

Floor / Ceiling Suspended Type



FWH

Other optional accessories available :

- Male Adapter
- Galvanized Blower

Standard Specification

- **Frame and Casing** shall be constructed of galvanized angle steel and panel is galvanized steel sheet 0.8 mm. thickness. Inter surface shall be insulated by closed cell foam 2 mm. thickness.
- **Drain pan** fully protect under entire cooling coil and shall be fabricated from 1.2 mm. thickness enamel coated galvanized steel sheet. The under side shall be insulated with closed cell foam insulation 4 mm. thickness.
- **Cooling Coil** shall be constructed of seamless hard copper tube with mechanically bonded aluminium fins. The fin density is 10-14 FPI. The maximum water pressure drop at 15 FT.H₂O and the coil test pressure at 350 psig.
- **Motors** shall be 3-speed tap. The motor bearing shall be of the sleeve type.
- **Fans** shall be the centrifugal forward curve type. Fan wheels shall be statically and dynamically balanced from factory. Fan wheels and housing shall be constructed from plastic.
- **Filter** shall be net type.

Features

- Availability of auto and manual swing
- Availability of room thermostat, wire and wireless controller option
- Simple design with easy serviceability feature
- Easy maintenance.
- Wide capacity range

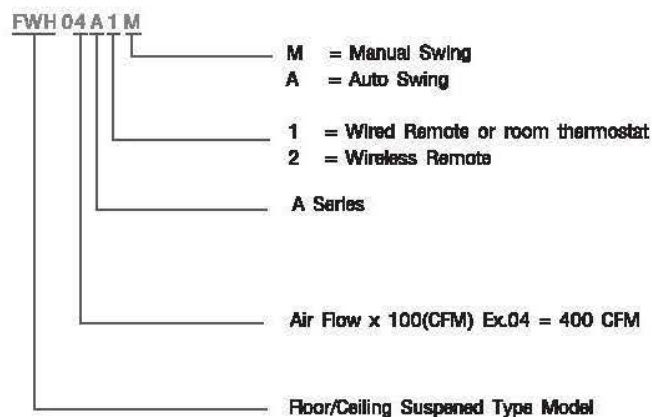
Floor/Ceiling Suspended Type

Model			FWH04A1M FWH04A2M FWH04A1A FWH04A2A	FWH06A1M FWH06A2M FWH06A1A FWH06A2A	FWH08A1M FWH08A2M FWH08A1A FWH08A2A	FWH10A1M FWH10A2M FWH10A1A FWH10A2A	FWH12A1M FWH12A2M FWH12A1A FWH12A2A	FWH14A1M FWH14A2M FWH14A1A FWH14A2A	FWH16A1M FWH16A2M FWH16A1A FWH16A2A	FWH20A1M FWH20A2M FWH20A1A FWH20A2A
Power supply		V/Ph/Hz	220 / 1 / 50							
Total Cooling Capacity		Btu/hr	12,000	18,000	24,000	30,000	36,000	42,000	48,000	60,000
		kw	3.6	5.3	7.1	8.8	10.8	12.4	14.1	17.6
Sensible Cooling Capacity		Btu	9,150	13,340	16,950	21,630	25,020	29,190	33,990	42,120
		kw	2.68	3.91	4.97	6.34	7.34	8.56	9.97	12.35
Air flow	Height	cfm	400	600	800	1,000	1,200	1,400	1,600	1,650
	Medium	cfm	350	520	750	920	1,140	1,330	1,540	1,600
	Low	cfm	300	460	700	790	1,050	1,230	1,470	1,500
Coil		Row	3							
		FPI	10	13	10	13	10	10	13	
Water Flow Rate		m³ /h	0.5	0.8	1.1	1.4	1.6	1.9	2.2	2.7
		Usgpm	2.4	3.6	4.8	6.0	7.2	8.4	9.6	12.0
Head Loss (Cooling)		kPa	8.4	12.4	15.7	22.6	25.7	33.1	27.6	40.1
		ft.wg	2.8	4.2	5.3	7.6	8.6	11.1	9.2	13.4
Sound pressure Level (H/M/L)		dBA	42/40/37	42/41/40	44/42/41	47/45/43	46/45/43	45/43/42	46/45/44	49/45/39
Connection Pipe Diameter	Type	Flare								
	Inlet	in	3/4					1		
	Outlet	in	3/4					1		
Condensate Drain Size		In	3/4							
Unit Dimension	Height	mm	620							
	Width	mm	1,005		1,300		1,805			
	Depth	mm	260							
Packing Dimension	Height	mm	670							
	Width	mm	1,035		1,330		1,835			
	Depth	mm	300							
Unit Weight		kg	32		39		54			

