

**Installation of open air swimming pool and
erection of pool house Church View
Church Street
Dunmow
CM6 2AE**

Planning Approval ref UTT/23/2204HHF dated 15th November 2023

**Condition 3 - An Archaeological Programme of Trial Trenching
followed by Open Area Excavation**

- Attached Written Scheme of Investigation methodology document
- The resulting archaeological trenching report

Condition 4 - Details of all hard and soft landscaping and boundary treatments

Pool area paving

- Marshalls - Indian Sandstone - Riven Buff Multi Paving Slab 600 x 300 x 22 mm



Boundary fencing

- All existing boundary treatments to remain as existing
Refer to drawing 23/L/TOV/04A attached

COMPUTER AIDED DESIGN



Condition 5 - Noise assessment of the proposed mechanical plant to be and approved

- Garden Pac Invertech Heat Pumps with Wi-Fi for Swimming Pool
All as attached brochure and details

Condition 7 - Samples of materials for external finishes

Pool area paving

- Marshalls - Indian Sandstone - Riven Buff Multi Paving Slab 600 x 300 x 22 mm



Garden shed



Inverter+ Heat Pumps



Inverter+

HEAT PUMPS



Inverter+ HP is the 1st full-inverter pool HP, powered by full-inverter compressor & full inverter fan motor, which adjusts the compressor speed hertz by hertz, and the fan speed revolution by revolution. It matches pool intelligently with continuous & optimal efficiency. The Inverter+ HP allows the heating capacity from 25% to 100% automatically according to pool demand, but most of the time, it only runs by middle & low speed for maximum efficiency.



 **3 years general warranty**
5 years on heat exchanger and compressor

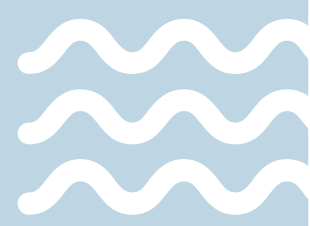
Model	Heating capacity A26/W26/ H80% (kW)	COP A26/W26/ H80%	Rated input power (kW)	Sound pressure @10m dB(A)	Advised pool volume (m ³)
Inverter+ 13,5 kW 230V	13.5-3.4	16.0-6.7	2.1-0.25	22.8-32.1	30-60
Inverter+ 17,5 kW 230V	17.5-4.4	16.1-6.6	2.5-0.33	24.2-32.9	40-75
Inverter+ 22 kW 230V	21.5-5.4	16.0-6.4	3.33-0.44	24.7-33.8	50-95
Inverter+ 28 kW 230V	28.2-7.1	16.2-6.6	4.0-0.58	28.6-35.5	65-120
Inverter+ 28 kW 400V	27.8-7.0	16.1-6.5	4.0-0.58	28.6-35.5	65-120

The pool volumes indicated, apply only under the following conditions: swimming pool covered with an insulated cover during the night. System is running at least 15 hours a day, heating in the period from 1 May to 15 September. If these conditions are not met, we kindly ask you to choose a larger model.

WHY PPG CHOOSES ...

Inverter+

- Revolutionary inverter technology
 - Extremely quiet operation
 - Prolonged operating life
- Minimalistic timeless design
- TUV approved specifications

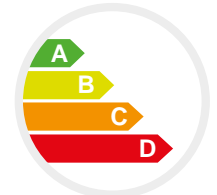
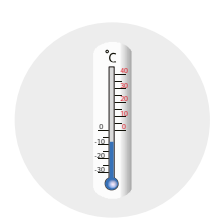
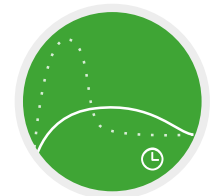




ADVANTAGES

- 1** 70% higher COP than Normal On/Off HP
50% higher COP than Normal Inverter HP
- 2** 10 Times Quieter
Inverter-plus HP adopts super quiet Mitsubishi inverter compressor and full-inverter ventilation system, which offers you a 10 times quieter swimming environment when maintaining the pool temperature.
- 3** Aluminum-alloy Casing
Classic Aluminum-alloy casing and hidden screws, simple outlooking, life-time anti-rusting.
- 4** Soft Starter
When Inverter-plus HP turns on, the current will start from 0 A and increase slowly to rated current in 2 minutes. It will not affect the house electricity system. While the start current of normal on/off HP is 5 times of rated current, it is a burden to the electricity system.
- 5** Operates Down To -7 Degrees °C
Inverter-plus HP is designed for air -7°C which can maximize your pool season.
- 6**  COP Classification is in accordance with F.P.P. France (based on directive N°10 of F.P.P.)

