



**Comet & Miracle**  
Smart Swimming Pool Heat Pumps



### 3 Operation Modes

- BOOST
- SILENT
- SMART

### R32 Eco-Friendly

Compared to R410A:

- 70% less GWP
- 70% less F-gas quota cost

R32	R410A
GWP 675	GWP 2088

### Wide Voltage Application

Self-adjusts to fit in unstable power supply for a voltage range of 180~260V.

180~260V

### Fully Protected Electrical System

Our pump's DC inverter compressor will start from 0 Amps to rated Amps steadily with no rush to the house electricity system.

Time (Mins)	Inverter (Amps)	On/Off (Amps)
0	0.0	50.0
30	~8.0	11.8
60	10.0	11.8
90	10.0	11.8

- Stepless DC Inverter**
- R32**
- 21 dB(A) [at 10 m]**

Average - COP 10  
90% Free Energy

30% F-Gas Quota of R410a

Super Quiet

- Tailor-made
- Smart Wi-Fi Control
- 15 Year Warranty
- Independent Research & Development

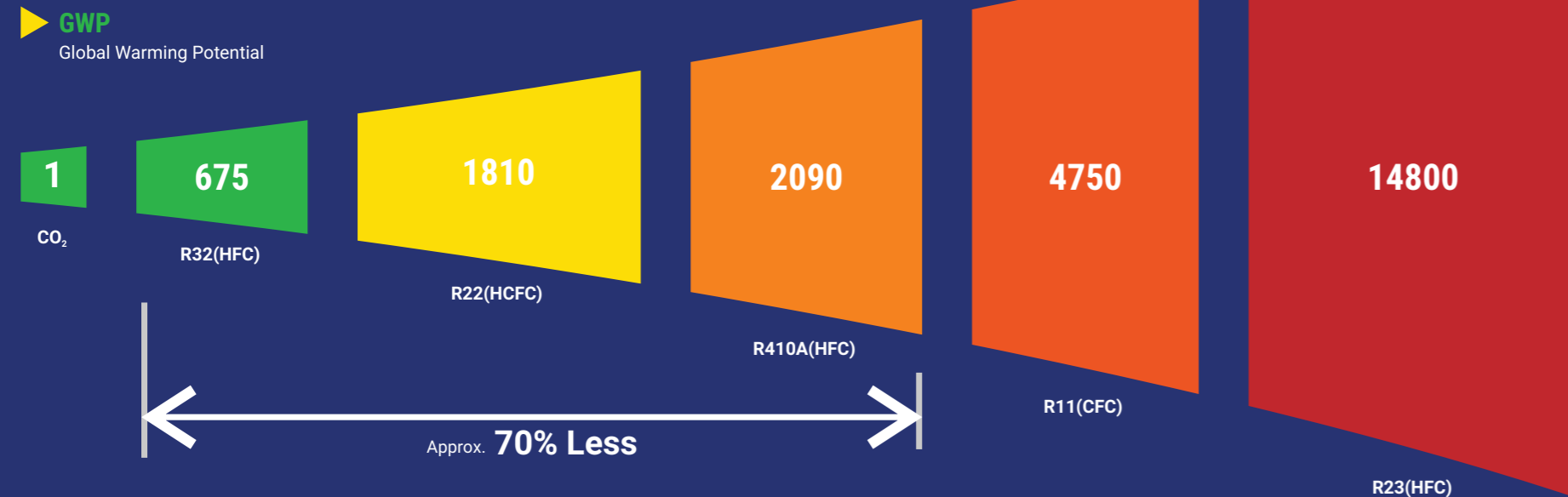
Tailor-made

Smart Wi-Fi Control

15 Year Warranty

Independent Research & Development

# What is R32?



Compared to the refrigerants widely used today, such as R22 and R410A, R32 has a global warming potential that is two-thirds lower. Its remarkably low environmental impact is credit to its popularity in the industry. R32 is the next generation in refrigerant that efficiently carries heat with lower environmental impact.

**F-GAS REGULATION IN EUROPE**

The European Commission has announced that all the equipment containing fluorinated greenhouse gasses should fall under EU F-Gas Regulation.



Unique Air-Stream Design

Stepless DC Inverter

## SILENT & EFFICIENT HIGH COP TO SAVE ENERGY COST


Our pumps adopt an industry-leading efficient stepless DC inverter control system. With smart conversion of compressor, fan motor & pressure system, it provides amazing energy saving performance with Average-COP 10.





## INNOVATIVE TECHNOLOGY


Our pumps adopt an advanced stepless DC Inverter System to control the running speed of the compressor and fan automatically, as well as an innovative air-stream design for noise reduction.