Notes :

- 1) All specifications are subjected to change by the manufacture without prior notice.
- 2) All unit are being tested under following condition
cooling : 80 TDB / 67° FWB Indoor
water : Inlet 45°F , outlet 55°F

Nomenclature



Remote Control

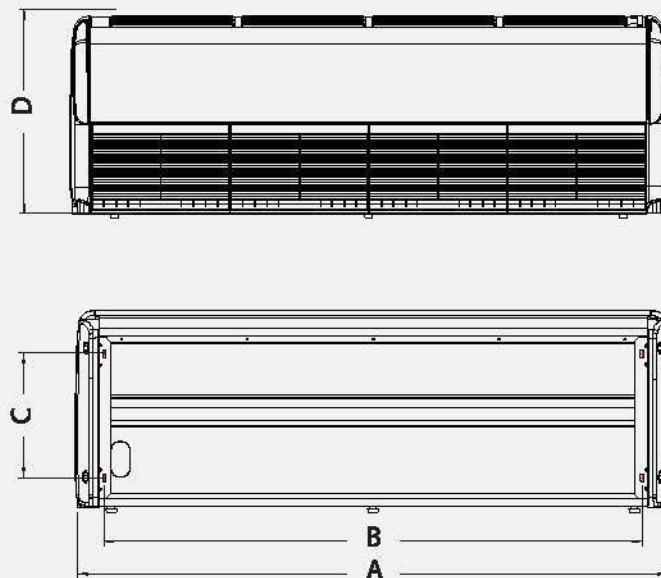




Dimensions

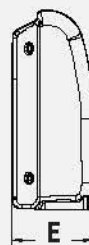
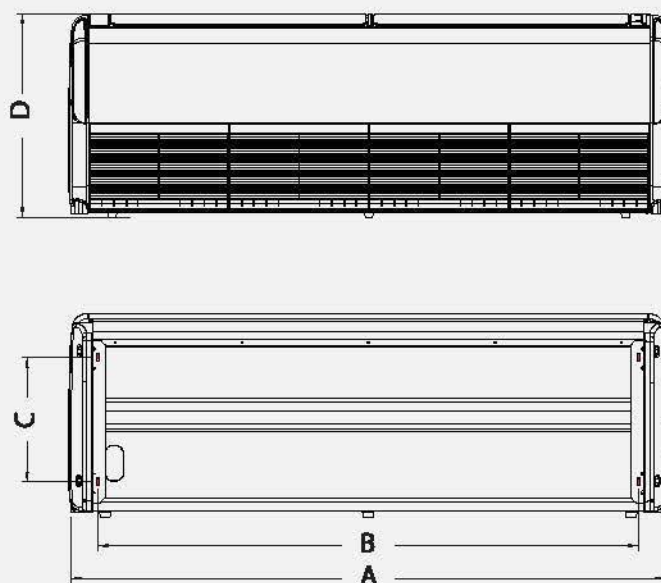
FLOOR / Ceiling Suspended type

■ MODEL FWH04-20A1M (manual swing)



MODEL	DIMENSIONS (MM.)				
	A	B	C	D	E
FWH04-06A1M	1005	850	380	620	260
FWH08-10A1M	1300	1150	380	620	260
FWH12-20A1M	1805	1645	380	620	260

■ MODEL FWH04-20A1A (Auto swing)



MODEL	DIMENSIONS (MM.)				
	A	B	C	D	E
FWH04-06A1A	1005	850	380	620	260
FWH08-10A1A	1300	1150	380	620	260
FWH12-20A1A	1805	1645	380	620	260



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10. Capacity Table**10.2 Capacity Table Ceiling Suspended Type****FWH04A - series**

