HPP 6 SWIMMING POOL HEAT PUMP

Function

The HPP 6 is a heat pump especially designed for heating of small and medium sized outdoor pools and spa.

In a HPP 6 pool heat pump hot refrigerant passes through a condenser coil with pool water and the hot refrigerant gives up its heat to the cooler pool water. The heated pool water circulates back to the pool and the now cold refrigerant returns to its former liquid state. The liquid refrigerant passes through an expansion valve and then through an evaporator where it is heated by energy extracted from the warm ambient air. Now the preheated refrigerant is ready to be compressed and the whole process starts all over again.

The HPP heat pump features a 'smart' pool pump control. The control tells the pump to start if heat is required, thus overriding the timer. A pressure gauge shows if there is sufficient refrigerant in the system.

The HPP 6 can operate from 3°C outside air temperatures. In this way the pool season can be extended for several months.

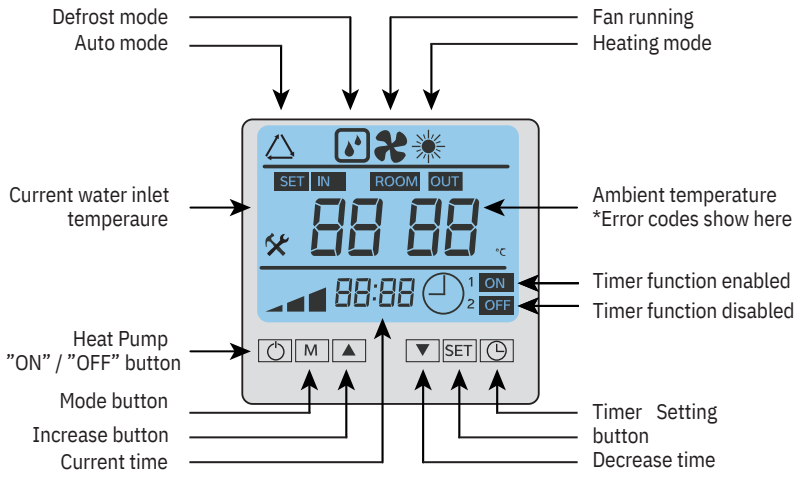
Applications

- Outdoor pools and spa
- Fresh water pools
- Salt water pools (up to 3% salt)
- Therapy pools

FEATURES

- Low sound level
- Nice design
- High efficiency titanium heat exchanger
- ABS cabinet
- 'Smart' pool pump control
- Water flow switch
- Pressure gauge

CONTROL



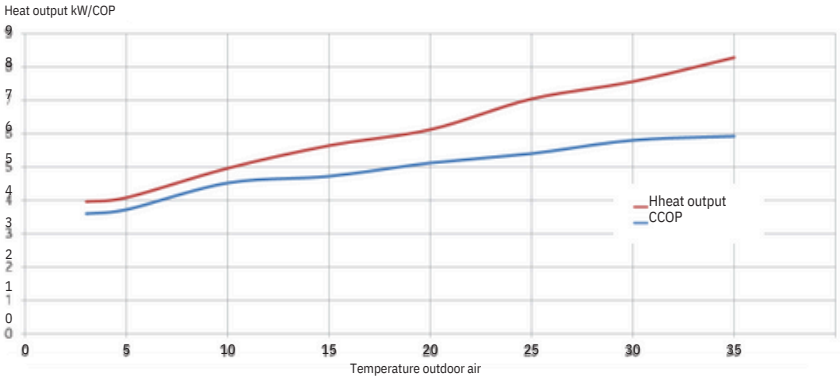
Accessories
Winter protection cover

TECHNICAL DATA

Model	HPP 6
Operating range – air temperature	3-35°C
Operating range – water temperature	15-40°C
Max. power consumption, nominal*	1,5 kW
Max. ampere consumption, nominal	6,5 A
Nominal air flow +/- 10%	2.200 m3/h
Nominal water flow +/- 10%	3.000 l/h
Power supply	230 V/50 Hz
Sound level (3 m distance)	< 37 dB(A)
Protection class	IPX4
Material - cabinet	ABS
Colour - cabinet	Merlin Grey RAL 1804005
Material - heat exchanger	Titanium
Refrigerant	R410a
Compressor type	Rotary
Weight, net	51 kg
GWP	2088

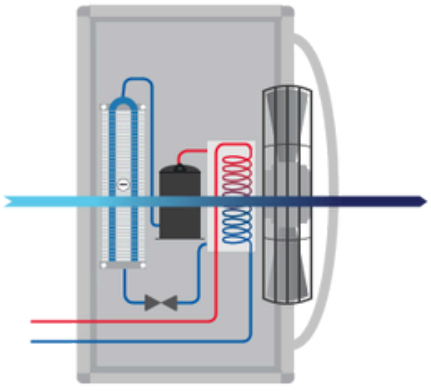
*Water temperature 32°C and outside condition 30°C, 45% RH.

