

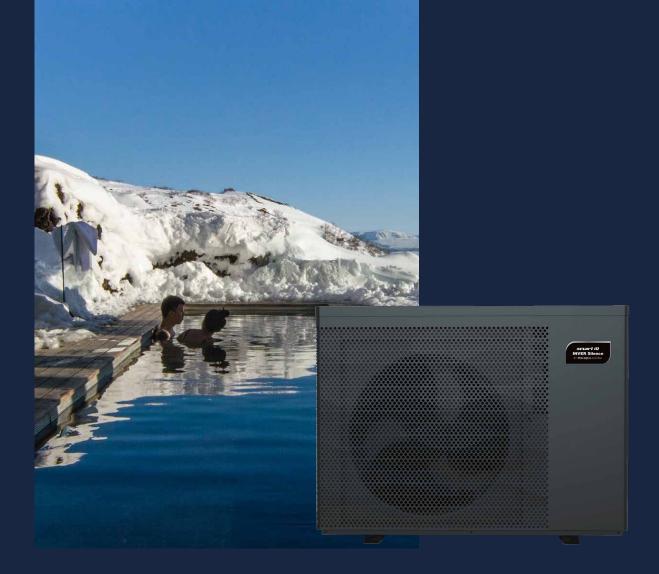
# **POOL HEATING**



INVERTER HEAT PUMPS | PE ABSORBER HEAT EXCHANGER | ELECTRIC HEATERS







## CARIBBEAN WARM AND NORTH SEA FRESH POOL WATER

## Heating & cooling: Individual water temperature in the pool with heat pumps

The Smart Full Inverter heat pumps from Peraqua are air-to-water heat pumps. The contained refrigerant R32 is heated or cooled by the air drawn in. The gas is then compressed in a compressor and the heat energy is transfered to the pool water via a heat exchanger.

Peraqua® full-inverter heat pumps are equipped with compressors that operate at variable speeds. The speed is increased or reduced depending on the energy requirement and the ambient conditions. Each model also supports automatic defrosting.

#### What is the COP value for pool heat pumps?

The effectiveness of a heat pump is characterized by the coefficient of performance (COP). This is defined as the quotient of the heat output delivered to the pool water and the required electrical power.



## WHY FULL-INVERTER TECHNOLOGY?

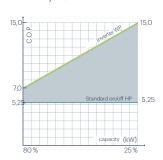
- → 65% higher COP than with commercially available on/off heat pumps
- → 50% higher COP than with commercially available inverter technologies

Inverter technology is leading the industry. With this technology, you can enjoy a very special swimming experience with up to 65% higher efficiency than with an on/off heat pump.

## Inverter HP versus standard on/off HP (while maintaining the pool temperature)

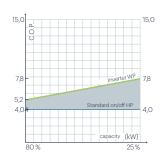
#### Performance condition:

Air 26 °C | Water 26 °C Humidity 80%



#### **Performance condition:**

Air 15 °C | Water 26 °C Humidity 70%

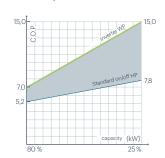


#### (while maintaining the pool temperature)

Inverter HP versus commercially available inverter HP

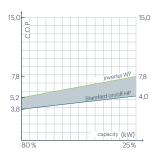
Air 26 °C | Water 26 °C Humidity 80%

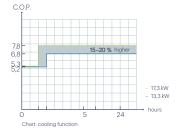
Performance condition:



#### **Performance condition:**

Air 15 °C | Water 26 °C Humidity 70%



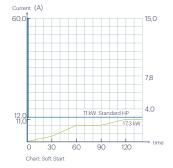


#### → Soft Start

When the heat pump is started, the output of the compressor is slowly increased so that the domestic supply is not overloaded.

#### → 10× quiet

By using the very quiet Mitsubishi inverter compressor and an acoustically optimized fan control, the inverter pump guarantees 10 × quieter operation than conventional heat pumps (while maintaining the pool temperature). It is the quietest heat pump on the market.





#### → Control with a PV system

By integrating an enabling contact, our heat pumps can be intelligently connected to an inverter so that the pool heating is only enabled in the event of a power surplus.

#### → Smart choise

When integrating a heat pump into a pool system, we recommend a larger model. Why?

- → The heat pump can be operated with a lower output range
- → Avoidance of exceeding the power limit
- → Audibly quieter sound level and calmer swimming environment
- → Higher energy savings through more efficient operation



# COMPREHENSIVE SERVICE FOR PARTNERS & EXISTING CUSTOMERS

#### Repairs

Our qualified technicians identify heat pump error codes and provide remote advice. In the event of a warranty claim or if a field service visit is required, defects in the DACH region can be rectified personally and professionally.

