

PEARL INVERTER HEAT PUMPS

THE INTELLIGENT SWIMMING POOL HEAT PUMP

*provides
an effortless
heating
solution*


BWT CONNECT
INSIDE



R32 Refrigerant



Quiet Operation



Full Inverter



-10° Temp



25 Year Warranty*

bwt.com

BWT INVERTER HEAT PUMP & MANAGEMENT



The exclusive intelligent system integrated into the Pearl Inverter heat pump regulates the output in relation to the water temperature but also takes into consideration the outside air temperature. This guarantees heating performance at the best COP level and lowest noise level!

THE BWT INVERTER HEAT PUMPS HAVE 3 OPERATING MODES:



Mode MAX

Between 85% and 100% of the capacity in order to ensure a quick heating of your pool.



Mode ECO

Capacity and noise level are adjusted automatically depending on the ambient temperature and pool water temperature.



Mode SILENT

This mode uses 25% to 60% of the pump's capacity, the fan works at the minimal necessary speed to minimise noise level and the compressor prioritises the COP.*

* Depending on your pools heating needs, the Pearl will adapt its capacity automatically.

SIMPLIFIED OPERATION OF THE PEARL INVERTER HEAT PUMP IN ECO MODE

	Power	COP	Noise Levels
Cold air & cold water	High	Standard	Standard
Cold air & warm water	Average	Average	Low
Warm air & warm water	Minimum	Maximum	Minimum



AQUAVARIATION SOFTWARE

Choosing the right power for your heat pump means, above all, optimising your energy consumption, controlling your budget and maximising your enjoyment.

We have developed thermodynamic calculation software based on heat transfer equations to precisely determine the pool's thermal losses. This allows us to compare and choose the most suitable heat pump for your customer's pool.

Thanks to our Aquavariation software, we can also estimate the energy consumption of the selected heat pump.

Available only to approved dealers.

Features and benefits



SIMPLE AND INTUITIVE OPERATION

Colour digital touch screen.

Modes: Heating, Cooling and Automatic.



INTELLIGENT OPERATING MODE

The heat pump autoregulates its output depending on the water and air temperature.



LOW NOISE LEVELS

Noise reduction insulation on all panels and rotation speed of the compressor and fan automatically adjusts to reduce noise to the minimum.



CONNECTED SOLUTION

BWT Connect inside:
WiFi included.

Remote management with a smartphone and supervision by our TechniCenter.



25 Year Warranty*



EXCLUSIVE LOW TEMPERATURE SYSTEM

- Reverse-cycle defrosting.
- Preheating of the compressor housing.
- Antifreeze system for the evaporators condensation.
- Automatic piloting of the 'low temperature' system.

OPTIMAL PERFORMANCES



Optimal Twist: Titanium exchanger in PVC housing, efficient and corrosion resistant.



2D Technology: Inverter compressor, higher COP thanks to the Hz by Hz variable speed motor.



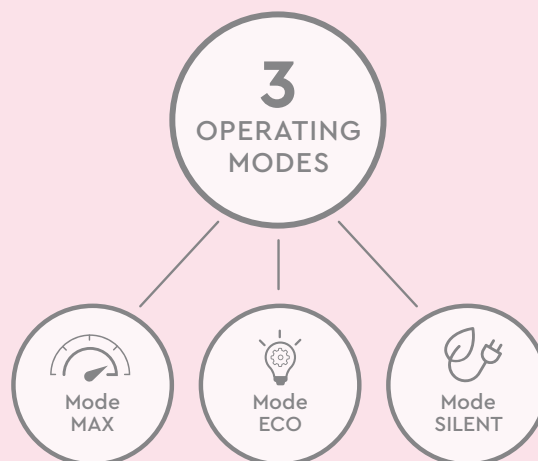
DC Brushless: Variable speed fan motor ensures optimal performances.

*heat exchanger titanium components only

BWT Smart Control: a sizeable asset

EXCLUSIVE REGULATION AND ENERGY SAVINGS

- **Optimization of the power required for maintaining the temperature of the pool** by cross-referencing air temperature with water temperature data.
- **Anticipation of the pool's energy needs** thanks to an advanced double-entry regulation.
- **An overall higher COP** during the season and **lower noise levels**.
- Inverter compressor with «oversized» exchangers = higher COP.
- Brushless variable speed fan = lower noise levels.
- Combination of the Inverter compressor and the brushless fan motor = **automatic regulation of the power when the pool does not require full power.**



HIGHER
COP

=



LOWER
electricity bill

+

LOWER
noise levels

=



BETTER
user comfort



BWT CONNECT

HEAT PUMP MANAGEMENT TOOL



THE CONNECTED SOLUTION FROM BWT FOR PROFESSIONALS AS WELL AS PRIVATE INDIVIDUALS.

More than just an ordinary heat pump management tool, BWT Connect allows for a direct link to the BWT Technicenter and enables **SECURE REMOTE MANAGEMENT** of our heat pumps: monitoring, preventative maintenance, and easy servicing.

