

Dantherm[®]
CLIMATE SOLUTIONS



SWIMMING POOL INVERTER HEAT PUMPS
I-PAC PRO RANGE

IDEAL FOR INDOOR AND OUTDOOR POOLS IN HOTELS,
SPAS, HEALTH CLUBS AND WELLNESS CENTRES



High-performance pool heating

The I-PAC PRO range is the next generation of high-performance inverter heat pumps that are designed specifically for energy-efficient heating and cooling of swimming pools.

Engineered with cutting-edge technology and eco-friendly components, the I-PAC PRO range constitutes a reliable and energy-efficient solution for a wide range of pool applications, including outdoor and indoor pools, hotel and spa pools, therapy pools, health clubs, and wellness centres.

The combination of advanced features and user-friendly controls makes the I-PAC PRO range an ideal choice for both commercial and private settings. With its quiet operation, robust performance, and remote monitoring capabilities, the range stands out by offering unparalleled convenience, performance, and comfort all year round.





Suitable for all-year use

The I-PAC PRO heat pumps operate seamlessly in temperatures ranging from **-20°C to +43°C**, making them ideal for year-round usage, even in extreme climates. The **three operational modes**—Turbo, Perfect, and Silence—provide flexibility depending on your specific requirements, be they peak performance or ultra-quiet operation.



Eco-friendly refrigerant - energy-efficient inverter technology

To meet the requirements of the EU F-Gas regulation, the I-PAC PRO models use the eco-friendly **R32 refrigerant**, which makes the solution environmentally responsible, while the inverter technology and **titanium condenser** ensure maximum efficiency at all times.



Touchscreen and remote control functionality

The integrated controller features a touchscreen user interface with real-time information, including water in/out temperatures and input power consumption. With the built-in Wi-Fi module, users can monitor and control the heat pump remotely using the Pooltherm App, available on both Android and iOS devices. A future-proofed system, the I-PAC PRO range will also support over-the-air firmware updates and remote monitoring features, ensuring your unit is always optimised for performance and security.



Remote fault diagnostics

Remote monitoring and fault diagnostics allows Dantherm Group to continually check each individual heat pump to ensure optimal performance and efficiency of installed units. Using in-built sensors and fault codes, our technicians can identify and resolve problems without physically visiting customer sites. This also ensures that should a site visit be necessary, the engineers arrive with the correct parts to enable a rapid repair.



Low noise level for sensitive locations

New cabinet design reduces overall sound levels by up to 5dB(A) at 10 metres compared to previous equivalent I-PAC models and an additional silence mode limits the sound levels even further for noise sensitive locations.



Enduring design

Built to withstand tough environmental conditions, the heat pump is encased in a durable aluminum alloy weatherproof cabinet and includes anti-vibration mounts for quieter operation. The soft startup function reduces power surges, protecting both the heat pump and your electrical system.

I-PAC PRO



Inverter swimming pool heat pump technology improves temperature control and reduces both energy consumption and wear and tear.

Low running costs and minimal wear

Unlike traditional on/off solutions, the I-PAC PRO inverter heat pumps use stepless inverter compressors so they can adjust their speed to match the exact heating demand. This allows for more precise temperature control, reduced energy consumption, and quieter operation. COP is improved to a maximum of 20.

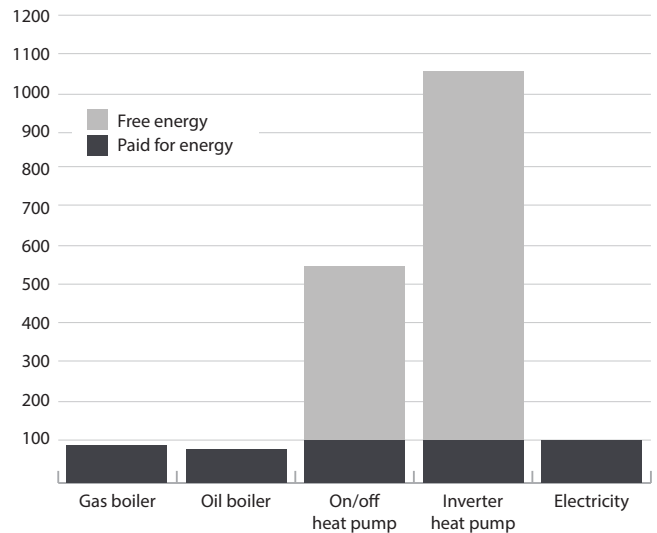
The inverter's ability to run only when necessary also minimises wear on components, extending the system's lifespan and lowering overall running costs.

