/h	344	515	699	878
	Heating	High		l/h	437	568	733	987
		Low		l/h	269	419	463	507
		Medium		l/h	353	508	599	747
	Water pressure drop	Cooling	Low	kPa	6	18	16	18
			Medium	kPa	7	23	22	30
			High	kPa	8	25	29	41
		Heating	Low	kPa	6	21	15	18
			Medium	kPa	8	27	22	31
			High	kPa	11	32	30	50
Allowed water temperature	Cooling	Min.		°C	5			
		Max.		°C	75.0			
	Heating	Min.		°C	5.00			
		Max.		°C	75.000			
Piping connections	Water	Inlet			3/4" BSP (female thread)			
		Outlet			3/4" BSP (female thread)			
	Drain	OD		mm	VP20 (External dia.26 / Internal dia. 20)			

Technical specifications				FWF02DF	FWF03DF	FWF04DF	FWF05DF
Cooling capacity (standard conditions)	Latent capacity 4-pipe	High	kW	0.24	0.81	1.12	1.35
	Sensible capacity 4-pipe	Low	kW	1.20	1.61	1.78	1.85
		Medium	kW	1.46	1.99	2.33	2.88
		High	kW	1.76	2.19	2.88	3.67
	Total capacity 4-pipe	Low	kW	1.44	2.30	2.58	2.64
		Medium	kW	1.71	2.77	3.33	4.00
		High	kW	2.00	3.00	4.00	5.02

2 Specifications

2 - 1 Specifications

Technical specifications					FWF02DF	FWF03DF	FWF04DF	FWF05DF
Heating capacity (standard conditions)	Capacity 4-pipe	Low		kW	2.23	2.78	2.90	2.99
		Medium		kW	2.77	3.61	3.75	4.32
		High		kW	3.31	4.15	4.59	5.64
Power input	Low			kW	0.01	0.02		
	Med.			kW	0.01	0.02		0.03
	High			kW	0.017	0.019	0.024	0.047
FCEER CLASS					B			
FCEER					129	156	174	130
FCCOP					220	193	198	174
FCCOP CLASS					B			
Dimensions	Unit	Height		mm	260			
		Width		mm	642			
		Depth		mm	575			
	Packed unit	Height		mm	694			
		Width		mm	694			
		Depth		mm	80			
Weight	Unit			kg	16.0	17.0		
	Packed unit			kg	19	21		
Heat exchanger	Type				Cross fin coil (waffle louver fins and Hi-X tubes)			
	Rows	Quantity			2	3		
Fan	Type				Turbo fan			
	Quantity				1			
	Air flow rate	Low		m^3/h	301	356	361	367
		Medium		m^3/h	389	463	487	607
		High		m^3/h	477	534	612	847
Fan motor	Model				ARW5216DK			
	Type				DC motor			
Total sound power level	Low			dBA	34.0	36.0	38.0	40.0
	Medium			dBA	37.0	40.0	43.0	48.0
Total sound power level	High			dBA	41.0	44.0	48.0	56.0
Sound pressure level	Low			dBA	20.0	22.0	24.0	26.0
	Medium			dBA	23.0	26.0	29.0	34.0
	High			dBA	27.0	30.0	34.0	42.0
Water flow	Cooling	Low		l/h	248	396	444	455
		Medium		l/h	294	476	573	687
		High		l/h	345	516	687	864
	Heating	High		l/h	285	357	395	485
		Low		l/h	192	239	249	257
		Medium		l/h	238	310	322	371
	Water pressure drop	Cooling	Low	kPa	7	17	15	16
			Medium	kPa	8	22	21	28
			High	kPa	8	25	28	41
		Heating	Low	kPa	7	5		6
			Medium	kPa	9	6	7	9
			High	kPa	10	8	9	12
Allowed water temperature	Cooling	Min.		°C	5			
		Max.		°C	75.0			
	Heating	Min.		°C	5.00			
		Max.		°C	75.000			
Piping connections	Water	Inlet			3/4" BSP (female thread)			
		Outlet			3/4" BSP (female thread)			
	Drain	OD		mm	VP20 (External dia.26 / Internal dia. 20)			

Electrical specifications				FWF02DT	FWF03DT	FWF04DT	FWF05DT
Power supply	Type			230 /1 / 50			
	Phase			1~			
	Frequency		Hz	50			
	Voltage		V	230			

Electrical specifications				FWF02DF	FWF03DF	FWF04DF	FWF05DF
Power supply	Type			230 /1 / 50			
	Phase			1~			
	Frequency		Hz	50			
	Voltage		V	230			

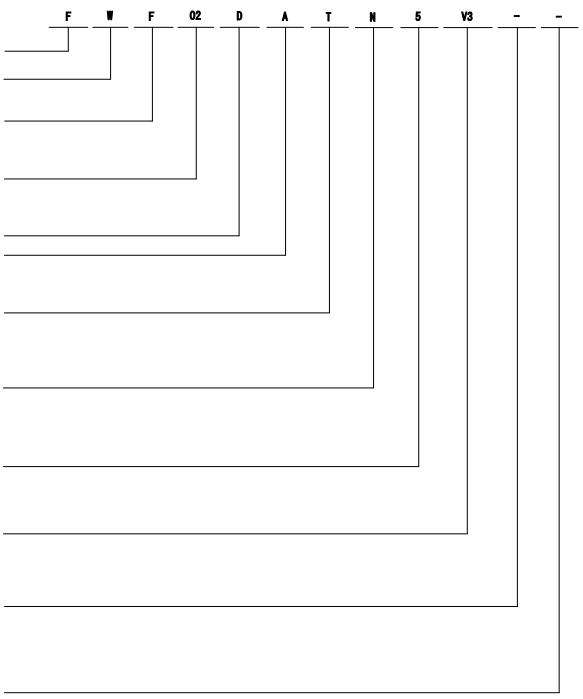
Cooling: air 27°CDB, 19°CWB; entering water 7°C; leaving water 12°C |
Heating: 2 pipe: air 20°CDB, 15°CWB; entering water 45°C; leaving water 40°C |
Heating: 4 pipe: air 20°CDB, 15°CWB; entering water 65°C; leaving water 55°C |
The unit is not pre-charged. A minimal rest charge is present related to factory quality inspection |
Airflow value measurements are performed at 20C (DB) /15 C(WB) condition.

3 Nomenclature

3 - 1 Nomenclature

FWF-D

DIGIT	CLASSIFICATION	CODE	DESCRIPTION
1	TYPE OF UNIT	F	Fan Coil Unit
2	COOLING MEDIUM	W	Water
3	MODEL TYPE	F	2x2 Casette
		C	3x3 Casette
4-5	SPECIFICATION INDEX	02	Capacity Class, (01=0.5 kW / EU)
6	SERIES	D	Major Model Series
7	MODEL CHANGE INDICATION	A	Minor Model Change
8	COIL TYPE	T	2 Pipe
		F	4 Pipe
9	VALVE	N	Without valve
		T	2 way on-off 230 V valve
		V	3 way on-off 230 V valve
10	FACTORY	5	DTAS (Turkey)
11-12	POWER SUPPLY	V3	Single Phase 50 Hz / 230 V
13	OPTIONS (FACTORY MOUNTED)	-	No Option
14	CONTROLLERS	-	Without Controller



NOTES:

1) FOR SIXTH CLASSIFICATION (*) MEANS MAJOR/MINOR DESIGN CHANGE PROGRESS WITH EACH DESIGN CHANGE (A, B, C, D...)

2) THIS NOMENCLATURE IS CREATED ONLY FOR FWF-D

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4 Electrical data

4 - 1 Electrical Data

FWF-D

UNITS						POWER SUPPLY			IFM		INPUT(W)	
MODEL	Type	PHASE	Hz	VOLTAGE RANGE (V)	VOLTAGE LIMITS(V)	MCA	MFA	MFA (CAL)	kW	FLA	COOLING	HEATING
FWF02DATN5V3--	V3	~1	50	230	MAX. 253 MIN. 207	0.23	5	0.75	0.050	0.19	17.72	
FWF03DATN5V3--						0.24	5	0.77	0.050	0.19	18.68	
FWF04DATN5V3--						0.31	5	0.99	0.050	0.25	24.55	
FWF05DATN5V3--						0.59	5	1.88	0.050	0.47	47.99	
FWF02DAFN5V3--						0.21	5	0.67	0.050	0.17	15.88	
FWF03DAFN5V3--						0.23	5	0.73	0.050	0.18	17.84	
FWF04DAFN5V3--						0.30	5	0.94	0.050	0.24	23.51	
FWF05DAFN5V3--						0.58	5	1.85	0.050	0.46	47.20	
FWF02DATT5V3--						0.26	5	0.82	0.050	0.21	19.52	
FWF03DATT5V3--						0.26	5	0.84	0.050	0.21	20.48	
FWF04DATT5V3--						0.33	5	1.06	0.050	0.26	26.35	
FWF05DATT5V3--						0.61	5	1.95	0.050	0.49	49.79	
FWF02DAFT5V3--						0.23	5	0.74	0.050	0.19	17.68	
FWF03DAFT5V3--						0.25	5	0.81	0.050	0.20	19.64	
FWF04DAFT5V3--						0.32	5	1.02	0.050	0.25	25.31	
FWF05DAFT5V3--						0.60	5	1.92	0.050	0.48	49.00	
FWF02DATV5V3--						0.26	5	0.82	0.050	0.21	19.52	
FWF03DATV5V3--						0.26	5	0.84	0.050	0.21	20.48	
FWF04DATV5V3--						0.33	5	1.06	0.050	0.26	26.35	
FWF05DATV5V3--						0.61	5	1.95	0.050	0.49	49.79	
FWF02DAFV5V3--						0.23	5	0.74	0.050	0.19	17.68	
FWF03DAFV5V3--						0.25	5	0.81	0.050	0.20	19.64	
FWF04DAFV5V3--						0.32	5	1.02	0.050	0.25	25.31	
FWF05DAFV5V3--						0.60	5	1.92	0.050	0.48	49.00	

Symbols:

MCA : Min. Circuit Amps (A) (See note 3)

MFA : Max. Fuse Amps (See note 5)

MFA(CAL): Max. Fuse Amps (Calculation) (See note 3)

FLA : Full Load Amps (A)

Notes:

1. Voltage Limits:
   Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listened range limits.
2. Maximum allowable voltage unbalance between phases is 2%.
3. MCA = 1.25 x FLA
   MFA(CAL) = 4 x FLA
4. Select wire sized based on the MCA.
5. MFA is selected from the standart rated current values of the following fuse/breakers that can be produced locally market 5,10,12,16,20,32,40,50.
   MFA > MCA and MFA > MFA(CAL)
6. Input power measured from rated conditions which is 230V 50Hz and highest fan speed.
7. Indoor Unit (W) = Fan Motor Power Input + Actuator Power Input + Drain Pump Power Input

3D143619B

5 Safety device settings

5 - 1 Safety Device Settings

FWF-D

	Safety devices		Unit	FWF02DA(T/F) (N/T/V)5V3--	FWF03DA(T/F) (N/T/V)5V3--	FWF04DA(T/F) (N/T/V)5V3--	FWF05DA(T/F) (N/T/V)5V3--
FWF_DATN5V3--	PCB fuse		V - A	250V 6.3A			
FWF_DATV5V3--	PCB fuse (fan driver)			---			
FWF_DATT5V3--	Fan motor overcurrent protection	Nominal	A	0.74A			
FWF_DAFN5V3--	Fan motor thermal protector	Maximum	°C	108			
FWF_DAFV5V3-- FWF_DAFT5V3--	Drain pump fuse			---			

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6 Options

6 - 1 Options

FWF-D

Options

	Item	Model	FWF02~05D	Remark	Factory mounted	Option kit
1	Decoration panel	Standard RAL ·9010· - grey sealings	BYFQ60B3W1	Standard panel is a white cover for ceiling cassette units.	No	Yes
2		Design panel (white)	BYFQ60C2W1W	Design panel, together with the FWF-D model, offers 3 different blowing angle options. Available in white and silver colour options. In case of design panel, adaptor PCB kit is required to operate flaps.		
3		Design panel (silver)	BYFQ60C2W1S			
4	Adaptor (design panel)		EKRP1CAS5A (*1)	It's a small PCB and it is necessary if design panel (BYFQ60C2W1W, BYFQ60C2W1S) required to be open and close automatically.		
5	Long-life replacement filter		KAF441C60	Durable long lasting filter can be washed and reused. It is a direct replacement for the standard air filter included with the original unit.		
6	Air discharge outlet sealing parts		BDBHQ44C60	Blocking parts to close one or more air outlets of the fan coil unit. This option can be use for standard panel (BYFQ60B3W1).		
7	Fresh air intake kit	Direct installation	KDDQ44XA60	Fresh air intake kit can be connected to the ventilation system in order to supply fresh air to the fan coil unit.		
8	Adaptor (design panel)		EKRP1CAS5A			
9	Sealing memeber of air discharge outlet		KDBH44BA60			
10	Panel Spacer		KDBQ44B60			
11	Long-life filter		KAFQ441BA60			

