

4
SEASON FUN
SEASON GYM



2022 for North America



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TurboSilence Inverter

4 SEASON GYM SEASON FUN



THINK BIGGER
MORE POWERFUL, MORE SILENT



Quick Search Criteria

AHRI Certified Reference Number

Brand Name
 FAIRLAND

Model Number (For Split System - Air side or for Packaged Unit)

Model Number 2 (For Split System Only - water side)

High Air Temperature High Humidity Heating Capacity, btuh
 Min Max

High Air Temperature High Humidity COP
 Min Max

High Air Temperature Mid Humidity Heating Capacity, btuh
 Min Max

High Air Temperature Mid Humidity COP
 Min Max

Low Air Temperature Mid Humidity Heating Capacity, btuh
 Min Max

Low Air Temperature Mid Humidity COP
 Min Max

[Conduct Advanced Search](#)

Heat Pump Pool Heaters

[Export Search Results](#)

AHRI Certified Reference Number	Old AHRI Reference Number	Model Status	Series Name	Brand Name	Model Number (For Split System - Air side or for Packaged Unit)	Model Number2 (For Split System Only - water side)	AHRI Type	Refrigerant Type	AHRI Certified Ratings						Volts	Phase	Hertz	Is Rerated
									High Air Temperature High Humidity Heating Capacity, btuh	High Air Temperature High Humidity COP	High Air Temperature Mid Humidity Heating Capacity, btuh	High Air Temperature Mid Humidity COP	Low Air Temperature Mid Humidity Heating Capacity, btuh	Low Air Temperature Mid Humidity COP				
205281505		Active		FAIRLAND	FI400***		SPPH-H/C	R-410A	35000	6.0	33500	5.4	18000	4.1	208/230	1	60	
205281506		Active		FAIRLAND	FIC400***		SPPH-H/C	R-410A	35000	6.0	33500	5.4	18000	4.1	208/230	1	60	
205281507		Active		FAIRLAND	BP400***		SPPH-H/C	R-410A	35000	6.0	33500	5.4	18000	4.1	208/230	1	60	
205281508		Active		FAIRLAND	BPC400***		SPPH-H/C	R-410A	35000	6.0	33500	5.4	18000	4.1	208/230	1	60	
205281509		Active		FAIRLAND	CL400***		SPPH-H/C	R-410A	35000	6.0	33500	5.4	18000	4.1	208/230	1	60	
205281510		Active		FAIRLAND	CLC400***		SPPH-H/C	R-410A	35000	6.0	33500	5.4	18000	4.1	208/230	1	60	
205281511		Active		FAIRLAND	SI400***		SPPH-H/C	R-410A	35000	6.0	33500	5.4	18000	4.1	208/230	1	60	
205281512		Active		FAIRLAND	SIC400***		SPPH-H/C	R-410A	35000	6.0	33500	5.4	18000	4.1	208/230	1	60	
205281513		Active		FAIRLAND	AI400***		SPPH-H/C	R-410A	35000	6.0	33500	5.4	18000	4.1	208/230	1	60	
205281514		Active		FAIRLAND	AIC400***		SPPH-H/C	R-410A	35000	6.0	33500	5.4	18000	4.1	208/230	1	60	
205281515		Active		FAIRLAND	BW400***		SPPH-H/C	R-410A	35000	6.0	33500	5.4	18000	4.1	208/230	1	60	

Show 250 entries

AHRI Certification

The COP, heating capacity & sound pressure of Fairland Full-inverter heat pumps are certified by AHRI standard 1160

<https://www.ahridirectory.org>



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INVERTER

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01

ABOUT FAIRLAND



MISSION

One Swimming Pool
One Inverter

Position

Inverter Swimming Pool

PHILOSOPHY

Simple & Focus

As a pool heat pump specialist who focuses on providing the best pool heating solution in the past 20 years, Fairland has continually invested in Technology & Innovation and successfully led the global trend of inverter pool heat pump in pool industry. It is a great honor to see Fairland can really contribute to energy-saving and environment-protection together with our partners.

In the following days, Fairland will still insist on the aim of " Ultimate customer experiences", listen and respect customer needs, provide more Intelligent, Eco-friendly and reliable products to global market. Fairland dedicates to bringing totally new experience to every family who hopes to enjoy more water entertainment.