CAPACITY CURVES

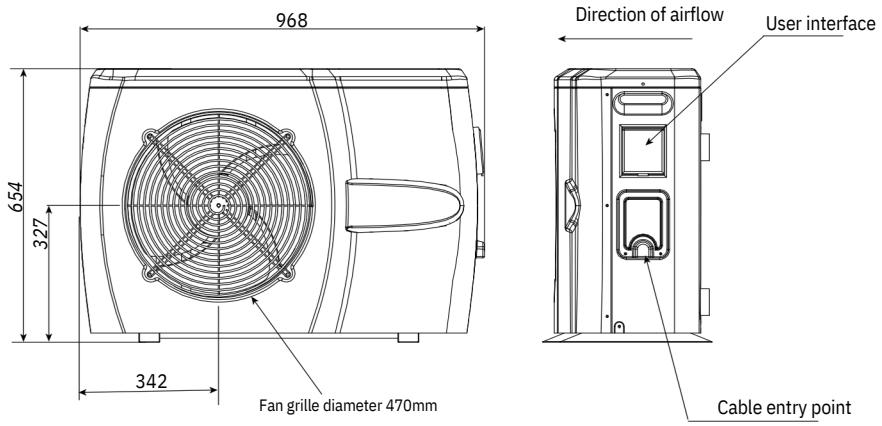


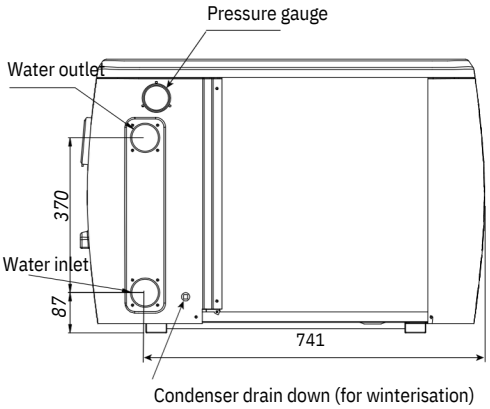
The curve is based on water temperature = 26°C and different outdoor temperatures are given at typical corresponding RH values.

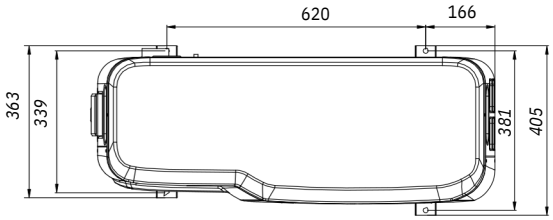
HPP HEAT PUMP WORKING PRINCIPLE



DIMENSIONS


968
654
327
342
Fan grille diameter 470mm
Direction of airflow
User interface
Cable entry point


Pressure gauge
Water outlet
370
Water inlet
87
741
Condenser drain down (for winterisation)


620
166
363
339
381
405

HPP 8 SWIMMING POOL HEAT PUMP

Function

The HPP 8 is a heat pump especially designed for heating of small and medium sized outdoor pools and spa.

In a HPP 8 pool heat pump hot refrigerant passes through a condenser coil with pool water and the hot refrigerant gives up its heat to the cooler pool water. The heated pool water circulates back to the pool and the now cold refrigerant returns to its former liquid state. The liquid refrigerant passes through an expansion valve and then through an evaporator where it is heated by energy extracted from the warm ambient air. Now the preheated refrigerant is ready to be compressed and the whole process starts all over again.

The HPP heat pump features a 'smart' pool pump control. The control tells the pump to start if heat is required, thus overriding the timer. A pressure gauge shows if there is sufficient refrigerant in the system.

The HPP 8 can operate from 3°C outside air temperatures. In this way the pool season can be extended for several months.

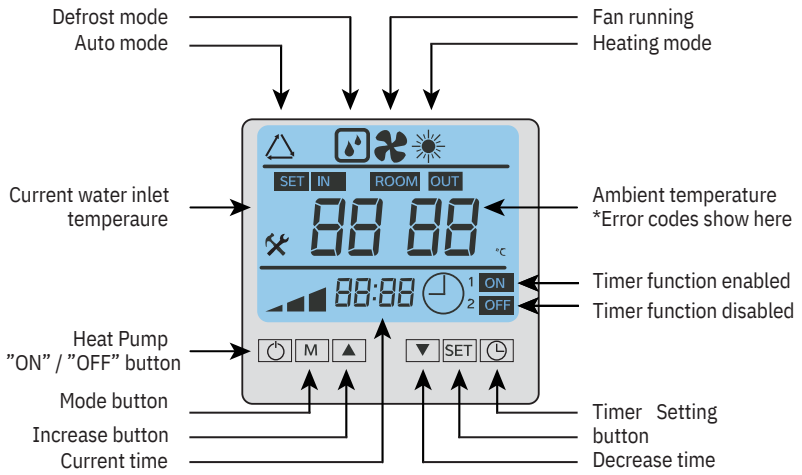
Applications

- Outdoor pools and spa
- Fresh water pools
- Salt water pools (up to 3% salt)
- Therapy pools

