

Hi inverter pool heat pumps

Front and top discharge ranges



Enjoy comfortable pool water with heating that adjusts to demand. Insnrg Hi heat pumps combine inverter control, a titanium heat exchanger and colour touch-screen operation in a choice of nine models.



FRONT DISCHARGE



TOP DISCHARGE
LIGHT COMMERCIAL

9 models / Up to 40.09 kW / Peak COP 18.89

Maximum heating output: Hi 140 top discharge. Peak COP: Hi 96 front discharge at part load. Both at 27°C dry-bulb / 24.3°C wet-bulb air and 26/28°C inlet/outlet water. Peak COP and maximum output occur at different operating points.

Intelligent temperature control

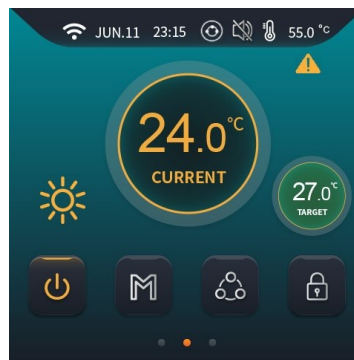
From the first warm-up to maintaining your preferred temperature, the Hi range gives you clear control of your pool heating.

01 Heating that responds

Inverter technology varies compressor and fan speed as the pool approaches its target temperature. Adjusting output to demand helps limit temperature swings and improve efficiency at part load, keeping your pool comfortable with less unnecessary cycling.

02 The right mode for the moment

Select Boost, Smart or Silent to suit your heating needs. Intelligent monitoring records power-consumption statistics for up to a year, with daily, monthly and annual views to help you understand how your heat pump is being used. The colour touch screen also displays temperature information, operating status and fault messages.



Actual Hi controller screen

03 Connected convenience

Easily connect the Hi range to the Insnrg Automation App through compatible Insnrg automation, bringing whole-pool and spa control together in one app. Manage heating alongside your other connected Insnrg equipment for a simpler pool-owning experience. Alternatively, use the standalone Smart Life app for heat-pump control and scheduling. Smart Life requires a reliable 2.4 GHz Wi-Fi signal at the heat pump and an internet connection for remote access.

Efficiency with COP up to 18

As your pool reaches its target temperature, the Hi inverter can reduce output and operate more efficiently. Under suitable test conditions at part load, selected Hi models achieve a COP of up to 18: up to 18 kW of heat delivered to the water for each 1 kW of electrical input. The additional heat is drawn from the surrounding air. This makes maintaining a comfortable pool temperature an especially efficient use of inverter technology.

Peak COP varies by model and is achieved at part load, not at maximum heating output. Actual performance depends on air and water temperatures, water flow and operating load. See the test conditions and model-specific figures on the following pages.

Front discharge range

Choose from Hi 35, Hi 55, Hi 72, Hi 85, Hi 96 and Hi 120. Maximum heating outputs range from 9.30 to 27.57 kW. An optional air scoop redirects discharge air for installations where space is limited, helping reduce recirculation. Required airflow and service clearances must still be maintained.

Heating performance

Model	27°C air ¹ Output kW	27°C air ¹ COP	15°C air ² Output kW	15°C air ² COP
Hi 35	2.35–9.30	18.12–6.88	1.43–6.60	8.25–4.61
Hi 55	3.09–15.26	18.19–6.49	2.05–10.54	7.32–4.83
Hi 72	4.51–18.04	18.03–6.06	2.66–14.37	6.06–5.18
Hi 85	5.43–20.52	18.10–6.64	2.79–14.70	6.80–4.87
Hi 96	5.10–24.68	18.89–6.38	8.23–19.50	8.34–4.94
Hi 120	5.77–27.57	18.61–6.15	8.23–20.24	7.74–5.39

¹ Air 27°C dry bulb / 24.3°C wet bulb; water inlet/outlet 26/28°C.

² Air 15°C dry bulb / 12°C wet bulb; water inlet 26°C.

Output ranges run from minimum to maximum. COP ranges are shown in the same order as published in the manual; the highest COP is generally achieved at part load.

Installation at a glance

Model	Supply ³	Water flow m ³ /h	Dimensions L × W × H mm	Net weight kg
Hi 35	1 phase	4.0	907 × 353 × 616	46
Hi 55	1 phase	6.6	1000 × 399 × 658	53
Hi 72	1 phase	7.7	1000 × 399 × 658	62
Hi 85	1 phase	9.1	1115 × 455 × 765	75
Hi 96	1 phase	10.8	1115 × 455 × 765	80
Hi 120	3 phase	12.0	1115 × 455 × 765	82

³ Single phase: 220–240 V, 50 Hz. Three phase: 380–415 V, 50 Hz, with neutral.

Built for pool heating

Titanium water heat exchanger • R32 refrigerant • 40 mm PVC water connections • Heating set-point range 15–40°C
Suitable for ice baths with cooling temperatures down to 8°C.

Select by discharge type as well as model number: the front-discharge Hi 85 and top-discharge Hi 85 have different performance and installation data. Refer to the installation manual for clearances and full electrical requirements.

Top discharge range

Part of Insnrg's Light Commercial range, the Hi 85, Hi 110 and Hi 140 combine upward air discharge with maximum heating outputs from 21.60 to 40.09 kW.

Heating performance

Model	27°C air ¹ Output kW	27°C air ¹ COP	15°C air ² Output kW	15°C air ² COP
Hi 85	4.77–21.60	14.91–6.80	3.43–15.04	7.15–5.26
Hi 110	7.06–30.80	14.71–6.09	5.08–20.94	7.15–4.76
Hi 140	10.43–40.09	15.12–6.04	7.30–28.20	7.02–4.53

¹ Air 27°C dry bulb / 24.3°C wet bulb; water inlet/outlet 26/28°C; RH 80%.

² Air 15°C dry bulb / 12°C wet bulb; water inlet/outlet 26/28°C; RH 70%.

Output and COP ranges follow the manual. Peak COP and maximum output occur at different operating points.

Installation at a glance

Model	Supply ³	Water flow m³/h	Dimensions L × W × H mm	Net weight kg
Hi 85	1 phase	9.0	800 × 742 × 783	94
Hi 110	1 phase	13.2	800 × 742 × 965	108
Hi 140	3 phase	17.6	907 × 842 × 1052	146

³ Single phase: 220–240 V, 50 Hz. Three phase: 380–415 V, 50 Hz, with neutral.

Choose for your pool and climate

Pool volume, target temperature, swimming season, local climate, wind exposure and cover use all affect sizing. Ask Insnrg or your dealer to select a model for your site and heating goals.

Size your heat pump using Insnrg's heat pump sizing guide at www.insnrg.com.

Warranty

Titanium heat exchanger coil	Compressor	Parts	Labour
25 years	10 years	2 years	2 years

Warranty periods and conditions are set out in the operating manual. Australian Consumer Law rights also apply.

Find your Hi heat pump

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