

# COMFORTLINE INVERTER

The Most Economical DC-inverter Pool HP



## What is Comfortline Inverter ?

Comfortline Inverter is powered by DC-inverter compressor, it can adjust heating capacity from 20% to 100% intelligently according to different heating demands.

When season starts and heating demand is high, the Comfortline Inverter runs at 100% compressor & fan speed for fast heating.

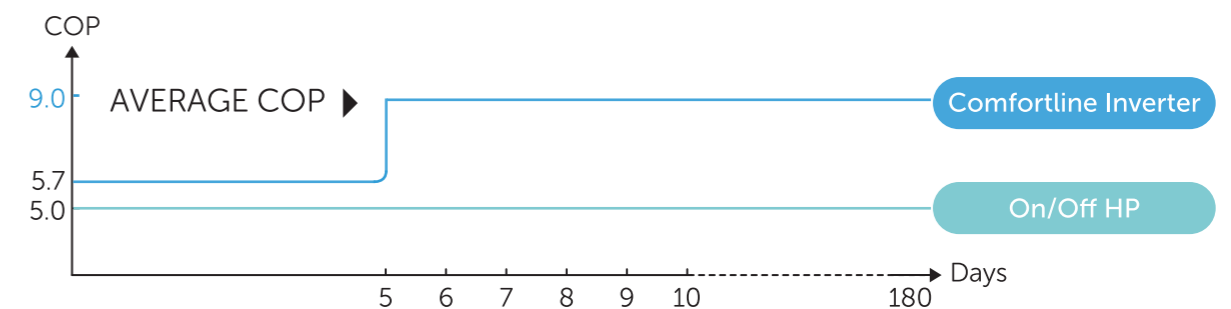
When maintaining the pool temperature, the Comfortline Inverter runs at low speed for energy saving with higher COP.

## 1 AVERAGE COP 9 (Air 26°C / Water 26°C / Humidity 80%)

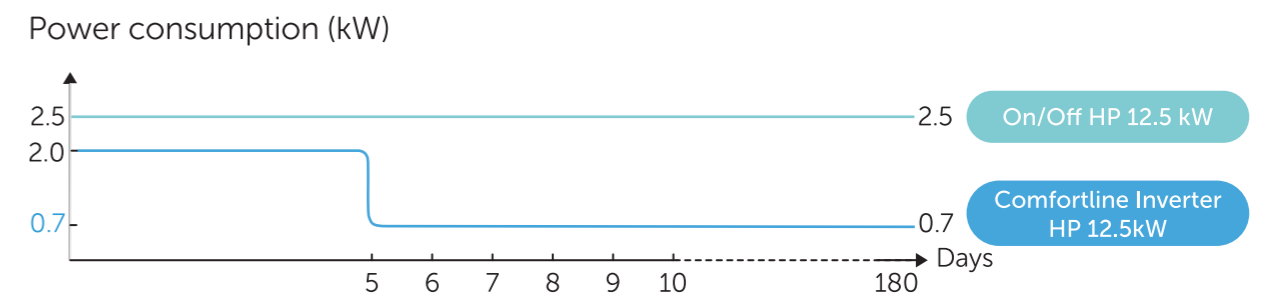
Comfortline Inverter AVERAGE COP is 9 (Air 26°C/ Water 26°C/ Humidity 80%), which means 1kW electricity consumption can provide up to 9kW heat in return. While On/Off HP can only provide 5kW heat as its COP is just around 5.

Capacity \ Model	BPN06	BPN08	BPN09	BPN13	BPN17	BPN21	BPN25
20% capacity	10.0	9.5	10.0	11.0	10.5	11.2	10.6
AVERAGE 50% capacity	8.8	8.2	8.6	9.5	9.1	9.2	9.0
100% capacity	5.8	5.6	5.7	5.9	5.7	5.6	5.8

Comfortline Inverter vs On/Off HP (in 180 days pool season)