FEATURES

- Low sound level
- Nice design
- High efficiency titanium heat exchanger
- ABS cabinet
- 'Smart' pool pump control
- Water flow switch
- Pressure gauge

CONTROL



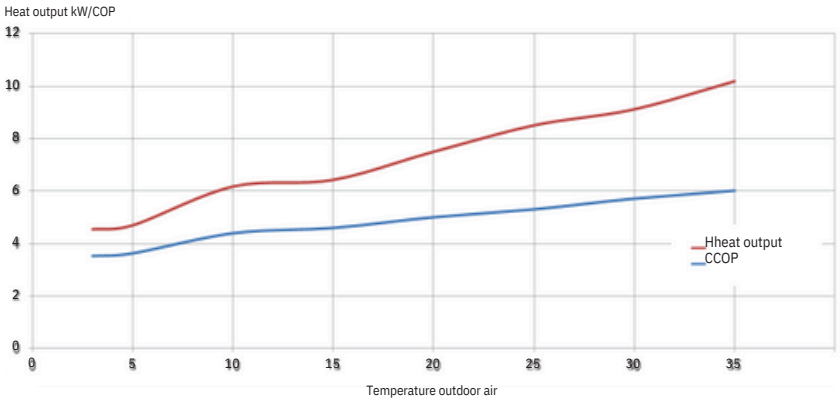
Accessories
Winter protection cover

TECHNICAL DATA

Model	HPP 8
Operating range – air temperature	3-35°C
Operating range – water temperature	15-40°C
Max. power consumption, nominal*	1,8 kW
Max. ampere consumption, nominal	7,8 A
Nominal air flow +/- 10 %	2.000 m3/h
Nominal water flow +/- 10 %	4.200 l/h
Power supply	230 V/50 Hz
Sound level (3 m distance)	< 38 dB(A)
Protection class	IPX4
Material - cabinet	ABS
Colour - cabinet	Merlin Grey RAL 1804005
Material - heat exchanger	Titanium
Refrigerant	R410a
Compressor type	Rotary
Weight, net	53 kg
GWP	2088

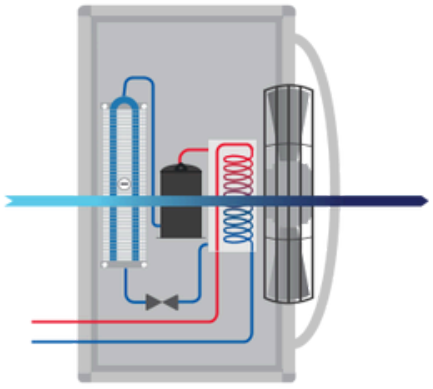
*Water temperature 32°C and outside condition 30°C, 45% RH.

CAPACITY CURVES

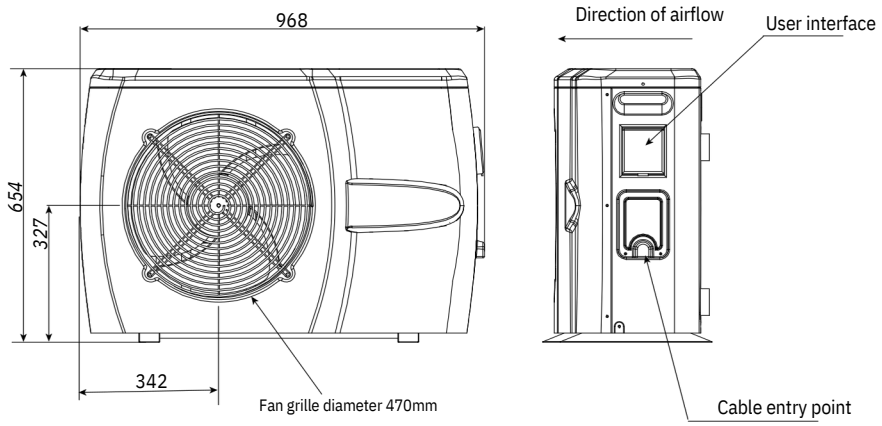


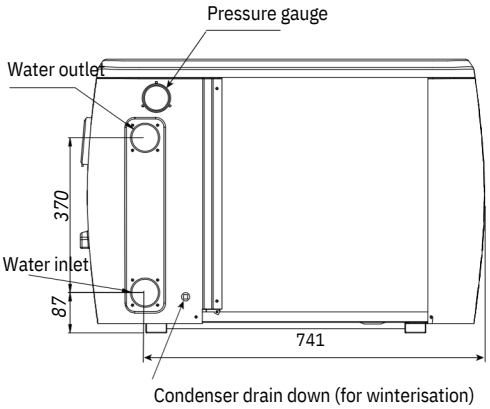
The curve is based on water temperature = 26°C and different outdoor temperatures are given at typical corresponding RH values.

