

Technical specifications

Ceiling Concealed Unit FWW-DA

District cooling unit/2 pipe/4 rows

		MODEL	FWW02DA	FWW03DA	FWW04DA	FWW05DA	FWW06DA	FWW07DA	FWW08DA	FWW10DA	FWW12DA	FWW14DA	FWW16DA	FWW18DA	FWW20DA
Air flow	High	m³/h	400	500	700	850	1050	1210	1340	1670	1850	2020	2350	2580	3330
		CFM	235	294	412	500	618	712	788	982	1088	1188	1382	1518	1959
	Medium	m³/h	360	450	640	790	950	1140	1290	1610	1750	1950	2100	2480	3070
		CFM	212	265	376	465	559	671	759	947	1029	1147	1235	1459	1806
	Low	m³/h	240	340	460	600	750	880	920	1280	1420	1550	1650	1930	2250
		CFM	141	200	271	353	441	518	541	753	835	912	971	1135	1324
External static pressure		Pa	60Pa												
		in.wg	0.24												
Total cooling capacity		W	1930	2300	3400	4100	4700	5500	5700	7400	8500	9250	10300	11600	14500
		Btu/h	6585	7848	11601	13989	16036	18766	19448	25249	29002	31561	35144	39579	49474
Sensible cooling capacity		W	1360	1550	2330	2880	3300	3750	4190	5490	6080	6430	7500	8400	10700
		Btu/h	4640	5289	7950	9827	11260	12795	14296	18732	20745	21939	25590	28661	36508
Water flow rate		m3/h	0.2	0.23	0.35	0.4	0.46	0.56	0.56	0.73	0.83	0.91	1.04	1.18	1.45
		Am.gpm	0.88	1.012	1.54	1.76	2.024	2.464	2.464	3.212	3.652	4.004	4.576	5.192	6.38
Water pressure drop		kPa	5	6	14	20	9	14	14	13	17	20	17	23	25
		PSI	20	24	56	80	36	56	56	52	68	80	68	92	100
Rated power input (W)		High	60	86	110	122	149	166	181	301	262	315	486	640	710
		Medium	57	80	100	116	134	163	174	283	250	302	437	550	660
		Low	49	63	80	99	112	150	148	245	224	270	367	440	550
Rated running current (A)		High	0.27	0.4	0.51	0.56	0.68	0.77	0.85	1.43	1.2	1.54	2.22	2.91	3.34
		Medium	0.26	0.37	0.46	0.53	0.63	0.74	0.79	1.29	1.14	1.38	1.99	2.57	3.01
		Low	0.23	0.3	0.37	0.46	0.54	0.69	0.67	1.12	1.03	1.27	1.67	2.09	2.52
Sound pressure level (dB(A))		High	42.5	43.5	44	45	47.5	47.5	48	48.5	50.5	51.5	52	53.5	57
		Medium	41.5	43	43	44	46.5	46.5	47.5	48	49.5	51	51	53	56
		Low	37	40	41	42	43.5	44.5	44.5	46.5	47	48	47	49.5	52
Coil															
Tube material		Copper													
Fin material		Hydrophilic aluminum 0.11mm													
Max. Working Pressure		1.6MPa													
Cooling Water Pipe Size		Rc 3/4 Female thread													
Condensation Water Pipe Size		R3/4 Male thread													
Fan															
Type		Galvanized steel double stage impeller forward centrifugal													
Quantity		1	1	2	2	2	2	2	3	4	4	3	3	4	
Motor															
Type		3 Speed Permanent Split Capacitor Motor													
Quantity		1	1	1	1	1	1	1	2	2	2	2	2	2	
Insulation class		IP20/B													

NOTES:

- 1) ALL SPECIFICATIONS ARE SUBJECT TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.
- 2) THE AIR FLOW IS DRY AIR FLOW TESTED ON STANDARD AIR CONDITION WITHOUT WATER IN COIL.
- 3) THE COOLING CAPACITY ARE BEING TESTED UNDER FOLLOWING CONDITION:
COOLING: H SPEED, ENTERING AIR DB/WB: 24°C/18°C, WATER INLET 5.5°C, WATER OUTLET 14.5°C
- 4) FOR MEDIUM AND LOW SPEED, PLEASE REFER TO FOLLOWING CORRECTION COEFFICIENT:

SPEED	MODEL	FWW02DA	FWW03DA	FWW04DA	FWW05DA	FWW06DA	FWW07DA	FWW08DA	FWW10DA	FWW12DA	FWW14DA	FWW16DA	FWW18DA	FWW20DA
MEDIUM	TOTAL CAP.	0.89	0.91	0.91	0.93	0.98	0.95	0.98	0.92	0.95	0.97	0.97	0.98	0.95
	SENSIBLE CAP.	0.85	0.95	0.92	0.94	0.96	0.96	0.96	0.97	0.93	0.98	0.93	0.97	0.95
LOW	TOTAL CAP.	0.67	0.65	0.74	0.80	0.77	0.76	0.79	0.81	0.82	0.84	0.82	0.86	0.80
	SENSIBLE CAP.	0.58	0.79	0.69	0.76	0.77	0.82	0.77	0.85	0.80	0.86	0.76	0.82	0.76