#### Spare parts service

We have a large stock of original spare parts. We can procure spare parts for you quickly and reliably. Our technical team will be happy to advise you on selecting the right spare parts. Please have the serial number ready.

#### **Training courses**

Find out everything you need to know about how your heat pump works and how to use it efficiently. Our technicians and heat pump specialists will show you how it works: how to operate, repair, service, replace spare parts and rectify faults.



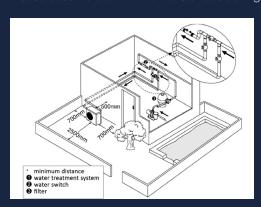
We offer an extended warranty of 5 years on our Smart heat pumps\* You can also benefit from extended warranties on heat exchangers and heat pump compressors.

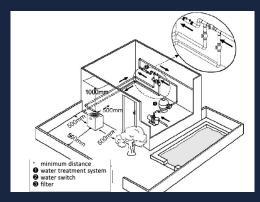
\*Except Smart heat pump ECO and commercial



Smart heat pumps are equipped with vibration absorbers, winter cover and condensate drain set as standard.

Please observe the minimum distances during installation:





## **SMART** FULL INVERTER HEAT PUMP

## IQ INVER SILENCE

- » variable speed
- » Modbus capable
- » Touch control with integrate WLAN connection, free app
- » robust metal housing
- » extremely quiet





					7301035		7301038
Recommended pool volume (m³)*	20~40	25~50	30~60	40~75	55~100	65~120	90~160
Operating temperature (°C)				-15~43*			
Operating conditions: Air 26°C, water 26°C, hum	idity 80%						
Heating capacity (kW) Smart Mode	8,5	11,0	13,8	17,5	21,5	27,0	35,0
Heating capacity (kW) Turbo Mode	10,2	13,2	16,8	21,0	25,5	31,5	40,0
COP in Smart Mode	7,8	8,2	7,5	7,3	7,8	7,4	7,3
COP	15.1~7.1	15.0~7.3	15.5~6.4	15.0~6.3	16.0~6.8	15.8~6.3	15.8~6.4
COP at 50% speed	11,4	11,6	11,2	11,2	11,3	11,2	11,1
Operating conditions: Air 15°C, water 26°C, hum	idity <b>70</b> %						
Heating capacity (kW) Smart Mode	6,3	7,3	9,4	11,8	14,8	18,0	24,0
Heating capacity (kW) Turbo Mode	7,5	8,8	11,3	14,3	17,5	21,5	28,0
COP in Smart Mode	5,2	5,3	5,0	5,0	5,4	5,3	5,1
COP	6.9~4.8	6.8~4.9	7.3~4.4	7.8~4.6	7.8~4.9	7.8~4.9	7.9~4.7
COP at 50% speed	6,5	6,5	6,6	6,8	6,8	6,8	6,7
Operating conditions: Air 35°C, water 28°C, hum	idity 80%						
Cooling capacity (kW)	4,4	5,6	6,5	8,0	11,6	13,6	16,0
Sound pressure 1m dB(A)	38.5~45.5	38.6~46.9	42.0~47.7	42.9~50.8	40.8~51.2	43.3~51.9	42.5~51.7
Sound pressure at 10m dB(A)	18.5~25.5	18.6~26.9	22.0~27.7	22.9~30.8	20.8~31.2	23.3~31.9	22.5~31.7
Sound pressure at 50% speed 1m dB(A)	39,5	41,3	43,7	44,5	44,4	46,4	43,8
Heat exchanger				Titanium			
Housing				Metal			
Power supply			230V/1 Ph/50Hz			400V/3	Ph/50Hz
Rated input power at 15 °C (kW)	0.18~1.53	0.22~1.8	0.26~2.56	0.31~3.08	0.38~3.53	0.46~4.4	0.60~5.94
Rated current at 15 °C (A)	0.78~6.65	0.96~7.82	1.14~11.3	1.35~13.4	1.65~15.3	0.66~6.35	0.87~8.57
Recommended water flow (m³/h)	2~4	3~4	4~6	6.5~8.5	8~10	10~12	12~18
Pipe specification in-out (mm)				50			
Net dimensions LxWxH (mm)	799×432×650	893×432×650	939×432×650	995×432×750	1125×429×952	1074×539×947	1260×539×947
Net weight	59	61	65	70	98	111	126

<sup>\*</sup> Efficient and optimum operation only recommended above freezing point (0 C°). The specified values apply under ideal conditions: Pool is covered with an isothermal cover, filter system runs for at least 15 hours a day, slight deviations in the technical specifications are possible depending on the system and subject to technical changes.

