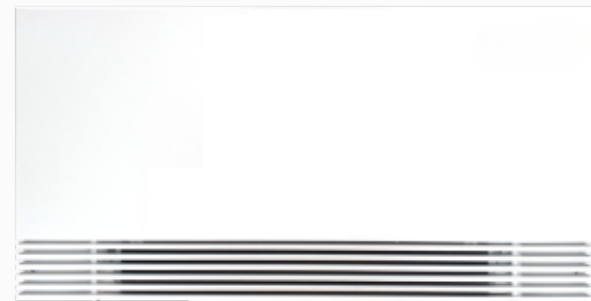


# HARNITEK

The Heatboost Range

Heat Pump Ready Radiator  
Highly efficient from 35 to 70 degrees flow rate



## Hydronic Fan Coil Unit

Fan coil radiators are specifically designed to work with heat pumps as well as conventional boilers. Significantly greater heat output is achieved due to the powerful convection from the integrated fan system. The units are lightweight due to the efficient internal heat exchange system, and only 900ml of internal water, and can offer both heating and cooling (where a heat pump can reverse to provide cooling). Units have integrated room temperature controls which along with multiple speed settings allow the radiators to work with conventional heating controllers, or they can be individually wired to a wiring centre.



## Key Features

- Lightweight - 22/32 kg Net Weight
- LST - Low surface Temperature
- Heat Pump ready, also compatible with all existing wet heating systems
- No degradation - copper and plastic internal parts
- Small electrical usage - Max. 28w to 39w requirement
- Input flow temps from 35 - 75 °C.
- Coil Water content 0.85/1.48 Litres per unit
- Variable programmable fan speeds and Temperature settings
- Standard 15mm water fittings

## Max Heat Outputs

**150LM** 1.5 KW / 5295 Btu

**450LM** 4.6 KW / 15784 Btu

**350LM** 3.1 KW / 10591 Btu

**550LM** 6.3 KW / 21602 Btu



## Technical Data

### Output Under Different Water Temperature

Model		HFP-150LM-Z1	HFP-350LM-Z1	HFP-450LM-Z1	HFP-550LM-Z1
(a) Total Cooling Capacity	kW	0.75	1.5	2.2	3.1
Sensible Cooling Capacity	kW	0.61	1.25	1.9	2.6
Water Flow Rate	l/h	142	302	453	573
Water Pressure Drops	kPa	7	9	22	28
(b) Heating Capacity	kW	0.99	2	2.8	4.2
Water Flow Rate	l/h	142	302	453	573
Water Pressure Drops	kPa	6.5	7	18.5	24.5
(c) Heating Capacity	kW	1.55	3.1	4.6	6.3
Water Flow Rate	l/h	162	343	471	600
Water Pressure Drops	kPa	7	7.5	19	25
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	m <sup>3</sup> /h	160	320	460	580
(d) Minimum Air Flow	m <sup>3</sup> /h	50	150	200	300
Power Supply	V/ph/Hz	230/1/150	230/1/150	230/1/150	230/1/150
Maximum Running Current	A	0.1	0.12	0.15	0.17
Maximum Power Input	W	23	28	35	39
(e) Maximum Noise	dB(A)	39	40	42	42.1
(e) Minimum Noise	dB(A)	19.8	18.3	19.1	21
Net dimension(L*W*H)	mm	694*134*588	894*134*588	1094*134*588	1294*134*588
Package dimension(L*W*H)	mm	720*165*630	920*165*630	1120*165*630	1320*165*630
Net Weight	kg	14	17	20	23
Gross Weight	kg	15	18.5	22	25

**Note:**

See key below for details

- (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 EN 12102:2008 and ISO3745:2012, and certified by Intertek.
- The specifications are subject to change without prior notice. For actual specifications of unit, please refer to the stickers on the unit.