The app in detail

BWT CONNECT IS A SECURE, FREE, AND USER-FRIENDLY APPLICATION

Thanks to an intuitive interface, it enables **remote control** of the heat pump via a smartphone or tablet: machine status, water temperature, external temperature, filter pump operation, heating temperature set point, operating mode selection, alarms, programming of operating ranges...

Temperature setpoint adjustment, temperature limit notification, warning message



Benefits for pool professionals



SIMPLIFIED INSTALLATION

A WiFi device is fitted as standard inside all our Inverter heat pumps and is easily accessible through a side panel. Simply connect the heat pump to the customer's WiFi network by scanning the QR code on the machine, entering the network security code and pressing the button on the WiFi device to pair.



PROACTIVITY

Thanks to error code feedback, the TechniCenter can remotely initiate an appropriate After Sales service procedure immediately, even before the pool user becomes aware of a possible issue or its consequences.



EXPERT ADVICE

The TechniCenter will be happy to **advise you on the efficient management of your swimming pools along with all the possible energy savings** for your customer.



REMOTE MANAGEMENT

A true preventative maintenance tool, the information is transmitted to our TechniCenter, which can then remotely anticipate problems, access the settings and adjust, optimise or even update the heat pump accordingly. The connection via Modbus **enables access to all the heat pump settings and allows for their modification in "direct mode"**.



EFFICIENCY

BWT Connect is linked to the BWT TechniCenter and provides our technicians with an overview of the line of connected systems as well as their individual status. In the event of an error code, they can access the device settings via their secure interface to resolve the fault. **There is no longer any need to send a technician to the installation** to check on the problem, collect basic information or make adjustments to the equipment.



Advantages for your customer

Thanks to the smartphone remote management application, your customer will have access to:



EASY TO USE

Access to technical documentation, video tutorials, operating manuals.



COMFORT

Access to all settings at any time.
(e.g.: heating your pool or changing the temperature while away from home)



ENERGY SAVINGS

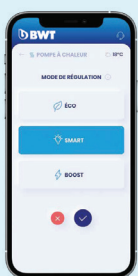
Possibility of real-time monitoring, correct operation and receipt of advice/scenario notifications.
(e.g.: "Don't forget to switch on your heat pump to benefit from this sunny weekend!")



SERENITY

Thanks to our BWT customer service specialists who monitor and provide real time remote technical diagnosis and intervention.

CONCLUSION: a functional and well-maintained pool at all times!



Mode selection



List of connected equipment

A MUST FOR YOUR CONNECTED CUSTOMERS WHO WANT FULL CONTROL OF THEIR DEVICES!

In order to ensure a complete follow-up, all the data collected from the systems connected with BWT Connect, is stored for five years:

- all alarm history
- internal temperature sensor probes
- the operating time of compressors, pumps, etc...
- user settings

BWT Connect was developed by our internal departments.

The application can be downloaded from the Apple Store or Google Play





Colour touch screen

A LARGE AND HIGHLY RESPONSIVE COLOUR TOUCH SCREEN

- High capacitive TFT **touch screen** and large size for **good readability**: L 72 x H 68 mm, 10.5 cm diagonal.
- Protected by a **layer of thermal toughened glass** to ensure **maximum resistance**.
- The transparent protective door protects the display from weather, dust and scratches. The screen and internal components are protected from damage.

Intuitive user interface

THE MULTILINGUAL CONTROL INTERFACE

Clear operations and intuitive navigation:



Access the 3 intuitive operating modes in a single touch.



Alarm messages, diagnostics and problem resolutions, hotline contact.



Access to the last 50 log-book events.



BWT Side Discharge Units

BWT also manufacture and sell a range of side discharge units. With their stylish European design and side discharge, the Pearl HPT range is perfect for any Australian pool.

The Pearl HPT range includes;

10kW | 13kW | 16kW | 20kW | 24kW | 28kW

Specifications

	BWT PEARL HPT 9	BWT PEARL HPT 12	BWT PEARL HPT 15	BWT PEARL HPT 18	BWT PEARL HPT 20
Recommended pool size (Nov to March with a cover)	35-45 m³	45-55 m³	55-70 m³	70-85 m³	85-105 m³

