

# PERAQUA®

pooled family pleasure



**Extend your  
bathing season**

*Heat pumps ensure  
a pleasant water  
temperature all year round*

**Smart**  
by Peracsa Austria

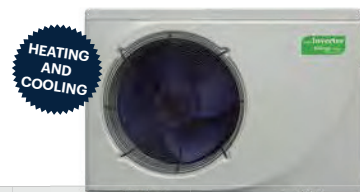
# CARIBBEAN FEELING AT THE TOUCH OF A BUTTON

A pleasant water temperature maximises pool pleasure and extends the bathing season in your own garden.

Intelligent housing design with steel frames and UV resistant plastic covers ensure exceptionally smooth-running operation and maximum comfort. High-quality electronic components and titanium heat exchangers promise a very long service life and exceptional energy savings. Of course, existing pools can also be upgraded at any time. For those who prefer the North Sea to the Caribbean in the middle of summer, smart heat pumps with an integrated cooling function will prove ideal.

Practically nothing is left to be desired for sophisticated pool owners – and with the extended guarantee period on core components, you are always on the safe side.

## SMART INVERTER HEATPUMP PLUS



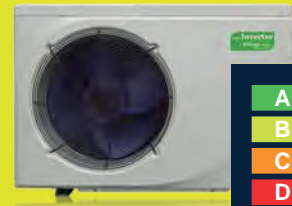
### SPECIFICATIONS:

A.Nr.	75067	74787	74788	75074	75068	75069
Advised pool volume (m <sup>3</sup> )	25~50	30~60	40~75	50~95	65~120	90~169
Operating air temperature	-7~43	-7~43	-7~43	-7~43	-7~43	-7~43
<b>Performance condition: Air 26 °C, Water 26 °C/Humidity 80 %</b>						
Heating Capacity kW	11,3~2,8	13,3~3,4	17,3~4,4	21,2~5,4	27,5~7,0	36,2~9,2
Heating Capacity kW in silence mode	9,0~2,8	10,4~3,4	13,8~4,4	16,8~5,4	21,7~7,0	28,9~9,2
C.O.P.	6,5~15,1	6,4~15,0	6,3~15,2	6,1~15,1	6,2~15,2	6,4~15,5
C.O.P. in silence mode	7,5~15,1	7,4~15,0	7,3~15,2	7,1~15,1	7,2~15,2	7,4~15,5
<b>Performance condition: Air 15 °C, Water 26 °C/Humidity 70 %</b>						
Heating Capacity kW	7,3~1,9	9,4~2,3	11,4~2,8	14,5~3,4	18,0~4,5	24,0~6,2
Heating Capacity kW in silence mode	5,8~1,9	7,4~2,3	8,8~2,8	11,3~3,4	14,5~4,5	19,2~6,2
C.O.P.	4,5~7,7	4,4~7,6	4,3~7,8	4,3~7,7	4,3~7,8	4,5~8,0
C.O.P. in silence mode	5,2~7,7	5,1~7,6	5,2~7,8	4,8~7,7	5,0~7,8	5,2~8,0
<b>Performance condition: air 35 °C, Water 28 °C (KW)</b>						
Cooling Capacity kW	5,5~1,4	6,2~1,6	8,5~2,1	10,8~2,7	13,5~3,4	18,0~4,5
Rated input power (kW)	1,6~0,22	2,1~0,25	2,6~0,33	3,33~0,44	4,0~0,58	5,3~0,79
Rated input current (A)	7,4~0,95	9,1~1,1	10,9~1,4	14,5~1,9	5,8~0,8	8,0~1,1
Power supply	230 V/1 Ph/50 Hz	230 V/1 Ph/50 Hz	230 V/1 Ph/50 Hz	230 V/1 Ph/50 Hz	400 V/3 Ph/50 Hz	400 V/3 Ph/50 Hz
Fuse Calibre (A)	12 A	13 A	16 A	21 A	9 A	12 A
Circuit breaker (Rated current A/Residual current mA)	12 A/30 mA	13 A/30 mA	16 A/30 mA	21 A/30 mA	9 A/30 mA	12 A/30 mA
Advised water flux (m <sup>3</sup> /h)	4~6	5~7	6,5~8,5	8~10	10~12	12~18
Sound pressure 1 m dB(A)	39,5~48,2	42,8~52,1	44,2~52,9	44,7~53,8	48,6~55,5	49,6~55,8
Sound pressure 10 m dB(A)	19,5~28,2	22,8~32,1	24,2~32,9	24,7~33,8	28,6~35,5	29,6~35,8
Heating exchanger	Titanium in PVC	Titanium in PVC	Titanium in PVC	Titanium in PVC	Titanium in PVC	Titanium in PVC
Casing	ABS casing	ABS casing	ABS casing	ABS casing	ABS casing	ABS casing
Water pipe in-out Spec. (mm)	50	50	50	50	50	50
Net dimension L × W × H mm	961 × 312 × 658	961 × 312 × 658	96 × 392 × 658	961 × 392 × 758	1090 × 420 × 960	1160 × 530 × 960
Net weight kg	48	50	58	68	89	108

\* The values indicated are valid under ideal conditions: Pool with an insulated cover at night, filtration system running at least 15 hours a day. Above data is subject to modification without notice.