- 5) SOUND PRESSURE MEASURED AT 1M IN FRONT OF THE UNIT AND 1M BELOW THE VERTICAL CENTER LINE OF THE UNIT, AND TESTED IN SEMI-ANECHOIC ROOM, WITH BACKGROUND SOUND PRESSURE LEVEL: 11.5dB (A).
- 6) ALL PERFORMANCE ARE TESTED UNDER 220V~/50HZ AND WITHOUT PLENUM AND FILTER.
- 7) WHEN THE WATER CONNECT DIRECTION IS CHANGED IN FIELD, THE CAPACITY SHOULD BE REDUCED BY 6%.
- 8) PERFORMANCE OF SPECIFIED CONDITION CAN BE CALCULATED BY OUR SOFTWARE.

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Air flow (m3/h)	HIGH	397	482	680	822	990	1159	1268	1611	1765	1908	2269	2476	3237
	MEDIUM	376	459	653	793	941	1122	1246	1575	1715	1875	2087	2416	3022
	LOW	306	404	558	679	811	944	994	1367	1525	1649	1692	1984	2347
ESP (Pa)	HIGH	55	56	54	54	56	53	52	52	53	52	59	53	55
	MEDIUM	50	50	50	50	50	50	50	50	50	50	50	50	50
	LOW	33	38	37	36	37	35	32	38	39	39	33	33	33
Total cooling capacity (W)	HIGH	1980	2230	3360	3970	4510	5310	5490	7140	8220	8900	9940	11270	14030
	MEDIUM	1790	2120	3160	3820	4560	5190	5460	6770	7940	8700	9930	11160	13670
	LOW	1530	1670	2890	3570	3830	4360	4790	6280	7360	8020	8610	10100	11760
Sensible cooling capacity (W)	HIGH	1370	1500	2280	2790	3150	3620	4020	5310	5860	6160	7260	8190	10440
	MEDIUM	1200	1490	2180	2720	3150	3580	3830	5280	5540	6090	6960	8080	10050
	LOW	960	1390	1890	2410	2710	3030	3350	4920	5130	5760	5830	7170	8420
WATER PRESSURE DROP (Pa)	HIGH	5.3	5.6	13.7	18.9	8.4	13.2	13.1	12.2	16.1	18.7	16.0	21.8	23.6
	MEDIUM	4.2	5.1	12.3	17.7	8.5	12.6	12.9	11.1	15.1	18.0	16.0	21.2	22.3
	LOW	2.9	3.0	10.4	15.7	6.2	9.2	10.2	9.8	13.3	15.6	12.4	17.7	16.9
RATED POWER INPUT (W)	HIGH	58	83	107	114	147	156	161	273	232	280	441	596	652
	MEDIUM	55	78	98	108	133	153	153	254	219	264	400	514	609
	LOW	47	60	77	94	109	142	135	229	207	252	356	433	550
Lw outlet duct (dB(A))	HIGH	62	63	64	64	67	67	68	68	70	71	72	73	73
	MEDIUM	61	63	63	64	66	66	67	68	70	71	70	71	71
	LOW	57	60	60	62	64	64	64	66	67	68	67	69	69
Lw inlet + rad (dB(A))	HIGH	70	71	72	72	75	75	76	76	78	79	80	81	81
	MEDIUM	69	71	71	72	74	74	75	76	78	79	78	79	79
	LOW	65	68	68	70	72	72	72	74	74	76	75	77	77

NOTES:

- 1) ALL SPECIFICATIONS ARE SUBJECT TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.
- 2) THE AIR FLOW IS WET CONDITION AND CAPACITY ARE BEING TESTED UNDER FOLLOWING CONTITION:
ENTERING AIR DB/WB: 24°C/18°C, WATER INLET 5.5°C, WATER OUTLET 14.5°C
POWER SUPPLY: 220V~50Hz, C/W BACK PLENUM AND 25MM ALUMINUM FILTER.
- 3) THE COOLING CAPACITY ARE BEING TESTED UNDER FOLLOWING CONDITION:
COOLING: H SPEED, ENTERING AIR DB/WB: 24°C DB/18°C, WATER INLET 5.5°C, WATER OUTLET 14.5°C
- 6) ALL PERFORMANCE ARE TESTED WITH BACK PLENUM WITH 25MM ALUMINUM FILTER AND UNDER 220V~50Hz.