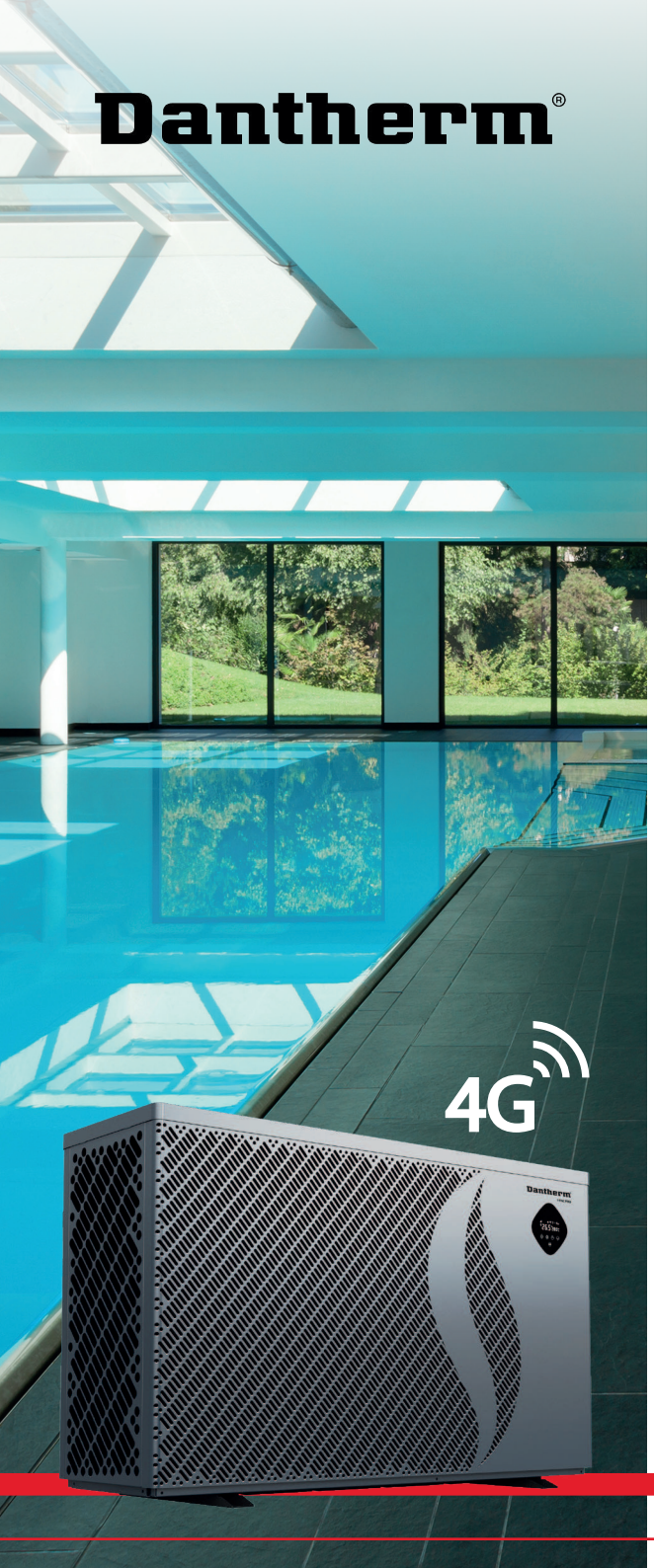
I-PAC PRO Inverter Heat Pump

Side Outlet

Certikin

FLUIDRA

Dantherm®



High-performance pool heating

The next generation of high-performance inverter heat pumps that are designed specifically for energy-efficient heating 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.

Features

- 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 operating 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

WARRANTY
5
YEARS
ON SITE PARTS AND LABOUR

Extended output range

Expanded output range up to 32.5kW Single phase and up to 40.5kW Three phase models (Performance stated at 27°C air, 27°C water and 80% RH).

Remote monitoring & fault diagnosis

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.

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.

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 all 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.

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 operating mode limits the sound levels even further for noise sensitive locations.

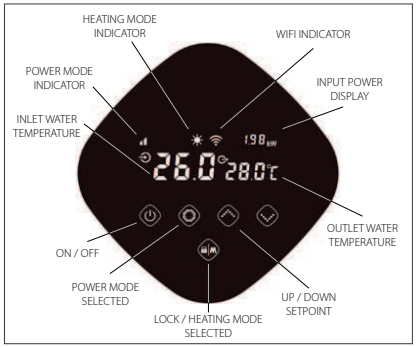
Enduring design

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.