# WHY SMART INVERTER TECHNOLOGY?

## Class A Full-inverter



<b>A</b>	COP ≤ 5
<b>B</b>	4,5 ≤ COP < 5
<b>C</b>	3,5 ≤ COP < 4,5
<b>D</b>	COP < 3,5

- 65 % higher COP than Normal ON/OFF HP
- 50 % higher COP than Normal Inverter HP

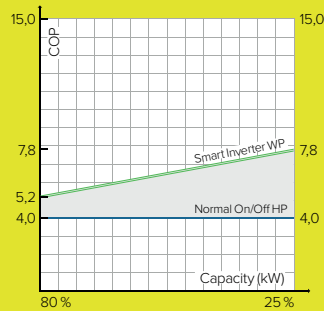
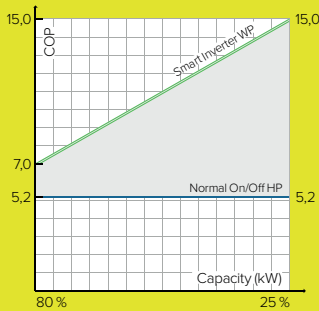
Smart Inverter is an innovative leading technology in the industry. With this technology, you can enjoy an exceptional swimming experience with efficiency 65% higher than on/off heat pumps.

### Smart Inverter HP versus Normal On/Off HP (when maintaining pool temperature)

#### Performance condition:

Air 26 °C | Water 26 °C | Humidity 80 %

Air 15 °C | Water 26 °C | Humidity 70 %

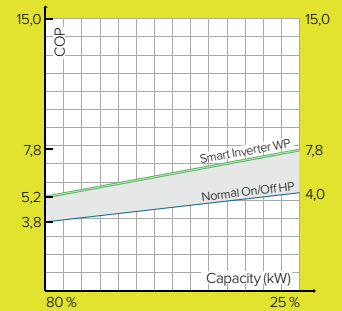
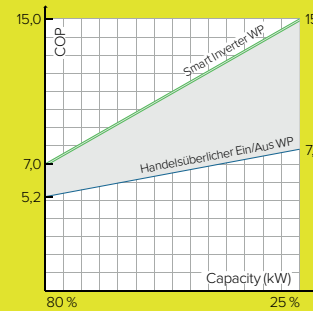


### Smart Inverter HP versus Normal Inverter HP (when maintaining pool temperature)

#### Performance Condition:

Air 26 °C | Water 26 °C | Humidity 80 %

Air 15 °C | Water 26 °C | Humidity 70 %



#### → 10 times quieter

By integrating super quiet Mitsubishi inverter compressor and variable speed ventilation system, Smart Inverter ensures an operation 10 times quieter than normal heat pumps when maintaining the pool temperature. It's the quietest running heat pump you can find in the market.

#### → Soft start (Graph Soft Start)

When Smart Inverter HP turns on, the current will start from 0 A and slowly reach rated current in 2 minutes. Household electricity system will not be affected with a gentle increased current.

#### → Designed for air -7 °C

Smart Inverter HP is designed for air -7°C, which can maximize your pool season.

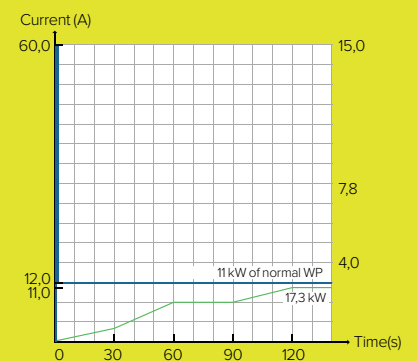
#### → Cooling function available

**SMARTER CHOICE:** When choosing a Smart Inverter, a bigger model is recommended so that the heat pump runs at low speed for a longer time with more benefits:

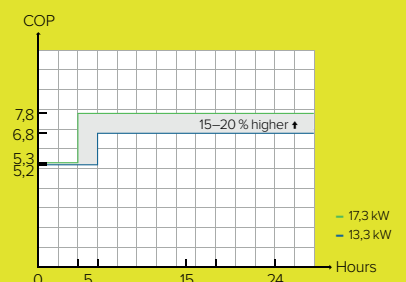
- heat faster
- save more → enjoy longer silent running time

#### Performance condition:

Air 15 °C | Water 26 °C | Humidity 70 %  
Maintain 26 °C water temperature for 45 m<sup>3</sup> pool