Cooling and heating improvements

The I-PAC PRO units can cool water to as low as 5°C, making them an ideal choice for hydrotherapy pools and other applications requiring chilled water.

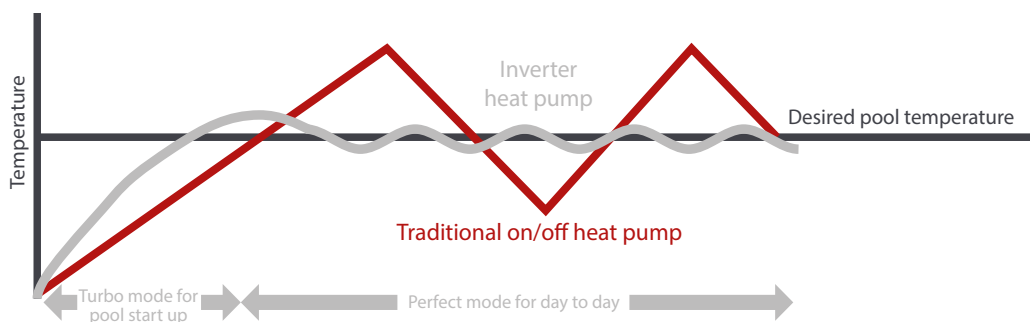
Moreover, the two I-PAC PRO models 28A and 36B offer extended heating capacities of up to 32.5 kW (230V single phase) and 40.5 kW (400V three phase), which makes them suitable for larger pools or cooler climates.

Approximate heating method efficiency chart



The I-PAC PRO inverter heat pumps cut energy consumption in half compared to traditional on/off heat pumps and use approximately 1/10 of the energy needed for gas or electric heating systems.

Temperature control chart



! New I-PAC PRO units can cool water to as low as 5 C



I-PAC PRO 10A

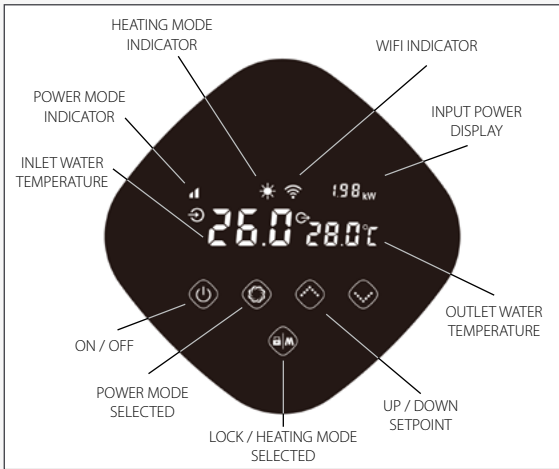
I-PAC PRO 16A

I-PAC PRO 22A
I-PAC PRO 22B

I-PAC PRO 28A
I-PAC PRO 28B

I-PAC PRO 36B

I-PAC PRO



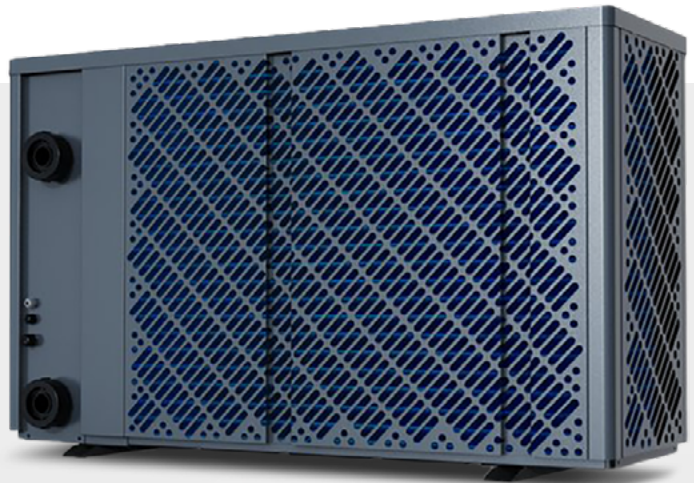
Control panel

The I-PAC PRO touchscreen control panel offers access to the following parameters and functions:

- Current water inlet and outlet temperatures
- Current operating mode (heat, cool, auto and turbo, perfect, silence)
- Current power consumption or compressor running speed
- Wi-Fi connection status
- Fault and protection codes
- On/off switch

Standard and optional accessories

- Comprehensive operating manual
- Anti-vibration mounts
- Winter cover
- Water union connectors
- Condensate drainage kit
- Remote control panel with 10m cable (optional)



I-PAC PRO



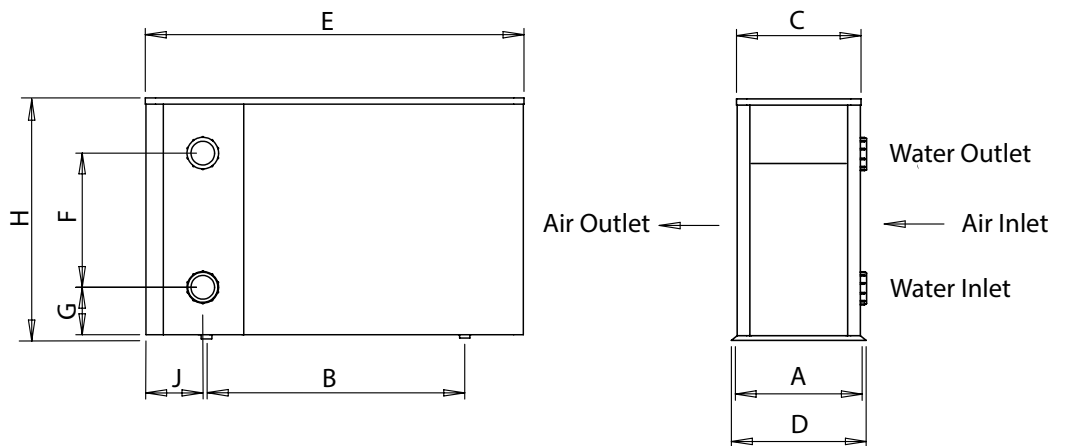
I-PAC PRO

The I-PAC PRO range is the next generation of high-performance inverter heat pumps that are designed specifically for energy-efficient heating and cooling of swimming pools. Engineered with cutting-edge technology and eco-friendly components, the heat pumps offer a reliable and energy-efficient solution for a wide range of pool applications, including outdoor and indoor pools, hotel and spa pools, therapy pools, health clubs, and wellness centers.

The units combine advanced features with user-friendly controls, making them an ideal choice for both commercial and private settings. With their quiet operation, robust performance, and remote monitoring capabilities, they provide unparalleled convenience, performance, and comfort all year round.

- Inverter heat pumps – deliver enhanced performance and energy savings
- Expanded range – includes high-capacity single- and three-phase models (I-PAC PRO 28A and 36B)
- Eco-friendly R32 refrigerant – environmentally responsible and highly efficient
- Remote control/monitoring – handle device control, firmware updates and fault diagnostics over the air
- Titanium condenser – provides corrosion resistance and durability in pool environments
- Touchscreen user interface – integrated controller with real-time data and easy operation
- Multi-function operation – choose from heating, cooling, or a combination of both
- Built-in Wi-Fi module – control your heat pump remotely via the Pooltherm App
- Operating range of -20°C to +43°C – reliable year-round operation in extreme temperatures
- New silence mode – reduces noise levels, perfect for noise-sensitive locations
- Standard supply – winter cover, anti-vibration mounts, condensate drainage kit and water union connectors
- Optional – wired remote control panel with 10m cable