Control systems

	Item	Model	FWF02~05D	Remark	Factory mounted	Option kit
1	Advanced plus electronic controller		FWEC3A	The FWEC3A wired remote controller is designed for applied fan coils indoor units. The controller features on/off, operation mode (Cool, Heat, Dry, Auto), setpoint adjustment, fan speed adjustment, airflow direction adjustment and one-time daily timer.	No	Yes
2	Electronic control for hydronic units		FWECSAC	The FWECSAC kit includes the electronic control display. This display designed to control all of the system units in the Daikin range with multi-speed, single-phase motor or coupled to an inverter for speed modulation. With this option, the FWECSAP electronic board is mandatory to use and should be ordered separately.		
3	Touch screen display interface (grey)		FWTOUCHG	The FWTOUCH* kit includes touch screen display. The interface has been designed to govern the operation of all the Daikin indoor hydronic units with a single-phase multi-speed motor or coupled to an inverter for fan speed modulation. Available in grey, white and black colour options. With this option, the FWECSAP electronic board is mandatory to use and should be ordered separately.		
4	Touch screen display interface (black)		FWTOUCHB			
5	Touch screen display interface (white)		FWTOUCHW			
6	Remote Controller (Panel)		FWECSAD			
7	Electronic controller		FWEC10			
8	Electronic board		FWECSAP	The FWECSAP electronic board has connection to an external supervision system with MODBUS RTU protocol on serial RS485. It is mandatory equipment for the connection of FWECSA and FWTOUCH options.		
9	ON/OFF valve (2 way) (*3)		EKWV2V3W5A	These on/off valve kits include the 'Watts 213134P (2 way), 413134P (3 way)' valve body with 'Watts 22CX230NC2' actuator that can operate at 230v, 50 Hz, gaskets and thermal insulation designed fully compatible with the valve body.	Yes (*2)	Yes
10	ON/OFF valve (3 way) (*3)		EKWV3V3W5A			

Notes

(*1) If this kit is not used, the design panel cannot be connected to the unit and the flaps must be adjusted manually.
(*2) If this kit is not used, the design panel cannot be connected to the unit and the flaps must be adjusted manually.
(*3) In case of 4 pipe models it is neessary to order 2 sets.

3D143696D

7 Capacity tables

7 - 1 Cooling Capacity Tables

FWF02DATN5V3--
FWF03DATN5V3--
FWF04DATN5V3--
FWF05DATN5V3--

COOLING 2 PIPE @ 0 ESP																									
Air Temperature		DB:33°C - WB:26°C																							
Water Temperature	Delta T °C	ΔT=3								ΔT=5								ΔT=7							
	Water In / Out	5 °C - 8 °C				11 °C - 14 °C				7 °C - 12°C				13 °C - 18 °C				6 °C - 13 °C				10 °C - 17 °C			
Model / Fan Speed		Tc	Sc	Wf	Wpd	Tc	Sc	Wf	Wpd	Tc	Sc	Wf	Wpd	Tc	Sc	Wf	Wpd	Tc	Sc	Wf	Wpd	Tc	Sc	Wf	Wpd
		kW	kW	l/h	kPa	kW	kW	l/h	kPa	kW	kW	l/h	kPa	kW	kW	l/h	kPa	kW	kW	l/h	kPa	kW	kW	l/h	kPa
FWF02DT	3.0V (L)	2.64	1.20	758	18.98	1.94	1.11	556	12.83	2.29	1.16	393	9.01	1.58	1.12	272	6.83	2.03	1.05	249	6.48	1.63	1.02	200	5.80
	5.5V (M)	3.38	1.61	969	27.10	2.48	1.47	711	17.42	2.92	1.55	503	11.47	2.02	1.47	348	8.13	2.59	1.40	319	7.60	2.08	1.35	256	6.58
	8.0V (H)	4.06	2.01	1163	36.10	2.98	1.83	854	22.45	3.51	1.93	604	14.14	2.43	1.81	418	9.51	3.11	1.74	382	8.79	2.50	1.67	307	7.40
	9.5V	4.44	2.25	1272	41.75	3.26	2.03	933	25.60	3.84	2.15	660	15.80	2.65	2.01	456	10.37	3.40	1.94	418	9.52	2.73	1.85	335	7.90
FWF03DT	3.0V (L)	4.80	1.71	1375	134.33	3.52	1.67	1010	76.51	4.15	1.70	714	42.08	2.87	1.75	494	23.66	3.68	1.55	452	20.84	2.96	1.56	363	15.58
	6.0V (M)	5.63	2.06	1613	181.03	4.13	2.00	1184	102.03	4.87	2.05	837	55.11	3.37	2.08	580	30.09	4.32	1.86	531	26.29	3.47	1.87	426	19.18
	8.0V (H)	6.08	2.35	1742	209.38	4.46	2.25	1279	117.48	5.26	2.31	904	62.99	3.64	2.32	626	33.97	4.66	2.10	573	29.57	3.74	2.09	460	21.34
	9.5V	6.37	2.52	1825	228.55	4.67	2.40	1339	127.91	5.51	2.48	947	68.31	3.81	2.47	655	36.58	4.89	2.25	600	31.78	3.92	2.23	482	22.80
FWF04DT	3.0V (L)	5.37	1.80	1538	109.85	3.94	1.78	1129	63.61	4.64	1.81	798	35.60	3.21	1.89	553	20.27	4.12	1.64	506	17.88	3.31	1.68	406	13.35
	5.5V (M)	6.90	2.38	1979	174.20	5.07	2.35	1453	99.17	5.97	2.38	1027	54.07	4.13	2.47	711	29.62	5.30	2.17	651	25.84	4.25	2.20	523	18.71
	8.0V (H)	8.25	2.93	2363	242.59	6.05	2.86	1735	136.79	7.13	2.92	1227	73.48	4.94	3.00	849	39.35	6.33	2.65	777	34.11	5.08	2.68	624	24.25
	9.5V	8.97	3.28	2572	284.36	6.59	3.19	1888	159.70	7.76	3.26	1335	85.27	5.37	3.32	924	45.22	6.88	2.96	846	39.10	5.53	2.98	679	27.57
FWF05DT	3.0V (L)	5.95	1.99	1707	132.52	4.37	1.98	1253	76.01	5.15	2.00	886	41.98	3.56	2.09	613	23.39	4.57	1.82	561	20.52	3.67	1.86	450	15.06
	5.5V (M)	8.45	3.00	2422	253.78	6.20	2.93	1777	142.75	7.31	2.99	1257	76.48	5.06	3.07	869	40.71	6.48	2.72	796	35.26	5.20	2.75	639	24.94
	8.0V (H)	10.37	3.89	2971	373.66	7.61	3.75	2180	208.36	8.97	3.85	1542	110.17	6.20	3.89	1066	57.44	7.95	3.49	977	49.45	6.38	3.50	784	34.37
	9.5V	11.24	4.45	3221	435.88	8.24	4.24	2363	242.29	9.72	4.37	1671	127.55	6.72	4.35	1156	66.01	8.62	3.96	1059	56.73	6.92	3.93	849	39.18
Air Temperature		DB:27°C - WB:19°C																							
Water Temperature	Delta T °C	ΔT=3								ΔT=5								ΔT=7							
	Water In / Out	5 °C - 8 °C				11 °C - 14 °C				7 °C - 12°C				13 °C - 18 °C				6 °C - 13 °C				10 °C - 17 °C			
Model / Fan Speed		Tc	Sc	Wf	Wpd	Tc	Sc	Wf	Wpd	Tc	Sc	Wf	Wpd	Tc	Sc	Wf	Wpd	Tc	Sc	Wf	Wpd	Tc	Sc	Wf	Wpd
		kW	kW	l/h	kPa	kW	kW	l/h	kPa	kW	kW	l/h	kPa	kW	kW	l/h	kPa	kW	kW	l/h	kPa	kW	kW	l/h	kPa
FWF02DT	3.0V (L)	1.66	1.27	476	10.81	0.96	0.94	274	6.86	1.30	1.09	224	6.12	0.67	0.67	116	4.85	1.04	0.90	128	4.98	0.72	0.72	88	4.60
	5.5V (M)	2.12	1.67	608	14.27	1.22	1.22	350	8.17	1.67	1.43	286	7.06	0.86	0.86	148	5.18	1.33	1.18	164	5.36	0.91	0.91	112	4.82
	8.0V (H)	2.55	2.05	730	18.04	1.47	1.47	420	9.57	2.00	1.76	344	8.05	1.03	1.03	177	5.52	1.60	1.45	197	5.76	1.10	1.10	135	5.04
	9.5V	2.78	2.27	798	20.39	1.60	1.60	459	10.43	2.18	1.94	376	8.66	1.13	1.13	194	5.72	1.75	1.60	215	6.00	1.20	1.20	147	5.18
FWF03DT	3.0V (L)	3.01	2.01	864	58.15	1.74	1.54	498	23.94	2.37	1.75	407	18.04	1.22	1.22	211	8.89	1.90	1.45	233	9.70	1.30	1.22	160	7.33
	6.0V (M)	3.53	2.39	1013	76.97	2.04	1.83	584	30.47	2.78	2.08	477	22.50	1.44	1.44	247	10.21	2.23	1.72	273	11.29	1.53	1.44	188	8.14
	8.0V (H)	3.82	2.66	1094	88.36	2.20	2.02	631	34.39	3.00	2.31	515	25.17	1.55	1.55	266	11.00	2.40	1.91	295	12.23	1.65	1.59	203	8.62
	9.5V	4.00	2.82	1146	96.04	2.30	2.14	660	37.03	3.14	2.45	540	26.97	1.62	1.62	279	11.52	2.52	2.02	309	12.87	1.73	1.68	212	8.94
FWF04DT	3.0V (L)	3.37	2.17	966	48.74	1.94	1.69	557	20.52	2.65	1.91	455	15.48	1.37	1.37	236	7.37	2.12	1.58	261	8.11	1.46	1.33	179	5.88
	5.5V (M)	4.34	2.84	1243	75.18	2.50	2.19	717	30.01	3.41	2.49	586	22.06	1.76	1.76	303	9.46	2.73	2.06	335	10.59	1.87	1.73	230	7.22
	8.0V (H)	5.18	3.44	1484	103.05	2.99	2.65	856	39.87	4.07	3.01	699	28.86	2.10	2.10	362	11.57	3.26	2.49	400	13.11	2.24	2.09	275	8.55
	9.5V	5.63	3.81	1615	120.00	3.25	2.92	931	45.82	4.42	3.32	761	32.95	2.29	2.29	393	12.81	3.55	2.74	436	14.61	2.43	2.30	299	9.33
FWF05DT	3.0V (L)	3.74	2.41	1071	57.89	2.15	1.87	617	23.64	2.93	2.11	504	17.61	1.51	1.51	260	7.90	2.35	1.75	289	8.79	1.61	1.47	198	6.15
	5.5V (M)	5.30	3.53	1520	107.38	3.05	2.71	876	41.19	4.16	3.08	716	29.74	2.15	2.15	369	11.67	3.34	2.55	410	13.30	2.29	2.13	281	8.54
	8.0V (H)	6.50	4.46	1864	155.85	3.74	3.40	1073	58.08	5.10	3.88	878	41.35	2.63	2.63	453	15.17	4.09	3.20	502	17.51	2.80	2.67	344	10.72
	9.5V	7.05	4.98	2020	180.86	4.06	3.76	1163	66.71	5.53	4.31	951	47.28	2.85	2.85	490	16.91	4.43	3.56	544	19.63	3.03	2.96	373	11.80
Air Temperature		DB:18°C - WB:15°C																							
Water Temperature	Delta T °C	ΔT=3								ΔT=5								ΔT=7							
	Water In / Out	5 °C - 8 °C				11 °C - 14 °C				7 °C - 12°C				12 °C - 17 °C				6 °C - 13 °C				10 °C - 17 °C			
Model / Fan Speed		Tc	Sc	Wf	Wpd	Tc	Sc	Wf	Wpd	Tc	Sc	Wf	Wpd	Tc	Sc	Wf	Wpd	Tc	Sc	Wf	Wpd	Tc	Sc	Wf	Wpd
		kW	kW	l/h	kPa	kW	kW	l/h	kPa	kW	kW	l/h	kPa	kW	kW	l/h	kPa	kW	kW	l/h	kPa	kW	kW	l/h	kPa
FWF02DT	3.0V (L)	1.01	0.81	288	7.09	0.26	0.26	73	4.48	0.65	0.59	112	4.82	0.10	0.10	18	4.10	0.39	0.35	48	4.29	0.13	0.13	16	4.09
	5.5V (M)	1.29	1.06	369	8.52	0.33	0.33	93	4.65	0.83	0.77	143	5.13	0.13	0.13	23	4.13	0.50	0.46	61	4.39	0.17	0.17	20	4.11
	8.0V (H)	1.54	1.31	442	10.05	0.39	0.39	112	4.82	0.99	0.95	171	5.44	0.16	0.16	27	4.15	0.60	0.57	73	4.48	0.20	0.20	24	4.14
	9.5V	1.69	1.45	483	10.99	0.42	0.42	122	4.91	1.09	1.05	187	5.63	0.17	0.17	29	4.17	0.65	0.63	80	4.54	0.22	0.22	26	4.15
FWF03DT	3.0V (L)	1.83	1.29	524	25.81	0.47	0.47	134	6.65	1.18	0.96	203	8.64	0.19	0.19	33	4.82	0.71	0.58	88	5.65	0.24	0.24	30	4.78
	6.0V (M)	2.14	1.54	615	33.00	0.55	0.55	157	7.24	1.38	1.14	238	9.88	0.23	0.23	39	4.89	0.83	0.68	103	5.94	0.28	0.28	35	4.84
	8.0V (H)	2.32	1.71	664	37.33	0.59	0.59	169	7.59	1.49	1.26	257	10.62	0.24	0.24	42	4.93	0.90	0.76	111	6.11	0.30	0.30	37	4.87
	9.5V	2.42	1.81	695	40.23	0.62	0.62	177	7.81	1.56	1.33	269	11.11	0.25	0.25	44	4.95	0.94	0.80	116	6.22	0.32	0.32	39	4.89
FWF04DT	3.0V (L)	2.05	1.41	586	22.10	0.52	0.52	150	5.22	1.32	1.05	227	7.13	0.22	0.22	37	3.24	0.80	0.63	98	4.18	0.27	0.27	33	3.19
	5.5V (M)	2.63	1.83	754	32.51	0.67	0.67	193	6.22	1.70	1.36	292	9.11	0.28	0.28	48	3.38	1.03	0.82	126	4.71	0.35	0.35	43	3.31
	8.0V (H)	3.14	2.22	900	43.35	0.80	0.80	230	7.21	2.03	1.65	349	11.09	0.33	0.33	57	3.51	1.22	0.99	150	5.22	0.41	0.41	51	3.42
	9.5V	3.42	2.45	979	49.89	0.87	0.87	250	7.78	2.21	1.82	379	12.26	0.36	0.36	62	3.58	1.33	1.09	163	5.51	0.45	0.45	55	3.48
FWF05DT	3.0V (L)	2.27	1.56	649	25.54	0.57	0.57	165	5.34	1.46	1.16	251	7.62	0.23	0.23	40	3.08	0.88	0.69	108	4.16	0.29	0.29	36	3.02
	5.5V (M)	3.21	2.27	921	44.82	0.81	0.81	233	7.11	2.07	1.68	357	11.17	0.33	0.33	57	3.31	1.25	1.01	153	5.08	0.42	0.42	51	3.23
	8.0V (H)	3.94	2.86	1129	63.42	0.99	0.99	285	8.67	2.54	2.11	437	14.46	0.40	0.40	69	3.50	1.53	1.26	187	5.88	0.51	0.51	62	3.39
	9.5V	4.27	3.19	1223	72.93	1.07	1.07	308	9.43	2.75	2.35	473	16.09	0.43	0.43	74	3.58	1.65	1.40	203	6.27	0.54	0.54	67	3.46