The heating capacity and COP (at Air 15°C/ Water 26°C/ Humidity 70%) of Fairland HPs are certified both by TÜV Rheinland and CETIAT France. They are in accordance with the European standard EN 14511 and the Technical Directive DTP No.10 issued by " Federation des Professionnels de la Piscine" (F.P.P.), France.
- 7** TUV Certified
TUV Certified Heating Capacity & Efficiency



Inverter+

HEAT PUMPS



Mitsubishi

INVERTER +

HOUSTON...WE'VE FOUND THE SOLUTION

INVERTER +, UNIQUE 100% INVERTER TECHNOLOGY



GardenPac Invertech Heat Pumps with Wi-Fi for Swimming Pool



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GardenPac Invertech Heat Pumps with Wi-Fi for Swimming Pool





1. Description

We offer the new range of Garden Pac Invertech inverter driven pool heat pumps

Inverter driven heat pumps allow the fan and compressor to be run at variable speeds from 25% to 100% depending on the load.

When initially turned on, the heat pump will run at 100% to bring the pool up to temperature.

Once the pool has reached the desired temperature, the inverter heat pump can then reduce and match its output to maintain the pool at the desired temperature.

The ability of the heat pump to be able to modulate its output to suit the demands of the pool can deliver significant cost savings.

2. Features

- Inverter technology – complete variable Speed. Not Stepped!
- Energy saving
- Extremely quiet operation – average noise is 10dB lower than normal on/off heat pumps
- Soft Start on all models
- Twin-rotary Mitsubishi DC Inverter insulated Compressor
- Can be used on both low & high flowrate systems
- Solid Block Heat Priority
- Works down to -7c
- Output certified by TUV in Germany
- Plastic anti-rusting case
- Excellent COPs – from 6.4 to 15.5 due to Inverter technology
- Digital control panel for increased accuracy
- Simple Operation
- R32
- Built in WiFi
- 7 Year Titanium Heat exchanger warranty
- 7 Year Compressor warranty

- 2 Years Parts Warranty
- Winter cover included
- 40 degrees capacity



3. Extremely Quiet Operation

The Inverter Plus heat pumps are extremely quiet in operation.

See the dB levels quoted in the table above

Garden PAC Inverter HP — The most silent HP ever

Garden PAC Inverter HP is powered by Full-inverter™ technology, which is 100% unique.

By adjusting the compressor speed hertz by hertz, and the fan speed by revolution. It matched the pool temperature intelligently with continuous & optimal efficiency.

Due to the low-speed-running philosophy, the swimming experience is 10 times quieter for more than 95% of the pool season.



➤ 10 times quieter



**In sound level calculation, 1 dB(A) difference means 1 time difference

4. What size heat pump do I require for my pool?

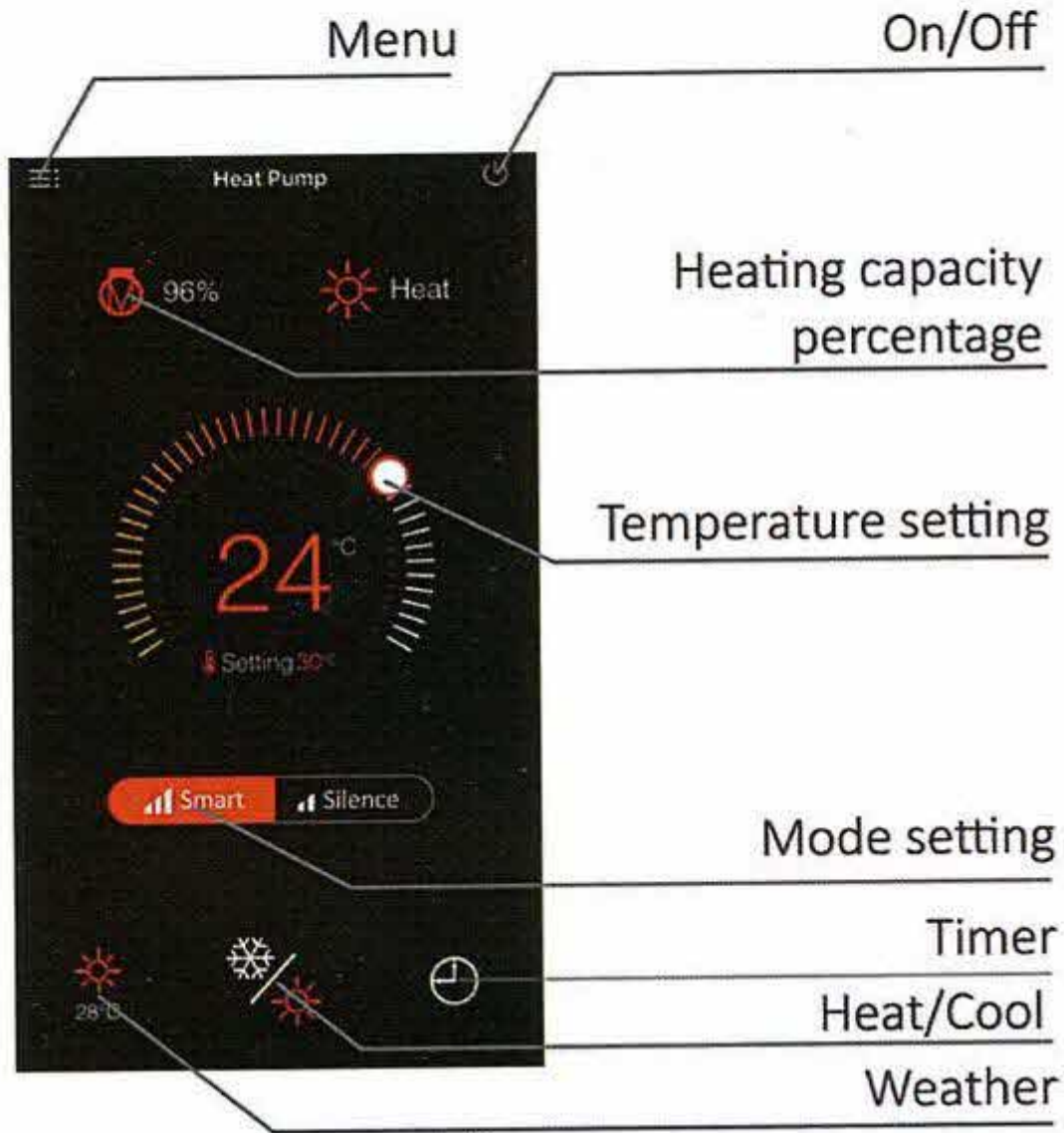
We have the following Garden Pac Invertech models available:-

