SPRSUN

R32
Refrigerant

Full Inverter
Swimming Pool Heat Pump



A Professional Heat Pump Manufacturer Since 1999

APP Control

Wi Fi

Science Your Swim
Always Perfectly Warm



Full Inveter Tech

PID Control System

up to COP20

as low as 38.6dB(A) at 1m

Mode: Strong/ Smart/ Silent

Galvanized Steel Sheet

HIGH-QUALITY COMPONENTS



Panasonic/Mitsubishi Rotary Compressor



Danfoss Electronic Expansion Valve



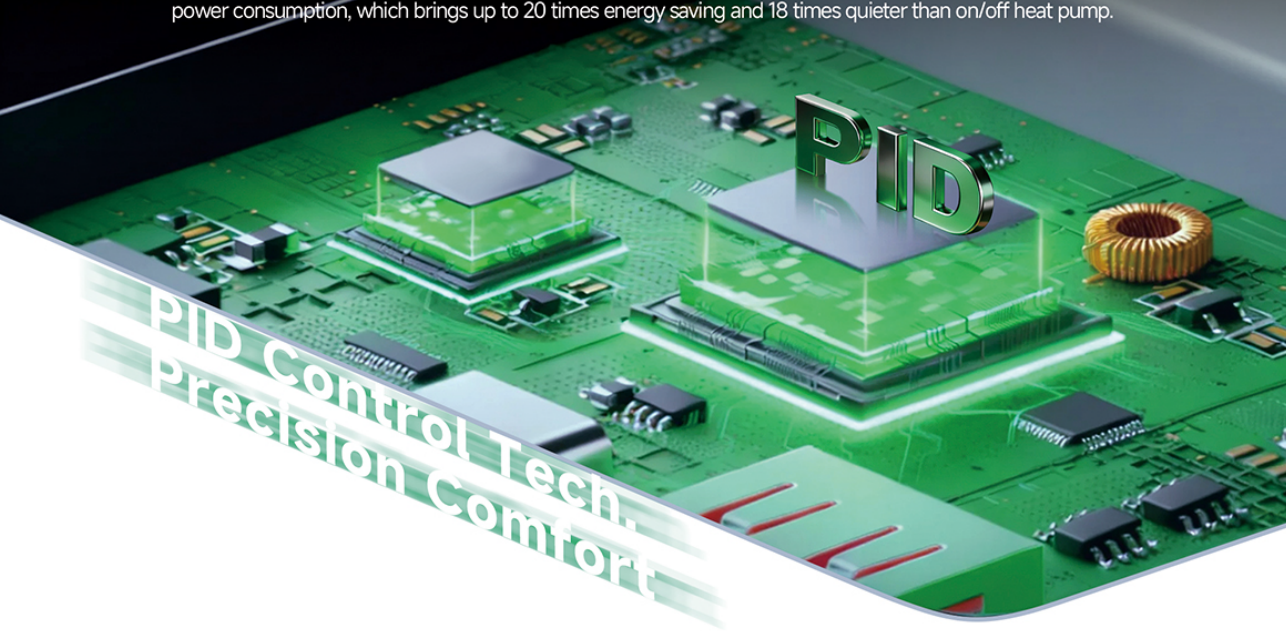
Nidec DC Fan Motor



Twisted Titanium Heat Exchanger

WHAT'S SPRSUN PID FULL INVERTER TECH?

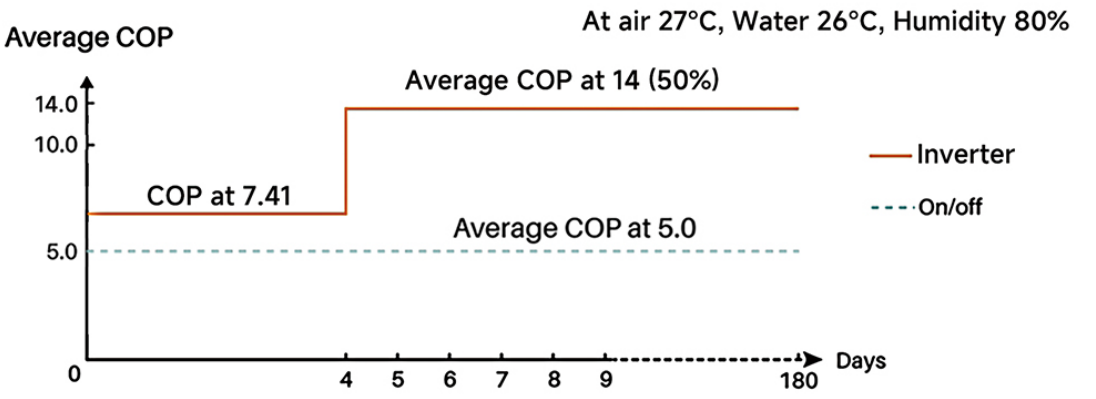
SPRSUN Full Inverter Pool Heat Pump is powered by Self-Developed PID Control System which drives the DC-inverter Twin-Rotary compressor hertz-by-hertz and runs the DC-inverter brushless fan motor round-by-round to achieve the optimum performance. It works at 100% speed to reach to the set temperature and then maintain the required temperature at an averagely of 30%~50% of power consumption, which brings up to 20 times energy saving and 18 times quieter than on/off heat pump.

