

HL Cooling



HL-B Series Water Chillers

Cooling Capacity from 10kW–200kW



Air Cooled Water Chillers

With Standard Volume Integral Stainless Steel Tank
and Pressure Pump



Technical Specification

Models		HLB 10	HLB 15	HLB 20	HLB 30	HLB 40	HLB 50	HLB 80	HLB 90	HLB 140	HLB 160	HLB 180	HLB 200
Duty													
Cooling Capacity @15 °C (1)	kW	12	17.75	21.3	30	38.5	46.6	77.2	86.9	128.5	153.0	170.0	191.3
Total absorbed power (1)/(3)	kW	2.945	4.325	5.025	7.73	8.61	9.80	16.82	19.90	30.62	34.43	40.20	47.80
Cooling Capacity @7 °C (2)	kW	8	12.8	15.3	21.5	25.5	30	51.0	60	84	102.0	120.0	130
Total absorbed power (2)/(3)	kW	3.175	4.825	5.425	8.53	9.37	10.70	18.35	21.70	33.92	37.49	43.80	52.00
Electric Supply	V/Ph/Hz	380~415/3/50											
Refrigerant	/	R410A				R407C							
Compressors													
Number of compressors	/	1	1	1	1	1	1	2	2	4	4	4	4
Number of circuits	/	1	1	1	1	1	1	1	1	2	2	2	2
Total absorbed power (1)	kW	2.44	3.4	4.1	6.3	6.8	7.95	13.5	15.9	24.9	27.0	31.8	37.9
Total absorbed current (1)	A	4.96	6.28	7.5	12.17	13.0	15.3	26.0	30.6	49.2	52.0	61.2	68.4
Total absorbed power (2)	kW	2.67	3.9	4.5	7.1	7.5	8.85	15.0	17.7	28.2	30.1	35.4	42.1
Total absorbed current (2)	A	5.3	7.08	8.11	13.2	13.9	16.4	27.9	32.8	53.2	55.8	65.6	74.4
Fans													
Number of fans	/	1	1	1	1	1	1	2	2	4	4	4	4
Nominal absorbed power	kW	0.135	0.375	0.375	0.68	1.1	1.1	2.2	2.2	2.72	4.4	4.4	4.4
Nominal absorbed current	A	0.44	1	1	1.5	3.1	3.1	6.2	6.2	6	12.4	12.4	10.4
Total air flow	m³/h	3500	6500	6500	9000	12000	12000	24000	24000	36000	48000	48000	60000
Pump (standard 3 bar)													
Number of pumps	/	1	1	1	1	1	1	1	1	1	1	1	1
Nominal absorbed power	kW	0.37	0.55	0.55	0.75	0.75	0.75	1.1	1.8	3	3	4	5.5
Nominal absorbed current	A	1	2	2	2	2	2	3	5	7	7	10.3	16
Water flow rate	m³/h	1.0/3.5	1.5/3.5	1.5/3.5	3/7	3/7	3/7	6/11	10/16	10/22	10/22	16/26	15/60
Available head pressure	bar	2.7/1.5	3.2/1.8	3.2/1.8	3.4/1.5	3.4/1.5	3.4/1.5	2.2/1.8	3.3/2.0	3.7/2.2	3.7/2.2	3.3/2.0	3.2/2.2
Tank volume	L	10	15	15	30	30	30	100	100	120	120	120	200
Water connections													
Water inlet / outlet dimension (BSP)	inch	1	1	1	1¼	1¼	1¼	2	2	2½	2½	2½	3
Dimensions of unit													
Width	mm	730	730	730	800	800	800	1095	1095	1910	1910	1910	2050
Depth	mm	1190	1190	1190	1420	1420	1420	2000	2000	2250	2250	2250	2800
Height	mm	890	890	890	960	960	960	2050	2050	1950	1950	1950	1950
Net weight	Kg	200	205	210	355	360	370	730	750	1370	1410	1450	TBC
Dimensions of package													
Width	mm	890	890	890	960	960	960	1230	1230	2055	2055	2055	2195
Depth	mm	1330	1330	1330	1620	1620	1620	2300	2300	2370	2370	2370	2920
Height	mm	1085	1085	1085	1200	1200	1200	2250	2250	2204	2204	2204	2204
Gross weight	Kg	230	235	240	400	405	415	800	820	1490	1530	1570	TBC
Sound pressure level (4)	dB(A)	61	62	62	62	65	65	67	67	68	68	68	69
Capacity correction factors: Refrigeration capacity = nominal value x CFl x CF2 x CF3													
Water outlet temperature	°C	-5	0	5	7	10	12						
CFl		0.63	0.77	0.93	1	1.1	1.2						
External air temperature	°C	15	20	25	30	32	35	43					
(air) CF2		1.15	1.12	1.07	1.02	1	0.97	0.85					
Ethylene Glycol	%	0	5	10	15	20	25	35	40	55	60		
CF3		1	0.997	0.995	0.99	0.985	0.98	0.97	0.965	0.96	0.95		
Compressor power input correction factors(indicative values): Compressor power = nominal value x Pf1 x PF2 x PF3													
Water outlet temperature	°C	-5	0	5	10	12	15						
Pf1		0.95	0.965	0.98	1.025	1.035	1.05						
External air temperature	°C	15	20	25	32	35	40						
(air) PF2		0.688	0.767	0.858	1	1.05	1.17						
Ethylene Glycol	%	0	5	10	20	25	30	45	50				
PF3		1	0.997	0.995	0.985	0.98	0.975	0.96	0.95				

Note:

- (1) Water outlet temp = 15°C ; water DELTA T = 5°C; ambient temperature = 25°C;
- (2) Water outlet temp = 7°C ; water DELTA T = 5°C; ambient temperature = 32°C;
- (3) Refers to compressor, fans, and pump absorbed power;
- (4) Refers in free field at 10m distance from the unit at condenser side and at 1.2m from the ground.

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