# **SMART FULL INVERTER HEAT PUMP**IQ INVER SILENCE, VERTICAL

- » vertical discharge direction
- » variable speed
- » Modbus capable
- » Touch control with integrate WLAN connection, free app
- » robust metal housing
- » extremely quiet



on compressor



Item No.	7301269	7301270	7301271	7301272
Recommended pool volume (m³)*	25~50	30~60	40~75	50~100
Operating temperature (°C)		-15~43*		
Operating conditions: Air 26°C, water 26°C, humidity 80%				
Heating capacity (kW) in Smart Mode	11	14	17,5	22
Heating capacity (kW) in Turbo Mode	13,2	17,2	21	26
COP in Smart Mode	7,7	7,8	7,3	7,8
COP	15,0~6,8	15,6~6,5	15,5~6,3	14,9~6,8
COP at 50% speed	11,5	11,7	11,6	11,3
Operating conditions: Air 15°C, water 26°C, humidity 70%				
Heating capacity (kW) in Smart Mode	7,3	9,8	11,6	14,5
Heating capacity (kW) in Turbo Mode	8,8	11,6	14,3	17,5
COP in Smart Mode	5,0	4,9	4,9	5,0
COP	7,3~4,5	7,8~4,5	7,4~4,4	7,3~4,8
COP at 50% speed	6,5	6,7	6,8	6,3
Operating conditions: Air 35°C, water 28°C, humidity 80%				
Cooling capacity (kW)	5,8	7,1	8,2	12,0
Max. Sound pressure 1m dB(A)	38,8~47,9	42,2~48,6	43,1~52,1	41,0~52,9
Sound pressure at 50% speed 1m dB(A)	41,9	44,3	45,2	45,3
Max. Sound pressure 10m dB(A)	18,8~27,9	22,2~28,6	23,1~32,1	21,0~32,9
Heat exchanger	Titanium			
Housing		Aluminium		
Power supply		230V/1	Ph/50Hz	
Rated input power at 15°C (kW)	0,21~1,95	0,26~2,51	0,33~3,08	0,42~3,67
Rated current at 15°C (A)	0,91~8,48	1,14~10,9	1,43~13,4	1,82~15,9
Recommended water flow (m³/h)	3~4	4~6	6,5~8,5	8~10
Pipe specification in-out (mm)		50		
Net dimensions LxWxH (mm)	710x753x668	710x775x668	710x775x668	710x775x743
Net weight (kg)	66	71	78	102
Gas (g)	700	1000	1200	2000
GWP		675		
CO2 Equivalent (tons)	0,473	0,675	0,810	1,350

<sup>\*</sup> Efficient and optimum operation only recommended above freezing point (0 C°). The specified values apply under ideal conditions: Pool is covered with an isothermal cover, filter system runs for at least 15 hours a day, slight deviations in the technical specifications are possible depending on the system and subject to technical changes.

### **SMART** FULL INVERTER HEAT PUMP

## **PLUS**

- » variable speed
- » Modbus capable
- » Touch control with integrate WLAN connection, free app
- » ABS housing
- » extremely quiet





Item No.	7300714	7300715	7300772	7300716
Recommended pool volume (m³)*	25~45	30~55	35~65	40~75
Operating temperature (°C)		-7~	43*	
Operating conditions: Air 26°C, water 26°C, humidity 80%				
Heating capacity (kW)	10,3	12,8	15,0	17,3
COP	14.5~6.9	15.0~7.4	15.5~6.7	14.8~5.9
COP at 50% speed	10,4	11,0	10,9	10,5
Operating conditions: Air 15°C, water 26°C, humidity 70%				
Heating capacity (kW)	7,1	8,3	10,5	11,4
COP	7.3~4.6	7.7~4.8	7.8~4.6	7.5~4.3
COP at 50% speed	6,4	6,8	6,6	6,1
Output in a condition of the OFFIC contact OFFIC benefit in OFFI				
Operating conditions: Air 35°C, water 28°C, humidity 80% Cooling capacity (kW)	4,5	5,5	6,8	7,7
Sound pressure 1m dB(A)	38.6~49.9	42.1~50.7	41.3~54.0	43.1~53.8
Sound pressure at 10m dB(A)	18.6~29.9	22.1~30.7	21.3~34.0	23.1~33.8
Sound pressure at 50% speed 1m dB(A)	43,3	45,7	46,0	46,5
Compressor	40,0		DC Inverter	40,0
Heat exchanger				
Housing		Titanium  ABS		
Power supply			Ph/50Hz	
Rated input power at 15°C (kW)	0.19~1.5	0.22~1.73	0.27~2.2	0.3~2.6
Rated current at 15°C (A)	0.83~6.5	0.96~7.52	1.17~9.6	1.3~11.3
Recommended water flow (m³/h)	3~4	4~6	5~7	6.5~8.5
Pipe specification in-out (mm)			0	
Net dimensions LxWxH (mm)	961×340×658	961×340×658	961×340×658	961×420×658
Net weight	49	50	52	63
Gas (g)	750	800	900	1000
GWP			75	
CO2 Equivalent (tons)	0,506	0,540	0,608	0,675
	,			