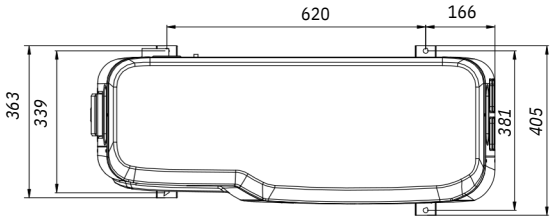
HPP HEAT PUMP WORKING PRINCIPLE



DIMENSIONS


968
654
327
342
Fan grille diameter 470mm
Direction of airflow
User interface
Cable entry point


Pressure gauge
Water outlet
370
Water inlet
87
741
Condenser drain down (for winterisation)


620
166
363
339
381
405

HPP 12 SWIMMING POOL HEAT PUMP

Function

The HPP 12 is a heat pump especially designed for heating of small and medium sized outdoor pools and spa.

In a HPP 12 pool heat pump hot refrigerant passes through a condenser coil with pool water and the hot refrigerant gives up its heat to the cooler pool water. The heated pool water circulates back to the pool and the now cold refrigerant returns to its former liquid state. The liquid refrigerant passes through an expansion valve and then through an evaporator where it is heated by energy extracted from the warm ambient air. Now the preheated refrigerant is ready to be compressed and the whole process starts all over again.

The HPP heat pump features a 'smart' pool pump control. The control tells the pump to start if heat is required, thus overriding the timer. A pressure gauge shows if there is sufficient refrigerant in the system.

The HPP 12 can operate from 3°C outside air temperatures. In this way the pool season can be extended for several months.

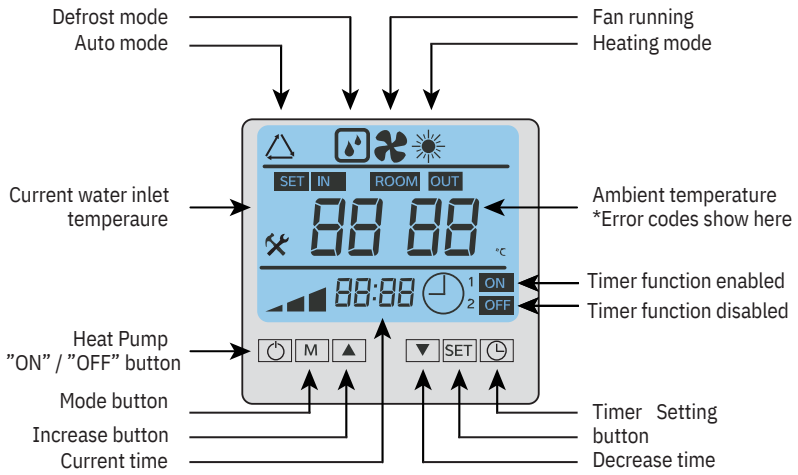
Applications

- Outdoor pools and spa
- Fresh water pools
- Salt water pools (up to 3% salt)
- Therapy pools

FEATURES

- Low sound level
- Nice design
- High efficiency titanium heat exchanger
- ABS cabinet
- 'Smart' pool pump control
- Water flow switch
- Pressure gauge

CONTROL



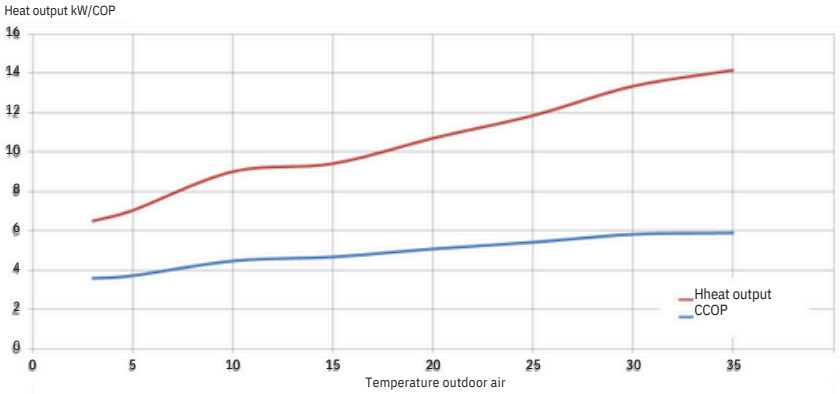
Accessories
Winter protection cover

TECHNICAL DATA

Model	HPP 12
Operating range – air temperature	3-35°C
Operating range – water temperature	15-40°C
Max. power consumption, nominal*	2,6 kW
Max. ampere consumption, nominal	10,9 A
Nominal air flow +/- 10%	3.900 m3/h
Nominal water flow +/- 10%	6.300 l/h
Power supply	230 V/50 Hz
Sound level (3 m distance)	< 39 dB(A)
Protection class	IPX4
Material - cabinet	ABS
Colour - cabinet	Merlin Grey RAL 1804005
Material - heat exchanger	Titanium
Refrigerant	R410a
Compressor type	Rotary
Weight, net	72 kg
GWP	2088