Control panel

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

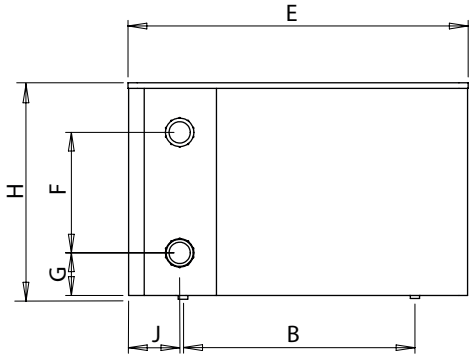
- Current water inlet and outlet temperatures
- Current operating mode (heat, cool, auto and turbo, perfect, silence)
- Current power consumption or compressor running speed
- Wi-Fi connection status
- Fault and protection codes
- On/off switch

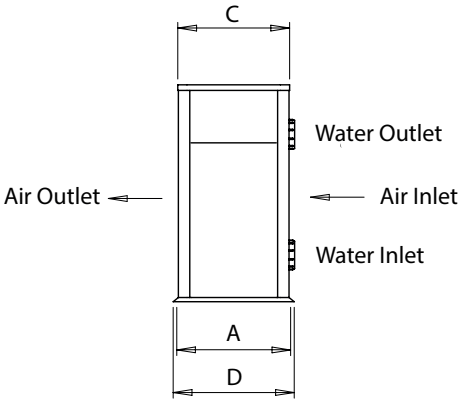


Standard and optional accessories

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

Dimensions





MODEL	UNITS	A	B	C	D	E	F	G	H	J
10A		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	mm	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

Technical Data

SPECIFICATIONS	UNITS	IPRO10A	IPRO16A	IPRO22A	IPRO28A	IPRO22B	IPRO28B	IPRO36B
Rated Fuse / MCB type C	A	16	25	25	32	10	16	16
Air temperature range	°C	-20 to 43 °C	-20 to 43 °C	-20 to 43 °C	-20 to 43 °C	-20 to 43 °C	-20 to 43 °C	-20 to 43 °C
Water Temperature range	°C	12.0-40.0	12.0-40.0	12.0-40.0	12.0-40.0	12.0-40.0	12.0-40.0	12.0-40.0
PERFORMANCE - AIR 27 °C 80% RH, WATER 27 °C								
Heating Capacity (turbo)	kW	14.5	22.5	27	32.5	27	32.5	40.5
COP range (perfect)		7.5-20.1	7.3-20.4	7.4-20.2	7.2-20	7.3-20.1	7.3-19.7	7.3-20
Average COP at 50% speed (perfect)		14.8	15.2	15	14.7	14.9	14.6	14.7
PERFORMANCE - AIR 15 °C 70% RH, WATER 26 °C								
Heating capacity (turbo)	kW	9.6	15	18.5	22.7	18.5	22.7	29
COP range (perfect)		5.2-8.6	5.3-9.0	7.4-20.2	5.4-8.1	5.3-8.6	5.3-8.2	5.2-8.0
Average COP at 50% speed (perfect)		7.4	7.7	7.6	7.2	7.4	7.2	7.1
PERFORMANCE - AIR 35 °C 80% RH, WATER 28 °C								
Cooling capacity	kW	6.7	11.9	13.5	15.4	13.5	15.4	20
Power supply	V/Hz	230/1ph/50	230/1ph/50	230/1ph/50	230/1ph/50	44/3ph/50	44/3ph/50	44/3ph/50
Rated input power	kW	0.22-1.85	0.34-2.83	0.43-3.56	0.5-4.20	0.42-3.49	0.51-4.28	0.67-5.58
Rated input current	A	0.96-8.04	1.48-12.30	1.87-15.48	2.17-18.26	0.61-5.06	0.74-6.20	0.97-8.09
Maximum input current	A	12.5	18.5	20.5	24	8	9.4	12.5
Water flow	m^3/h	3.0-4.0	6.0-9.0	8.0-10.0	10.0-12.0	8.0-10.0	10.0-12.0	12.0-18.0
Water connection	inches or mm	1 1/2 inches or 50mm	1 1/2 inches or 50mm	1 1/2 inches or 50mm	1 1/2 inches or 50mm	1 1/2 inches or 50mm	1 1/2 inches or 50mm	1 1/2 inches or 50mm
Compressor								
Condenser								
R32 gas weight	kg	1.25	1.7	2.3	3	2.4	3	3.6
Sound level @ 10m	dB(A)	16.4-24.8	18.8-28.5	18.8-29.2	19.6-30.2	19.0-29.4	19.7-30.4	19.9-30.5
Sound level @ 1m	dB(A)							
Product size (w x d x h) (Net)	mm	946 x 427 x 660	1195 x 427 x 760	1071 x 536 x 953	1264 x 536 x 954	1071 x 536 x 953	1264 x 536 x 954	1365 x 563 x 954
Net weight	kg	65	82	100	122	111	132	147

