

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



INVERTER HEAT PUMPS

**HPP-iw 12-16-22-28**

HEAT PUMPS FOR PRIVATE AND PUBLIC SWIMMING POOLS

DANTHERMGROUP

## DANTHERM HEAT PUMPS

# HEATING FOR OUTDOOR SWIMMING POOLS

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



**HPP-iw**

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

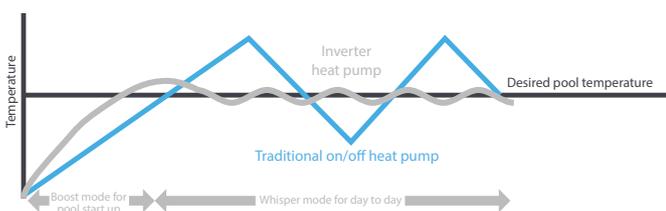
Unlike alternative ways of heating pools, the HPP-iw heat pump requires no fuel storage tank or high capacity electrical supply. It produces no smell, fumes or CO<sub>2</sub> gases.

HPP-iw heat pumps are designed to work all year round when temperatures are above -10°C. Thus, the pool season can be extended for several months.

### Rapid installation, flexible operation

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

### Temperature control chart



### Features

- Inverter heat pump
- Average COP 10.3 = 2 x more efficient than on/off heat pumps
- Eco-friendly refrigerant R32 = 675 GWP, (Global Warming Potential)
- Increased range of performance ratings from 15 to 36kW
- 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



### Benefits

- All year heating for outdoor and indoor pools
- Can operate down to -10°C ambient air temperature
- High heating performance at lower temperatures – ideal for quick pool heat up at the start of the season
- Pool heating at altitude
- Higher cooling capacity
- Most efficient models – highest COP

### Options

- Remote LED control kit
- Winter protection cover

### Controls

The HPP-iw 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



# 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:

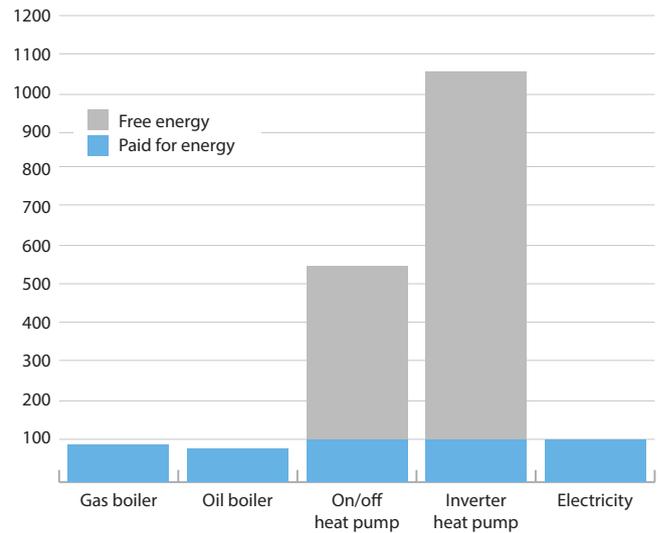
- Has a low GWP (675)
- Zero ozone depleting potential (ODP)
- Is F-Gas phase down compliant
- Requires less refrigerant volume per kW
- Is easier to reuse and recycle

## 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-iw 12	HPP-iw 16	HPP-iw 22	HPP-iw 28
Air temperature range	°C	-10-43	-10-43	-10-43	-10-43
Water temperature range	°C	12-40	12-40	12-40	12-40
<b>Performance – air 27°C 80% RH, Water 27°C</b>					
Heating capacity	kW	15.0	21.0	27.5	36.0
COP range		15.0-6.6	14.8-6.4	15.0-6.5	14.8-6.0
Average COP at 50% speed		10.6	10.3	10.3	10.2
<b>Performance – air 15°C 70% RH, Water 26°C</b>					
Heating capacity	kW	10.5	14.5	18.0	23.9
<b>Performance – air 5°C 70% RH, Water 10°C</b>					
Heating capacity	kW	7.5	9.6	11.9	16.0
<b>Performance – air -10°C 70% RH, Water 23°C</b>					
Heating capacity	kW	4.6	5.9	7.3	8.8
<b>Performance – air 35°C 80% RH, Water 28°C</b>					
Cooling capacity	kW	6.7	9.5	11.9	16.0
Power supply	V/Hz	230/1ph/50	400/3ph/50	400/3ph/50	400/3ph/50
Rated input power	kW	0.27-2.28	0.41-3.15	0.48-3.91	0.64-5.20
Maximum input current	A	13.5	5.8	9.5	0.92-7.53
Water flow	m <sup>3</sup> /h	5.0-7.0	8.0-10.0	10.0-12.0	12.0-18.0
Water connection	mm <sup>2</sup>	1½" or 50mm	1½" or 50mm	1½" or 50mm	1½" or 50mm
Compressor		Inverter	Inverter	Inverter	Inverter
Condenser		Titanium	Titanium	Titanium	Titanium
R32 gas weight	g	900	1200	2000	2700
Sound level @ 10m	dB(A)	20.8-24.5	20.4-33.7	23.0-34.4	22.1-34.2
Product size (w x d x h)	mm	954 x 359 x 648	954 x 429 x 755	1084 x 429 x 948	1154 x 539 x 948
Net Weight	kg	52	68	93	120

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