ENT °F	WTR °F	Entering Air Temp(°Fdb/°Fwb)															
		72/61				74/63				80/67				84/71			
		TC	SC	GPM	PD	TC	SC	GPM	PD	TC	SC	GPM	PD	TC	SC	GPM	PD
43	8	9.03	7.82	2.25	1.36	10.95	8.05	2.72	1.82	15.21	10.05	3.79	3.07	19.82	11.40	4.94	4.69
	10	7.69	7.55	1.53	0.77	9.43	7.82	1.88	1.04	13.64	9.41	2.72	1.82	18.27	10.76	3.65	2.88
	12	6.67	6.67	1.11	0.49	8.42	7.67	1.40	0.67	12.05	9.10	2.00	1.14	16.64	10.12	2.76	1.86
	15	5.71	5.71	0.76	0.29	6.44	6.44	0.86	0.34	10.84	9.05	1.44	0.70	14.15	9.28	1.88	1.04
45	8	7.78	7.57	1.93	1.08	9.46	7.76	2.35	1.45	13.71	9.43	3.41	2.58	18.32	10.79	4.54	4.08
	10	6.57	6.57	1.30	0.61	8.65	7.73	1.72	0.91	12.11	9.02	2.40	1.50	16.73	10.16	3.33	2.48
	12	5.96	5.96	0.99	0.41	6.68	6.68	1.11	0.48	10.42	8.74	1.73	0.92	15.07	9.52	2.50	1.59
	15	4.94	4.94	0.66	0.24	5.71	5.71	0.76	0.29	6.54	6.54	1.05	0.45	12.35	8.92	1.64	0.84
50	8	5.42	5.42	1.36	0.64	6.13	6.13	1.53	0.76	9.54	8.45	2.38	1.46	14.26	9.23	3.56	2.74
	10	4.77	4.77	0.95	0.39	5.50	5.50	1.10	0.47	7.67	7.67	1.53	0.76	12.51	8.76	2.50	1.57
	12	4.12	4.12	0.69	0.25	4.85	4.85	0.81	0.31	7.05	7.05	1.18	0.52	10.48	8.46	1.74	0.92
	15	3.04	3.04	0.40	0.13	3.83	3.83	0.51	0.17	6.07	6.07	0.81	0.31	6.23	6.23	1.00	0.42

FWH06A - series

ENT °F	WTR °F	Entering Air Temp(°Fdb/°Fwb)															
		72/61				74/63				80/67				84/71			
		TC	SC	GPM	PD	TC	SC	GPM	PD	TC	SC	GPM	PD	TC	SC	GPM	PD
43	8	14.19	12.00	3.54	4.06	17.12	12.36	4.25	5.47	23.67	15.53	5.92	9.43	30.71	17.57	7.66	14.49
	10	12.51	11.72	2.50	2.33	14.85	12.03	2.96	3.04	21.33	14.55	4.25	5.47	28.44	16.64	5.68	8.81
	12	10.40	10.40	1.73	1.31	13.71	11.94	2.27	2.00	18.96	13.99	3.14	3.36	26.06	15.69	4.33	5.64
	15	8.97	8.97	1.19	0.75	10.11	10.11	1.35	0.90	16.42	13.71	2.12	1.80	22.32	14.33	2.97	3.07
45	8	11.55	11.32	2.87	2.88	14.86	11.92	3.70	4.34	21.32	14.56	5.28	7.78	28.43	16.63	7.08	12.64
	10	10.24	10.24	2.03	1.68	12.13	11.32	2.40	2.18	18.94	13.85	3.75	4.44	26.02	15.69	5.15	7.46
	12	9.32	9.32	1.55	1.11	10.42	10.42	1.73	1.31	16.48	13.45	2.73	2.67	23.63	14.77	3.92	4.78
	15	7.82	7.82	1.04	0.61	8.96	8.96	1.19	0.75	12.34	12.34	1.64	1.20	19.61	13.77	2.60	2.47
50	8	8.43	8.43	2.11	1.76	9.52	9.52	2.38	2.12	15.01	12.94	3.75	4.39	22.21	14.24	5.55	8.33
	10	7.48	7.48	1.49	1.04	8.59	8.59	1.72	1.28	11.90	11.90	2.38	2.12	19.61	13.45	3.91	4.69
	12	6.50	6.50	1.08	0.65	7.62	7.62	1.27	0.81	10.98	10.98	1.83	1.41	16.65	13.02	2.77	2.70
	15	4.88	4.88	0.65	0.31	6.07	6.07	0.81	0.43	9.54	9.54	1.27	0.82	11.78	11.78	1.57	1.12

