

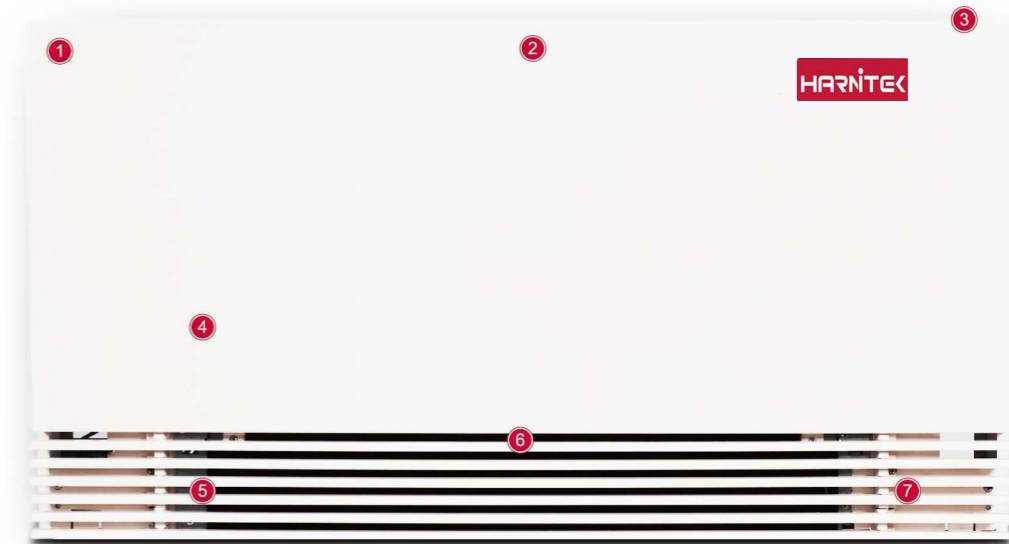
## Hydronic Fan Coil Unit

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A fan coil unit (FCU) is a heat exchange device consisting of heat exchanger coil and forced air fan. Fan coil units circulate hot or cold water through circuits embedded within the coils and moves the room air over, to heat or cool the air in order to condition a space. Hot or cold water provided through an Harnitek heat pump would circulate in the coil, to remove or add heat to the air through heat transfer. Speed control of the fan motor within a fan coil unit is effectively used to control the heating and cooling output desired from the unit. Harnitek provides wide range of fan coil units in different styles with DC available motors.



## Universal Super-Slim Fan Coil Unit



1 Famous Brand Motorized Valve



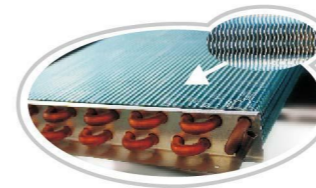
2 Slim Design Only 130 mm Thick



3 Touch Operation Panel



4 Coil with Hydrophilic Aluminum Fin



5 Balanced Cross Fan Blower



6 Easy Access to Air Filter



7 Speed Variable DC Motor



# Hydronic Fan Coil Unit



## Universal Super-Slim Fan Coil Unit

### Output Under Different Water Temperature

Fan Speed	Working Mode	Water Inlet Temp (°C)	BM150 Capacity (W)	BM350 Capacity (W)	BM450 Capacity (W)	BM550 Capacity (W)
High Speed	Cooling	7	748	1496	2154	3120
		12	480	960	1412	2066
		35	552	1104	1558	2103
		38	611	1222	1737	2426
		40	680	1360	1936	2939
		43	756	1511	2102	3045
		45	834	1668	2390	3419
	Heating	48	932	1864	2631	3894
		50	994	1987	2837	4227
		53	1072	2145	3138	4467
		55	1120	2240	3539	4778
		58	1193	2387	3789	4991
		60	1284	2567	3860	5414
		63	1337	2674	4175	5705
		65	1394	2787	4289	5744
		68	1459	2917	4547	5968
		70	1553	3106	4629	6335