## High Speed

### Output Under Different Water Temperature

Fan Speed	Working Mode	Water Inlet Temp (°C)	HFP-150LM-Z1 WATT / BTU	HFP-350LM-Z1 WATT/BTU	HFP-450LM-Z1 WATT/BTU	HFP-550LM-Z1 WATT/BTU
	Cooling	7	748 / 2550	1496 / 5101	2154 / 7345	3120 / 10639
	Cooling	12	480 / 1636	960 / 3273	1412 / 4814	2066 / 7045
		35	552 / 1882	1104 / 3764	1558 / 5312	2103 / 7171
		38	611 / 2083	1222 / 4167	1737 / 5923	2426 / 8272
		40	680 / 2318	1360 / 4637	1936 / 6601	2939 / 10021
		43	756 / 2577	1511 / 5152	2102 / 7167	3045 / 10383
		45	834 / 2843	1668 / 5687	2390 / 8149	3419 / 11658
High Speed	Heating	48	932 / 3178	1864 / 6356	2631 / 8971	3894 / 13278
		50	994 / 3389	1987 / 6775	2837 / 9674	4227 / 14414
		53	1072 / 3655	2145 / 7314	3138 / 10700	4467 / 15232
		55	1120 / 3819	2240 / 7638	3539 / 12067	4778 / 16292
		58	1193 / 4068	2387 / 8139	3789 / 12920	4991 / 17019
		60	1284 / 4378	2567 / 8753	3860 / 13162	5414 / 18461
		63	1337 / 4559	2674 / 9118	4175 / 14236	5705 / 19454
		65	1394 / 4753	2787 / 9503	4289 / 14625	5744 / 19587
		68	1459 / 4975	2917 / 9946	4547 / 15505	5968 / 20350
		70	1553 / 5295	3106 / 10591	4629 / 15784	6335 / 21602

## Medium Speed

### Output Under Different Water Temperature

Fan Speed	Working Mode	Water Inlet Temp (°C)	HFP-150LM-Z1 WATT / BTU	HFP-350LM-Z1 WATT/BTU	HFP-450LM-Z1 WATT/BTU	HFP-550LM-Z1 WATT/BTU
	Cooling	7	684 / 2332	1368 / 4664	2005 / 6837	2927 / 9981
	Cooling	12	384 / 1309	767 / 2615	1116 / 3805	1907 / 6502
		35	496 / 1691	992 / 3382	1343 / 4579	1899 / 6475
		38	588 / 2005	1175 / 4006	1518 / 5176	2246 / 7658
		40	624 / 2127	1248 / 4255	1825 / 6223	2658 / 9063
		43	735 / 2506	1470 / 5012	1976 / 6738	2759 / 9408
		45	806 / 2748	1612 / 5496	2232 / 7611	3365 / 11474
Medium Speed	Heating	48	898 / 3062	1795 / 6120	2523 / 8603	3629 / 12374
		50	936 / 3191	1871 / 6380	2678 / 9131	3667 / 12504
		53	993 / 3386	1986 / 6772	3065 / 10451	4202 / 14328
		55	1028 / 3505	2056 / 7010	3322 / 11328	4455 / 15191
		58	1131 / 3856	2261 / 7710	3499 / 11931	4526 / 15433
		60	1169 / 3986	2337 / 7969	3666 / 12501	5059 / 17251
		63	1218 / 4153	2437 / 8310	3806 / 12978	5331 / 18178
		65	1305 / 4450	2611 / 8903	3951 / 13472	5444 / 18564
		68	1359 / 4634	2718 / 9268	4143 / 14127	5704 / 19450
		70	1456 / 4964	2913 / 9933	4336 / 14785	6335 / 21602