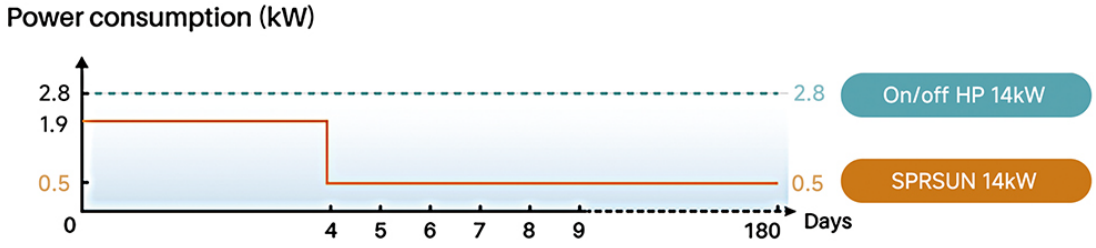


WHY SPRSUN PID FULL INVERTER TECH?

AVERAGE power consumption (in 180 days swimming season)

(e.g.14.0 kW at Air 27°C/Water 26°C/Humidity 80%)







Full Inveter Tech

PID Deforsting Tech

Panasonic Rotary Compressor

as low as 38.6dB(A) at 1m

Nidec DC Fan Motor

Touch Controller & WiFi

3 YEAR Warranty 3-Year

≥ 20 Times Energy Saving

On/Off : **COP5** | Ocean Series: **COP up to 20**

≥ 18 Times Quieter

On/Off : **56~60 dB(A) at 1m** | Ocean Series: **38.6dB(A) at 1m**



Rustling leaves	As low as	rainfall
20 dB(A)	38.6 dB(A)	50 dB(A)