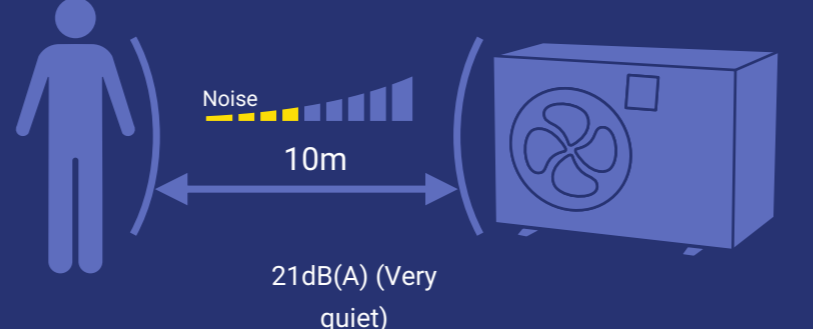
Stepless Twin-Rotary Inverter Compressor



Stepless Comfort Speed Conversion



DC Brushless Fan Motor



21dB(A) (Very quiet)

## SMART WI-FI CONTROL

Control or check your pump anywhere with the Solarwise App!



## INDEPENDENT RESEARCH & DEVELOPMENT





# REDUCED CARBON FOOTPRINT

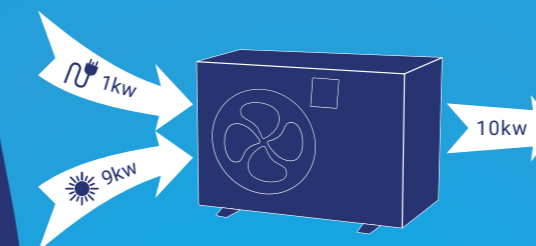
CUT YOUR ENERGY BILL BY 90%

**COP** High COP **Average-COP 10**

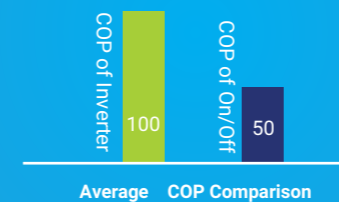
Our pumps can maintain pool temperature for 95% of the pool season whilst saving energy by running a lower variable capacity.

### 90% Free Energy

Thanks to Adaptable Inverter Technology, our pumps provide an average of 90% free energy from ambient air.



**Double energy saving than on/off**



## FEATURES



Tailor-made LCD Controller



**Spiral Threaded Anti-Corrosive Titanium Heat Exchanger:** 40% higher efficiency than normal titanium heat exchanger



**EEV Throttling Technology:** 10 times flexibility to adjust the Gas Flow and increase COP by up to 20%



**DC Stepless Inverter Compressor**



**Hot Gas Defrosting** with 4-way valve for quick & efficient defrosting



**Stainless Steel Cabinet with a 15 Year Warranty:** Very long lasting, tough and durable for Aussie conditions. No issues with corrosion or early degradation like a powder-coated or plastic case.



**Unique Air-Stream Design**

Designed for low ambient minimum **-10°C** operation to extend your swimming season!