Product dimensions



Model	Units	A	B	C	D	E	F	G	H	J
10A	mm	402	574	390	427	946	340	75	660	108
16A		402	824	390	427	1,195	470	75	760	108
22A		511	700	495	536	1,071	550	75	953	122
22B		511	700	495	536	1,071	550	75	953	122
28A		511	891	495	536	1,264	550	75	954	133
28B		511	891	495	536	1,264	550	75	954	133
36B		511	991	495	536	1,364	670	75	954	133

I-PAC PRO

Specifications	Units	10A	16A	22A	22B	28A	28B	36B
Performance – air 27°C 80% RH. water 27°C								
Heating capacity (Turbo mode)	kW	14.5	22.5	27	27	32.5	32.5	40.5
Heating capacity (Perfect mode)	kW	11.6	18	21.6	21.6	26	26	32.5
COP range (Perfect mode)		7.5 ~ 20.1	7.3 ~ 20.4	7.4 ~ 20.2	7.3 ~ 20.1	7.2 ~ 20	7.3 ~ 19.7	7.3 ~ 20
COP 50% speed (Perfect mode)		14.8	15.2	15	14.9	14.7	14.6	14.7
Performance – air 15°C 70% RH. water 26°C								
Heating capacity (Turbo mode)	kW	9.6	15	18.5	18.5	22.7	22.7	29
Heating capacity (Perfect mode)		7.8	12	15	15	18.8	18.8	23.5
COP range (Perfect mode)		5.2 ~ 8.6	5.3 ~ 9.0	5.2 ~ 8.9	5.3 ~ 8.6	5.4 ~ 8.1	5.3 ~ 8.2	5.2 ~ 8.0
COP 50% speed (Perfect mode)		7.4	7.7	7.6	7.4	7.2	7.2	7.1
Performance – air 5°C 70% RH. water 10°C								
Heating capacity (Turbo mode)	kW	9.3	14.9	17.5	17.2	21.4	21.6	27.5
Performance – air -10°C 70% RH. water 23°C								
Heating capacity (Turbo mode)	kW	5.2	8.2	10.3	9.9	11.4	11.6	14.9
Performance – air 35°C 80% RH. water 28°C								
Cooling capacity	kW	6.7	11.9	13.5	13.5	15.4	15.4	20
Air temperature range	°C	-20°C to 43°C						
Water heating setting range	°C	18°C to 40°C						
Water cooling setting range	°C	5°C to 30°C						
Power supply	V / ~ / Hz	230/1ph/50	230/1ph/50	230/1ph/50	400/3ph/50	230/1ph/50	400/3ph/50	400/3ph/50
Rated input power	kw	0.22 ~ 1.85	0.34 ~ 2.83	0.43 ~ 3.56	0.42 ~ 3.49	0.50 ~ 4.20	0.51 ~ 4.28	0.67 ~ 5.58
Max input current	A	12.5	18.5	20.5	8	24	9.4	12.5
Waterflow	m ³ /h	3 ~ 4	6 ~ 9	8 ~ 10	8 ~ 10	10 ~ 12	10 ~ 12	12 ~ 18
Water connection		48.3mm or 50mm female						
Compressor		Inverter						
Condenser		Titanium						
R32 gas weight / CO ₂ equivalent		1.25 / 0.844	1.7 / 1.148	2.3 / 1.553	2.4 / 1.620	3 / 2.025	3 / 2.025	3.6 / 2.430
Sound level @10m	dB(A)	16.4 ~ 24.8	18.8 ~ 28.5	18.8 ~ 29.2	19.0 ~ 29.4	19.6 ~ 30.2	19.7 ~ 30.4	19.9 ~ 30.5
Dimensions (w x d x h)	mm	946 x 427 x 660	1,195 x 427 x 760	1,071 x 536 x 953	1,071 x 536 x 953	1,264 x 536 x 954	1,264 x 536 x 954	1,364 x 536 x 954
Net weight	kg	65	82	100	111	122	132	147

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