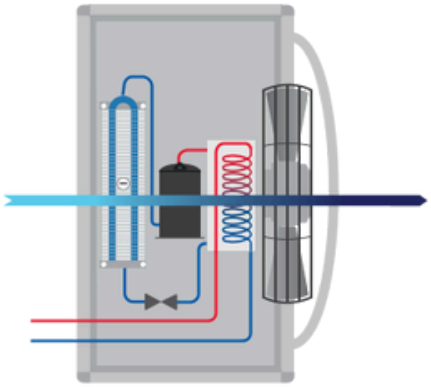
*Water temperature 32°C and outside condition 30°C, 45% RH.

CAPACITY CURVES

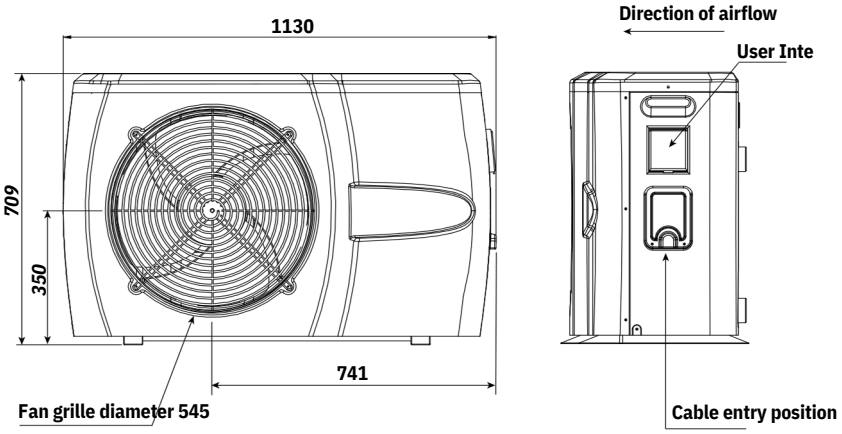


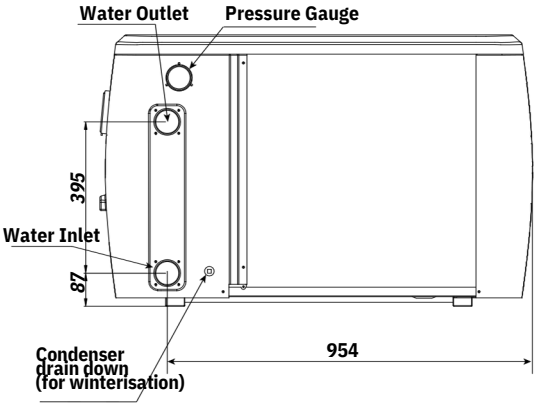
The curve is based on water temperature = 26°C and different outdoor temperatures are given at typical corresponding RH values.

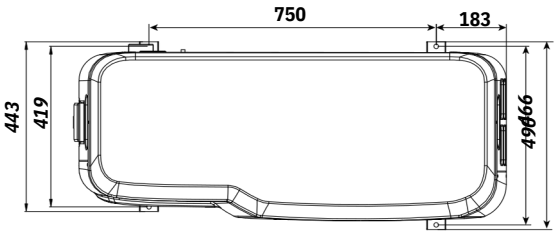
HPP HEAT PUMP WORKING PRINCIPLE



DIMENSIONS


1130
709
350
741
Fan grille diameter 545
Direction of airflow
User Inte
Cable entry position


Water Outlet
Pressure Gauge
395
Water Inlet
87
954
Condenser
drain down
(for winterisation)


750
183
443
419
466

HPP 15 SWIMMING POOL HEAT PUMP

Function

The HPP 15 is a heat pump especially designed for heating of small and medium sized outdoor pools and spa.

In a HPP 15 pool heat pump hot refrigerant passes through a condenser coil with pool water and the hot refrigerant gives up its heat to the cooler pool water. The heated pool water circulates back to the pool and the now cold refrigerant returns to its former liquid state. The liquid refrigerant passes through an expansion valve and then through an evaporator where it is heated by energy extracted from the warm ambient air. Now the preheated refrigerant is ready to be compressed and the whole process starts all over again.

The HPP heat pump features a 'smart' pool pump control. The control tells the pump to start if heat is required, thus overriding the timer. A pressure gauge shows if there is sufficient refrigerant in the system.

The HPP 15 can operate from 3°C outside air temperatures. In this way the pool season can be extended for several months.