### Technical Data

Model		BM150	BM350	BM450	BM550
(a) Total Cooling Capacity	kW	0.75	1.50	2.20	3.10
Sensible Cooling Capacity	kW	0.61	1.25	1.90	2.60
Water Flow Rate	l/h	142	302	453	573
Water Pressure Drops	kPa	7.00	9.00	22.00	28.00
(b) Heating Capacity	kW	0.99	2.00	2.80	4.20
Water Flow Rate	l/h	142	302	453	573
Water Pressure Drops	kPa	6.50	7.00	18.50	24.50
(c) Heating Capacity	kW	1.55	3.10	4.60	6.30
Water Flow Rate	l/h	162	343	471	600
Water Pressure Drops	kPa	7.00	7.50	19.00	25.00
Coil Water Content	l	0.48	0.85	1.15	1.48
Maximum Operating Pressure	bar	10	10	10	10
Water Pipe Connector	inches	G1/2	G1/2	G1/2	G1/2
(d) Maximum Air Flow	m3/h	160	320	460	580
(d) Minimum Air Flow	m3/h	50	150	200	300
Power Supply	V/ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50
Maximum Running Current	A	0.12	0.16	0.21	0.24
Maximum Power Input	W	14	23	27	33
(e) Maximum Noise	dB(A)	39	40	42	42.1
(e) Minimum Noise	dB(A)	19.8	18.3	19.1	21
Length	mm	694	894	1094	1294
Height(without feet)	mm	580	580	580	580
Depth	mm	129	129	129	129
Net Weight	kg	16	22	28	34
Gross Weight	kg	18	24	30	36

Note: (a) Cooling: Water inlet/outlet 7/12°C; Room temperature DB/WB 27/19°C.

(b) Heating: Water inlet 50°C, water flow rate as in cooling operation; Room temperature 20°C.

(c) Heating: Water inlet 70°C, outlet 60°C; Room temperature 20°C.

(d) Air flow measured with clean filter.

(e) Sound pressure level tested as per EN12102:2008 and ISO3745:2012, and certified by Intertek.

(f) The specifications are subject to change without prior notice. For actual specifications of unit, please refer to the stickers on the unit.

### Output Under Different Water Temperature

Fan Speed	Working Mode	Water Inlet Temp (°C)	BM150 Capacity (W)	BM350 Capacity (W)	BM450 Capacity (W)	BM550 Capacity (W)
Medium Speed	Cooling	7	684	1368	2005	2927
		12	384	767	1116	1907
		35	496	992	1343	1899
		38	588	1175	1518	2246
		40	624	1248	1825	2658
		43	735	1470	1976	2759
		45	806	1612	2232	3365
	Heating	48	898	1795	2523	3629
		50	936	1871	2678	3667
		53	993	1986	3065	4202
		55	1028	2056	3322	4455
		58	1131	2261	3499	4526
		60	1169	2337	3666	5059
		63	1218	2437	3806	5331
		65	1305	2611	3951	5444
		68	1359	2718	4134	5704
		70	1456	2913	4336	6335



# Hydronic Fan Coil Unit

## Universal Super-Slim Fan Coil Unit

### Output Under Different Water Temperature

Fan Speed	Working Mode	Water Inlet Temp (°C)	BM150 Capacity (W)	BM350 Capacity (W)	BM450 Capacity (W)	BM550 Capacity (W)
Low Speed	Cooling	7	574	1148	1834	2536
		12	376	752	1058	1590
	Heating	35	378	756	1166	1636
		38	473	947	1273	2049
		40	553	1106	1514	2290
		43	604	1208	1665	2405
		45	665	1330	1911	2886
		48	722	1443	2163	3040
		50	765	1531	2247	3131
		53	813	1627	2604	3616
		55	868	1736	2818	3843
		58	965	1931	2948	4029
		60	1011	2022	3279	4322
		63	1046	2091	3401	4391
65	1089	2179	3492	4583		
68	1193	2385	3564	4830		
70	1229	2457	3681	4985		

### Output Under Different Water Temperature

Fan Speed	Working Mode	Water Inlet Temp (°C)	BM150 Capacity (W)	BM350 Capacity (W)	BM450 Capacity (W)	BM550 Capacity (W)
Super Low Speed	Cooling	7	N/A	N/A	N/A	N/A
		12	N/A	N/A	N/A	N/A
	Heating	35	366	732	1060	1535
		38	405	810	1231	1761
		40	494	989	1474	2047
		43	556	1113	1566	2203
		45	571	1142	1682	2635
		48	662	1323	1861	2807
		50	692	1384	2036	2822
		53	729	1459	2337	3237
		55	754	1509	2468	3485
		58	844	1687	2641	3816
		60	857	1715	2906	3912
		63	932	1865	2987	3965
65	968	1936	3021	4089		
68	1017	2033	3090	4387		
70	1089	2178	3360	4555		

# Cases