<sup>\*</sup> Efficient and optimum operation only recommended above freezing point (0 C°). The specified values apply under ideal conditions: Pool is covered with an isothermal cover, filter system runs for at least 15 hours a day, slight deviations in the technical specifications are possible depending on the system and subject to technical changes.

## **SMART** INVERTER HEAT PUMP

## ECO

- » 3-stage
- » optional: WLAN connection for control via mobile devices, free app
- » metal housing





Item No.	7300704	7300706	7300707	7300708	7300709
Recommended pool volume (m³)*	15~30	20~35	30~50	35~65	45~80
Operating temperature (°C)			0~43*		
Operating conditions: Air 26°C, water 26°C, hu	midity 80%				
Heating capacity (kW)	7,0	9,0	12,5	16,0	20,0
COP	10.3~6.6	10.6~6.8	11.6~7.0	11.2~7.1	11.8~6.5
COP at 50% speed	9,3	9,6	10,1	9,7	10,2
Operating conditions: Air 15°C, water 26°C, hu	nidity 70%				
Heating capacity (kW)	5,0	6,3	8,5	11,0	14,0
COP	6.0~4.8	6.1~4.5	6.3~4.8	6.4~4.7	6.5~4.6
COP at 50% speed	5,8	5,7	6,1	5,9	6,1
Operating conditions: Air 35°C, water 28°C, hu	midity 80%				
Cooling capacity (kW)	2,5	3,1	4,6	5,6	7,8
Sound pressure 1m dB(A)	38.8~50.2	40.6~52.5	42.9~53.0	45.2~56.3	45.3~57.1
Sound pressure at 10m dB(A)	18.8~30.2	20.6~32.5	22.9~33.0	25.2~36.3	25.3~37.1
Sound pressure at 50% speed 1m dB(A)	42,8	45,8	48,5	48,7	49,6
Heat exchanger			Titanium		
Housing			oowder-coated meta	ıl	
Power supply			230V/1 Ph/50Hz		
Rated input power at 15°C (kW)	0.29~1.04	0.36~1.40	0.47~1.78	0.59~2.34	0.75~3.04
Rated current at 15°C (A)	1.26~4.52	1.57~6.09	2.02~7.74	2.52~10.17	3.26~13.21
Recommended water flow (m³/h)	2~4	3~4	4~6	6.5~8.5	8~10
Pipe specification in-out (mm)			50		
Net dimensions LxWxH (mm)	744×359×648	864×359×648	864×359×648	954×359×648	954×359×748
Net weight (kg)	42	46	49	60	68

# **SMACT FULL INVERTER HEAT PUMP** PLUS, COMMERCIAL

- » variable speed
- » Modbus capable
- » Touch control with integrated WLAN connection, free app
- » metal housing