SYMBOLS

Tc = Total Cooling Capacity

Sc = Sensible Cooling Capacity

Wf = Water Flow Rate

Wpd = Water Pressure Drop

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7 Capacity tables

7 - 1 Cooling Capacity Tables

FWF02DAFN5V3--
FWF03DAFN5V3--
FWF04DAFN5V3--
FWF05DAFN5V3--

COOLING 4 PIPE @ 0 ESP

Air Temperature: DB:33°C - WB:26°C

Water Temperature	Delta T °C	ΔT=3								ΔT=5								ΔT=7							
	Water In / Out	5 °C - 8 °C				11 °C - 14 °C				7 °C - 12°C				13 °C - 18 °C				6 °C - 13 °C				10 °C - 17 °C			
Model / Fan Speed		Tc	Sc	Wf	Wpd	Tc	Sc	Wf	Wpd	Tc	Sc	Wf	Wpd	Tc	Sc	Wf	Wpd	Tc	Sc	Wf	Wpd	Tc	Sc	Wf	Wpd
		kW	kW	l/h	kPa	kW	kW	l/h	kPa	kW	kW	l/h	kPa	kW	kW	l/h	kPa	kW	kW	l/h	kPa	kW	kW	l/h	kPa
FWF02DF	3.0V (L)	2.93	1.30	840	22.22	2.15	1.21	616	14.80	2.53	1.26	436	10.21	1.75	1.22	302	7.61	2.25	1.14	276	7.19	1.80	1.11	222	6.39
	5.5V (M)	3.48	1.62	996	28.57	2.55	1.49	731	18.37	3.01	1.56	517	12.12	2.08	1.49	358	8.61	2.67	1.41	328	8.06	2.14	1.37	263	6.99
	8.0V (H)	4.07	2.01	1166	36.53	2.99	1.83	856	22.83	3.52	1.93	605	14.48	2.43	1.82	419	9.84	3.12	1.74	383	9.11	2.50	1.67	308	7.71
	9.5V	4.45	2.29	1275	42.20	3.26	2.07	935	25.99	3.85	2.19	661	16.14	2.66	2.04	458	10.69	3.41	1.98	419	9.84	2.74	1.89	336	8.21
FWF03DF	3.0V (L)	4.67	1.38	1337	127.54	3.43	1.42	982	72.78	4.04	1.41	694	40.18	2.79	1.53	480	22.70	3.58	1.29	440	20.04	2.87	1.35	353	15.04
	6.0V (M)	5.61	1.88	1608	179.97	4.12	1.87	1181	101.44	4.85	1.89	835	54.81	3.36	1.97	578	29.94	4.31	1.72	529	26.17	3.46	1.76	425	19.10
	8.0V (H)	6.09	2.10	1745	210.04	4.47	2.07	1281	117.84	5.27	2.10	906	63.17	3.65	2.18	627	34.06	4.67	1.91	574	29.65	3.75	1.94	461	21.40
	9.5V	6.37	2.27	1825	228.68	4.68	2.22	1340	128.00	5.51	2.26	947	68.35	3.81	2.32	656	36.60	4.89	2.05	600	31.80	3.92	2.08	482	22.81
FWF04DF	3.0V (L)	5.23	1.61	1499	104.67	3.84	1.63	1101	60.58	4.53	1.63	778	33.88	3.13	1.75	539	19.24	4.01	1.49	493	16.96	3.22	1.55	396	12.62
	5.5V (M)	6.76	2.13	1937	167.16	4.96	2.15	1422	95.15	5.85	2.16	1005	51.84	4.05	2.29	696	28.35	5.19	1.97	637	24.71	4.16	2.03	511	17.86
	8.0V (H)	8.11	2.72	2324	234.66	5.95	2.70	1706	132.30	7.01	2.74	1206	71.02	4.85	2.85	835	37.97	6.22	2.49	764	32.89	4.99	2.54	614	23.34
	9.5V	8.83	3.06	2531	275.63	6.48	3.01	1858	154.79	7.64	3.06	1314	82.59	5.29	3.16	909	43.75	6.78	2.78	832	37.79	5.44	2.82	668	26.61
FWF05DF	3.0V (L)	5.36	1.69	1536	109.84	3.93	1.70	1128	63.67	4.64	1.71	797	35.73	3.21	1.82	552	20.43	4.11	1.56	505	18.05	3.30	1.61	406	13.52
	5.5V (M)	8.11	2.72	2324	235.33	5.95	2.70	1706	132.84	7.02	2.73	1206	71.56	4.85	2.85	835	38.47	6.22	2.48	764	33.40	4.99	2.54	614	23.84
	8.0V (H)	10.20	3.52	2924	362.88	7.49	3.47	2145	202.61	8.82	3.52	1517	107.43	6.10	3.64	1049	56.27	7.82	3.20	961	48.53	6.28	3.25	771	33.89
	9.5V	11.14	3.97	3193	429.16	8.17	3.87	2342	238.70	9.63	3.95	1657	125.94	6.66	4.05	1145	65.38	8.54	3.59	1049	56.28	6.85	3.63	842	39.00

Air Temperature: DB:27°C - WB:19°C

Water Temperature	Delta T °C	ΔT=3								ΔT=5								ΔT=7							
	Water In / Out	5 °C - 8 °C				11 °C - 14 °C				7 °C - 12°C				13 °C - 18 °C				6 °C - 13 °C				10 °C - 17 °C			
Model / Fan Speed		Tc	Sc	Wf	Wpd	Tc	Sc	Wf	Wpd	Tc	Sc	Wf	Wpd	Tc	Sc	Wf	Wpd	Tc	Sc	Wf	Wpd	Tc	Sc	Wf	Wpd
		kW	kW	l/h	kPa	kW	kW	l/h	kPa	kW	kW	l/h	kPa	kW	kW	l/h	kPa	kW	kW	l/h	kPa	kW	kW	l/h	kPa
FWF02DF	3.0V (L)	1.84	1.39	527	12.37	1.06	1.04	304	7.64	1.44	1.20	248	6.77	0.75	0.75	128	5.28	1.16	0.99	142	5.42	0.79	0.79	98	4.99
	5.5V (M)	2.18	1.69	625	15.06	1.26	1.25	360	8.66	1.71	1.46	294	7.49	0.88	0.88	152	5.53	1.37	1.20	169	5.72	0.94	0.94	116	5.15
	8.0V (H)	2.55	2.06	732	18.40	1.47	1.47	421	9.90	2.00	1.76	345	8.37	1.03	1.03	178	5.83	1.61	1.45	197	6.07	1.10	1.10	135	5.35
	9.5V	2.79	2.31	800	20.76	1.61	1.61	461	10.76	2.19	1.97	377	8.97	1.13	1.13	194	6.03	1.75	1.62	216	6.31	1.20	1.20	148	5.48
FWF03DF	3.0V (L)	2.93	1.78	840	55.38	1.69	1.40	484	22.96	2.30	1.61	396	17.37	1.19	1.19	204	8.69	1.84	1.30	227	9.45	1.27	1.11	155	7.20
	6.0V (M)	3.52	2.27	1010	76.53	2.03	1.76	582	30.31	2.77	1.99	476	22.39	1.43	1.43	246	10.18	2.22	1.65	272	11.25	1.52	1.39	187	8.12
	8.0V (H)	3.82	2.50	1096	88.63	2.20	1.93	632	34.49	3.00	2.19	516	25.24	1.55	1.55	267	11.02	2.41	1.81	296	12.26	1.65	1.52	203	8.64
	9.5V	4.00	2.66	1146	96.12	2.31	2.05	661	37.07	3.14	2.32	540	26.99	1.62	1.62	279	11.53	2.52	1.92	309	12.88	1.73	1.61	212	8.95
FWF04DF	3.0V (L)	3.29	2.03	942	46.40	1.89	1.59	543	19.47	2.58	1.78	444	14.66	1.33	1.33	229	6.89	2.07	1.48	254	7.61	1.42	1.26	174	5.47
	5.5V (M)	4.24	2.65	1216	72.11	2.45	2.07	702	28.71	3.33	2.33	573	21.07	1.72	1.72	296	8.94	2.67	1.93	328	10.04	1.83	1.64	225	6.78
	8.0V (H)	5.09	3.29	1459	99.65	2.94	2.55	841	38.47	4.00	2.88	687	27.81	2.07	2.07	355	11.04	3.21	2.38	394	12.53	2.20	2.01	270	8.10
	9.5V	5.55	3.64	1589	116.30	3.20	2.81	916	44.33	4.35	3.18	749	31.83	2.25	2.25	387	12.27	3.49	2.63	429	14.01	2.40	2.21	294	8.87
FWF05DF	3.0V (L)	3.37	2.10	965	48.84	1.94	1.64	556	20.67	2.64	1.85	455	15.65	1.37	1.37	235	7.55	2.12	1.53	260	8.30	1.45	1.30	179	6.07
	5.5V (M)	5.09	3.28	1459	100.16	2.93	2.54	841	38.94	4.00	2.88	687	28.30	2.06	2.06	355	11.52	3.20	2.38	394	13.03	2.20	2.01	270	8.59
	8.0V (H)	6.40	4.19	1834	151.69	3.68	3.23	1056	56.87	5.02	3.67	864	40.66	2.59	2.59	445	15.23	4.02	3.03	494	17.51	2.76	2.54	339	10.91
	9.5V	6.99	4.65	2002	178.26	4.02	3.57	1151	65.98	5.48	4.05	942	46.95	2.82	2.82	485	17.07	4.39	3.35	539	19.76	3.00	2.80	369	12.05