IPRO10A

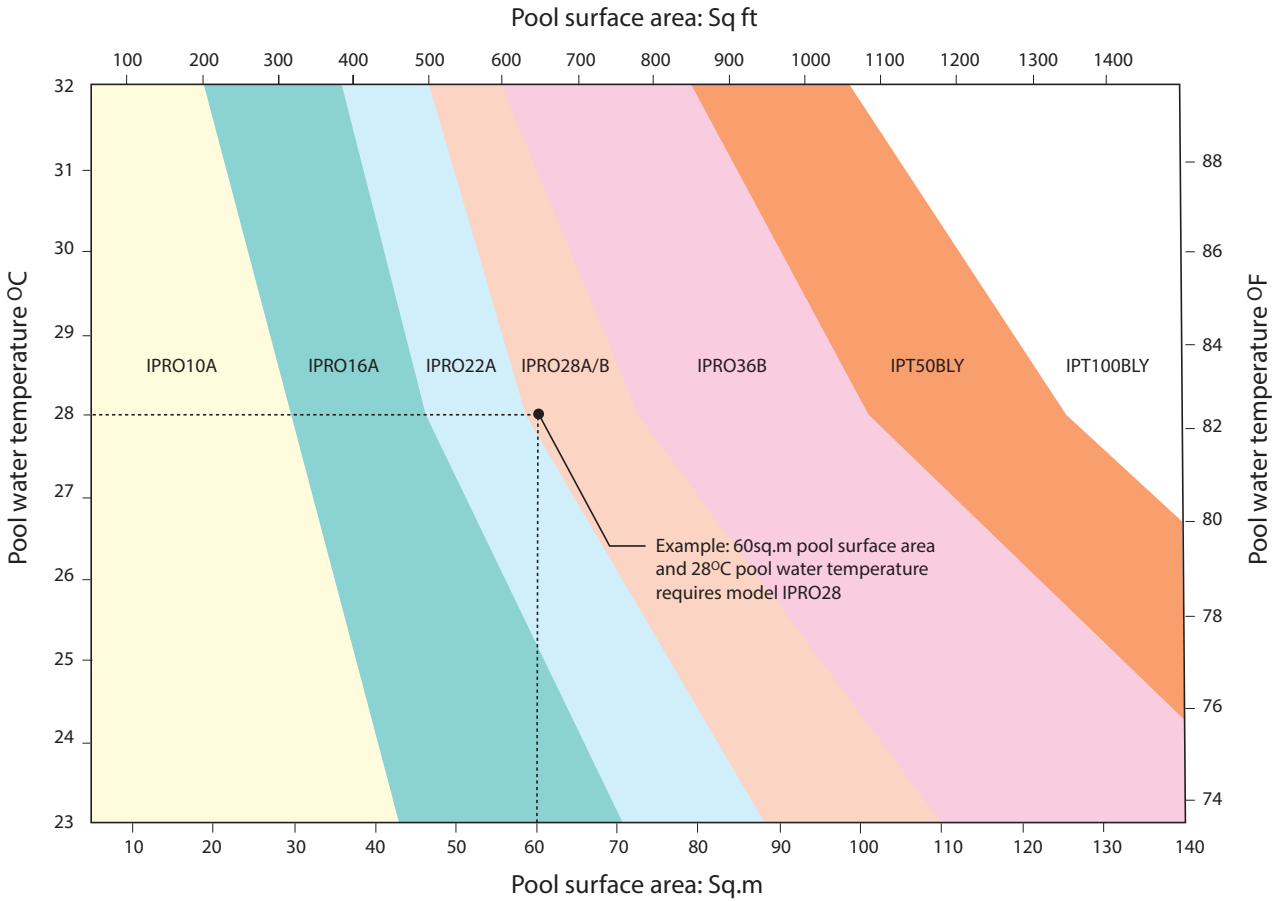
IPRO16A

IPRO22A/B

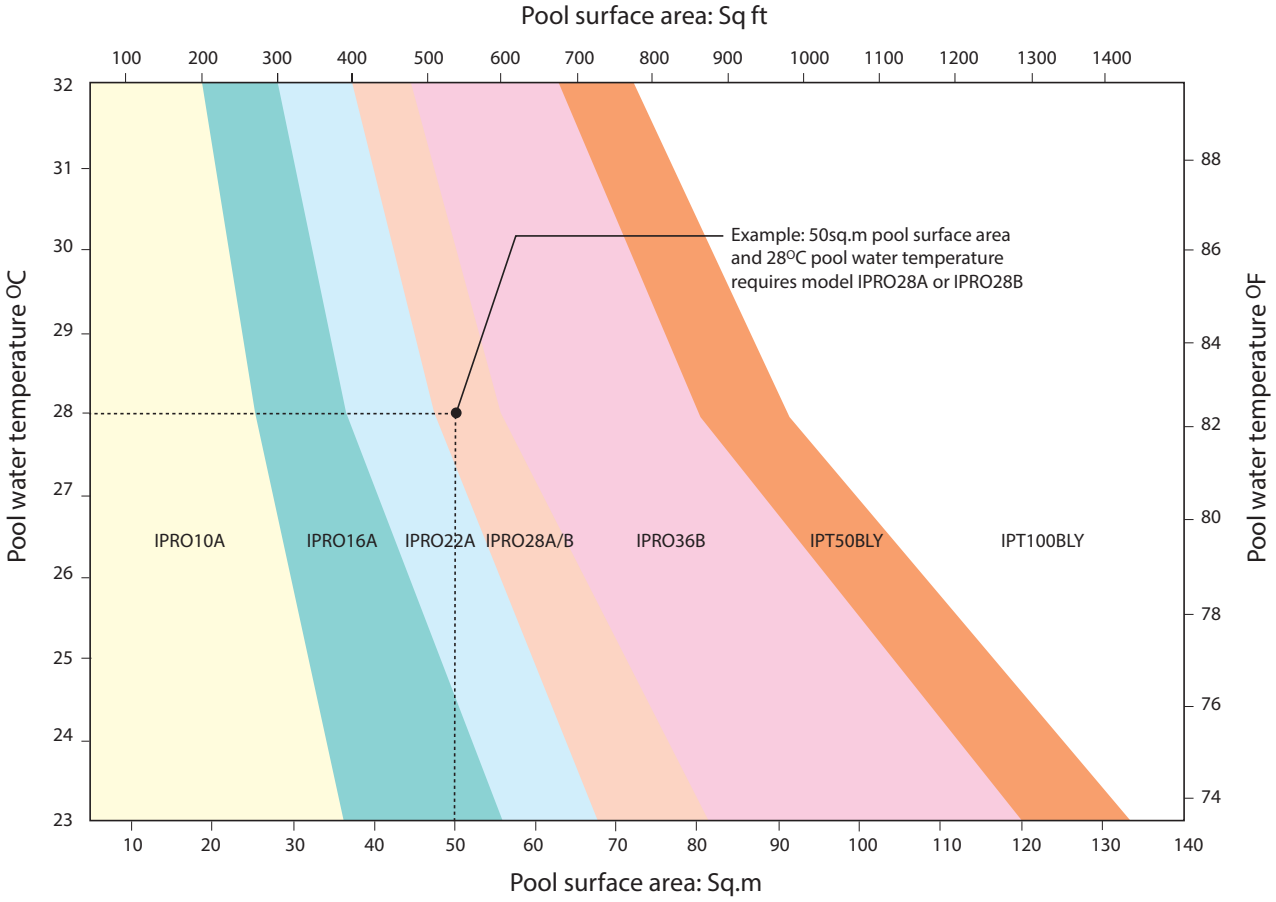
IPRO28A/B

IPRO36B

Example Domestic Pool Sizing Graphs



March - November Season (approx 38-40 weeks)



All Year Round

The sizing graphs shown on this page are for guidance only and assume the following UK conditions:

- Domestic pool (domestic usage).
- The entire pool is constructed in-ground.
- Ground water level is below pool construction.
- Insulated heat retention cover is used at least 20 hours per day.
- The average depth of water is 1.3m.
- Sheltered location.
- Heat pump is operating (running) 24/7.

Pool surface area refers to the total water area (e.g. inclusive of Roman ends / protruding steps / deck-level drains).

For sizing of equipment outside of these design parameters, please consult The H&V Division.

Note: This is a guide only

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Contact your Certikin stockist for prices and availability.

This literature is intended as a guide.
The company reserves the right to change the specifications without notice.