Operating conditions: Air 26°C, water 26°C, humidity 80%         7-43⁻           Heating capacity (kW)         59,6         109,0           COP at 50% apoed         10.0         9,8           Operating conditions: Air 18°C, water 26°C, humidity 70%         39,4         80,5           Heating capacity (kW)         39,4         80,5           COP at 50% speed         6,7         6,6           Operating conditions: Air 38°C, water 28°C, humidity 80%         50,0         50,0           Corolling capacity (kW)         26,2         53,7           Sound pressure at 10mt dB(A)         54,0-62,0         56,0-65,0           Sound pressure at 10mt dB(A)         58,0         58,0           Sound pressure at 50% speed Im dB(A)         58,0         58,0           Compressure         10C-Inverter         10C-Inverter           Housing         Aburnitum         400           Housing         4000/3 Ph/50 It2           Rest clinput power at 15°C (kW)         220-8,03         4,69-17.9           Rest clinput current (A)         20         40           Circuit breaker (A)         20         40           See psecification in-out (mm)         75         110           Net using kt (kg)         212         4,59	Item No.	7300720	7300721
Deparating conditions: Air 26°C, water 26°C, humidity 80%           COP at 50% speed         10,0         9.8           Deparating conditions: Air 15°C, water 26°C, humidity 70%           Use page ofty (kW)         39,4         80,5           COP at 50% speed         6,7         6,6           Deparating conditions: Air 35°C, water 28°C, humidity 80%           Cooling capacity (kW)         26,2         53,7           Sound pressure 1m dB(A)         54,0-62,0         560-650           Sound pressure at 10m dB(A)         34,0-42,0         360-450           Sound pressure at 10m dB(A)         56,0         58,0           Compressor         DC-Inverter         10minum           Housing         Aluminum         10minum           Power supply         4000/3 Ph/S0Hz           Reted current at 15°C (kW)         2,20-80,3         4,69-179           Reted current at 15°C (kW)         2,20-80,3         4,69-179           Reted current at 15°C (kW)         20-25         40-50           Mex. Input current (A)         20-25         40-50           Reter current at 16°C (m°/h)         20-25         40-50           Reter current at 16°C (kW)         20-25         40-50           Reter current at 16°C	Recommended pool volume (m³)*	130~260	260~520
Heating capacity (kW) 59.6 100.0 9.8 100.0 9.	Operating temperature (°C)	-7-	~43*
COP at 50% speed         10,0         9,8           Operating conditions: Air 15°C, water 28°C, humidity 70%           COP at 50% speed         67         6.6           Operating conditions: Air 35°C, water 28°C, humidity 80%           Cooling capacity (kW)         26.2         53.7           Sound pressure 1m dB(A)         54.0-62.0         560-65.0           Sound pressure at 10m dB(A)         34.0-42.0         360-45.0           Sound pressure at 10m dB(A)         56.0         58.0           Sound pressure at 50% speed 1m dB(A)         56.0         58.0           Compressor         DC-Investor         1           Heat exchanger         Titanium         1           Housing         Aluminium         4           Read input power at 15°C (kW)         2.20-8.03         4.69-179           Rated input power at 15°C (kW)         2.20-8.03         4.69-179           Rated current at 15°C (A)         317-1158         6.77-25.8           Max. Input current (A)         20         40           Oricult breaker (A)         20-25         40-50           Net dimensions LxWki (mm)         1000x110x1250         210x10x10x1250           Net weight. (kg)         212         459           Gas (g) </td <td>Operating conditions: Air 26°C, water 26°C, humidity 80%</td> <td></td> <td></td>	Operating conditions: Air 26°C, water 26°C, humidity 80%		
Deparating conditions: Air 15°C, water 28°C, humidity 70%           Heating capacity (kW)         39,4         80,5           Coperating conditions: Air 35°C, water 28°C, humidity 80%         Sound pressure 1m dB(A)         26,2         53,7           Sound pressure at 10m dB(A)         54,0-62,0         560-68,0           Sound pressure at 10m dB(A)         56,0         58,0           Sound pressure at 50% speed 1m dB(A)         56,0         58,0           Compressor         DC-Inverter         Compressor           Heat exchanger         Titanium         Compressor           Housing         Abuminium         Compressor           Power supply         400v/3 Ph/sOt2           Rated input power at 15°C (kW)         2,20-80,3         4,69-179           Rated current at 15°C (A)         317-1159         6,77-25,8           Max. input current (A)         20         40           Circuit breaker (A)         25,0         40-50           Pipe specification in-out (mm)         75         10           Net definensions LxWxH (mm)         1000x110x126         2100-1090-1284           Oke         5500         11000         1000x110x126         20           Sound         5500         11000         1000x110x126         20<	Heating capacity (kW)	59,6	109,0
Heating capacity (kW) 39.4 80.5 COP at 50% speed 6,7 6.6 corporating conditions: Air 35°C, water 28°C, humidity 80%  Cooling capacity (kW) 26.2 53.7 count pressure Im dB(A) 540-62.0 560-65.0 count pressure at 10m dB(A) 340-42.0 360-45.0 count pressure at 10m dB(A) 56.0 58.0 compressor DC-Inversor DC-Inve	COP at 50% speed	10,0	9,8
