



PEARL INVERTER HEAT PUMPS

# PEARL HPT POOL HEAT PUMP

THE INTELLIGENT TOP DISCHARGE UNIT  
SWIMMING POOL  
HEAT PUMP



Effortless  
heating!



# 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\*



## 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

*excellence inside!*

# 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

|  | 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 m <sup>3</sup>            | 45-55 m <sup>3</sup>            | 55-70 m <sup>3</sup>          | 70-85 m <sup>3</sup>          | 85-105 m <sup>3</sup>         |
| <b>PERFORMANCE</b>   |                                 |                                 |                               |                               |                               |
| Capacity in MAX mode   | 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   | 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) according to EN ISO 3744:2010 | 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                    |                                 |                               |                               |                               |
| <b>COMPONENTS</b>  |                                 |                                 |                               |                               |                               |
| Compressor type  | 2D Technology Full DC           |                                 |                               |                               |                               |
| Expansion valve  | Electronic                      |                                 |                               |                               |                               |
| Heat Exchanger   | Optimal Twist                   |                                 |                               |                               |                               |
| Casing   | ABS treated against UV          |                                 |                               |                               |                               |
| Refrigerant  | R32                             |                                 |                               |                               |                               |
| <b>INSTALLATION</b>  |                                 |                                 |                               |                               |                               |
| 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 <sup>2</sup> ) | C 16 A (3G2.5 mm <sup>2</sup> ) | C 20 A (3G4 mm <sup>2</sup> ) | C 25 A (3G4 mm <sup>2</sup> ) | C 25 A (3G4 mm <sup>2</sup> ) |
| 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 <sup>3</sup> /h             | 4 m <sup>3</sup> /h             | 5 m <sup>3</sup> /h           | 5 m <sup>3</sup> /h           | 6 m <sup>3</sup> /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)                 |