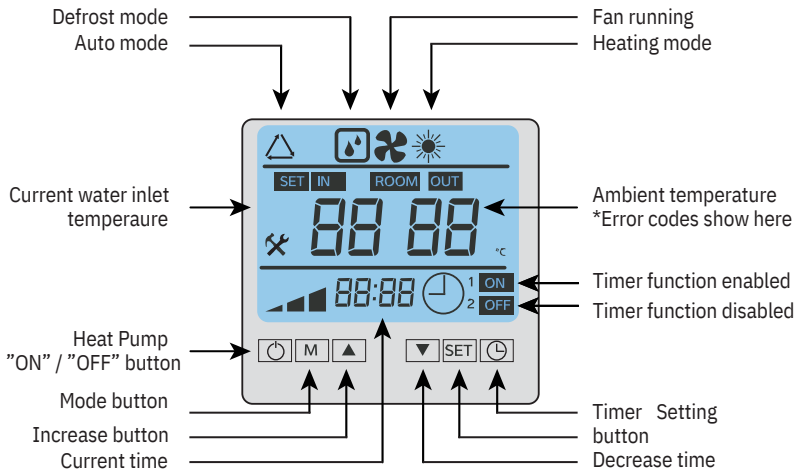
Applications

- Outdoor pools and spa
- Fresh water pools
- Salt water pools (up to 3% salt)
- Therapy pools

FEATURES

- Low sound level
- Nice design
- High efficiency titanium heat exchanger
- ABS cabinet
- 'Smart' pool pump control
- Water flow switch
- Pressure gauge

CONTROL



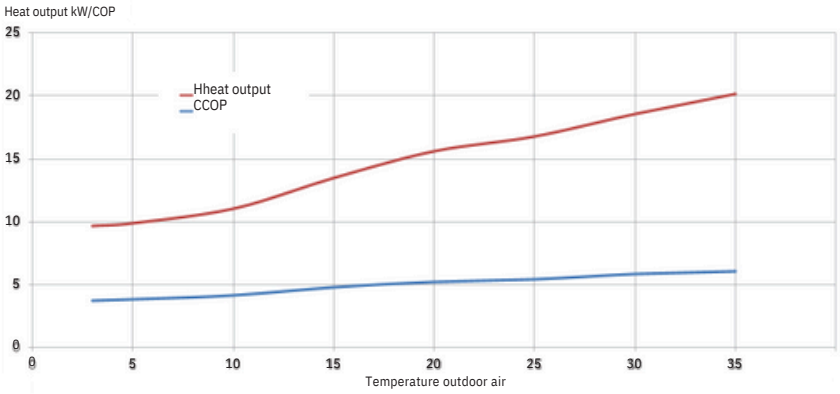
Accessories
Winter protection cover

TECHNICAL DATA

Model	**HPP 15**
Operating range – air temperature	3-35°C
Operating range – water temperature	15-40°C
Max. power consumption, nominal*	3,6 kW
Max. ampere consumption, nominal	15,6 A
Nominal air flow +/- 10 %	3.800 m3/h
Nominal water flow +/- 10 %	7.200 l/h
Power supply	230 V/50 Hz
Sound level (3 m distance)	< 39 dB(A)
Protection class	IPX4
Material - cabinet	ABS
Colour - cabinet	Merlin Grey RAL 1804005
Material - heat exchanger	Titanium
Refrigerant	R410a
Compressor type	Scroll
Weight, net	93 kg
GWP	2088

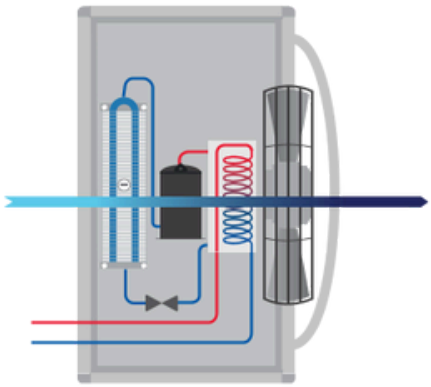
*Water temperature 32°C and outside condition 30°C, 45% RH.