SPECIFICATION

Model	CGY015V3	CGY020V3	CGY025V3	CGY030V3	CGY035V3	CGY040V3	CGY050V3	CGY060V3	CGY-050V3	CGY-060V3	CGY-080V3
Advised Pool Volume (m^3)	15-20	20-30	25-40	30-60	40-80	50-100	50-100	60-120	50-100	60-120	80-140
Operating air temperature (°C)	-15°C~43°C										
Heating Capacity kW (1)	6.5	9	10.5	14	17	23	28	30	28	32	39
C.O.P Max./Min. (1)	18.5~6.9	19.0~7.52	20.03~7.45	19.3~7.41	19.5~7.28	19.2~7.32	19.4~7.05	19.3~7.04	19.4~7.05	19.3~7.04	19.2~6.98
COP at 50% capacity	13.3	14.2	14.1	14	13.8	13.9	13.6	13.5	13.6	13.5	13.4
Heating Capacity kW (2)	4.7	6.5	7.6	10.1	12.2	16.6	20.2	21.6	20.2	23	28.1
C.O.P Max./Min.(2)	11.6~4.8	11.9~5.23	12.5~5.18	12.0~5.15	12.1~5.06	12.03~5.09	12.0~4.9	11.95~4.89	12.0~4.9	11.95~4.89	11.93~4.85
Cooling Capacity kW (3)	3.6	5	5.8	7.7	9.4	12.7	15.4	16.5	15.4	17.6	21.5
E.E.R Max./Min.(3)	4.68/3.12	5.1/3.4	5.05/3.37	5.02/3.35	4.93/3.29	4.96/3.31	4.78/3.18	4.77/3.18	4.78/3.18	4.77/3.18	4.73/3.15
Noise Level at 1m dB(A)	38.6~45.4	39.6~46.4	39.8~46.6	39.8~47.9	42.0~48.7	43.2~51.5	43.9~51.8	44.1~52.3	43.9~51.8	44.1~52.3	45.5~53.5
Sound pressure at 10m dB(A)	18.6~25.4	19.6~26.4	19.9~26.7	19.8~27.9	22.0~28.7	22.9~31.5	23.3~31.8	24.1~32.3	23.3~31.8	24.1~32.3	25.5~33.5
Compressor	Panasonic Rotary Compressor										
Casing	Galvanized Steel Sheet										
Heat exchanger	Titanium Tube in PVC										
Power Supply	220-240V/50HZ/1PH								380-420V/50HZ/3N		
Rated Current (A)	4.5	5.7	6.7	9	11.2	15	19	20.4	8.4	9.6	11.8
Max Current (A)	6.5	8.3	9.8	13.1	16.2	21.8	27.55	29.56	12.15	13.91	17.1
Max Power Input (kW)	1.34	1.70	2.00	2.68	3.32	4.46	5.64	6.05	5.64	6.45	7.93
Advised water flux (m^3/h)	2.8	3.9	4.5	6.0	7.3	9.9	12.0	12.9	12.0	13.8	16.8
Refrigerant	R32										
Water pipe in-out size (mm)	50										
Net Dimension(L×D×H)	930*380*670	930*380*670	930*380*670	1090*510*820	1090*510*820	1090*510*1000	1090*510*1000	1090*550*1100	1090*510*1000	1090*510*1000	1090*550*1100
Net Weight (kg)	48	57	64	88	92	105	124	135	124	130	150
Qty per 20'FT / 40'HQ (sets)	66/144	66/144	66/144	26/60	26/60	26/60	26/60	12/52	26/60	12/52	12/52

Note: (1) Performance Condition: Air 27°C/Water 26°C/Humidity 80%
(2) Performance Condition: Air 15°C/Water 26°C/Humidity 70%
(3) Performance condition: Air 35°C/Water 28°C/Humidity 64%

The information in this document is just for reference. Since the continuous improvement and control in the production process, the information contained in this document may be subject to change. Please refer to the nameplate on the machine for model specifications.

PID
Smart Control Technology

Max COP 17.3

OceanPro Series



- Full Inveter Tech
- EC Centrifugal Fan
- as low as 40.6dB(A) at 1m
- Mitsubishi/ Panasonic Rotary Compressor
- PID Defrosting Tech
- Touch Controller & WiFi
- 3 YEAR Warranty 3-Year



Centrifugal Fan



Axial Fan

≥ 17 Times Energy

1kW input can be converted into a maximum heating output of 17kW.

≥ 16 Times Quieter

On/Off : **56~60 dB(A) at 1m** | OceanPro Series: **40.6dB(A) at 1m**



Rustling leaves	As low as	rainfall
20 dB(A)	40.6 dB(A)	50 dB(A)





SPECIFICATION

Model	CGY025V3-C	CGY030V3-C	CGY035V3-C	CGY050V3-C	CGY-050V3-C	CGY-080V3-C
Advised Pool Volume (m^3)	25-40	30-60	40-80	50-100	50-100	80-140
Operating air temperature (°C)	-15°C~43°C					
Heating Capacity kW (1)	10.5	14	17	27.2	27.5	37
C.O.P Max./Min. (1)	17.25~7.13	17.3~7.16	17.2~7.0	17.0~6.8	17.2~7.0	16.9~6.6
COP at 50% capacity	13.33	13.38	13.08	12.71	13.08	12.34
Heating Capacity kW (2)	7.6	10.1	12.2	19.6	19.8	26.6
C.O.P Max./Min.(2)	11.1~4.96	11.15~4.98	11.1~4.87	10.95~4.73	11.1~4.87	10.8~4.59
Cooling Capacity kW (3)	5.8	8	9.4	13.3	13.8	20.4
E.E.R Max./Min.(3)	4.83/3.22	5.6/3.73	4.74/3.16	3.92/2.61	3.92/2.61	4.33/2.89
Noise Level at 1m dB(A)	40.6~51.9	43.3~56.0	45.1~55.8	45.5~56.9	45.5~56.9	46.3~57.7
Sound pressure at 10m dB(A)	20.6~31.9	22.3~36.0	25.1~35.8	25.5~36.9	25.5~36.9	26.3~37.7
Compressor	Panasonic/Mitsubishi Rotary Compressor					
Casing	Galvanized Steel Sheet					
Heat exchanger	Titanium Tube in PVC					
Power Supply	220-240V/50HZ/1PH				380-420V/50HZ/3N	
Rated Current (A)	7.0	9.4	11.6	19.1	8.3	11.8
Max Current (A)	10.2	13.6	16.8	27.75	12.02	17.15
Max Power Input (kW)	2.09	2.78	3.45	5.68	5.58	7.96
Advised water flux (m^3/h)	4.5	6	7.3	11.7	11.8	15.9
Refrigerant	R32					
Water pipe in-out size (mm)	50					
Net Dimension(L×D×H)	1090*510*820	1090*510*820	1090*510*820	1085*556*970	1085*556*970	1181*556*1070
Net Weight (kg)	64	88	92	135	124	150
Qty per 20'FT / 40'HQ (sets)	/	/	/	/	/	/