COP at 50% speed         6.7         6.6           Operating conditions: Air 35°C, water 28°C, humidity 80%         Second pressure 1m dB(A)         54.0-62.0         56.0-65.0           Sound pressure at 10m dB(A)         34.0-42.0         36.0-45.0         56.0         40.0         50.0         50.0         50.0         50.0         50.0         50.0         50.0         50.0         50.0         50.0         50.0         50.0         50.0         50.0         50.0         50.0	Operating conditions: Air 15°C, water 26°C, humidity 70%		
Operating conditions: Air 35°C, water 28°C, humidity 80%           Cooling capacity (kW)         26.2         53.7           Sound pressure 1 md B(A)         540-62.0         560-65.0           Sound pressure at 10m dB(A)         56.0         58.0           Sound pressure at 50% speed 1mdB(A)         56.0         58.0           Compressor         DC-Inverter           Heat exchanger         Titanium           Housing         Aluminum           Power supply         4000/3 Ph/50Hz           Rated input power at 15°C (kW)         2.20-8.03         4.59-179           Rated current at 15°C (A)         317-11.59         6.77-25.8           Max. input current (A)         25.0         40           Circuit breaker (A)         25.0         48.0           Recommended water flow (m³/h)         20-25         40-50           Pipe specification in-out (mm)         75         110           Net weight (kg)         212         459           Gas (g)         5500         11000           GWP         2085         5500         11000	Heating capacity (kW)	39,4	80,5
Cooling capacity (kW)         26.2         53.7           Sound pressure 1m dB(A)         54.0-62.0         56.0-65.0           Sound pressure at 10m dB(A)         34.0-42.0         36.0-45.0           Sound pressure at 50% speed 1m dB(A)         56.0         58.0           Compressor         DC-Inverter         Titanium           Housing         Aluminium         Prover supply           Rated input power at 15°C (kW)         2.20-8.03         4.69-17.9           Rated current at 15°C (A)         3.17-11.59         6.77-25.8           Max. input current (A)         20         40           Circuit breaker (A)         25.0         48.0           Recommended water flow (m³/h)         20-25         40-50           Net dimensions LxWxH (mm)         1000x1110x1260         2100x1090x1280           Net weight (kg)         212         459           Gas (g)         5500         11000	COP at 50% speed	6,7	6,6
Sound pressure Im dB(A)         540-620         560-650           Sound pressure at 10m dB(A)         340-420         360-450           Sound pressure at 50% speed 1m dB(A)         560         58,0           Compressor         DC-Inverter           Heat exchanger         Titanium           Housing         Aluminium           Power supply         400-91/50Hz           Rated input power at 15°C (kW)         220-803         469-179           Rated current at 15°C (A)         317-1159         6.77-258           Max. input current (A)         25         48,0           Circuit breaker (A)         25         48,0           Recommended water flow (m²/h)         20-25         40-50           Net dimensions LxWxH (mm)         1000x1110x1260         2100x1090x1280           Net weight (kg)         212         459           Gas (g)         1000x1110x1260         2100x1090x1280           GWY	Operating conditions: Air 35°C, water 28°C, humidity 80%		
Sound pressure at 10m dB(A)         34.0-42.0         36.0-45.0           Sound pressure at 50% speed 1m dB(A)         56.0         58.0           Compressor         DC-Inverter         DC-Inverter           Heat exchanger         Titanium         Titanium           Housing         Aluminium         Proves supply         400V/3 Ph/50Hz           Rated input power at 15°C (kW)         2.20-803         469-179           Rated current at 15°C (A)         317-11.59         6.77-258           Max. input current (A)         20         40           Circuit breaker (A)         25.0         48,0           Recommended weter flow (m³/h)         20-25         40-50           Pipe specification in-out (mm)         75         110           Net weight (kg)         212         459           Gas (g)         5500         11000           GWP         2088         4000	Cooling capacity (kW)	26,2	53,7
Sound pressure at 50% speed Im dB(A)         56,0         58,0           Compressor         DC-Inverter           Heat exchanger         Titanium           Housing         Aluminium           Power supply         4000/3 Ph/50Hz           Rated input power at 15°C (kW)         2,20-8,03         469-17.9           Rated current at 15°C (A)         317-11.59         6.77-25.8           Max. input current (A)         20         40           Circuit breaker (A)         25,0         48,0           Recommended water flow (m³/h)         20-25         40-50           Pipe specification in-out (mm)         75         110           Not dimensions LxWxH (mm)         1000x110x1260         210x1090x1280           Gas (g)         5500         11000           GWP         208         208	Sound pressure 1m dB(A)	54.0~62.0	56.0~65.0
