

**Dantherm**<sup>®</sup>  
CLIMATE SOLUTIONS



INVERTER HEAT PUMPS

## **HPP-i 8-12-16**

HEAT PUMPS FOR PRIVATE AND PUBLIC SWIMMING POOLS

DANTHERMGROUP

## DANTHERM HEAT PUMPS

# HEATING FOR OUTDOOR SWIMMING POOLS

Dantherm's new range of HPP-i inverter heat pumps are specifically designed for heating small and medium sized outdoor swimming pools and spas.



**HPP-i**

The low energy consumption coupled with high heat production makes the HPP-i heat pump an environmentally friendly way to heat your swimming pool.

Unlike alternative ways of heating pools, the HPP-i heat pump requires no fuel storage tank or high capacity electrical supply. It produces no smell, fumes or CO<sub>2</sub> gases.

HPP-i heat pumps are designed to work all year round when temperatures are above -5°C. Thus, the pool season can be extended for several months.

### Rapid installation, flexible operation

Dantherm HPP-i heat pumps are easy to install and fully self-contained units. When it comes to operation, the HPP-i units offer a quiet, high efficient, reliable, and safe performance.

### Features

- Inverter heat pump
- Average COP 9.7 = 2 x more efficient than on/off heat pumps
- Eco-friendly refrigerant R32 = 675 GWP, (Global Warming Potential)
- Increased range of performance ratings from 9.5 to 25kW
- 9-11 dB(A) sound reduction compared to an equivalent on/off heat pump, with 'Whisper Mode'
- Multifunction operation functions can be set to heating, heat/cool and cooling
- Soft start-up
- Aluminium alloy
- Built-in Wi-Fi module

### Options

- Remote LED control kit
- Winter protection cover



### Controls

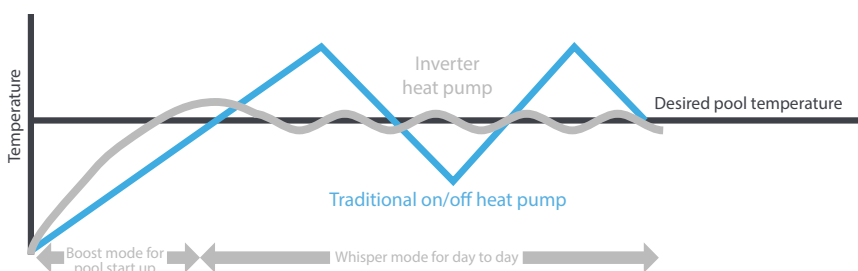
The HPP-i heat pump has an integrated controller with a touchscreen user interface.

The basic functions are:

- Function settings for: Heating, Cooling or Heat/Cool
- 24-hour time clock
- Timer ON/OFF
- Parameter adjustment



### Temperature control chart



# HEATING FOR OUTDOOR SWIMMING POOLS

## New refrigerant gas

With the introduction F-Gas regulations in Europe, our new heat pump will use the low Global Warming Potential (GWP) refrigerant R32.

This refrigerant:

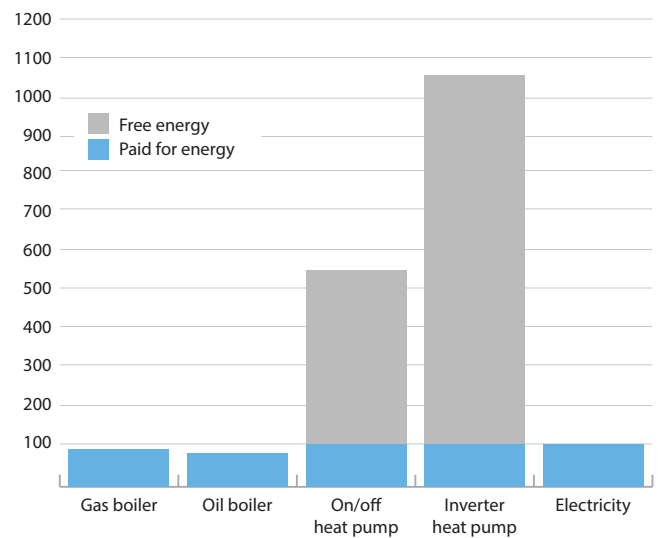
- Has a low GWP (675)
- Zero ozone depleting potential (ODP)
- Is F-Gas phase down compliant
- Requires less refrigerant volume per kW
- Is easier to reuse and recycle

## Applications

- Outdoor pools
- Private pools
- Spa pools
- Above ground pools
- Wellness centres
- Therapy pools



## Heating method efficiency chart



Great value, and environmentally conscious heating option, with energy consumption half that of a traditional on/off heat pump, and 1/10 of that for gas or electric pool heating.

Specifications	Units	HPP-i 8	HPP-i 12	HPP-i 16
Air temperature range	°C	-5-43	-5-43	-5-43
Water temperature range	°C	12-40	12-40	12-40
<b>Performance – air 27°C 80% RH, Water 27°C</b>				
Heating capacity	kW	9.5	13.0	20.0
COP range		13.2-5.4	13.5-5.6	13.5-5.7
Average COP at 50% speed		8.9	9.7	9.3
<b>Performance – air 15°C 70% RH, Water 26°C</b>				
Heating capacity	kW	7.0	9.5	13.5
<b>Performance @ air 5°C 70% RH, Water 10°C</b>				
Heating capacity	kW	4.1	5.6	7.9
<b>Performance – air 35°C 80% RH, Water 28°C</b>				
Cooling capacity	kW	3.9	5.2	7.4
Power supply	V/Hz	230/1ph/50	230/1ph/50	230/1ph/50
Rated input power	kW	0.3-1.79	0.40-2.38	0.57-3.21
Rated input current	A	1.38-7.58	1.82-10.80	2.60-14.61
Maximum input current	A	9.5	12.5	19.5
Water flow	m³/h	3.0-5.0	4.0-6.0	7.0-10.0
Water connection	mm²	1½" or 50mm	1½" or 50mm	1½" or 50mm
Compressor		Inverter	Inverter	Inverter
Condenser		Titanium	Titanium	Titanium
R32 gas weight	g	600	900	1100
Sound level @ 10m	dB(A)	19.6-31.5	21.9-32.0	24.3-36.1
Sound level @ 1m	dB(A)	39.6-51.5	41.9-52.0	44.3-56.1
Product size (w x d x h)	mm	864 x 359 x 648	864 x 359 x 648	954 x 359 x 748
Net Weight	kg	47	49	68

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