CAPACITY CURVES

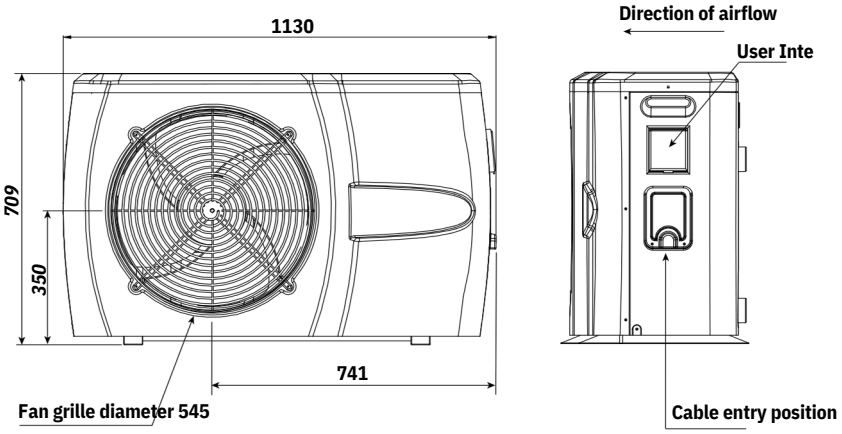


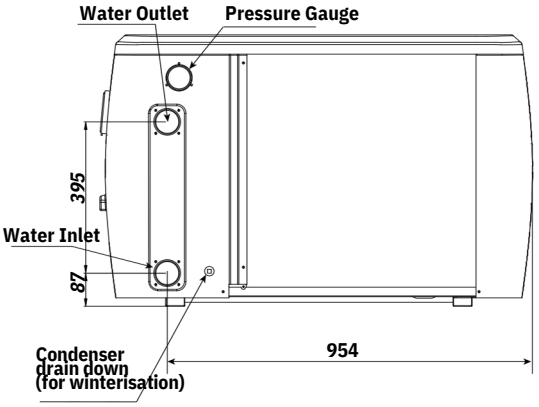
The curve is based on water temperature = 26°C and different outdoor temperatures are given at typical corresponding RH values.

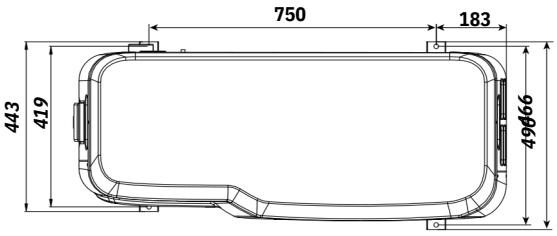
HPP HEAT PUMP WORKING PRINCIPLE



DIMENSIONS


1130
709
350
741
Fan grille diameter 545
Direction of airflow
User Inte
Cable entry position


Water Outlet
Pressure Gauge
395
Water Inlet
87
954
Condenser
drain down
(for winterisation)


750
183
443
419
466

HPP 20 SWIMMING POOL HEAT PUMP

Function

The HPP 20 is a heat pump especially designed for heating of small and medium sized outdoor pools and spa.

In a HPP 20 pool heat pump hot refrigerant passes through a condenser coil with pool water and the hot refrigerant gives up its heat to the cooler pool water. The heated pool water circulates back to the pool and the now cold refrigerant returns to its former liquid state. The liquid refrigerant passes through an expansion valve and then through an evaporator where it is heated by energy extracted from the warm ambient air. Now the preheated refrigerant is ready to be compressed and the whole process starts all over again.

The HPP heat pump features a 'smart' pool pump control. The control tells the pump to start if heat is required, thus overriding the timer. A pressure gauge shows if there is sufficient refrigerant in the system.

The HPP 20 can operate from 3°C outside air temperatures. In this way the pool season can be extended for several months.

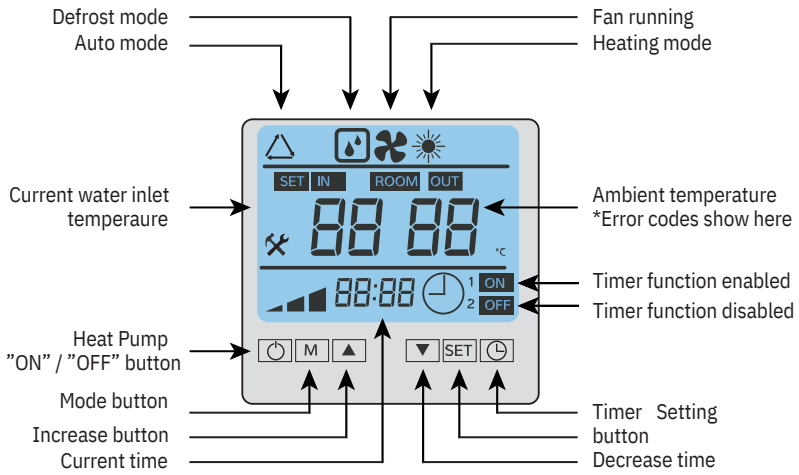
Applications

- Outdoor pools and spa
- Fresh water pools
- Salt water pools (up to 3% salt)
- Therapy pools

FEATURES

- Low sound level
- Nice design
- High efficiency titanium heat exchanger
- ABS cabinet
- 'Smart' pool pump control
- Water flow switch
- Pressure gauge