Air Temperature: DB:18°C - WB:15°C

Water Temperature	Delta T °C	ΔT=3								ΔT=5								ΔT=7							
	Water In / Out	5 °C - 8 °C				11 °C - 14 °C				7 °C - 12°C				12 °C - 17 °C				6 °C - 13 °C				10 °C - 17 °C			
Model / Fan Speed		Tc	Sc	Wf	Wpd	Tc	Sc	Wf	Wpd	Tc	Sc	Wf	Wpd	Tc	Sc	Wf	Wpd	Tc	Sc	Wf	Wpd	Tc	Sc	Wf	Wpd
		kW	kW	l/h	kPa	kW	kW	l/h	kPa	kW	kW	l/h	kPa	kW	kW	l/h	kPa	kW	kW	l/h	kPa	kW	kW	l/h	kPa
FWF02DF	3.0V (L)	1.12	0.89	320	7.92	0.28	0.28	81	4.85	0.72	0.65	124	5.23	0.12	0.12	20	4.41	0.43	0.39	53	4.63	0.15	0.15	18	4.40
	5.5V (M)	1.32	1.08	379	9.02	0.34	0.34	96	4.97	0.85	0.79	147	5.47	0.14	0.14	24	4.43	0.51	0.47	63	4.70	0.17	0.17	21	4.42
	8.0V (H)	1.55	1.31	443	10.38	0.39	0.39	112	5.12	1.00	0.95	172	5.75	0.16	0.16	27	4.46	0.60	0.57	74	4.78	0.20	0.20	25	4.44
	9.5V	1.69	1.47	485	11.32	0.43	0.43	123	5.22	1.09	1.06	187	5.94	0.17	0.17	30	4.47	0.65	0.64	80	4.84	0.22	0.22	27	4.45
FWF03DF	3.0V (L)	1.78	1.15	509	24.73	0.45	0.45	130	6.55	1.15	0.86	197	8.45	0.19	0.19	32	4.81	0.69	0.52	85	5.60	0.23	0.23	29	4.77
	6.0V (M)	2.14	1.47	613	32.83	0.54	0.54	156	7.22	1.38	1.09	237	9.85	0.22	0.22	39	4.89	0.83	0.66	102	5.93	0.28	0.28	34	4.84
	8.0V (H)	2.32	1.62	665	37.43	0.59	0.59	169	7.60	1.50	1.20	258	10.64	0.24	0.24	42	4.93	0.90	0.72	111	6.12	0.30	0.30	37	4.87
	9.5V	2.43	1.72	695	40.27	0.62	0.62	177	7.82	1.57	1.27	269	11.12	0.25	0.25	44	4.95	0.94	0.76	116	6.23	0.32	0.32	39	4.89
FWF04DF	3.0V (L)	1.99	1.31	571	20.97	0.51	0.51	146	4.82	1.29	0.98	221	6.67	0.21	0.21	36	2.92	0.78	0.59	95	3.83	0.26	0.26	32	2.87
	5.5V (M)	2.58	1.72	738	31.11	0.66	0.66	189	5.81	1.66	1.28	286	8.60	0.27	0.27	47	3.07	1.00	0.77	123	4.35	0.34	0.34	42	3.00
	8.0V (H)	3.09	2.12	885	41.84	0.79	0.79	226	6.80	1.99	1.58	343	10.57	0.33	0.33	56	3.20	1.20	0.95	148	4.86	0.41	0.41	50	3.11
	9.5V	3.36	2.35	964	48.28	0.86	0.86	246	7.37	2.17	1.74	374	11.73	0.35	0.35	61	3.27	1.31	1.05	161	5.15	0.44	0.44	54	3.17
FWF05DF	3.0V (L)	2.04	1.36	585	22.24	0.52	0.52	150	5.40	1.32	1.02	227	7.32	0.22	0.22	37	3.44	0.80	0.61	98	4.38	0.27	0.27	33	3.38
	5.5V (M)	3.09	2.12	885	42.30	0.78	0.78	225	7.27	1.99	1.58	343	11.06	0.32	0.32	55	3.69	1.20	0.95	147	5.35	0.40	0.40	49	3.60
	8.0V (H)	3.88	2.70	1111	62.05	0.98	0.98	280	8.91	2.50	2.00	429	14.54	0.39	0.39	68	3.87	1.50	1.20	184	6.20	0.50	0.50	61	3.77
	9.5V	4.23	2.99	1212	72.10	1.06	1.06	303	9.67	2.72	2.21	468	16.26	0.42	0.42	72	3.95	1.63	1.32	200	6.61	0.53	0.53	65	3.84

SYMBOLS

Tc = Total Cooling Capacity

Sc = Sensible Cooling Capacity

Wf = Water Flow Rate

Wpd = Water Pressure Drop

3D144225

7 Capacity tables

7 - 2 Heating Capacity Tables

FWF02DATN5V3--
FWF03DATN5V3--
FWF04DATN5V3--
FWF05DATN5V3--

HEATING 2 PIPE @ 0 ESP																				
Air Temperature		DB:25°C - WB:**°C																		
Water Temperature	Delta T °C	ΔT=5						ΔT=10						ΔT=20						
	Water In / Out	45 °C - 40 °C			65 °C - 60 °C			50 °C - 40°C			65 °C - 55 °C			50 °C - 30 °C			70 °C - 50 °C		
Model / Fan Speed		Tc	Wf	Wpd	Tc	Wf	Wpd	Tc	Wf	Wpd	Tc	Wf	Wpd	Tc	Wf	Wpd	Tc	Wf	Wpd
		kW	l/h	kPa	kW	l/h	kPa	kW	l/h	kPa	kW	l/h	kPa	kW	l/h	kPa	kW	l/h	kPa
FWF02DT	3.0V (L)	1.17	201	4.73	2.67	459	11.15	1.20	103	2.77	2.42	208	4.87	0.42	18	1.29	2.25	97	2.65
	5.5V (M)	1.54	265	6.13	3.51	603	15.53	1.58	136	3.39	3.18	273	6.33	0.55	24	1.38	2.95	127	3.22
	8.0V (H)	1.90	328	7.64	4.34	747	20.49	1.96	168	4.03	3.94	339	7.91	0.69	29	1.48	3.66	157	3.81
	9.5V	2.12	365	8.60	4.84	833	23.74	2.18	188	4.44	4.39	378	8.91	0.76	33	1.53	4.08	175	4.18
FWF03DT	3.0V (L)	1.83	314	14.16	4.16	716	44.06	1.88	161	6.64	3.77	325	14.76	0.66	28	1.82	3.51	151	6.20
	6.0V (M)	2.22	381	18.13	5.05	869	59.28	2.28	196	8.15	4.58	394	18.93	0.80	34	2.00	4.26	183	7.58
	8.0V (H)	2.48	426	21.01	5.65	971	70.60	2.54	219	9.22	5.12	440	21.96	0.89	38	2.13	4.76	204	8.55
	9.5V	2.67	460	23.31	6.10	1048	79.82	2.75	236	10.06	5.53	475	24.38	0.96	41	2.22	5.13	221	9.32
FWF04DT	3.0V (L)	2.02	347	10.84	4.61	792	34.19	2.07	178	6.15	4.18	359	11.25	0.73	31	3.94	3.88	167	5.91
	5.5V (M)	2.61	449	14.77	5.96	1024	52.68	2.68	231	7.35	5.40	464	15.42	0.94	40	4.03	5.01	216	6.99
	8.0V (H)	3.20	550	19.49	7.29	1254	75.29	3.28	282	8.76	6.61	568	20.44	1.15	49	4.12	6.14	264	8.24
	9.5V	3.55	611	22.76	8.10	1394	91.09	3.65	314	9.72	7.35	632	23.91	1.28	55	4.18	6.82	293	9.09
FWF05DT	3.0V (L)	2.21	380	12.12	5.04	867	39.78	2.27	195	6.61	4.57	393	12.60	0.80	34	4.07	4.25	183	6.34
	5.5V (M)	3.26	560	20.12	7.43	1277	77.93	3.34	288	9.02	6.73	579	21.10	1.17	50	4.23	6.26	269	8.48
	8.0V (H)	4.30	740	30.74	9.81	1688	129.67	4.42	380	12.11	8.90	765	32.40	1.55	67	4.42	8.27	355	11.22
	9.5V	4.93	848	38.36	11.25	1934	167.23	5.06	435	14.30	10.19	877	40.51	1.78	76	4.54	9.47	407	13.15
Air Temperature		DB:20°C - WB:**°C																		
Water Temperature	Delta T °C	ΔT=5						ΔT=10						ΔT=20						
	Water In / Out	45 °C - 40 °C			65 °C - 60 °C			50 °C - 40°C			65 °C - 55 °C			50 °C - 30 °C			70 °C - 50 °C		
Model / Fan Speed		Tc	Wf	Wpd	Tc	Wf	Wpd	Tc	Wf	Wpd	Tc	Wf	Wpd	Tc	Wf	Wpd	Tc	Wf	Wpd
		kW	l/h	kPa	kW	l/h	kPa	kW	l/h	kPa	kW	l/h	kPa	kW	l/h	kPa	kW	l/h	kPa
FWF02DT	3.0V (L)	1.56	269	6.22	3.08	529	13.21	1.59	137	3.41	2.69	231	5.37	0.84	36	1.59	2.66	114	2.97
	5.5V (M)	2.05	353	8.27	4.04	695	18.63	2.09	180	4.28	3.53	303	7.04	1.11	48	1.78	3.49	150	3.67
	8.0V (H)	2.54	437	10.51	5.00	860	24.81	2.59	223	5.19	4.37	376	8.86	1.37	59	1.97	4.32	186	4.40
	9.5V	2.83	487	11.96	5.58	960	28.89	2.89	248	5.76	4.87	419	10.02	1.53	66	2.09	4.82	207	4.85
FWF03DT	3.0V (L)	2.44	419	20.54	4.80	825	54.68	2.48	214	8.98	4.19	360	16.85	1.32	57	2.71	4.14	178	7.36
	6.0V (M)	2.96	508	26.77	5.82	1001	74.13	3.01	259	11.22	5.08	437	21.75	1.60	69	3.11	5.02	216	9.09
	8.0V (H)	3.30	568	31.33	6.51	1119	88.67	3.37	290	12.82	5.68	488	25.32	1.78	77	3.39	5.61	241	10.32
	9.5V	3.57	613	35.00	7.02	1208	100.53	3.64	313	14.08	6.13	527	28.19	1.93	83	3.60	6.06	261	11.29
FWF04DT	3.0V (L)	2.69	463	15.39	5.31	913	43.25	2.75	236	7.50	4.63	398	12.71	1.45	63	4.27	4.58	197	6.55
	5.5V (M)	3.48	599	22.08	6.86	1180	67.53	3.55	305	9.46	5.99	515	17.77	1.88	81	4.49	5.92	255	7.98
	8.0V (H)	4.26	733	30.18	8.40	1445	97.27	4.35	374	11.79	7.33	631	23.86	2.30	99	4.74	7.25	312	9.66
	9.5V	4.74	815	35.80	9.34	1605	118.08	4.83	416	13.38	8.15	701	28.09	2.56	110	4.91	8.06	346	10.80
FWF05DT	3.0V (L)	2.95	507	17.48	5.81	999	50.55	3.01	259	8.19	5.07	436	14.32	1.59	68	4.44	5.01	215	7.08
	5.5V (M)	4.34	747	31.19	8.56	1472	100.72	4.43	381	12.15	7.47	642	24.64	2.35	101	4.87	7.38	317	9.94
	8.0V (H)	5.74	987	49.53	11.31	1944	168.92	5.85	503	17.31	9.87	849	38.40	3.10	133	5.39	9.76	419	13.64
	9.5V	6.58	1131	62.77	12.96	2228	218.48	6.71	577	20.99	11.31	973	48.31	3.55	153	5.74	11.18	481	16.26
Air Temperature		DB:18°C - WB:**°C																		
Water Temperature	Delta T °C	ΔT=5						ΔT=10						ΔT=20						
	Water In / Out	45 °C - 40 °C			65 °C - 60 °C			50 °C - 40°C			65 °C - 55 °C			50 °C - 30 °C			70 °C - 50 °C		
Model / Fan Speed		Tc	Wf	Wpd	Tc	Wf	Wpd	Tc	Wf	Wpd	Tc	Wf	Wpd	Tc	Wf	Wpd	Tc	Wf	Wpd
		kW	l/h	kPa	kW	l/h	kPa	kW	l/h	kPa	kW	l/h	kPa	kW	l/h	kPa	kW	l/h	kPa
FWF02DT	3.0V (L)	1.70	293	6.79	3.20	551	13.87	1.73	149	3.65	2.95	254	5.88	1.00	43	1.70	2.80	120	3.09
	5.5V (M)	2.24	384	9.09	4.20	723	19.63	2.28	196	4.61	3.88	333	7.78	1.31	56	1.93	3.67	158	3.83
	8.0V (H)	2.77	476	11.63	5.21	895	26.22	2.82	242	5.63	4.80	413	9.85	1.63	70	2.17	4.55	195	4.60
	9.5V	3.09	531	13.27	5.81	999	30.57	3.14	270	6.26	5.35	460	11.18	1.81	78	2.31	5.07	218	5.09
FWF03DT	3.0V (L)	2.65	457	23.08	4.99	859	58.16	2.70	232	9.88	4.60	396	19.05	1.56	67	3.06	4.36	187	7.78
	6.0V (M)	3.22	554	30.24	6.06	1042	79.02	3.28	282	12.41	5.59	480	24.74	1.89	81	3.55	5.29	227	9.64
	8.0V (H)	3.60	619	35.49	6.77	1164	94.62	3.67	315	14.22	6.24	537	28.90	2.11	91	3.89	5.91	254	10.96
	9.5V	3.89	668	39.73	7.31	1257	107.37	3.96	340	15.66	6.74	579	32.25	2.28	98	4.15	6.38	274	12.00
FWF04DT	3.0V (L)	2.94	505	17.29	5.52	950	46.28	2.99	257	8.05	5.09	438	14.29	1.72	74	4.41	4.82	207	6.79
	5.5V (M)	3.80	653	25.15	7.14	1228	72.49	3.87	332	10.33	6.58	566	20.32	2.23	96	4.70	6.23	268	8.35
	8.0V (H)	4.65	799	34.69	8.74	1503	104.62	4.73	407	13.04	8.06	693	27.59	2.73	117	5.02	7.63	328	10.19
	9.5V	5.17	888	41.32	9.71	1671	127.12	5.26	452	14.91	8.96	770	32.65	3.03	130	5.24	8.48	365	11.45
FWF05DT	3.0V (L)	3.21	553	19.73	6.04	1039	54.15	3.27	281	8.84	5.57	479	16.19	1.89	81	4.60	5.28	227	7.36
	5.5V (M)	4.73	814	35.86	8.91	1531	108.35	4.82	415	13.44	8.21	706	28.51	2.78	120	5.16	7.78	334	10.49
	8.0V (H)	6.26	1076	57.50	11.77	2023	182.06	6.37	548	19.48	10.85	933	44.98	3.67	158	5.84	10.27	442	14.56
	9.5V	7.17	1233	73.13	13.48	2319	235.65	7.30	628	23.79	12.43	1069	56.85	4.21	181	6.31	11.77	506	17.44