(Graph Soft Start)



# SMART HEATPUMP

## SPECIFICATIONS:



Item No.	7300199	7300200	7300201	7300202	7300203	7300204
Advised pool volume (m³)	15-30	18-35	20-40	30-60	40-75	50-95
<b>Performance condition: Air 26°C, Water 26°C, Humidity 80%</b>						
Heating capacity (kW)	6,0	8,0	9,2	12,5	16,5	20,5
C.O.P.	10.2-5.5	9.5-5.6	10.0-5.7	11.0-6.3	10.5-5.7	10.4-5.6
C.O.P. at 50% speed	8,8	8,2	8,6	9,5	9,1	9,0
<b>Performance condition: Air 15°C, Water 26°C, Humidity 70%</b>						
Heating capacity (kW)	4,2	6,0	7,0	9,0	11,5	14,0
C.O.P.	6.2-4.1	6.0-4.1	6.2-4.3	6.1-4.2	6.1-4.2	6.2-4.1
C.O.P. at 50% speed	6,0	6,1	5,8	6,0	6,2	5,9
Operating air temperature (°C)	0-43					
Rated input power (kW), air 15 °C	1,0	1,4	1,6	2	2,7	3,4
Rated current (A), air 15 °C	4,4	6,0	7,0	8,7	11,7	15,0
Power supply	230V/1 Ph/50Hz					
Advised water flux (m³/h)	2-4	2-4	3-4	4-6	6-8	8-10
Sound pressure 1m dB(A)	39.8-51.2	40.8-51.1	40.6-52.5	42.9-53.0	45.2-56.3	45.3-57.1
Sound pressure 10m dB(A)	19.8-31.2	20.8-31.1	20.6-32.5	22.9-33.0	25.2-36.3	25.3-37.1
Heating exchanger	titanium	titanium	titanium	titanium	titanium	titanium
Housing	metal	metal	metal	metal	metal	metal
Water pipe in-out specification (mm)	50	50	50	50	50	50
Dimensions L x W x H (mm)	864x349x648	864x349x648	864x349x648	864x349x648	954x349x648	954x349x648
Net weight (kg)	35	46	47	49	60	63

\*These datas are certified by TÜV Rheinland according to EN14511:2011, the standard is the same as DTP N°10 of FPP in France.

# TECHNOLOGY



### Hot gas defrosting

SAGINOMIYA 4 way valve provides an automatic defrosting and an operation above 0 °C.



### Principle of eev technology

EEV technology is with an electronic expansion valve, which permits very precise and flexible regulation of gas flow to adapt to fluctuations of ambient temperature. The gas flow adjustment range of EEV is 10 times of traditional Tx-valve/capillary designs. As a result, it improves the C.O.P. averagely by 15 to 20 %.



### Unique silver welding

Silver in the welding solder which guarantees a high reliability of gas piping system and prevents the gas leakage.



### Titanium heat exchanger

The heat exchanger is made of high class titanium tube, a stable and non-reactive material which is compatible with water treatment by salt electrolysis. The internal configuration design guarantees a high efficiency of the heat pump.

# SMART HEATPUMP PLUS

HEATING  
AND  
COOLING



## SPECIFICATIONS:

Item No.	78739	78740
Technology	EEV	EEV
<b>Performance condition: Air 26°C, Water 26°C</b>		
Heating capacity (kW)	45	60
C.O.P.	7	6,8
<b>Performance condition: Air 15°C, Water 26°C</b>		
Heating capacity (kW)	29,4	40,1
C.O.P. *	5,04	5,05
<b>Performance condition: Air 35°C, Water 28°C</b>		
Cooling capacity kW	27,0	36,0
E.E.R.	4,5	4,5
Rated input power kW *	5,8	7,9
Power supply	400V / 3Ph / 50Hz	
Rated current (A)	11,4	15,2
Operating air temperature °C	-7-43	-7-43
Recommended water flux m³/h	15-20	20-25
Sound power dB(A)	72,9	79,6
Sound level at 10 m dB(A)	45	51,7
Housing	ABS	ABS
Water pipe in-out specification mm	63	63
Dimensions L x W x H (mm)	1384x488x1388	1384x488x1388
Net weight (kg)	215	225

\*These datas are certified by TÜV Rheinland according to EN14511:2011, the standard is the same as DTP N°10 of FPP in France.

## 8 UNIQUE ADVANTAGES

- ★ Heating and cooling
- ★ Filled with environmental friendly R410a gas
- ★ Outstanding performance, 15–20 % energy saving
- ★ High end and durable ABS casing
- ★ Heating and cooling salt water treatment compatibility
- ★ Operation above air 0 °C
- ★ Digital LED controller
- ★ Auto defrost for the entire product range





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## HEAD QUARTER AND EXPORT

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