CONTROL



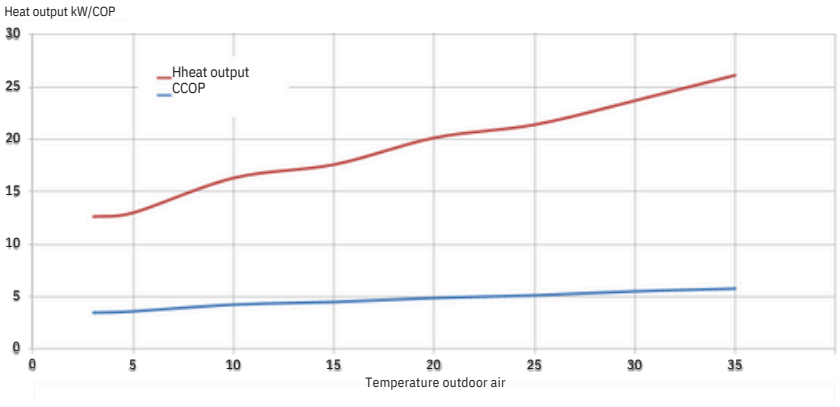
Accessories
Winter protection cover

TECHNICAL DATA

Model	HPP 20
Operating range – air temperature	3-35°C
Operating range – water temperature	15-40°C
Max. power consumption, nominal*	5,1 kW
Max. ampere consumption, nominal	7,4 A
Nominal air flow +/- 10 %	7.000 m3/h
Nominal water flow +/- 10 %	9.000 l/h
Power supply	400 V/3 ph/50 Hz
Sound level (3 m distance)	<41 dB(A)
Protection class	IPX4
Material - cabinet	ABS
Colour - cabinet	Merlin Grey RAL 1804005
Material - heat exchanger	Titanium
Refrigerant	R410a
Compressor type	Scroll
Weight, net	117 kg
GWP	2088

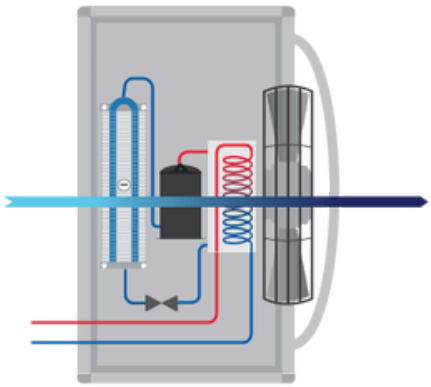
*Water temperature 32°C and outside condition 30°C, 45% RH.

CAPACITY CURVES

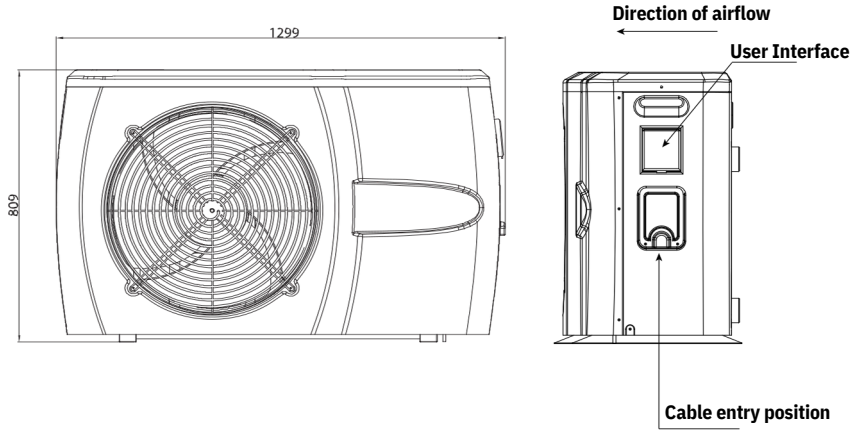


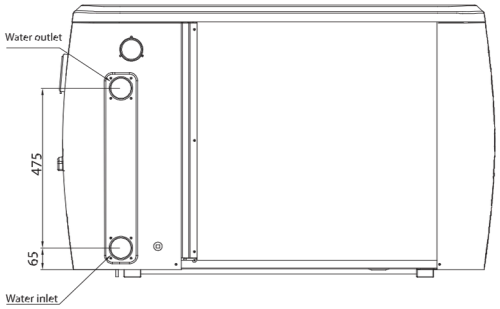
The curve is based on water temperature = 26°C and different outdoor temperatures are given at typical corresponding RH values.

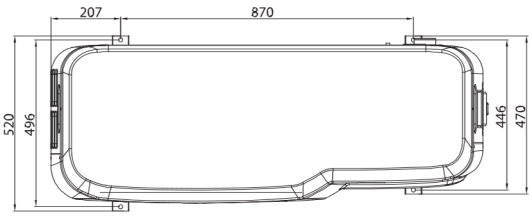
HPP HEAT PUMP WORKING PRINCIPLE



DIMENSIONS


1299
809
Direction of airflow
User Interface
Cable entry position


Water outlet
475
65
Water inlet


207
870
520
496
446
470