SYMBOLS

Tc = Total Cooling Capacity

Sc = Sensible Cooling Capacity

Wf = Water Flow Rate

Wpd = Water Pressure Drop

3D144630

7 Capacity tables

7 - 2 Heating Capacity Tables

FWF02DAFN5V3--
FWF03DAFN5V3--
FWF04DAFN5V3--
FWF05DAFN5V3--

HEATING 4 PIPE @ 0 ESP																				
Air Temperature		DB:25°C - WB:**°C																		
Water Temperature	Delta T °C	ΔT=5						ΔT=10						ΔT=20						
	Water In / Out	45 °C - 40 °C			65 °C - 60 °C			50 °C - 40°C			65 °C - 55 °C			50 °C - 30 °C			70 °C - 50 °C		
Model / Fan Speed		Tc	Wf	Wpd	Tc	Wf	Wpd	Tc	Wf	Wpd	Tc	Wf	Wpd	Tc	Wf	Wpd	Tc	Wf	Wpd
		kW	l/h	kPa	kW	l/h	kPa	kW	l/h	kPa	kW	l/h	kPa	kW	l/h	kPa	kW	l/h	kPa
FWF02DF	3.0V (L)	0.89	154	5.88	2.14	369	14.17	0.85	73	3.97	1.88	161	6.10	0.20	9	2.91	1.67	72	3.95
	5.5V (M)	1.11	191	6.98	2.66	458	18.97	1.05	91	4.33	2.33	200	7.29	0.25	11	2.94	2.08	89	4.30
	8.0V (H)	1.33	228	8.22	3.18	547	24.58	1.26	108	4.72	2.78	239	8.63	0.30	13	2.97	2.48	107	4.69
	9.5V	1.46	250	9.03	3.49	601	28.32	1.38	119	4.98	3.06	263	9.51	0.33	14	2.98	2.73	117	4.94
FWF03DF	3.0V (L)	1.11	192	3.94	2.67	460	10.65	1.06	91	2.45	2.34	201	4.11	0.25	11	1.68	2.09	90	2.44
	6.0V (M)	1.44	248	5.02	3.46	595	15.57	1.37	118	2.80	3.03	260	5.28	0.32	14	1.70	2.70	116	2.77
	8.0V (H)	1.66	286	5.84	3.99	686	19.42	1.58	136	3.04	3.49	300	6.17	0.37	16	1.72	3.12	134	3.02
	9.5V	1.83	314	6.50	4.38	753	22.61	1.73	149	3.24	3.83	330	6.89	0.41	18	1.73	3.42	147	3.21
FWF04DF	3.0V (L)	1.16	200	4.48	2.79	479	11.68	1.10	95	2.90	2.44	210	4.66	0.26	11	2.08	2.18	94	2.89
	5.5V (M)	1.50	258	5.62	3.60	618	16.91	1.42	122	3.26	3.15	271	5.90	0.34	14	2.11	2.81	121	3.24
	8.0V (H)	1.84	316	6.95	4.41	758	23.23	1.74	150	3.66	3.86	332	7.34	0.41	18	2.13	3.44	148	3.63
	9.5V	2.04	351	7.84	4.89	842	27.54	1.94	167	3.92	4.28	368	8.31	0.46	20	2.15	3.82	164	3.88
FWF05DF	3.0V (L)	1.20	206	5.09	2.87	494	12.69	1.14	98	3.44	2.51	216	5.28	0.27	12	2.58	2.24	96	3.42
	5.5V (M)	1.73	297	6.99	4.14	712	21.55	1.64	141	4.02	3.63	312	7.35	0.39	17	2.62	3.24	139	3.99
	8.0V (H)	2.26	388	9.36	5.41	931	33.08	2.14	184	4.71	4.74	407	9.92	0.51	22	2.66	4.23	182	4.67
	9.5V	2.57	443	11.00	6.18	1062	41.27	2.45	210	5.17	5.41	465	11.71	0.58	25	2.69	4.83	207	5.12
Air Temperature		DB:20°C - WB:**°C																		
Water Temperature	Delta T °C	ΔT=5						ΔT=10						ΔT=20						
	Water In / Out	45 °C - 40 °C			65 °C - 60 °C			50 °C - 40°C			65 °C - 55 °C			50 °C - 30 °C			70 °C - 50 °C		
Model / Fan Speed		Tc	Wf	Wpd	Tc	Wf	Wpd	Tc	Wf	Wpd	Tc	Wf	Wpd	Tc	Wf	Wpd	Tc	Wf	Wpd
		kW	l/h	kPa	kW	l/h	kPa	kW	l/h	kPa	kW	l/h	kPa	kW	l/h	kPa	kW	l/h	kPa
FWF02DF	3.0V (L)	1.25	215	7.77	2.50	430	17.39	1.23	106	4.66	2.23	192	7.02	0.58	25	3.14	2.03	87	4.26
	5.5V (M)	1.55	267	9.68	3.11	534	23.71	1.53	131	5.28	2.77	238	8.60	0.72	31	3.23	2.52	108	4.73
	8.0V (H)	1.86	319	11.85	3.71	638	31.13	1.82	157	5.97	3.31	285	10.39	0.86	37	3.33	3.02	130	5.24
	9.5V	2.04	350	13.29	4.07	701	36.10	2.00	172	6.41	3.64	313	11.57	0.95	41	3.38	3.31	142	5.57
FWF03DF	3.0V (L)	1.56	268	5.45	3.12	536	13.30	1.53	132	2.99	2.78	239	4.84	0.72	31	1.84	2.53	109	2.68
	6.0V (M)	2.02	347	7.35	4.04	695	19.82	1.98	171	3.58	3.61	310	6.41	0.94	40	1.92	3.28	141	3.12
	8.0V (H)	2.33	400	8.81	4.65	800	24.94	2.28	196	4.02	4.15	357	7.61	1.08	46	1.98	3.78	162	3.45
	9.5V	2.56	440	10.00	5.11	879	29.19	2.51	216	4.38	4.56	392	8.59	1.19	51	2.02	4.15	179	3.71
FWF04DF	3.0V (L)	1.62	279	6.09	3.25	559	14.54	1.60	137	3.47	2.90	249	5.45	0.75	32	2.25	2.64	114	3.14
	5.5V (M)	2.10	361	8.10	4.20	722	21.47	2.06	177	4.09	3.75	322	7.10	0.97	42	2.34	3.41	147	3.60
	8.0V (H)	2.57	442	10.49	5.14	884	29.88	2.53	217	4.80	4.59	395	9.06	1.19	51	2.43	4.18	180	4.13
	9.5V	2.86	491	12.09	5.71	982	35.64	2.80	241	5.27	5.10	438	10.37	1.33	57	2.48	4.64	199	4.48
FWF05DF	3.0V (L)	1.68	288	6.79	3.35	576	15.71	1.65	141	4.03	2.99	257	6.11	0.78	33	2.76	2.72	117	3.68
	5.5V (M)	2.42	416	10.17	4.83	831	27.48	2.37	204	5.06	4.32	371	8.89	1.12	48	2.90	3.93	169	4.45
	8.0V (H)	3.16	543	14.46	6.32	1086	42.88	3.10	267	6.31	5.64	485	12.39	1.47	63	3.04	5.13	221	5.37
	9.5V	3.60	620	17.46	7.21	1239	53.86	3.54	304	7.17	6.44	553	14.84	1.67	72	3.14	5.86	252	5.99
Air Temperature		DB:18°C - WB:**°C																		
Water Temperature	Delta T °C	ΔT=5						ΔT=10						ΔT=20						
	Water In / Out	45 °C - 40 °C			65 °C - 60 °C			50 °C - 40°C			65 °C - 55 °C			50 °C - 30 °C			70 °C - 50 °C		
Model / Fan Speed		Tc	Wf	Wpd	Tc	Wf	Wpd	Tc	Wf	Wpd	Tc	Wf	Wpd	Tc	Wf	Wpd	Tc	Wf	Wpd
		kW	l/h	kPa	kW	l/h	kPa	kW	l/h	kPa	kW	l/h	kPa	kW	l/h	kPa	kW	l/h	kPa
FWF02DF	3.0V (L)	1.38	238	8.58	2.63	453	18.69	1.36	117	4.93	2.37	203	7.39	0.71	31	3.23	2.17	93	4.38
	5.5V (M)	1.72	296	10.84	3.27	563	25.64	1.69	145	5.66	2.94	253	9.13	0.89	38	3.34	2.69	116	4.90
	8.0V (H)	2.05	353	13.43	3.91	672	33.80	2.02	174	6.46	3.51	302	11.11	1.06	46	3.47	3.21	138	5.46
	9.5V	2.26	388	15.14	4.29	738	39.27	2.22	191	6.98	3.86	332	12.41	1.16	50	3.54	3.53	152	5.83
FWF03DF	3.0V (L)	1.73	297	6.10	3.29	565	14.38	1.70	146	3.20	2.95	254	5.14	0.89	38	1.90	2.70	116	2.77
	6.0V (M)	2.24	384	8.36	4.26	732	21.56	2.20	189	3.89	3.82	329	6.87	1.15	50	2.01	3.50	150	3.26
	8.0V (H)	2.58	443	10.11	4.90	843	27.20	2.53	218	4.42	4.40	379	8.19	1.33	57	2.08	4.03	173	3.62
	9.5V	2.83	487	11.54	5.39	926	31.88	2.78	239	4.84	4.84	416	9.28	1.46	63	2.14	4.43	190	3.92
FWF04DF	3.0V (L)	1.80	309	6.79	3.42	589	15.71	1.77	152	3.69	3.08	264	5.76	0.93	40	2.32	2.81	121	3.24
	5.5V (M)	2.32	399	9.19	4.42	760	23.34	2.29	196	4.42	3.97	341	7.59	1.20	52	2.43	3.63	156	3.75
	8.0V (H)	2.85	490	12.04	5.42	932	32.61	2.80	241	5.27	4.87	418	9.75	1.47	63	2.54	4.45	191	4.34
	9.5V	3.16	544	13.97	6.02	1035	38.96	3.11	267	5.83	5.40	465	11.21	1.63	70	2.62	4.95	213	4.72
FWF05DF	3.0V (L)	1.85	319	7.52	3.53	607	16.94	1.82	157	4.26	3.17	273	6.44	0.96	41	2.83	2.90	125	3.79
	5.5V (M)	2.68	460	11.56	5.09	876	29.90	2.63	226	5.48	4.57	393	9.51	1.38	59	3.01	4.19	180	4.64
	8.0V (H)	3.50	601	16.71	6.66	1145	46.90	3.44	296	6.97	5.98	514	13.40	1.80	78	3.20	5.47	235	5.66
	9.5V	3.99	686	20.34	7.59	1306	59.03	3.93	338	7.99	6.82	587	16.12	2.06	89	3.33	6.24	268	6.35