Model	Max Power Output (Kw)	Max Pool Size (m3)
GHD-150-0326	10.3kw	20-40 m3
GHD-150-0327	12.8kw	30-60 m3
GHD-150-0328	15kw	35-67 m3
GHD-150-0329	17.3kw	40-75 m3
GHD-150-0330	20.4kw	50-95 m3
GHD-150-0331	27.3kw	65-120 m3
(3-Phase) – GHD-150-0332	27kw	65-120 m3

5. Wi-Fi Control

WiFi is built in on this heat pump and your heat pump can easily be operated by your phone app.





6. Specifications

Please Specifications tab at the top of the page

7. Winter Cover Included

The GardenPac pool heat pumps come with a basic winter cover



8. Optional Extras:

Heavy
Duty
Mounti
ng Feet



These heat pumps come with rubber mounting feet (picture to follow shortly).

Alternatively you can purchase these heavy duty Mounting Feet.

These raise the unit off the ground by approximately 100mm, and also help to reduce vibration.

Please see our [Mounting Feet and](#)

[Slabs](#) section for more information.

Bypass Kit



Please see our [Bypass Kits](#) section section for more information.

Winter Cover



The unit comes with a lightweight winter cover, however we offer a heavy duty cover which will give you added and extended protection against the winter weather

Please see our [Winter Cover](#) section section for more inform

9. Availability

These heat pumps are normally in stock

Delivery will be around 2-3 working days to a UK address.

We can deliver to anywhere in Europe. Please email your address for a shipping quote.

10. Installation

Installation is straightforward. We can provide advice on installing your heat pump. We can also offer an installation service if required.



Please see our [Installation](#) pages for photographs of examples of pool heat pump installations and also the [FAQ](#) pages for more information

11. Warranty

These Garden Pac Invertech heat pumps come with the following warranty:-


- 7 Year Titanium Heat exchanger warranty
- 7 Year Compressor warranty
- 2 Years Parts Warranty
- If a part is required, it will be sent to site free of charge. The customer is to pay for the labour charges to diagnose the fault and install the part(s)
- Alternatively, the customer can return the unit to the UK support centre for repair. The customer pays the transport cost to return it for repair. If the fault is a warranty issue, then the parts and labour are supplied free of charge, if it is not a warranty issue, then the repair and return transport cost will be charged to the customer.
- HeatPumps4Pools also have a network of engineers who can maintain or repair any heat pump
- Warranty subject to the unit being installed in accordance with manufacturer's instructions.

12. Technical Support

We are happy to provide technical support for all Garden Pac Invertech swimming pool heat pumps that we supply

13. Product Literature

Please click the links below to download pdf brochures

	<u>Garden Pac Invertech Brochure</u>
	<u>Garden Pac Invertech User Manual</u>
	<u>Garden Pac Invertech Wifi Installation Guide</u>

Please also see the Literature tab at the top of the page for the Brochure and User Manual downloads.

14. Assistance?