

Inverter Comfortline SPECS

R32

Model	AMIR07	AMIR09	AMIR13	AMIR17	AMIR21	AMIR24
Advised pool volume (m³)	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	14.0	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 (m³/h)	2~4	3~4	4~6	6.5~8.5	8~10	10~12
Water pipe in-out size (mm)						
Net dimension LxWxH (mm)	744×359×648 metal	864×359×648 metal	864×359×648 metal	864×359×648 metal	864×359×648 metal	954×429×755 metal
Net Weight (kg)	42	46	49	60	68	68
Qty per 20'FT / 40'HQ (sets)	114/252	102/216	102/216	90/198	60/198	52/165

* The values indicated are valid under ideal conditions: Pool is well covered, filtration system running at least 15 hours a day.
* Above data is subject to modification without notice.



Inverter Comfortline

Inverter Comfortline
The Most Economical Pool Heat Pump



What is Inverter Comfortline ?

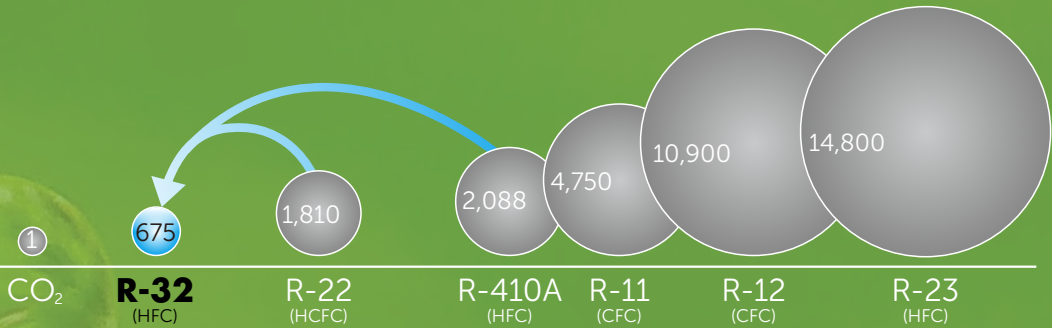
Inverter Comfortline is powered by DC-inverter compressor, it can adjust heating capacity from 20% to 100% intelligently according to different heating demands.

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

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

MORE ECO FRIENDLY

100 Year Global Warming Potential of Different Refrigerants *

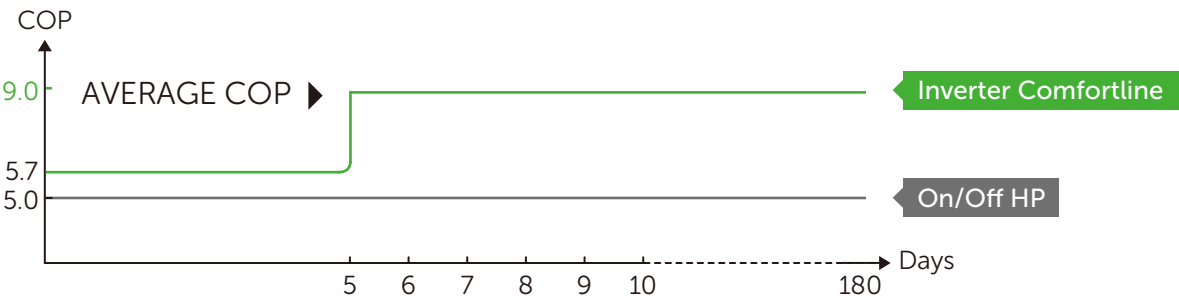


1 AVERAGE COP 9 (Air 26°C / Water 26°C / Humidity 80%)

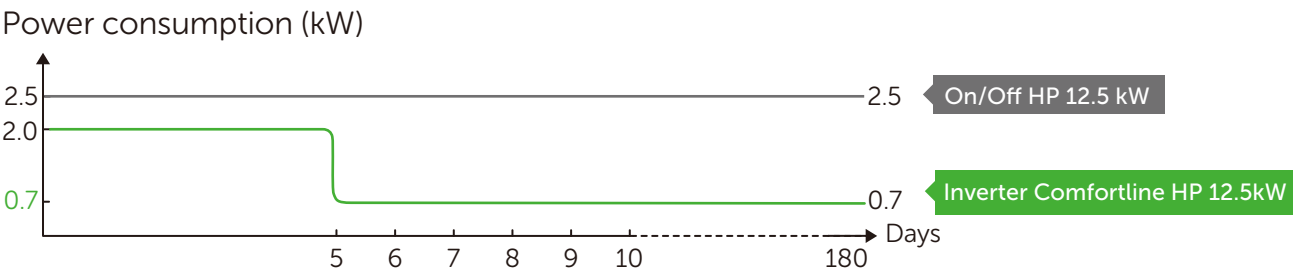
Inverter Comfortline AVERAGE COP is 9 at Air 26°C/ Water 26°C/ Humidity 80%, which means 1kW electricity consumption can provide up to 9kW heat in return. While On/Off HP can only provide 5kW heat as its COP is just around 5.

Capacity \ Model	AMIR07	AMIR09	AMIR13	AMIR17	AMIR21	AMIR24
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

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

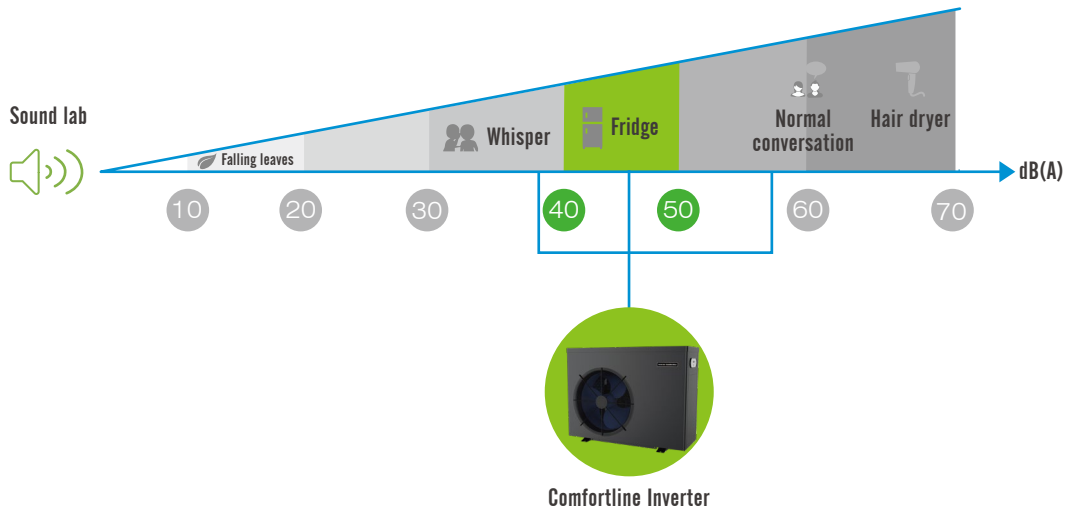


◆ AVERAGE power consumption (in 180 days pool season)
(e.g. 12.5kW at Air 26°C/ Water 26°C/ Humidity 80%)



2 7 Times Quieter

Thanks to quiet DC inverter compressor, low-speed running philosophy of compressor & fan motor, Inverter Comfortline 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