FWH08A - series

ENT °F	WTR °F	Entering Air Temp(°Fdb/°Fwb)															
		72/61				74/63				80/67				84/71			
		TC	SC	GPM	PD	TC	SC	GPM	PD	TC	SC	GPM	PD	TC	SC	GPM	PD
43	8	18.42	15.21	4.60	4.93	22.17	15.72	5.55	6.71	30.20	19.63	7.53	11.13	38.92	22.18	9.70	16.98
	10	14.24	14.24	2.72	2.12	19.48	15.29	3.88	3.75	27.61	18.55	5.52	6.66	36.33	21.07	7.24	10.43
	12	13.38	13.38	2.22	1.54	15.92	14.85	2.64	2.03	24.77	17.39	4.11	4.11	33.61	20.00	5.57	6.76
	15	11.72	11.72	1.56	0.90	13.13	13.13	1.75	1.07	20.02	17.16	2.67	2.06	29.37	18.36	3.91	3.79
45	8	14.05	14.05	3.41	3.02	19.32	14.95	4.81	5.28	27.34	18.43	6.79	9.33	36.11	21.02	8.98	14.86
	10	13.11	13.11	2.60	1.97	15.73	14.71	3.12	2.62	24.58	17.33	4.87	5.40	33.40	19.91	6.63	8.96
	12	12.03	12.03	1.99	1.31	13.41	13.41	2.22	1.54	21.74	17.20	3.61	3.31	30.64	18.84	5.09	5.79
	15	10.33	10.33	1.37	0.74	11.74	11.74	1.56	0.90	15.92	15.92	2.11	1.43	26.14	17.38	3.47	3.11
50	8	10.77	10.77	2.69	2.06	12.13	12.13	3.04	2.49	19.51	16.47	4.87	5.33	28.42	17.99	7.11	9.93
	10	9.67	9.67	1.93	1.23	11.06	11.06	2.21	1.51	14.99	14.99	2.91	2.32	25.49	16.90	5.10	5.74
	12	8.53	8.53	1.42	0.77	9.94	9.94	1.65	0.97	14.11	14.11	2.35	2.01	22.14	16.65	3.69	3.38
	15	6.65	6.65	0.88	0.39	8.14	8.14	1.08	0.52	12.45	12.45	1.66	0.97	15.22	15.22	2.03	1.32

TC = Total Capacity, MBH

SC = Sensible Capacity, MBH

GPM = Water Flow Rate, gpm

PD = Water Pressure Drop, ft.wg

EWT = Entering Water Temperature

WTR = Water Temperature Rise

10. Capacity Table**10.2 Capacity Table Ceiling Suspended Type****FWH10A - series**

ENT °F	WTR °F	Entering Air Temp(°Fdb/°Fwb)															
		72/61				74/63				80/67				84/71			
		TC	SC	GPM	PD	TC	SC	GPM	PD	TC	SC	GPM	PD	TC	SC	GPM	PD
43	8	24.11	19.87	6.02	7.69	28.96	20.56	7.21	10.36	39.61	25.75	9.88	17.53	51.07	29.06	12.71	26.72
	10	18.69	18.69	3.59	3.31	25.49	19.98	5.10	5.84	36.10	24.26	7.20	10.34	47.66	27.64	9.51	16.45
	12	17.52	17.52	2.91	2.36	21.01	19.10	3.49	3.15	32.45	23.07	5.39	6.40	43.99	26.17	7.29	10.56
	15	15.34	15.34	2.05	1.36	17.17	17.17	2.28	1.62	26.19	22.13	3.49	3.15	38.31	23.98	5.10	5.84
45	8	20.02	18.98	5.23	5.81	25.26	19.65	6.29	8.21	35.88	24.18	8.93	14.72	47.34	27.50	11.73	23.24
	10	17.16	17.16	3.40	3.01	20.74	18.94	4.11	4.08	32.13	22.65	6.37	8.38	43.75	26.08	8.66	14.00
	12	15.75	15.75	2.62	1.99	17.57	17.57	2.92	2.36	28.36	22.40	4.70	5.09	40.10	24.66	6.66	9.03
	15	13.44	13.44	1.78	1.10	15.32	6.28	2.03	1.34	20.78	20.78	2.75	2.15	34.09	22.91	4.53	4.79
50	8	14.12	14.12	3.54	3.18	15.88	15.88	3.96	3.80	25.55	21.44	6.39	8.33	37.25	23.58	9.30	15.54
	10	12.65	12.65	2.52	1.85	14.46	14.46	2.88	2.28	19.86	19.86	3.96	3.80	33.37	22.16	6.67	8.94
	12	11.13	11.13	1.85	1.15	13.00	13.00	2.17	1.47	18.45	18.45	3.06	2.52	28.86	21.67	4.81	5.21
	15	8.63	8.63	1.15	0.57	10.58	10.58	1.41	0.76	16.26	16.26	2.17	1.47	19.88	19.88	2.64	1.99