SYMBOLS

Tc = Total Cooling Capacity

Sc = Sensible Cooling Capacity

Wf = Water Flow Rate

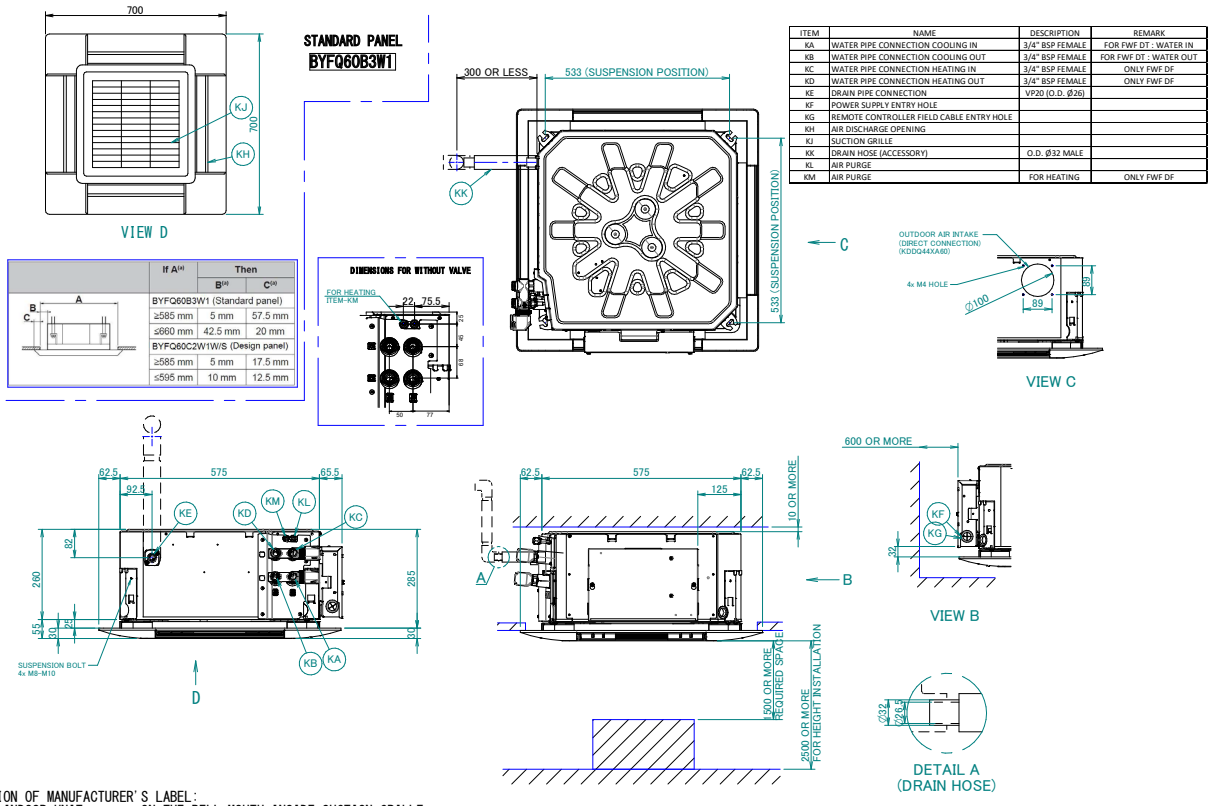
Wpd = Water Pressure Drop

3D144227

8 Dimensional drawings

8 - 1 Dimensional Drawings

FWF-D



ITEM	NAME	DESCRIPTION	REMARK
KA	WATER PIPE CONNECTION COOLING IN	3/4" BSP FEMALE	FOR FWF DT : WATER IN
KB	WATER PIPE CONNECTION COOLING OUT	3/4" BSP FEMALE	FOR FWF DT : WATER OUT
KC	WATER PIPE CONNECTION HEATING IN	3/4" BSP FEMALE	ONLY FWF DF
KD	WATER PIPE CONNECTION HEATING OUT	3/4" BSP FEMALE	ONLY FWF DF
KE	DRAIN PIPE CONNECTION	VP20 (O.D. Ø26)	
KF	POWER SUPPLY ENTRY HOLE		
KG	REMOTE CONTROLLER FIELD CABLE ENTRY HOLE		
KH	AIR DISCHARGE OPENING		
KJ	SUCTION GRILLE		
KK	DRAIN HOSE (ACCESSORY)	O.D. Ø32 MALE	
KL	AIR PURGE		
KM	AIR PURGE	FOR HEATING	ONLY FWF DF

NOTES :

1) LOCATION OF MANUFACTURER'S LABEL:
   - FOR INDOOR UNIT : ON THE BELL MOUTH INSIDE SUCTION GRILLE.
   - FOR DECORATION PANEL : ON THE INNER FRAME INSIDE SUCTION GRILLE.

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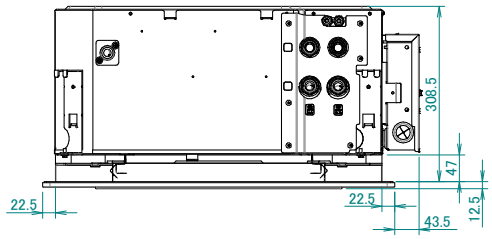
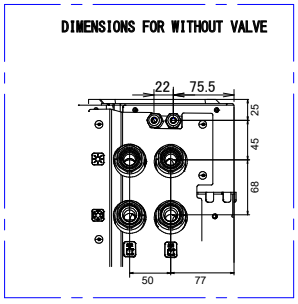
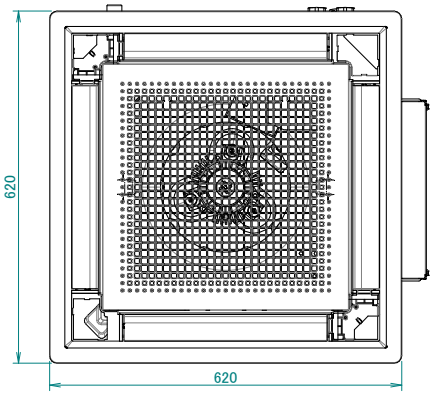
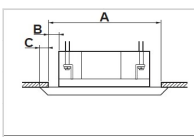
FWF-D

DESIGN PANEL
BYFQ60C2W1W/S









BYFQ60C2W1W/S (Design Panel)		
A	B	C
585 (MIN)	5	17.5
595 (MAX)	10	12.5

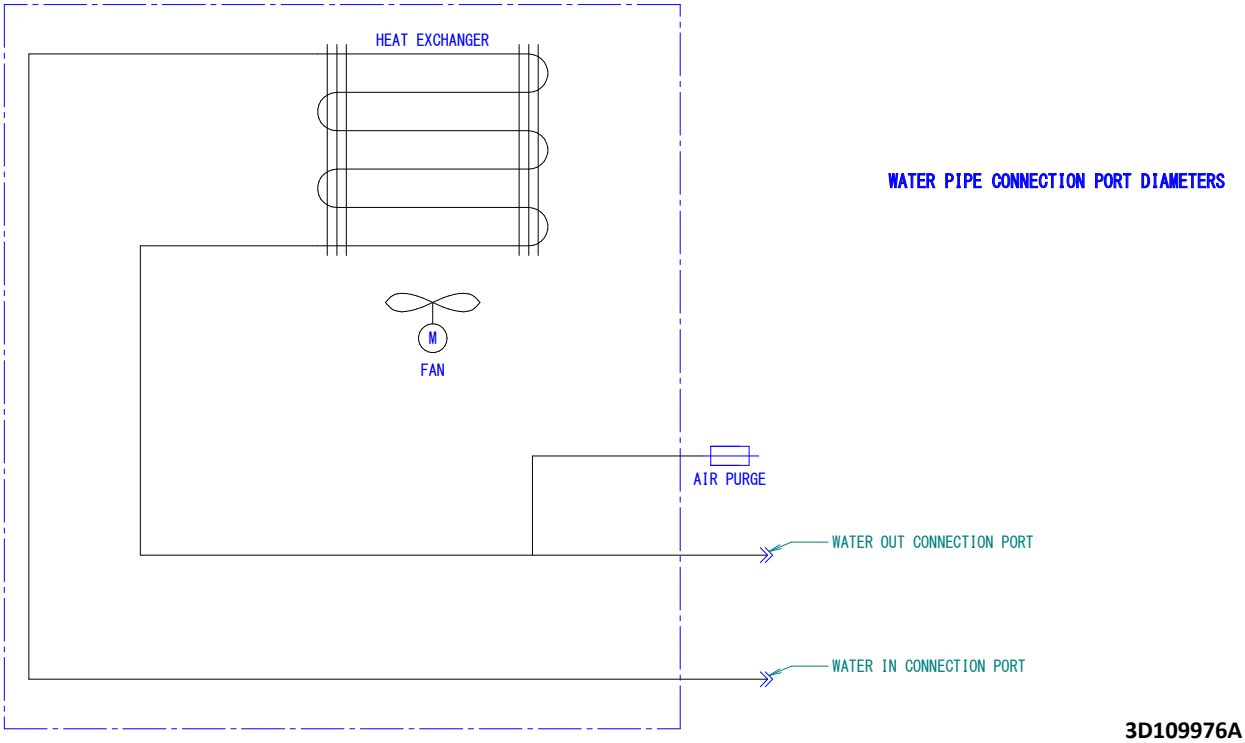
A: Ceiling opening
B: Distance between the unit and the ceiling opening
C: Overlap between the decoration panel and the suspended ceiling