PERFORMANCE

Capacity in MAX mode	Air 26° Water 26° 80% HR	9.5 kW	12.8 kW	15.3 kW	18.2 kW	20.1 kW
COP MAX mode		6.3	6.2	6.3	6.2	6.1
Capacity in ECO mode		9.5 ~ 3.2 kW	12.8 ~ 3.5 kW	15.3 ~ 3.9 kW	18.2 ~ 4.2 kW	20.1 ~ 5.5 kW
COP ECO mode		10.8 ~ 6.3	10.8 ~ 6.2	10.8 ~ 6.3	11.2 ~ 6.2	10.8 ~ 6.1
Capacity in SILENT mode		3.2 kW	3.5 kW	3.9 kW	4.2 kW	5.5 kW
COP SILENT mode		10.8	10.8	10.8	11.2	10.8
Capacity in MAX mode	Air 15° Water 26° 70% HR	6.9 kW	9.1 kW	11.0 Kw	12.7 kW	14.5 kW
COP MAX mode		4.7	4.6	4.7	4.6	4.5
Capacity in ECO mode		6.9 ~ 3.5 kW	9.1 ~ 3.9 kW	11.0 ~ 5.0 kW	12.7 ~ 7.1 kW	14.5 ~ 7.0 kW
COP ECO mode		6.6 ~ 4.7	7.8 ~ 4.6	7.7 ~ 4.7	7.9 ~ 4.6	7.9 ~ 4.5
Capacity in SILENT mode		3.5 kW	3.9 kW	5.0 kW	7.1 kW	7.0 kW
COP SILENT		6.4	6.6	6.5	6.6	6.6
Noise level in minio-maxi (at 10m) <small>according to EN ISO 3744:2010</small>		19 ~ 28 dB(a)	20 ~ 29 dB(a)	21 ~ 30 dB(a)	22 ~ 31 dB(a)	23 ~ 32 dB(a)
Operating temperature	-10°C -> 38°C					

COMPONENTS

Compressor type	2D Technology Full DC
Expansion valve	Electronic
Heat Exchanger	Optimal Twist
Casing	ABS treated against UV
Refrigerant	R32

INSTALLATION

Water connection	1.5" / 40 mm				
Power	230V / 1~N / 50 Hz				
Nominal current (Maximum Current)	6.0 A (9 A)	7.9 A (13.0 A)	9.8 A (14.0 A)	11.5 A (16.0 A)	14.2 A (17.0 A)
Protection and cable size (20m)	C 10 A (3G2.5 mm ²)	C 16 A (3G2.5 mm ²)	C 20 A (3G4 mm ²)	C 25 A (3G4 mm ²)	C 25 A (3G4 mm ²)
Max power input (Air 26°)	1.9 kW	2.6 kW	2.9 kW	3.8 kW	4.2 kW
Cooling Capacity	7.7 kW	10.2 kW	12.4 kW	14.4 kW	15.9 kW
Water flow	3 m ³ /h	4 m ³ /h	5 m ³ /h	5 m ³ /h	6 m ³ /h
Dimensions (L x W x H)	Diametre 680 mm x 775 mm				
Weight net (gross)	45 kg (65 kg)	47 kg (69 kg)	49 kg (70kg)	57 kg (76 kg)	59 kg (76 kg)

INCLUDED WITH THE HEAT PUMP

- Connector for condensate water evacuation
- Hydraulic connectors
- Winter cover





25 Year Warranty*

WARRANTY

25 Year heat exchanger* – this warranty is only on the titanium components of the heat exchanger

10 Year compressor*

5 Year parts

1 Year on site labour



-10° Temp

The Pearl front discharge inverter units have an operating range as low as minus 15 degrees.



Quiet Operation

SUPER QUIET

The BWT Pearl Inverter Heat Pump allows you to control your pool heating in silence. The heat pump guarantees you a high COP for a minimal noise level. BWT's inverter technology automatically adjusts the speed of the compressor and fan to your pool heating requirements and the weather conditions. BWT's Pearl Inverter heat pumps give you the best of all worlds with the finest performance levels and the lowest noise levels.

Sizing to meet all domestic requirements.



Full Inverter

BENEFITS OF A HEAT PUMP

A BWT Pearl Inverter heat pump will extend your swimming time and maximise your pool usage. In parts of Australia, it may allow you to swim all year round. A BWT Inverter Heat Pump will enable your pool to stay at a consistent temperature to ensure it is comfortable to swim in. Our Inverter Technology gives the Pearl units increased efficiency reducing energy bills and are environmentally friendly.



Built For Australia

BUILT FOR AUSTRALIA

The BWT Pearl Inverter heat pump is built for Australian conditions with our titanium heat exchanger installed in purpose-built PVC housing making it resistant to corrosion. Irrespective of the location from the tropical north to the outback the BWT Pearl Heat Pump casing guarantees maximum life.



Heating/Cooling

HEATING AND COOLING OPTIONS

The Pearl Inverter series can also cool your pool water, ideal for tropical regions as your pool water can be cooled to the ideal temperature for swimming as well.



R32 Refrigerant

COMMITMENT TO ENVIRONMENTAL SUSTAINABILITY

One of the biggest milestones in refrigeration has been the development of R32. This refrigerant has a global warming impact that is 1/3 lower than previous mainstream refrigerants.

*Any damage to the heat exchanger caused by incorrect water chemistry is not covered by warranty. 25-year warranty for the heat exchanger & 10-year warranty for the compressor is for the original purchaser only. Standard heat exchanger and compressor warranty is 5 years.



Lincoln
pool equipment

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