# Comfortline Inverter

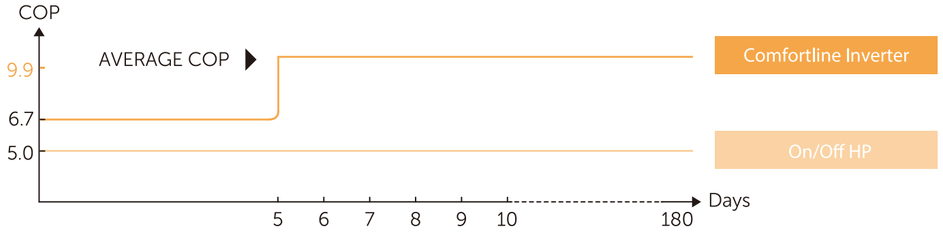
—Easy heat, easy fun

## Average COP 9.9

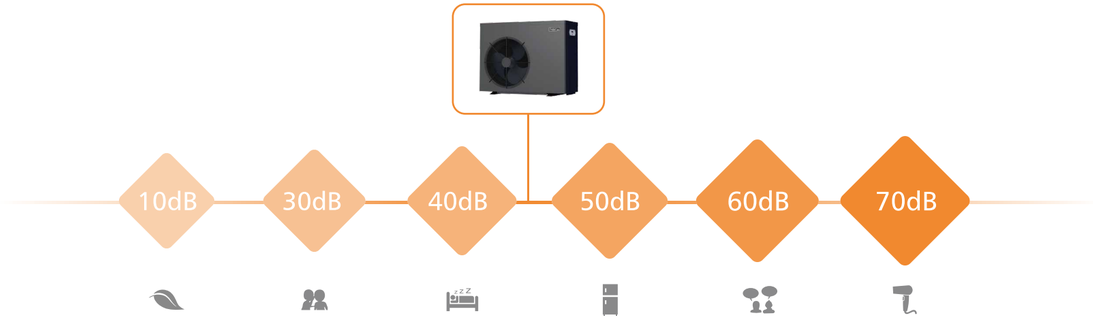
Comfortline Inverter AVERAGE COP is 9.9 (Air 26°C/ Water 26°C/ Humidity 80%), which means 1kW electricity consumption can provide up to 9.9kW heat in return. While On/Off HP can only provide 5kW heat as its COP is just around 5.

| Model / Capacity / COP | BPNR07 | BPNR09 | BPNR13 | BPNR17 | BPNR21 | BPNR24 |
|---|---|---|---|---|---|---|
| 20% capacity | 10.3 | 10.6 | 11.6 | 11.2 | 11.8 | 11.8 |
| AVERAGE 50% capacity | 9.3 | 9.6 | 10.1 | 9.7 | 10.2 | 10.2 |
| 100% capacity | 6.6 | 6.8 | 7.0 | 7.1 | 6.5 | 6.5 |

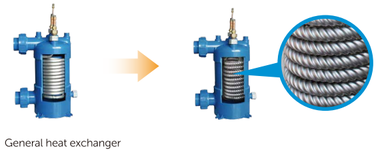
Comfortline Inverter vs On/off HP (in 180 days pool season)



## 7 Times Quieter




## 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 SPECS R32

| Model | BPNR07 | BPNR09 | BPNR13 | BPNR17 | BPNR21 | BPNR24 |
|---|---|---|---|---|---|---|
| Advised pool volume ($m^3$) | 15~30 | 20~35 | 30~50 | 35~65 | 45-80 | 55-90 |
| Operating air temperature (°C) | 0~43 | | | | | |
| Performance Condition: Air 26°C/ Water 26°C/ Humidity 80% | | | | | | |
| Heating capacity (kW) | 7.0 | 9.0 | 12.5 | 16.0 | 20.0 | 24.0 |
| COP | 10.3~6.6 | 10.6~6.8 | 11.6~7.0 | 11.2~7.1 | 11.8~6.5 | 11.8~6.5 |
| COP at 50% capacity | 9.3 | 9.6 | 10.1 | 9.7 | 10.2 | 10.2 |
| Performance Condition: Air 15°C/ Water 26°C/ Humidity 70% | | | | | | |
| Heating capacity (kW) | 5.0 | 6.3 | 8.5 | 11.0 | 14 | 16.0 |
| COP | 6.0~4.8 | 6.1~4.5 | 6.3~4.8 | 6.4~4.7 | 6.5~4.6 | 6.5~4.6 |
| COP at 50% capacity | 5.8 | 5.7 | 6.1 | 5.9 | 6.1 | 6.2 |
| Sound pressure at 1m dB(A) | 38.8~50.2 | 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) | 42.8 | 45.8 | 48.5 | 48.7 | 49.6 | 50.1 |
| 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 | 25.8~37.8 |
| Heat exchanger | Spiral titanium tube in PVC | | | | | |
| Casing | Metal casing with plastic coating | | | | | |
| Power supply | 230V/1 Ph/50Hz | | | | | |
| Rated input power at air 15°C (kW) | 0.29~1.04 | 0.36~1.40 | 0.47~1.78 | 0.59~2.34 | 0.75~3.04 | 0.86~3.48 |
| Rated input current at air 15°C (A) | 1.26~4.52 | 1.57~6.09 | 2.02~7.74 | 2.52~10.17 | 3.26~13.21 | 3.74~15.13 |
| Advised water flux ($m^3$/h) | 2~4 | 3~4 | 4~6 | 6.5~8.5 | 8~10 | 10~12 |
| Water pipe in-out size (mm) | 50 | | | | | |
| Net dimension LxWxH (mm) | 744x359x648 | 864x359x648 | 864x359x648 | 954x359x648 | 954x359x748 | 954x429x755 |
| Net weight (kg) | 42 | 46 | 49 | 60 | 68 | 78 |
| Qty per 20'FT / 40'HQ (sets) | 114/252 | 102/216 | 102/216 | 90/198 | 60/198 | 52/165 |

* 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 .

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