Compressor         DC-Inverter           Heat exchanger         Titanium           Housing         Aluminium           Power supply         400V/3 Ph/50Hz           Rated input power at 15°C (kW)         2.20-8.03         4.69-17.9           Rated current at 15°C (A)         3.17-11.59         6.77-25.8           Max. input current (A)         20         40           Circuit breaker (A)         25,0         48.0           Recommended water flow (m³/h)         20-25         40-50           Pipe specification in-out (mm)         75         110           Net dimensions LxWxH (mm)         1000x1110x1260         2100×1090×1280           Gas (g)         5500         11000           GWP         2088         1000x100x1260	Sound pressure at 10m dB(A)	34.0~42.0	36.0~45.0
Heat exchanger Housing Housing Housing Hower supply  Rated input power at 15°C (kW)  Rated current at 15°C (kW)  Rated current at 15°C (A)  Rated current (A)  Circuit breaker (A)  Recommended water flow (m³/h)  Recommended water flow (m³/h)  Ret dimensions LxWxH (mm)  Net weight (kg)  Gas (g)  Titanium  Aluminium  469-179  677-258  469-179  479  479  479  479  479  479  479	Sound pressure at 50% speed 1m dB(A)	56,0	58,0
Housing         Aluminum           Power supply         400V/3 Ph/50Hz           Rated input power at 15°C (kW)         2.20-8.03         4.69-17.9           Rated current at 15°C (A)         3.17-11.59         6.77-25.8           Max. input current (A)         20         40           Circuit breaker (A)         25.0         48.0           Recommended water flow (m³/h)         75         110           Net dimensions LxWxH (mm)         1000x1110x1260         210x1090x1280           Net weight (kg)         212         459           Gas (g)         5500         11000           GWP         20x8         20x8	Compressor	DC-I	nverter
Power supply         400V/3 P/50Hz           Rated input power at 15°C (kW)         2.20-8.03         4.69-17.9           Rated current at 15°C (A)         3.17-11.59         6.77-25.8           Max. input current (A)         20         40           Circuit breaker (A)         25,0         48,0           Recommended water flow (m³/h)         20-25         40-50           Pipe specification in-out (mm)         75         110           Net weight (kg)         212         459           Gas (g)         5500         11000           GWP         5500         11000	Heat exchanger	Tita	anium
Rated input power at 15°C (kW)       2.20-8.03       4.69-17.9         Rated current at 15°C (A)       317-11.59       6.77-25.8         Max. input current (A)       20       40         Circuit breaker (A)       25,0       48,0         Recommended water flow (m³/h)       20-25       40-50         Pipe specification in-out (mm)       75       110         Net dimensions LxWxH (mm)       1000x1110x1260       2100x1090x1280         Net weight (kg)       212       459         Gas (g)       5500       11000         GWP       2088	Housing	Alun	ninium
Rated current at 15°C (A)       3.17-11.59       6.77-25.8         Max. input current (A)       20       40         Circuit breaker (A)       25,0       48,0         Recommended water flow (m³/h)       20-25       40-50         Pipe specification in-out (mm)       75       110         Net dimensions LxWxH (mm)       1000x1110x1260       2100x1090x1280         Net weight (kg)       212       459         Gas (g)       5500       11000         GWP       2088	Power supply	400V/3	Ph/50Hz
Max. input current (A)       20       40         Circuit breaker (A)       25,0       48,0         Recommended water flow (m³/h)       20-25       40-50         Pipe specification in-out (mm)       75       110         Net dimensions LxWxH (mm)       1000x1110x1260       2100x1090x1280         Net weight (kg)       212       459         Gas (g)       5500       11000         GWP       2088	Rated input power at 15°C (kW)	2.20~8.03	4.69~17.9
Circuit breaker (A)       25,0       48,0         Recommended water flow (m³/h)       20-25       40-50         Pipe specification in-out (mm)       75       110         Net dimensions LxWxH (mm)       1000x1110x1260       2100×1090×1280         Net weight (kg)       212       459         Gas (g)       5500       11000         GWP       2088	Rated current at 15°C (A)	3.17~11.59	6.77~25.8
Recommended water flow (m³/h)       20-25       40-50         Pipe specification in-out (mm)       75       110         Net dimensions LxWxH (mm)       1000x1110x1260       2100×1090×1280         Net weight (kg)       212       459         Gas (g)       5500       11000         GWP       2088	Max. input current (A)	20	40
Pipe specification in-out (mm)       75       110         Net dimensions LxWxH (mm)       1000x1110x1260       2100×1090×1280         Net weight (kg)       212       459         Gas (g)       5500       11000         GWP       2088	Circuit breaker (A)	25,0	48,0
Net dimensions LxWxH (mm)     1000x1110x1260     2100×1090×1280       Net weight (kg)     212     459       Gas (g)     5500     11000       GWP     2088	Recommended water flow (m³/h)	20~25	40~50
Net weight (kg)     212     459       Gas (g)     5500     11000       GWP     2088	Pipe specification in-out (mm)	75	110
Gas (g) 5500 11000 GWP 2088	Net dimensions LxWxH (mm)	1000x1110x1260	2100×1090×1280
GWP 2088	Net weight (kg)	212	459
	Gas (g)	5500	11000
CO2 Equivalent (tons) 11,48 22,97	GWP	2	088
	CO2 Equivalent (tons)	11,48	22,97

