INVERTER-PLUS

COP up to 16 at Air 26°C/ Water 26°C/ Humidity 80%
 COP up to 8 at Air 15°C/ Water 26°C/ Humidity 70%
 TÜV Rheinland certified

Model	IPH45
More Efficient A B C C	
Less Efficient	TÜVRheinland
TÜV Rheinlan	d Certified
TÜV Rheinland Heating output kw (Air 26°C / Water 26°C / Hui	17 5~4 4
Heating output kw	17 5~4 4
Heating output kw (Air 26°C / Water 26°C / Hur	midity 80%) 17.5~4.4
Heating output kw (Air 26°C / Water 26°C / Hui Input power kw	midity 80%) 17.5~4.4 2.5~0.3 16.1~6.0

EU efficiency : Class A

Sound Pressure 10m dB(A) 24.2~32.9

V

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What is normal inverter?

The traditional HP runs by a fixed speed, while the normal Inverter HP is functioned by several fixed compressor and fan speeds. It allows the HP to adapt to several different capacity.

When the heating demand is high, the inverter HP compressor and fan run by high speed. When the heating demand is low, the Inverter HP compressor and fan run by middle/low speed.



INVERTER-PLUS — By Full-inverter-technology

Fairland Inverter-plus HP is the 1st full-inverter pool HP, powered by full-inverter compressor & full-inverter fan motor, which adjusts the compressor speed hertz by hertz, and the fan speed round by round. It matches pool intelligently with continuous & optimal efficiency. The Inverter-plus HP allows the heating capacity from 25% to 100% automatically according to pool demand, but most of the time, it only runs by middle & low speed for maximum efficiency.

When Fairland Inverter-plus runs by middle & low speed to maintain the pool temperature, the compressor and fan run super quietly. The Inverter-plus HP averagely runs by COP between 6.5 and 8.0 at Air 15°C/ Water 26°C/ Humidity 70% depends on pool size.

EU-EFFICIENCY-CLASS A

\mathbf{V}

Fairland Inverter-plus HP is the 1st inverter HP with full EU-Efficiency-Class A when maintaining the pool temperature.

The COP is 16.0~7.5 (Air 26°C/Water 26°C/Humidity 80%)

Air 26°C/ Water 26°C/ Humidity 80%		∖ IPH28 \	∖ IPH35 \ [\]	∖ IPH45 \\	\ IPH55 \\	\ IPH70 \	\ IPH70T \\	IPH100T
25% capacity	COP	16.1	16.0	16.1	16.0	16.2	16.1	16.4
25% capacity	Sound Pressure level dB(A)(1m)	39.5	42.8	44.2	44.7	48.6	48.6	49.6
45% capacity	COP	12.7	12.6	12.8	12.6	12.9	12.8	13.0
45 % capacity	Sound Pressure level dB(A)(1m)	39.8	43.1	43.9	45.2	48.7	48.7	49.8
80% capacity	СОР	7.9	7.8	7.6	7.5	7.7	7.6	7.8
0070 capacity	Sound Pressure level dB(A)(1m)		48.8	49.9	50.7	52.1	52.1	52.3
100% capacity	СОР	6.8	6.7	6.6	6.4	6.6	6.5	6.7
	Sound Pressure level dB(A)(1m)	48.2	52.1	52.9	53.8	55.5	55.5	55.8

The COP is 8.0~5.0 (Air 15°C/ Water 26°C/ Humidity 70%)

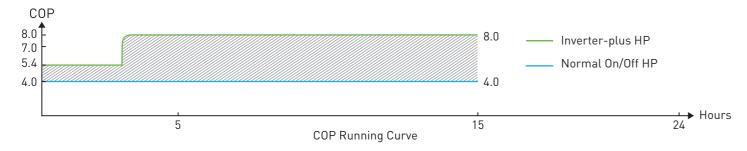
Air 15°C/ Water 26°C/ Humidity 70%		∖ IPH28 \`	\ IPH35 \\	IPH45	VIPH55	\ IPH70 \	\ IPH70T \	VIPH100T
25% capacity	COP	8.1	8.0	8.2	8.1	8.3	8.2	8.4
2570 capacity	Sound Pressure level dB(A)(1m)	39.5	42.8	44.2	44.7	48.6	48.6	49.6
45% capacity	COP	7.4	7.3	7.5	7.2	7.6	7.5	7.7
45 /0 capacity	Sound Pressure level dB(A)(1m)		43.1	43.9	45.2	48.7	48.7	49.8
80% capacity	COP	5.5	5.4	5.4	5.1	5.4	5.3	5.5
oo // capacity	Sound Pressure level dB(A)(1m)		48.8	49.9	50.7	52.1	52.1	52.3
100% capacity	COP	4.7	4.6	4.5	4.5	4.6	4.5	4.7
10070 cupucity	Sound Pressure level dB(A)(1m)	48.2	52.1	52.9	53.8	55.5	55.5	55.8

Why INVERTER-PLUS TECHNOLOGY?



