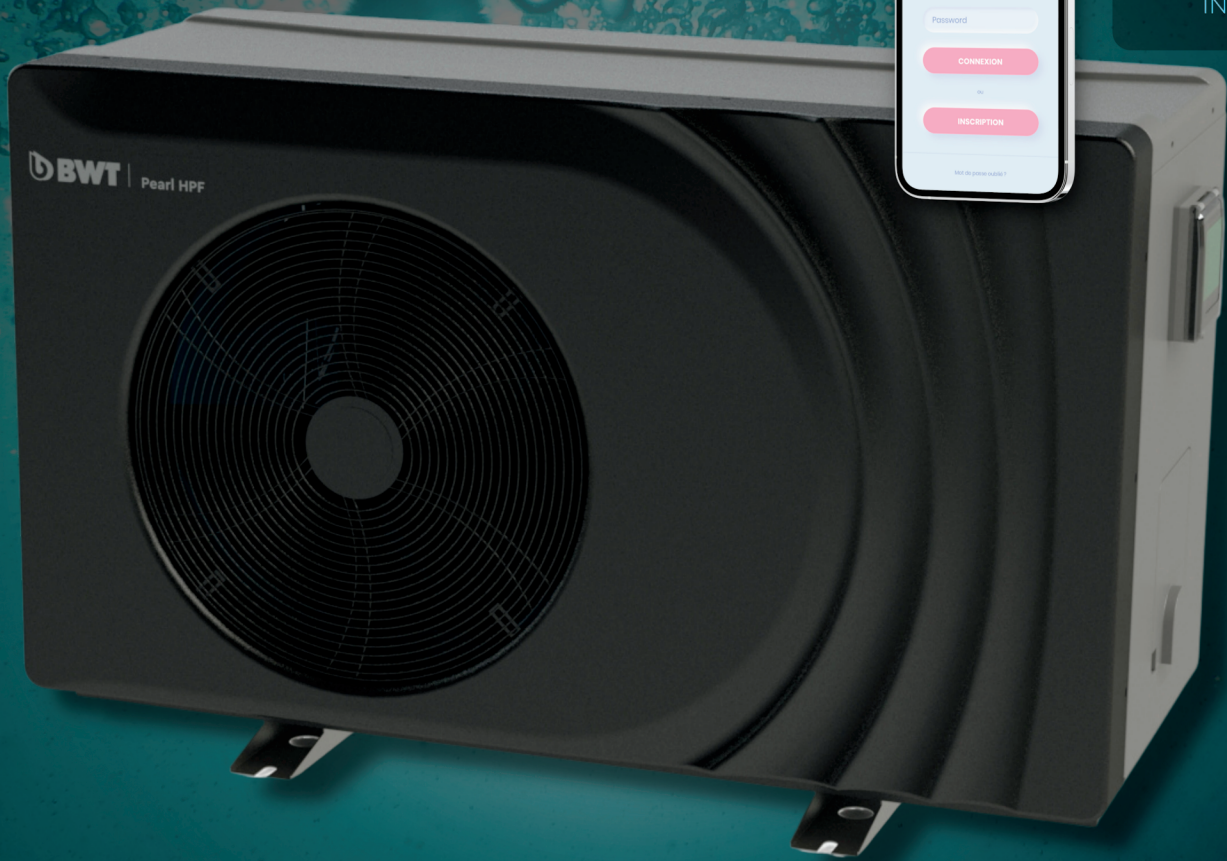




PEARL INVERTER HEAT PUMPS

# PEARL HPF POOL HEAT PUMP

THE INTELLIGENT SIDE 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\*



## 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 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.



excellence inside!

HIGHER COP = LOWER electricity bill



LOWER noise levels = BETTER user comfort

# 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 HPF 10	BWT PEARL HPF 13	BWT PEARL HPF 16	BWT PEARL HPF 20	BWT PEARL HPF 24	BWT PEARL HPF 27
Recommended pool size (Nov to March with a cover)	45-55 m³	55-70 m³	70-85 m³	85-105 m³	105-130 m³	130-160 m³
<b>PERFORMANCE</b>						
Capacity in MAX Mode	10.6 kW	13.1 kW	16.1 kW	20.4 kW	24.2 kW	27.8 kW
COP MAX Mode	5.4	5.6	5.1	5.2	5.4	5.2
Capacity in ECO Mode	10.6 ~ 3.9 kW	13.1 ~ 4.2 kW	16.1 ~ 5.5 kW	20.4 ~ 6.5 kW	24.2 ~ 7.8 kW	27.8 ~ 10.5 kW
COP ECO Mode	10.8 ~ 5.4	11.2 ~ 5.6	10.8 ~ 5.1	10.1 ~ 5.2	10.8 ~ 5.4	10.1 ~ 5.2
Capacity in SILENT	3.9 kW	4.2 kW	5.5 kW	6.5 kW	7.8 kW	10.5 kW
COP SILENT	10.8	11.2	10.8	10.1	10.8	10.1
Capacity in MAX Mode	7.8 kW	9.8 kW	11.5 kW	14.8 kW	18.2 kW	22.8 kW
COP MAX Mode	5.2	4.7	4.4	4.5	4.4	4.2
Capacity in ECO Mode	7.8 ~ 3.5 kW	9.8 ~ 3.7 kW	11.5 ~ 4.2 kW	14.8 ~ 4.9 kW	18.2 ~ 6.8 kW	22.8 ~ 8.1 kW
COP ECO Mode	7.1 ~ 5.2	7.0 ~ 4.7	6.7 ~ 4.4	6.6 ~ 4.5	6.7 ~ 4.4	6.5 ~ 4.2
Capacity in SILENT	3.5 kW	3.7 kW	4.2 kW	4.9 kW	6.8 kW	8.1 kW
COP SILENT	7.1	7.0	6.7	6.6	6.7	6.5
Noise level mini-maxi (at 10m) according to EN ISO 3744:2010	23 ~ 26 dB(a)	23 ~ 28 dB(a)	25 ~ 30 dB(a)	25 ~ 30 dB(a)	26 ~ 31 dB(a)	26 ~ 32 dB(a)
Operating temperature	-15°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)	6.4 A (8.8 A)	8.3 A (12 A)	11.5 A (15.3 A)	14.3 A (16 A)	23.0 A (25.0 A)	28.0 A (30.0 A)
Protection and cable size (20m)	C 16 A (3G2.5mm²)	C 16 A (3G2.5mm²)	C 20 A (3G4mm²)	C 20 A (3G4mm²)	C25 A (3G4mm²)	C 32 A (3G4mm²)
Max power input (Air 26°C)	2.0 kW	2.3 kW	3.2 kW	3.9 kW	4.5 kW	5.3 kW
Cooling Capacity	8.6 kW	10.8 kW	13.0 kW	16.5 kW	19.7 kW	22.5 kW
Water flow	3 m³/h	4 m³/h	5 m³/h	6 m³/h	8 m³/h	10 m³/h
Water pressure drop	64 kPa		66 kPa		77 kPa	
Dimensions	980 × 419 × 584 mm		1080 × 479 × 707 mm		1178 × 525 × 569 mm	
Weight net (gross)	46 kg (58 kg)	48 kg (59 kg)	62 kg (72 kg)	63 kg (80 kg)	93 kg (111 kg)	94 kg (111 kg)