Pentair Heat & Chill Pumps

Heating or cooling swimming pool pump

By Pentair Water Pool and Spa™

The swimming pool heat pump can be used for heating or cooling swimming pools and spas, helping you to extend your swimming season..

Pentair Water
Pool and Spa®

Pentair Heat & Chill Pumps

Heating or cooling swimming pool pump

The swimming pool heat pump can be used for heating or cooling swimming pools and spas, helping you to extend your swimming season.

- **Long Operating Life**

  The units utilise an advanced titanium metal water heat exchanger enclosed in seamless stainless steel, allowing it to resist the erosion from chlorine and salt in the water. The units are produced with an option of high quality galvanized metal coatings or stainless steal resulting in corrosion resistance for a longer life.

- **Economical and High-Efficient**

  Using the heat pump technology compared with other ordinary hot water equipment such as oil boilers, gas boilers or electronic boilers, cuts operating costs by 65 - 80%.

- **Safety**

  The unit has an intelligent control system which include automatic stop/start. The monobloc design offers easy installation and replacements.

- **Easy Use and Installation**

  The units range from small and compact to very large. Horizontal and vertical units are available. The units include a micro computer controller with easy operational parameters settings.

There is a one year warranty period on the Pentair Heat & Chill Pumps..

Model	Units	HCP15-VS	HCP22-VS	HCP35-VS	HCP44-VS	HCP53-VS	HCP66-VS	HCP87-VS	HCP110-VS	HCP140-VS	HCP191-VS	HCP230-VS
Heating Capacity	kW	14.7	22	35	44	52.8	66	87.4	110	140	191	230
	BTU/h	50200	75000	120000	150000	180000	225000	300000	376000	480000	650000	785000
COP	----	5.07	4.89	4.79	4.73	4.74	4.71	4.65	4.72	4.86	5.08	4.94
Cooling Capacity	kW	9	15	24	29.8	35.8	44.9	59.5	75	95.2	126.9	150
	BTU/h	31000	51000	82000	102000	122000	153000	203000	256000	325000	430000	512000
EER	----	2.73	2.73	2.82	2.71	2.82	2.81	2.70	2.80	3.19	2.88	2.79
Max Water Outlet Temparature	_	45	45	45	45	45	45	45	45	45		
Power Input (Heating/Cooling)	kW	2.90/3.30	4.50/5.50	7.30/8.50	9.30/11.00	11.15/12.70	14.00/16.00	18.80/22.00	23.30/26.80	28.80/29.80	37.60/44.00	46.60/53.80
Current Input (Heating/ Cooling)	A	13.5/15.3	8.1/9.9	11/13.4	16.8/19.8	20.1/22.9	25.2/28.8	33.9/39.7	42.0/48.3	51.92/53.7	67.8/79.4	84.00/96.6
Max Power Input	kW	3.9	6.1	10.1	12.6	15.1	18.9	25.4	31.5	38.75	50.8	63
Max Current Input	A	18.1	11	16.6	22.7	27.2	34.1	45.8	56.8	69.86	91.6	113.6
Power Supply	V/PH/HZ	220V/1N/50Hz	380V/3N/50Hz									
Ambient Temperature	_	-10_ to 43_										
Rated Water Pressure	MPa	0.2 to 0.6										
Compressor Type		Scroll										
Heat Exchanger		Titanium in seamless stainless steel										
Number of Compressors		1	1	2	2	2	2	2	2	2	4	4
Number of Fans		1	1	2	2	2	2	2	2	2	4	4
Fan Direction		Vertical										
Fan Power Input	W	180	260	320_2	320_2	550_2	550_2	640x2	1100x2	1100x2	640x4	1100x4
Fan Rotation Speed	RPM	850	850	790	790	820	820	790	820	820	790	820
Noise Level	dB (A)	56	59	64	64	66	66	66	68	68	71	72
Water Connection Size	mm	DN32	DN32	DN40	DN50	DN50	DN65	DN65	DN65	DN80	DN80	DN100
Water Flow Volume	m3/h	2.52	3.77	6.00	7.54	9.05	11.31	14.98	18.86	24.00	32.74	39.43
Heated Water Output	l/h	630	943	1500	1886	2263	2829	3746	4714	6000	8186	9857
Certification		CE / SAA / C-TICK / CB					CE					
Net Weight	kg	90	113	214	244	276	450	472	680	720	944	1360
Shipping Weight	kg	102	127	238	268	316	487	526	734	785	1052	1468
Dimensions	mm	695/655/740	706/686/940	1450/705/965	1450/705/1065	1450/705/1475	1530/800/2000	2015/970/2025	2015/970/2025	2215/1170/2025	2015/2200/2025	2015/2200/2025
Shipping Size	mm	787/775/842	815/800/1045	1535/835/1083	1535/835/1184	1550/830/1520	1650/925/2160	2130/1150/2070	2130/1150/2070	2315/1290/2070	2115/2300/2075	2115/2300/2075
Refrigerant	Type	R407C										

Notes:

1. Heating working condition: Outdoor DB/WB temp: 20_/19_, inlet water temp 20_.
2. Cooling working condition: Outdoor DB/WB temp: 35_/26_, outlet water temp 7_, return water temp 12_.
3. Other sizes are available.
4. COP = heating capacity / heating power input (for heating).
5. EER = cooling capacity / cooling power input (for cooling).
6. Sizing: P=(CV(T2-T1)/t)*1.20 where P=Capacity required (kW), C=Coefficient (1.163), V=Water volume (m_),T2=Target water temp (°C),T1=Water temp before heating (°C), t=time to heat, plus add 20%.

Pentair Water Pool and Spa®

Australia Freecall 1800 664 266 Web: pentairwater.com.au
Email: au.sales@pentairwater.com Fax: 1800 006 688

New Zealand Freecall 0800 664 269 Web: pentairwater.com
Email: nz.sales@pentairwater.com
Auckland Fax: +64 9 579 6497
Christchurch Fax: +64 3 343 1054

Singapore Phone: 65 6795 2213 Fax: 65 6795 2219
Email: singapore.sales@pentairwater.com

L3 00163 A0409

pumps / filters / heaters / heat pumps / automation / lighting / cleaners / sanitisers / maintenance products

NSF Listed