FWH12A - series

ENT °F	WTR °F	Entering Air Temp(°Fdb/°Fwb)															
		72/61				74/63				80/67				84/71			
		TC	SC	GPM	PD	TC	SC	GPM	PD	TC	SC	GPM	PD	TC	SC	GPM	PD
43	8	29.21	22.96	7.26	8.73	34.93	24.31	8.72	11.84	47.05	30.21	11.70	19.40	60.25	34.04	15.06	29.62
	10	24.20	22.77	4.83	4.46	31.32	23.18	6.26	6.83	43.52	28.68	8.69	11.78	56.78	32.59	11.36	18.45
	12	21.02	21.02	3.49	2.63	26.06	22.88	4.32	3.72	39.64	27.07	6.58	7.41	52.99	31.00	8.78	11.99
	15	18.73	18.73	2.50	1.55	20.83	20.83	2.77	1.83	33.07	26.49	4.40	3.83	49.21	29.53	7.03	8.27
45	8	23.64	22.43	5.86	6.10	30.55	22.45	7.58	9.33	42.78	28.36	10.62	16.39	55.96	32.23	13.90	25.73
	10	20.46	20.46	4.07	3.36	25.61	22.59	5.07	4.80	38.97	26.81	7.71	9.60	52.27	30.73	10.36	15.71
	12	18.99	18.99	3.16	2.24	21.07	21.07	3.50	2.64	35.19	26.15	5.84	6.05	48.54	29.22	8.06	10.32
	15	16.60	16.60	2.21	1.28	18.72	18.72	2.48	1.54	26.07	25.21	3.46	2.59	42.27	26.84	5.62	5.68
50	8	16.78	16.78	4.20	3.49	18.82	18.82	4.70	4.19	31.10	24.82	7.77	9.58	44.40	27.66	11.10	17.39
	10	15.26	15.26	3.04	2.08	17.31	17.31	3.43	2.53	24.80	24.55	5.02	4.66	40.40	26.14	8.08	10.24
	12	13.67	13.67	2.27	1.32	15.82	15.82	2.63	1.66	22.08	22.08	3.67	2.81	36.01	25.28	6.00	6.24
	15	11.06	11.06	1.47	0.69	13.30	13.30	1.77	0.91	19.81	19.81	2.64	1.67	23.72	23.72	3.09	2.14

FWH14A - series

ENT °F	WTR °F	Entering Air Temp(°Fdb/°Fwb)															
		72/61				74/63				80/67				84/71			
		TC	SC	GPM	PD	TC	SC	GPM	PD	TC	SC	GPM	PD	TC	SC	GPM	PD
43	8	32.56	25.82	8.11	10.49	38.96	27.23	9.72	14.21	52.69	33.93	13.18	23.69	67.47	38.19	16.85	35.78
	10	26.52	25.86	5.28	5.16	34.80	26.03	6.95	8.11	48.54	30.19	9.70	14.14	63.44	36.54	12.68	22.20
	12	23.48	23.48	3.90	3.15	28.66	25.94	4.76	4.35	44.10	30.34	7.32	8.84	59.10	34.75	9.80	14.40
	15	20.84	20.84	2.77	1.83	23.22	23.22	3.09	2.17	36.50	29.93	4.86	4.50	52.46	32.11	7.00	8.21
45	8	26.08	25.51	6.47	7.17	34.04	25.16	8.45	11.18	47.81	31.84	11.89	19.80	62.66	36.22	15.59	31.21
	10	22.88	22.88	4.54	4.01	28.32	25.63	5.63	6.89	43.43	30.05	8.61	11.54	58.39	34.45	11.57	18.92
	12	21.18	21.18	3.51	2.65	23.53	23.53	3.91	3.15	39.11	29.41	6.50	7.22	54.09	32.78	8.98	12.38
	15	20.31	20.31	3.12	2.19	20.86	20.86	2.77	1.82	27.91	27.91	3.70	2.88	46.92	30.03	6.23	6.74
50	8	18.78	18.78	4.70	4.19	21.09	21.09	5.28	5.07	34.57	28.04	8.61	11.38	49.62	31.06	12.42	21.01
	10	17.05	17.05	3.41	2.50	19.36	19.36	3.86	3.04	26.34	26.34	5.26	5.03	44.96	29.31	8.98	12.21
	12	15.23	15.23	2.54	1.57	17.62	17.62	2.93	1.97	24.68	24.68	4.11	3.37	39.97	28.42	6.66	7.42
	15	12.22	12.22	1.63	0.80	14.74	14.74	1.96	1.06	22.04	22.04	2.93	1.97	26.77	26.77	3.57	2.68

TC = Total Capacity, MBH

SC = Sensible Capacity, MBH

GPM = Water Flow Rate, gpm

PD = Water Pressure Drop, ft.wg

EWT = Entering Water Temperature

WTR = Water Temperature Rise