Note: (1) Performance Condition: Air 27°C/Water 26°C/Humidity 80%
(2) Performance Condition: Air 15°C/Water 26°C/Humidity 70%
(3) Performance condition: Air 35°C/Water 28°C/Humidity 64%

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Full Inveter Tech

PID Deforsting Tech

as low as 43.3dB(A) at 1m

GMCC / Panasonic Rotary Compressor

LT MOTOR/ Nidec DC Fan

Touch Controller & WiFi

Warranty 3-Year

≥ 16 Times Energy

On/Off : **COP5** | OceanStar Series: **COP up to 16**

≥ 13 Times Quieter

On/Off : **56~60 dB(A) at 1m** | OceanStar Series: **43.3dB(A) at 1m**



Rustling leaves
20 dB(A)

As low as
43.3 dB(A)

Office environment and washing machine
60~70 dB(A)





SPECIFICATION

Model	CGY020V3-B	CGY025V3-B	CGY030V3-B	CGY035V3-B	CGY040V3-B
Advised Pool Volume (m^3)	20-40	30-45	35-50	40-60	55-80
Operating air temperature (°C)	-15°C~43°C				
Heating Capacity kW (1)	10.4	12.2	14.1	16.1	23
C.O.P Max./Min. (1)	16.05~6.3	16~6.28	16.12~6.33	15.73~6.1	15.65~6.18
COP at 50% capacity	10.71	10.68	10.76	10.37	10.51
Heating Capacity kW (2)	7.7	9.4	10.5	12.1	16.6
C.O.P Max./Min.(2)	10.11~4.62	10.08~4.58	10.16~4.6	10.0~4.4	10.03~4.3
Cooling Capacity kW (3)	5.4	7.2	7.6	9	12.7
E.E.R Max./Min.(3)	5.22/3.48	5.51/3.67	6.0/4.0	5.22/3.48	4.19/2.79
Noise Level at 1m dB(A)	43.3~54.8	44.9~55.0	47.2~58.3	48.2~59.3	49.1~59.8
Sound pressure at 10m dB(A)	23.3~34.8	24.9~35.0	27.2~38.3	28.2~39.3	29.1~39.8
Compressor	GMCC /Panasonic Rotary Compressor				
Casing	Galvanized Steel Sheet				
Heat exchanger	Titanium Tube in PVC				
Power Supply	220-240V/50HZ/1PH				
Rated Current (A)	7.9	9.3	10.7	12.6	17.8
Max Current (A)	11.5	13.5	14.4	18.3	25.82
Max Power Input (kW)	2.34	2.76	3.01	3.75	5.28
Advised water flux (m^3/h)	4.5	5.2	6.1	6.9	9.9
Refrigerant	R32				
Water pipe in-out size (mm)	50				
Net Dimension(L×D×H)	930*330*610	1020*360*660	1020*360*660	1020*360*660	1090*510*1000
Net Weight (kg)	50	57	60	68	105
Qty per 20'FT / 40'HQ (sets)	90/186	52/162	52/162	52/162	26/60

Note: (1) Performance Condition: Air 27°C/Water 26°C/Humidity 80%
(2) Performance Condition: Air 15°C/Water 26°C/Humidity 70%
(3) Performance condition: Air 35°C/Water 28°C/Humidity 64%

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e-Catalogue

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