3D144229B

9 Piping diagrams

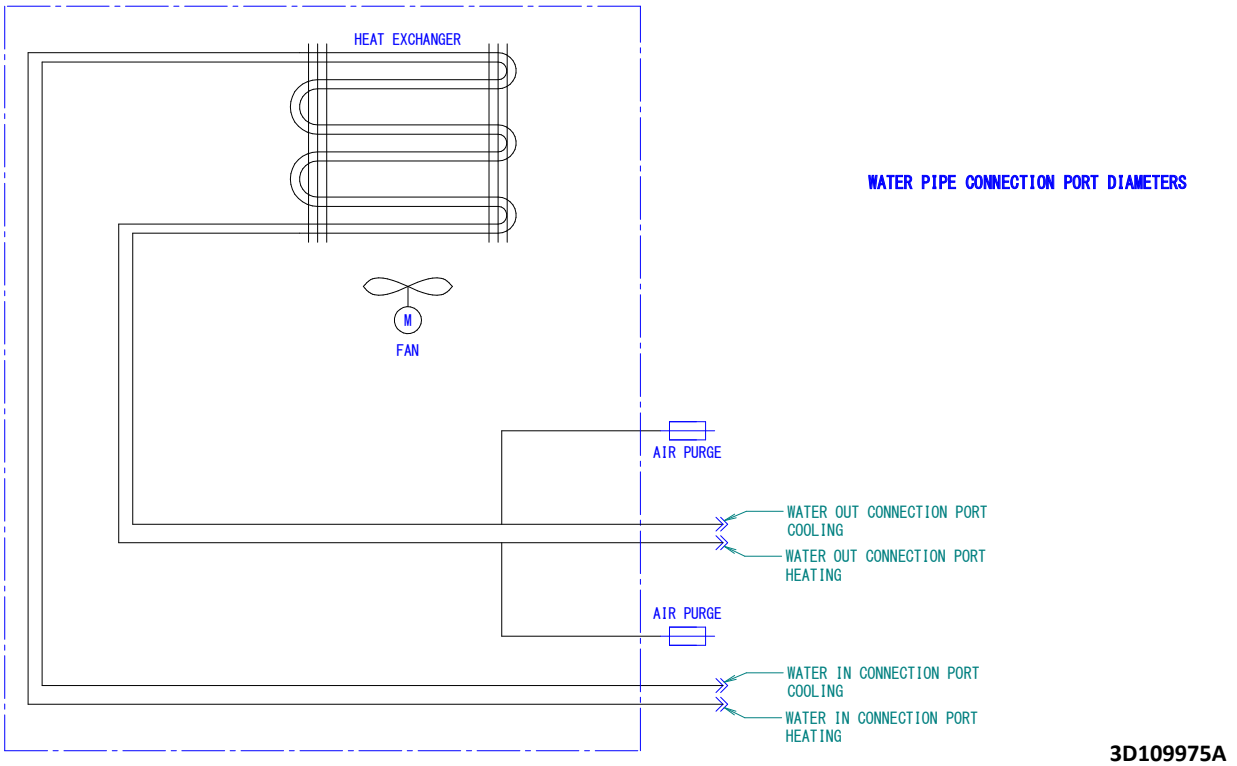
9 - 1 Piping Diagrams

FWF02DATN5V3--
FWF03DATN5V3--
FWF04DATN5V3--
FWF05DATN5V3--



3D109976A

FWF02DAFN5V3--
FWF03DAFN5V3--
FWF04DAFN5V3--
FWF05DAFN5V3--



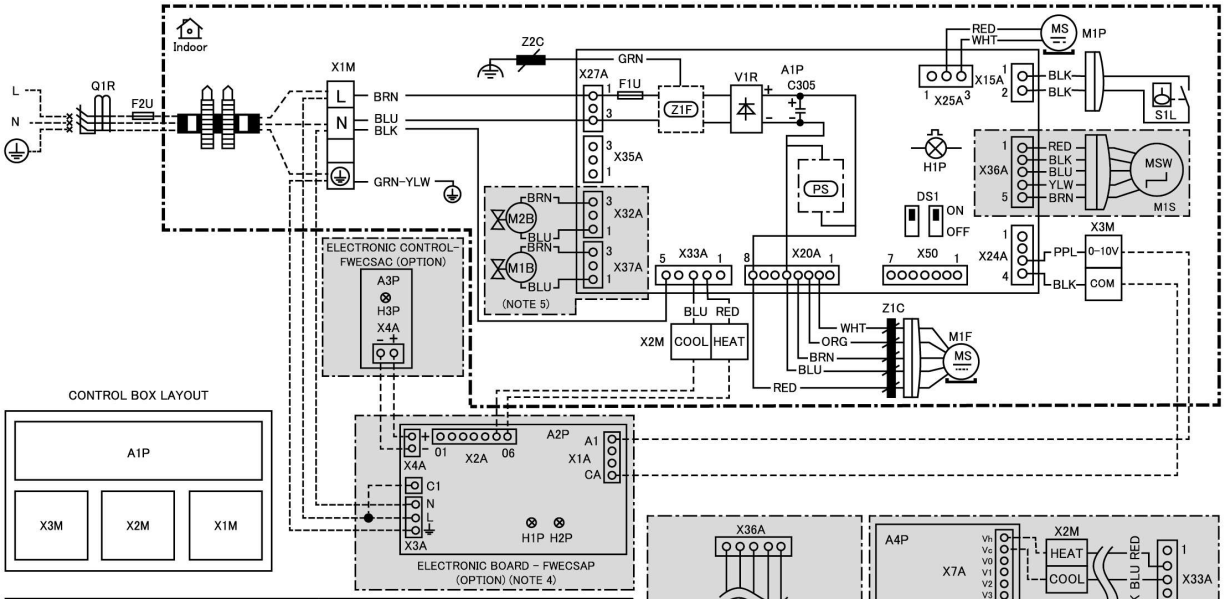
3D109975A

10 Wiring diagrams

10 - 1 Wiring Diagrams - Single Phase

FWF-D

WIRING DIAGRAM



INDOOR UNIT			
A1P	MAIN PCB	Z1F	NOISE FILTER
A2P	ELECTRONIC BOARD (FWECSAP)	Z2C	FERRITE CORE
A3P	ELECTRONIC CONTROL (FWECSAC)	PS	SWITCHING POWER SUPPLY
A4P	ADVANCED PLUS REMOTE CONTROLLER (FWEC3A)	M1B	HEATING ACTUATOR
A5P	ADAPTOR PCB	M2B	COOLING ACTUATOR
C305	CAPACITOR	PCB CONNECTIONS	
F1U	FUSE(6.3A, 250V)	X15A	FLOAT SWITCH
F2U	FIELD FUSE	X20A	BLDC MOTOR
DS1	DIP SWITCH ON PCB	X24A	FAN MODULATING
H1P	FLASHING LAMP	X25A	DRAIN PUMP
M1P	MOTOR (DRAIN PUMP)	X27A	POWER SUPPLY
M1S	SWING MOTOR	X32A	COOLING VALVE
M2S		X33A	R/C SIGNAL AND VALVE
M3S		X35A	ELECTRICAL HEATER
M4S		X36A	STEPPING MOTOR (DEC.PANEL)
M5S		X37A	HEATING VALVE
M1F	MOTOR (DC FAN)	X50A	SERIAL COMMUNICATION
S1L	FLOAT SWITCH	TERMINAL CONNECTIONS	
V1R	DIODE BRIDGE	0-10V	0-10V DC FAN MODULATING
Q1R	EARTH LEAKAGE BREAKER	COM	COMMON
X1M	TERMINAL STRIP (POWER SUPPLY)	HEAT	HEATING SIGNAL
X2M	TERMINAL STRIP (R/C SIGNAL AND VALVE TERMINAL)	COOL	COOLING SIGNAL
X3M	TERMINAL STRIP (FAN MODULATING)		

NOTES :
1. : TERMINAL BLOCK : CONNECTOR : FIELD WIRING
2. REFER TO INSTALLATION MANUAL FOR POWER REQUIREMENT.
3. X36A IS CONNECTED WHEN THE DECORATIVE PANEL KIT IS BEING USED.
4. PLEASE FOLLOW THE MANUAL OF THE EXTERNAL REMOTE CONTROLLER FOR THE WIRING OF THE REMOTE CONTROLLER.
5. X32A AND X37A CAN ONLY BE CONNECTED TO THE SPECIFIED DAIKIN VALVE OPTIONS.

EXTERNAL REMOTE CONTROLLER (FWECSA-FWEC3)		WIRE COLOURS		CONNECTOR FOR OPTIONAL PARTS	
H1P	STATUS LAMP	BLK	BLACK	X1A	CONNECTOR (FAN MODULATING WIRES)
H2P	NETWORK LAMP	RED	RED	X2A	CONNECTOR (WIRING VALVE WIRES)
A1/102	0-10V DC FAN MODULATING	WHT	WHITE	X3A	CONNECTOR (POWER SUPPLY FOR MODBUS)
CA/COM	COMMON	YLW	YELLOW	X4A	CONNECTOR (POWER SUPPLY FOR DISPLAY)
06/VH	HEATING SIGNAL	GRN	GREEN	X5A	CONNECTOR (FAN MODULATING WIRES)
05/VC	COOLING SIGNAL	ORG	ORANGE	X6A	CONNECTOR (POWER SUPPLY FOR DISPLAY)
L	PHASE	BRN	BROWN	X7A	CONNECTOR (WIRING VALVE WIRES)
N	NEUTRAL	BLUE	BLUE	X8A	CONNECTOR (NAKED PCB X36A)
PE /⏚	PROTECTIVE EARTH	PPL	PURPLE	X9A	CONNECTOR (BYCQ140E. PANEL WIRE)
R1T	THERMISTOR (AIR)			X10A	CONNECTOR (BYFQ60C. PANEL WIRE)

3D147551-1

3D147551

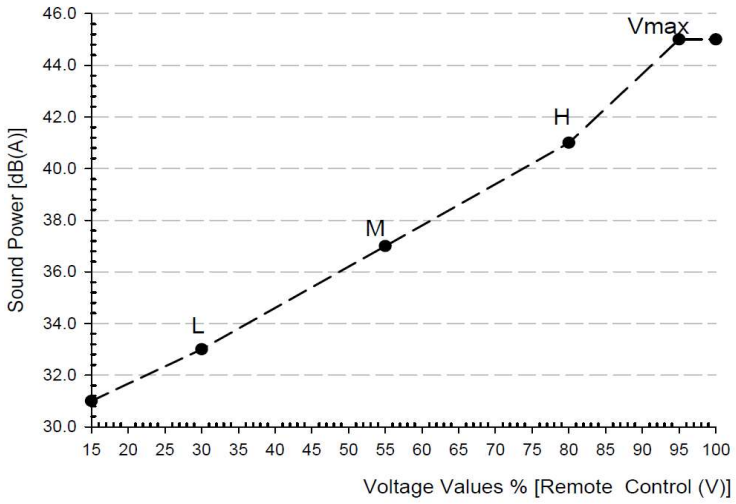
11 Sound data

11 - 1 Sound Power Spectrum

FWF02DATN5V3--

Sound Power overall (dBA): FWF02DAT(N/T/V)5V3-

Whole casing



Fan speed (0V-10V)						
Fan speed (V)	1.5V	3.0V	5.5V	8.0V	9.5V	10.0V
	min	L	M	H	max	
Sound Power dB(A)	31,0	33,0	37,0	41,0	45,0	45,0

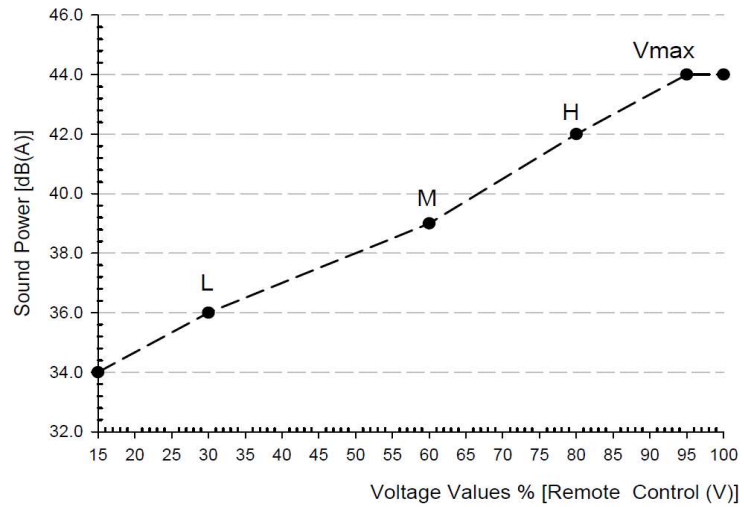
NOTE:
-Test Condition : 20.0°C Dry Bulb / 15.0°C Wet Bulb
-Test Condition : ESP =0 (Zero) Pa
-Voltage Values 100% = 10.0V
-Sound Power measurement standard is EN ISO 3741 (1999)