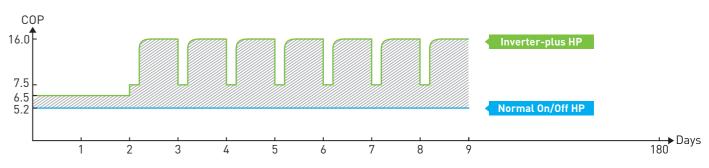
COP curve in 15 hours' heating per day :

● Maintain 26°C water temperature for 45m³ pool ② IPH45 (Air 15°C / Water 26°C / Humidity 70%)



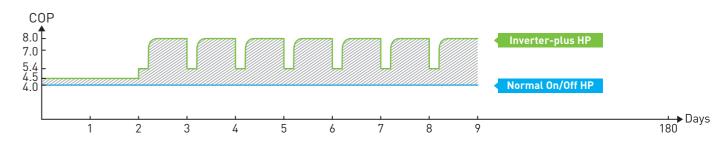
Inverter-plus HP VS Normal On/Off HP (in 6 months pool season)

Performance Condition: Air 26°C/ Water 26°C/ Humidity 80%



Inverter-plus HP VS Normal On/Off HP (in 6 months pool season)

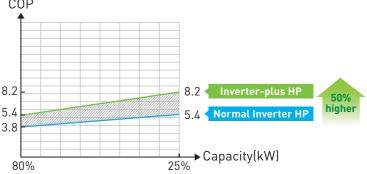
Performance Condition: Air 15°C/ Water 26°C/ Humidity 70%



> Inverter-plus HP VS Normal Inverter HP (When Maintaining Pool Temperature)

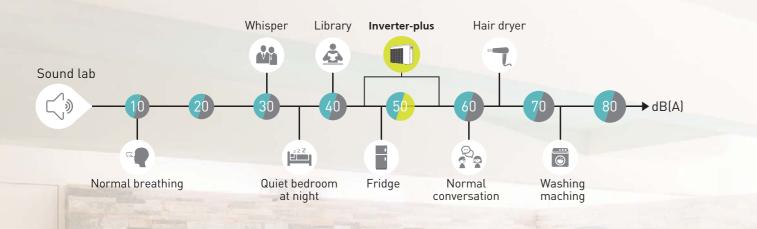
Performance Condition: Air 15°C/ Water 26°C/ Humidity 70% Air 26°C/ Water 26°C/ Humidity 80% COP COP 16.1 Inverter-plus HP 16. 8.2 7.5 rmal Inverter HP 5.4 5.2 3.8 ← 25% Capacity(kW) 80% 80%

Performance Condition:



2 10 Times Quieter

Inverter-plus HP adopts super quiet Mitsubishi inverter compressor and full-inverter ventilation system, which offers you a 10 times quieter swimming environment when maintaining the pool temperature.

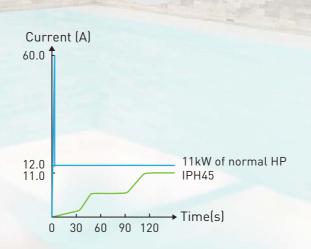


3 Aluminum-alloy Casing

Classic Aluminum-alloy casing and hidden screws, simple outlooking, life-time anti-rusting.

4 Soft Starter

When Inverter-plus HP turns on, the current will start from 0 A and slowly to rated current in 2 minutes. It will not affect the house electricity system. While the start current of normal on/off HP is 5 times of rated current, it is a burden to the electricity system





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

Silence Mode 6

At the beginning of the season, when the pool temperature reaches the set point, we suggest the customers to choose Silence Mode, so that the HP will run by 25%~80% capacity. Then the customer can benefit from the higher COP and enjoy more silence.

THINK BIGGER

Performance Condition: Air15°C / Water 26°C / Humidity 70%

2 Maintain 26°C water temperature for 45m³ pool

When choosing an INVERTER-PLUS, we suggest to choose a bigger model so that the HP can run longer by low speed, and bring more benefits:

Longer silent running time

▶ 15~20% higher C.O.P averagely

INVERTER-PLUS HEAT PUMP

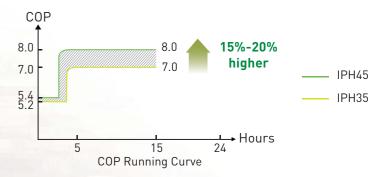
Model NO.	Heating capaicty A26/W26/ H80% (kW)	Heating capaicty A15/W26/ H70% (kW)	COP A26/W26/ H80%	COP A15/W26/ H70%	Rated input power (kW)	Sound pressure @1m dB(A)	Sound pressure @10m dB(A)	Operating air temp	Advised pool volume (m ³)
IPH28	11.5~2.8	7.5~1.9	16.1~6.8	8.1~4.7	1.7~0.22	39.5~48.2	19.5~28.2	-7°C	25~50
IPH35	13.5~3.4	9.5~2.3	16.0~6.7	8.0~4.6	2.1~0.25	42.8~52.1	22.8~32.1	-7°C	30~60
IPH45	17.5~4.4	11.5~2.8	16.1~6.6	8.2~4.5	2.5~0.33	44.2~52.9	24.2~32.9	-7°C	40~75
IPH55	21.5~5.4	14.5~3.4	16.0~6.4	8.1~4.5	3.33~0.44	44.7~53.8	24.7~33.8	-7°C	50~95
IPH70	28.2~7.1	18.3~4.6	16.2~6.6	8.3~4.6	4.0~0.58	48.6~55.5	28.6~35.5	-7°C	65~120
IPH70T	27.8~7.0	18.2~4.5	16.1~6.5	8.2~4.5	4.0~0.58	48.6~55.5	28.6~35.5	-7°C	65~120
IPH100T	36.5~9.2	24.2~6.2	16.4~6.7	8.4~4.7	5.2~0.79	49.6~55.8	29.6~35.8	-7°C	90~169

* The values indicated are valid under ideal conditions: Pool covered with an isothermal cover,

Above data is subject to modification without notice

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▶ Quicker heating