### Low Speed

#### Output Under Different Water Temperature

Fan Speed	Working Mode	Water Inlet Temp (°C)	HFP-150LM-Z1 WATT / BTU	HFP-350LM-Z1 WATT/BTU	HFP-450LM-Z1 WATT/BTU	HFP-550LM-Z1 WATT/BTU
	Cooling	7	WATT 574 / 1957 BTU	WATT 1148 / 3914 BTU	WATT 1384 / 4719 BTU	WATT 2536 / 8647 BTU
	Cooling	12	WATT 376 / 1282 BTU	WATT 752 / 2564 BTU	WATT 1058 / 3607 BTU	WATT 1590 / 5421 BTU
		35	WATT 378 / 1288 BTU	WATT 756 / 2577 BTU	WATT 1166 / 3976 BTU	WATT 1636 / 5578 BTU
		38	WATT 473 / 16112 BTU	WATT 947 / 3229 BTU	WATT 1273 / 4340 BTU	WATT 2049 / 6987 BTU
		40	WATT 553 / 1885 BTU	WATT 1106 / 3771 BTU	WATT 1514 / 5162 BTU	WATT 2290 / 7808 BTU
		43	WATT 604 / 2059 BTU	WATT 1208 / 4119 BTU	WATT 1665 / 5677 BTU	WATT 2405 / 8201 BTU
		45	WATT 665 / 2267 BTU	WATT 1330 / 4535 BTU	WATT 1911 / 6516 BTU	WATT 2886 / 9841 BTU
Low Speed	Heating	48	WATT 722 / 2462 BTU	WATT 1443 / 4920 BTU	WATT 2163 / 7375 BTU	WATT 3040 / 10366 BTU
		50	WATT 765 / 2608 BTU	WATT 1531 / 5220 BTU	WATT 2247 / 7662 BTU	WATT 3131 / 10676 BTU
		53	WATT 813 / 2772 BTU	WATT 1627 / 5548 BTU	WATT 2604 / 8879 BTU	WATT 3616 / 12330 BTU
		55	WATT 868 / 2959 BTU	WATT 1736 / 5919 BTU	WATT 2818 / 9609 BTU	WATT 3843 / 13104 BTU
		58	WATT 965 / 3290 BTU	WATT 1931 / 6584 BTU	WATT 2948 / 10052 BTU	WATT 4029 / 13738 BTU
		60	WATT 1011 / 3447 BTU	WATT 2022 / 6895 BTU	WATT 3279 / 11181 BTU	WATT 4322 / 14738 BTU
		63	WATT 1046 / 3566 BTU	WATT 2091 / 7130 BTU	WATT 3401 / 11597 BTU	WATT 4391 / 14973 BTU
		65	WATT 1089 / 3713 BTU	WATT 2179 / 7430 BTU	WATT 3492 / 11907 BTU	WATT 4583 / 15628 BTU
		68	WATT 1193 / 4068 BTU	WATT 2385 / 8132 BTU	WATT 3564 / 12153 BTU	WATT 4830 / 16470 BTU
		70	WATT 1229 / 4190 BTU	WATT 2457 / 8378 BTU	WATT 3681 / 12552 BTU	WATT 4985 / 16998 BTU

### Super Low Speed

#### Output Under Different Water Temperature

Fan Speed	Working Mode	Water Inlet Temp (°C)	HFP-150LM-Z1 WATT / BTU	HFP-350LM-Z1 WATT/BTU	HFP-450LM-Z1 WATT/BTU	HFP-550LM-Z1 WATT/BTU
	Cooling	7	N / A	N / A	N / A	N / A
	Cooling	12	N / A	N / A	N / A	N / A
		35	366 / 1248	732 / 2496	732 / 2496	1535 / 5234
		38	405 / 1381	810 / 2762	810 / 2762	1761 / 6005
		40	494 / 1684	989 / 3372	989 / 3372	2047 / 6980
		43	556 / 1895	1113 / 3795	1113 / 3795	2203 / 7512
		45	571 / 1947	1142 / 3894	1142 / 3894	2635 / 8985
Super Low Speed		Heating	48	662 / 2257	1323 / 4511	1323 / 4511
		50	692 / 2359	1384 / 4719	1384 / 4719	2822 / 9623
		53	729 / 2485	1459 / 4975	1459 / 4975	3237 / 11038
		55	754 / 2571	1509 / 5145	1509 / 5145	3485 / 11883
		58	844 / 2878	1687 / 5752	1687 / 5752	3816 / 13012
		60	857 / 2922	1715 / 5848	1715 / 5848	3912 / 13339
		63	932 / 3178	1865 / 6359	1865 / 6359	3965 / 13520
		65	968 / 3300	1936 / 6601	1936 / 6601	4089 / 13943
		68	1017 / 3467	2033 / 6932	2033 / 6932	4387 / 14959
		70	1089 / 3713	2178 / 7426	2178 / 7426	4555 / 15532