HISTORY



1999

Fairland factory was established

2005

Pool HP launched

2012

Booster technology launched

2018

Full-inverter HP became the main trend in the market

2020

TurboSilence inverter leading the market trend

2001

Fairland brand registered

2011

Full-inverter R&D progress

2014

Full-inverter trial in the market

2019

TurboSilence inverter launched



02

TURBOSILENCE INVERTER^{TECH}



ENJOY TURBO&SILENCE

AT THE SAME TIME



The new TurboSilence inverter technology is optimized on the basis of Full-inverter Technology. It perfectly balances the Inverter-compressor-control & Heat exchanging technology, which creates the Turbo performance and Silence operation in the meantime.

JOKE OR REVOLUTION?

TurboSilence inverter technology intelligently optimizes the heating method. When season starts, it is able to heat up the pool rapidly with 120% heating capacity by simply one button click. After that, the HP runs at AVERAGE 30% capacity to maintain the desired temperature at very low power consumption. Hopefully TurboSilence inverter technology will bring you Passion & Peace with uncommon sense.



TurboSilence Inverter

-The original TurboSilence inverter pool HP



TURBOSILENCE INVERTER HP

with 2 intelligent modes

Turbo mode

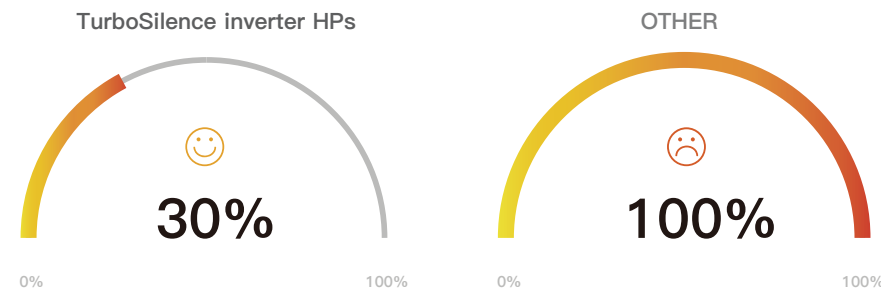
It intelligently runs at 20~120% capacity according to the water temperature. But over 95% of the swimming days, it runs at AVERAGE 30% capacity when selecting the appropriate model to maintain the desired pool temperature, no worries for the electricity bill.

Silence mode

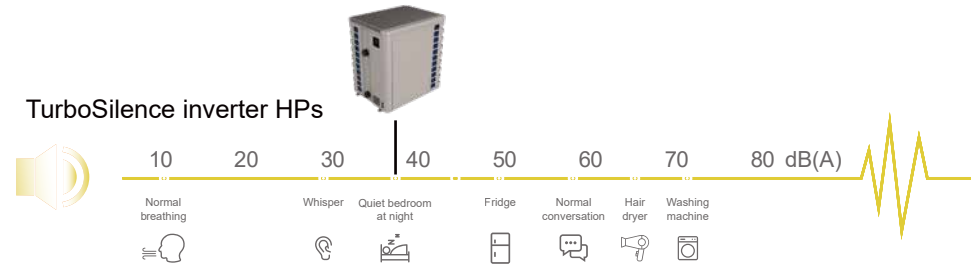
It intelligently runs at 20~80% capacity, ensuring quiet operation & friendly neighborhood.



1/3 Running Cost



AVERAGE 15 Times Quieter



4 season running



TURBOSILENCE INVERTER SPECS (Vertical) R410A

Model	TS90V	TS110V	TS140V
Applied pool volume (gallons)	≤27000	≤32000	≤42000
Operating air temperature (°F)	19~109		
Performance Condition: Air 80°F/ Water 80°F/ Humidity 80%			
Heating capacity (Btu) in Turbo mode	90,000	110,000	140,000
Heating capacity (Btu) in Silence mode	59,500	72,500	92,500
C.O.P	15.6~6.1	15.2~6.1	15.3~6.0
Performance Condition: Air 80°F/ Water 80°F/ Humidity 63%			
Heating capacity (Btu) in Turbo mode	85,000	104,000	132,000
Heating capacity (Btu) in Silence mode	56,000	68,500	87,000
C.O.P	14.8~5.7	14.3~5.8	14.5~5.7
Performance Condition: Air 50°F/ Water 80°F/ Humidity 63%			
Heating capacity (Btu) in Turbo mode	54,000	67,000	85,000
Heating capacity (Btu) in Silence mode	35,600	44,500	56,000
C.O.P	5.5~4.2	5.3~4.3	5.5~4.1
Rated input power (kW)	0.51~4.38	0.62~5.26	0.78~6.79
Rated input current (A)	2.21~19.1	2.69~22.9	3.45~29.5
Power supply	208~230V/1 Ph/60Hz		
Advised water flux (L/min)	125~158	133~167	133~254
Sound pressure 10'FTdB(A)	33.0~44.3	34.6~46.2	38.0~48.9
Heat exchanger	Titanium in PVC		
Casing	Alluminium-alloy Casing		
Air discharge	Vertical		
Water pipe in-out Spec (Inch)	1.5" or 2.0"		
Net Dimension LxWxH (inch)	35.5"x27.2"x36.8"	35.5"x27.2"x36.8"	37.4"x33.9"x37.1"
Net Weight (lbs.)	240	281	317

* 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.