<sup>\*</sup> Efficient and optimum operation only recommended above freezing point (0 °C). The specified values apply under ideal conditions: Pool is covered with an isothermal cover, filter system runs for at least 15 hours a day, slight deviations in the technical specifications are possible depending on the system and subject to technical changes.



Low pressure loss, high efficiency, absolutely frost-proof (with drained pipes), fully accessible, easy installation, suitable for Praher Plastics solar control units and PVC piping material

Technical data	Types	Praher 3-ball valve SOLAR
<ul> <li>» Material: HDPE</li> <li>» Pressure loss approx. 0.003 bar at 200 l/h/m²</li> <li>» Flow rate: 150-250 l/m²/h</li> <li>» Weight: approx. 6 kg/m² - Water content: 6 l/m²</li> <li>» Test pressure: 4.5 bar</li> <li>» Operating pressure: up to 1.2 bar at</li> <li>» 40 °C Efficiency: up to approx. 85%</li> <li>» Output: up to 0.85 kWh/m²</li> <li>» Temperature-resistant at idle from -50 °C to +115 °C</li> <li>» Collector pipe: Ø 40 mm</li> </ul>	<ul> <li>2 connection pieces and integrated collector pipe on one side</li> <li>4 connection pieces</li> <li>Collector pipe on both sides</li> </ul>	Operation with the filter pump via 3-way ball valve with differential temperature control:  As a rule, the connection variant can always be selected if the absorbers are not installed higher than 6 m above the water surface. The 3-way ball valve is installed in the pressure line of the filter system. The 3-way ball valve is switched over by the differential temperature control when the absorber temperature is higher than the swimming pool water temperature. The filter flow is then pumped through the absorbers. The heated water flows back into the filter circuit via a T-piece.



#### **TITANIUM HEAT EXCHANGER**

The compact titanium multi-tube bundle element is located in an optimally insulated outer chamber. The small volume of the chamber combined with the high surface area of the titanium tubes ensures outstanding efficiency with minimal energy losses. 100% compatible with salt chlorinator pools.



Technical data	Types	Smart Touch Screen heating controller
<ul> <li>consists of 36 titanium tubes: built for eternity</li> <li>Water connection primary circuit: 1" BSP female thread (1" male/ female brass thread adapter included)</li> <li>Secondary circuit water connection: 1½"/50 mm adhesive connection</li> <li>Including 2 x 1" AG brass double nipples, 1 x cover cap for thermowell, 1 x brass non-return valve 1" IG</li> <li>Material primary side: AISI 316L (V4A) (EN 1.4432) stainless steel</li> <li>Material secondary side: Titanium</li> <li>Max. Operating pressure: 4 bar</li> </ul>	<ul><li>» 30 kW</li><li>» 49 kW</li><li>» 85 kW</li><li>» 122 kW</li></ul>	Suitable for easy control of any Smart Titan tube heat exchanger. With Wifi function, temperature sensor and flow sensor. Can be controlled remotely via the TouchSmart Plus app.      The "Priority of Heating" function is used to keep the water temperature constant at the desired temperature.      Ready for smart home integration Multilingual interface      Programmable 24-hour clock (4 time zones)      Flow and temperature sensor connections      Precise control to 0.5° C      Diagnostic report      Also available as a cooling controller type



#### **TITANIUM ELECTRIC HEATER**

The Smart titanium electric heater for pools is equipped with a temperature sensor and overheating thermostat. A flow switch enables safe operation. The titanium flow tube and titanium heating element(s) make the electric heater effective, robust and durable. The touchscreen control with instant start function enables simple and user-friendly operation. Ideal for pools and spas. Ideal in combination with PV systems: In the event of an energy surplus, the energy is used sensibly for pool heating.



Technical data	Types
» Easy installation, fully equipped and pre-wired	» 3 kW - 1-phase
» Equipped with a temperature sensor and overheating thermostat	» 6 kW - 3-phase
» Compact, durable design	» 9 kW - 3-phase
» Touchscreen control with soft start to protect the power supply	» 15 kW - 3-phase
» Titanium flow tube and titanium heating element(s)	
» Can be mounted horizontally or vertically on the wall	
» Vortex, long service life, clean heating element technology	
» 100% efficiency over the entire product service life	
» Quiet operation	



#### **TITANIUM PLATE HEAT EXCHANGER**

The plate heat exchanger for heating and cooling commercial pools is characterized by its high overall heat transfer coefficient and high performance with a low holding volume.

The plate heat exchangers are designed individually for each project. Therefore, you can download a form from our webshop.



Technical data	Туреѕ
» Versatile, modular structure, compact design	» 30 kW
» Titanium plates	» 50 kW
» Connection: M G1" 1/4 AISI 304 thread	» 80 kW
» Sheet and sealing materials available for most fluid types	» 102 kW
» Fasy disassembly for quick cleaning	» larger types on request

## **PERAQUA**



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