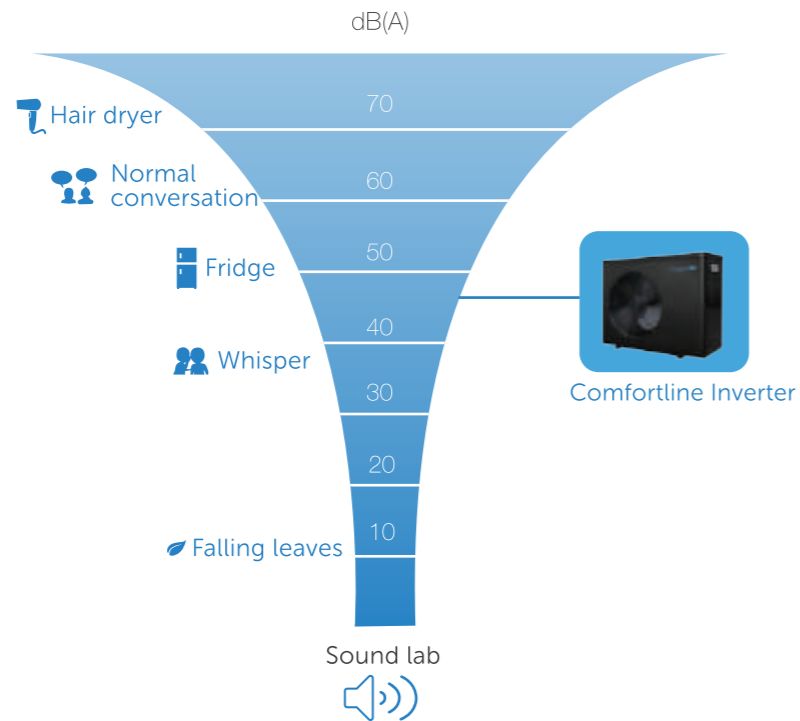


AVERAGE power consumption (in 180 days pool season)  
(e.g. 12.5kW at Air 26°C/ Water 26°C/ Humidity 80%)



## 2 7 Times Quieter

Thanks to quiet DC-inverter compressor, low-speed running philosophy of compressor & fan motor, Comfortline Inverter can offer you super quiet operation by 7dB(A) lower sound pressure at AVERAGE 50% capacity.



## 3 Other Advantages

General heat exchanger

Spiral titanium heat exchanger  
Enlarge 30% heat exchanging surface

Enable COP 20% higher than On/Off HP in the market

HP-BOOSTER technology

Fast defrosting

Saginomiya 4-way valve

### COMFORTLINE INVERTER HEAT PUMP SPECS (R410A)

Model	BPN06	BPN08	BPN09	BPN13	BPN17	BPN21	BPN25
Advised pool volume (m <sup>3</sup> )	14~28	20~35	20~40	30~55	35~70	45~85	55~100
Operating air temperature (°C)	0~43						
Performance Condition: Air 26°C/ Water 26°C/ Humidity 80%							
Heating capacity (kW)	6.5	8.0	9.2	12.5	16.5	20.5	25.0
COP	10.0~5.8	9.5~5.6	10.0~5.7	11.0~5.9	10.5~5.7	11.2~5.6	10.6~5.8
COP at 50% capacity	8.8	8.2	8.6	9.5	9.1	9.2	9.0
Performance Condition: Air 15°C/ Water 26°C/ Humidity 70%							
Heating capacity (kW)	4.5	6.0	7.0	9.0	11.5	14.0	17.0
COP	6.1~4.25	6.1~4.1	6.2~4.3	6.1~4.2	6.2~4.2	6.2~4.1	6.2~4.3
COP at 50% capacity	6.0	6.1	5.8	6.0	6.2	5.9	6.0
Sound pressure at 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	45.8~57.8
Sound pressure of 50% capacity at 1m dB(A)	43.8	43.9	45.8	48.5	48.7	49.6	50.1
Sound pressure at 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	25.8~37.8
Heat exchanger	Spiral titanium tube in PVC						
Casing	Metal casing with plastic coating						
Rated input power at air 15°C (kW)	0.35~1.0	0.34~1.4	0.34~1.6	0.36~2.0	0.56~2.7	0.6~3.4	0.68~3.95
Rated input current at air 15°C (A)	1.52~4.4	1.48~6.0	1.48~7.0	1.57~8.7	2.43~11.7	2.6~15.0	2.95~17.1
Power supply	230V/1 Ph/50Hz						
Advised water flux (m <sup>3</sup> /h)	2~4	2~4	3~4	4~6	6~8	8~10	10~12
Water pipe in-out size (mm)	50						
Net dimension LxWxH (mm)	744x359x648	864x359x648	864x359x648	864x359x648	954x359x648	954x359x748	1084x429x948
Net weight (kg)	42	46	47	49	60	68	90
Qty per 20'FT / 40'HQ (sets)	114/252	102/216	102/216	102/216	90/198	60/198	44/100

\* The advised pool volume indicated applies under following conditions: Swimming pool is well covered; system runs at least 15 hours per day;

\* The final specs will be in accordance with the specs on the product .