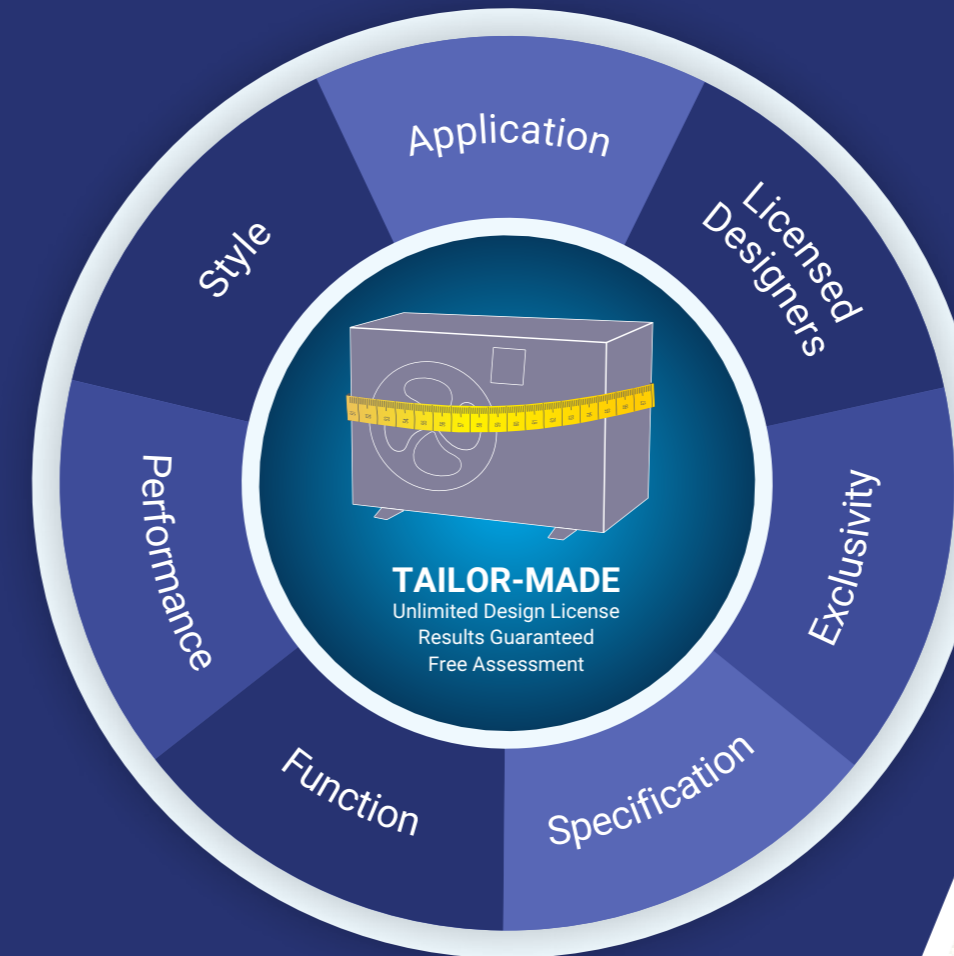
  
**-10°C**



# INVERTER TECHNOLOGY



Models		COMET 118 -090R	COMET-120R	COMET-180R
Air 27°C / Water 27°C / Humid. 80%	Capacity(kW)	14.11	18.46	26.84
	COP range	6.70 ~ 18.2	6.43~18.5	5.14 ~13.5
Air 24°C / Water 26°C / Humid. 80%	Capacity(kW)	12.88	16.64	23.51
	COP range	5.98 ~ 10.8	5.81 ~ 10.5	4.56 ~ 7.2
Air 15°C / Water 26°C / Humid. 70%	Capacity(kW)	10.64	13.61	19.71
	COP range A	4.88-8.5	5.02 ~ 8.4	4.14 ~ 6.2
Rated Input Current (A)		9.74 ~ 1.21	12.48 ~ 1.23	22.7 ~ 3.45
Refrigerant		R32	R32	R32
Flow Rate	m³/h	5 ~ 7	7 ~ 9	10 ~ 12
Rated Input Power (kW)	kW	0.2 ~ 2.24	0.23 ~ 2.87	0.75 ~ 5.22
Maximum Input Current	A	11.5	14.48	25.50
(A) Package Dimensions		960*408*793	1150*480*843	1150*480*843
(mm) Unit Net Dimensions		933*401*657	1125*470*707	1125*470*707
(mm) Net Weight	kg	70	80	95
Gross Weight	kg	80	90	105
Noise at 10m		21 ~ 35	23 ~ 35	24 ~ 36
Compressor Type		Rotary	Rotary	Rotary
Water Proof Level		IPX4	IPX4	IPX4



# FIXED SPEED

## HIGH EFFICIENCY COMET AND MIRACLE HEAT PUMPS

<b>STAINLESS STEEL CASE.</b>									
<b>HIGH EFFICIENCY.</b>									
<b>Unit Model. R32 Refrigerant</b>	<b>CASE</b>	<b>27C Air</b>	<b>24C Air</b>	<b>15C Air</b>	<b>MOC</b>	<b>Amps</b>	<b>Water</b>	<b>Flow Rate</b>	<b>SIZE**</b>
<b>Unit Model. R32 Refrigerant</b>	<b>TYPE</b>	<b>kW</b>	<b>RH 60%</b>	<b>RH 60%</b>	<b>Power</b>	<b>Phase</b>	<b>Connect</b>	<b>Ltrs/Min</b>	<b>L x W x H</b>
COMET 108-70R	S/Steel	8	7.23	5.11	1-Ph	7.48	40mm	64	0.793 x 0.370 x 0.553
COMET 112-100R	S/Steel	11	10.22	7.51	1-Ph	8.87	40mm	75	0.793 x 0.370 x 0.553
COMET 115-120R	S/Steel	13	12	9.08	1-Ph	10.48	40mm	87	0.926 x 0.381 x 0.657
COMET 118-140R	S/Steel	14	13	10.13	1-Ph	11.96	40mm	83 to 116	0.926 x 0.381 x 0.657
<b>Unit Model. 410A Refrigerant</b>									
MIRACLE 341	S/Steel	32	29	24	3-Ph	14	40mm	170	1.11 x 0.42 x 1.22