4D144771

FWF03DATN5V3--

Sound Power overall (dBA): FWF03DAT(N/T/V)5V3-

Whole casing



Fan speed (0V-10V)						
Fan speed (V)	1.5V	3.0V	6.0V	8.0V	9.5V	10.0V
	min	L	M	H	max	
Sound Power dB(A)	34,0	36,0	39,0	42,0	44,0	44,0

NOTE:
-Test Condition : 20.0°C Dry Bulb / 15.0°C Wet Bulb
-Test Condition : ESP =0 (Zero) Pa
-Voltage Values 100% = 10.0V
-Sound Power measurement standard is EN ISO 3741 (1999)

4D144776

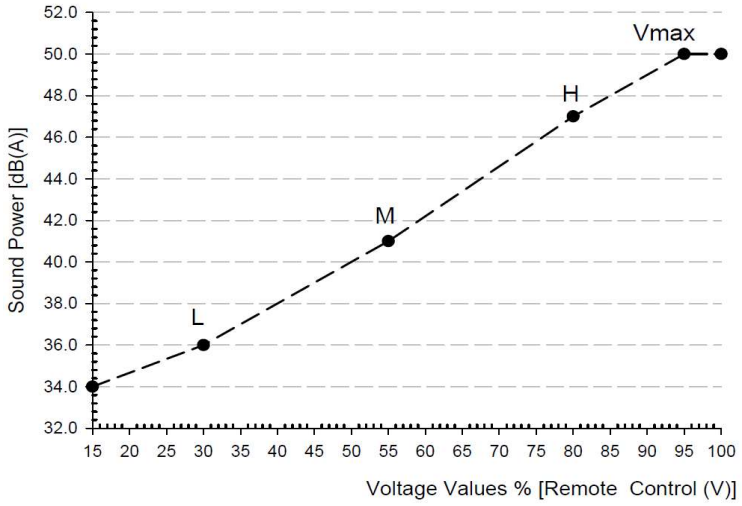
11 Sound data

11 - 1 Sound Power Spectrum

FWF04DATN5V3--

Sound Power overall (dBA): FWF04DAT(N/T/V)5V3-

Whole casing



Fan speed (0V-10V)						
Fan speed (V)	1.5V	3.0V	5.5V	8.0V	9.5V	10.0V
	min	L	M	H	max	
Sound Power dB(A)	34,0	36,0	41,0	47,0	50,0	50,0

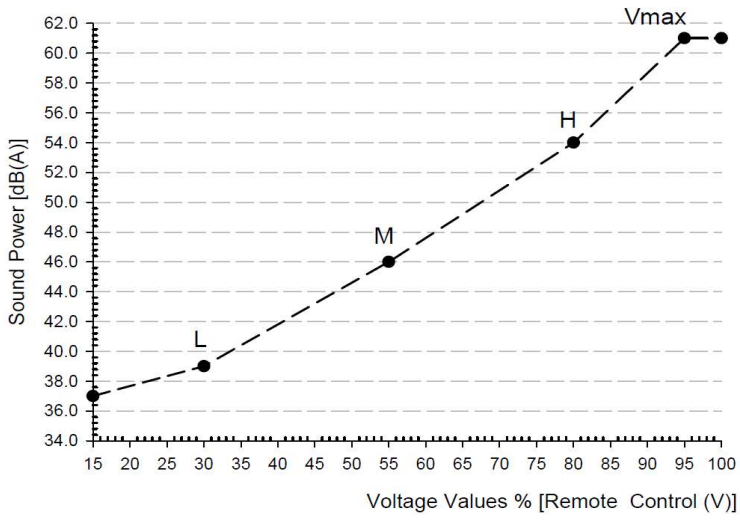
NOTE:
-Test Condition : 20.0°C Dry Bulb / 15.0°C Wet Bulb
-Test Condition : ESP =0 (Zero) Pa
-Voltage Values 100% = 10.0V
-Sound Power measurement standard is EN ISO 3741 (1999)

4D144779

FWF05DATN5V3--

Sound Power overall (dBA): FWF05DAT(N/T/V)5V3-

Whole casing



Fan speed (0V-10V)						
Fan speed (V)	1.5V	3.0V	5.5V	8.0V	9.5V	10.0V
	min	L	M	H	max	
Sound power dB(A)	37,0	39,0	46,0	54,0	61,0	61,0

NOTE:
-Test Condition : 20.0°C Dry Bulb / 15.0°C Wet Bulb
-Test Condition : ESP =0 (Zero) Pa
-Voltage Values 100% = 10.0V
-Sound Power measurement standard is EN ISO 3741 (1999)

4D144781

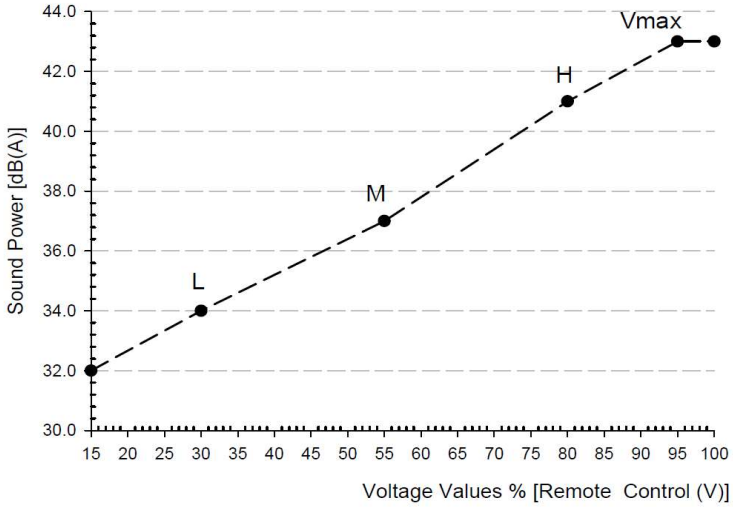
11 Sound data

11 - 1 Sound Power Spectrum

FWF02DAFN5V3--

Sound Power overall (dBA): FWF02DAF(N/T/V)5V3-

Whole casing



Fan speed (0V-10V)						
Fan speed (V)	1.5V	3.0V	5.5V	8.0V	9.5V	10.0V
	min	L	M	H	max	
Sound Power dB(A)	32,0	34,0	37,0	41,0	43,0	43,0

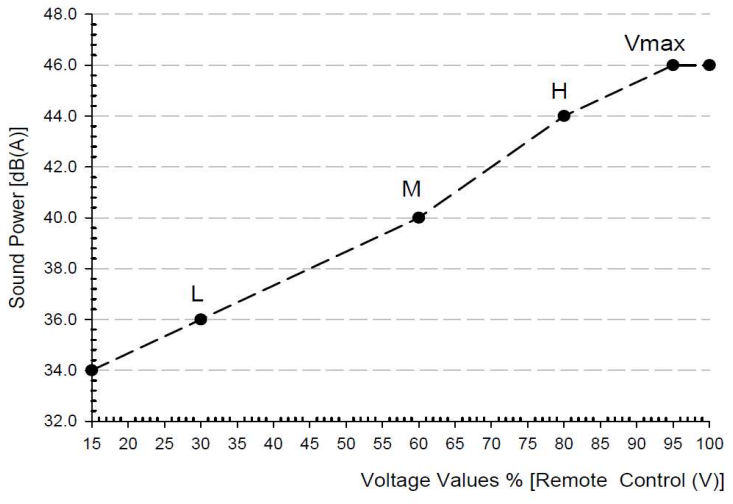
NOTE:
-Test Condition : 20.0°C Dry Bulb / 15.0°C Wet Bulb
-Test Condition : ESP =0 (Zero) Pa
-Voltage Values 100% = 10.0V
-Sound Power measurement standard is EN ISO 3741 (1999)

4D144782

FWF03DAFN5V3--

Sound Power overall (dBA): FWF03DAF(N/T/V)5V3-

Whole casing



Fan speed (0V-10V)						
Fan speed (V)	1.5V	3.0V	6.0V	8.0V	9.5V	10.0V
	min	L	M	H	max	
Sound Power dB(A)	34,0	36,0	40,0	44,0	46,0	46,0

NOTE:
-Test Condition : 20.0°C Dry Bulb / 15.0°C Wet Bulb
-Test Condition : ESP =0 (Zero) Pa
-Voltage Values 100% = 10.0V
-Sound Power measurement standard is EN ISO 3741 (1999)

4D144774

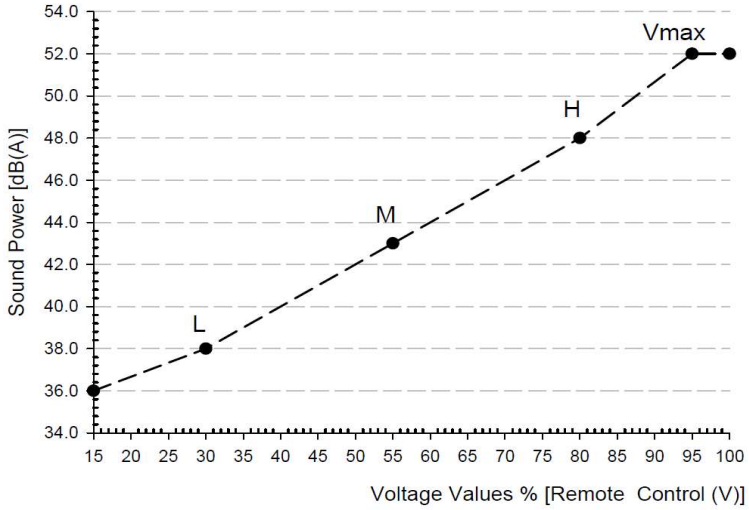
11 Sound data

11 - 1 Sound Power Spectrum

FWF04DAFN5V3--

Sound Power overall (dBA): FWF04DAF(N/T/V)5V3-

Whole casing



Fan speed (0V-10V)						
Fan speed (V)	1.5V	3.0V	5.5V	8.0V	9.5V	10.0V
	min	L	M	H	max	
Sound Power dB(A)	36,0	38,0	43,0	48,0	52,0	52,0

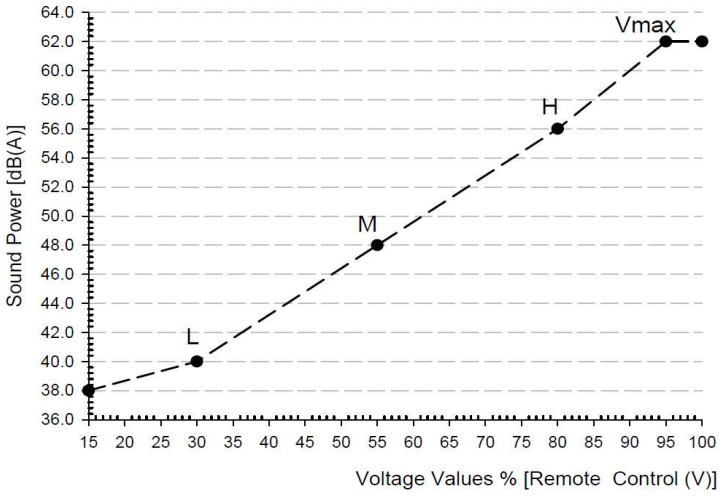
NOTE:
-Test Condition : 20.0°C Dry Bulb / 15.0°C Wet Bulb
-Test Condition : ESP =0 (Zero) Pa
-Voltage Values 100% = 10.0V
-Sound Power measurement standard is EN ISO 3741 (1999)

4D144777

FWF05DAFN5V3--

Sound Power overall (dBA): FWF05DAF(N/T/V)5V3-

Whole casing



Fan speed (0V-10V)						
Fan speed (V)	1.5V	3.0V	5.5V	8.0V	9.5V	10.0V
	min	L	M	H	max	
Sound Power dB(A)	38,0	40,0	48,0	56,0	62,0	62,0

NOTE:
-Test Condition : 20.0°C Dry Bulb / 15.0°C Wet Bulb
-Test Condition : ESP =0 (Zero) Pa
-Voltage Values 100% = 10.0V
-Sound Power measurement standard is EN ISO 3741 (1999)

4D144780

Daikin Europe N.V. Naamloze Vennootschap · Zandvoordestraat 300 · 8400 Oostende · Belgium · www.daikin.eu · BE 0412 120 336 · RPR Oostende (Responsible Editor)

EEDEN23 06/2023

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