03

FULL-INVERTER TECH

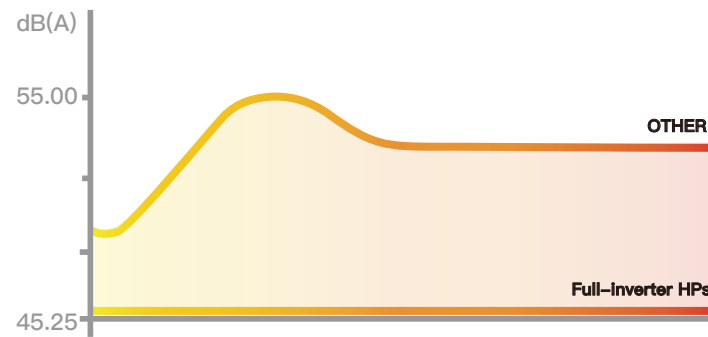


FULL-INVERTER

—The original Full-inverter pool HP



Average 10 times Quieter



2 times energy saving



Wi-Fi built-in



Heat up to 104°F



FULL-INVERTER SPECS (Vertical & Horizontal) **R410A**

Model	BP300	BP400	BP500	BP650	BP900	BP110V	BP140V
Applied pool volume (gallons)	≤8000	≤11000	≤14000	≤18000	≤28000	≤32000	≤42000
Operating air temperature (°F)	32~109						
Performance Condition: Air 80°F/ Water 80°F/ Humidity 80%							
Heating capacity (Btu)	30000	40000	50000	65000	90000	110000	140,000
Heating capacity (Btu) in Silence mode	24000	32000	40000	52000	72000	88000	112,000
C.O.P	12.5~6.9	13.5~6.6	13.0~6.4	13.2~6.0	13.6~6.0	13.5~5.8	13.1~5.8
Performance Condition: Air 80°F/ Water 80°F/ Humidity 63%							
Heating capacity (Btu)	28500	38200	47500	56000	85000	104000	132,000
Heating capacity (Btu) in Silence mode	22800	31000	37200	44800	68000	83500	105500
C.O.P	11.3~6.7	12.1~6.0	12.0~6.0	12.0~5.7	12.3~5.7	12.2~5.6	11.0~5.7
Performance Condition: Air 50°F/ Water 80°F/ Humidity 63%							
Heating capacity (Btu)	20,000	24,500	28,900	37,000	54,000	67,000	85,000
Heating capacity (Btu) in Silence mode	19,000	19,500	23,200	27,000	43,000	54,000	68,000
C.O.P	5.0~4.3	5.1~4.5	5.2~4.3	5.8~4.6	5.5~4.3	5.2~4.2	5.2~4.1
Rated input power (kW)	0.27~1.35	0.28~1.81	0.46~2.28	0.53~3.17	0.54~4.39	0.61~5.9	0.85~6.85
Rated input current (A)	1.18~5.87	1.22~7.87	2.00~9.91	2.30~13.8	2.34~19.1	2.65~25.6	3.69~29.8
Power supply	208~230V/1 Ph/60Hz						
Advised water flux (L/min)	50~67	67~100	83~116	108~142	125~158	133~167	133~254
Sound pressure 10'FT dB(A)	31.8~43.1	31.6~43.3	32.9~43.5	33.8~45.4	34.9~46.8	35.0~48.1	39.6~51.2
Heat exchanger	Titanium in PVC						
Casing	Insertion casing						
Air discharge	Horizontal						Vertical
Water pipe in-out Spec (Inch)	1.5"	1.5"	1.5"	1.5"	1.5"	1.5"	2"
Net Dimension LxWxH (inch)	37.8x13.4x25.9	37.8x13.4x25.9	37.8x13.4x25.9	37.8x16.5x25.9	43 x 16.5x37.7	35.4x27.2x36.8	37.4 x33.9 x37.1
Net Weight (lbs.)	103	101	114	134	229	251	317
Qty per 20'FT / 40'HQ (sets)	90/198	90/198	90/198	78/165	44/100	34/72	24/48

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04

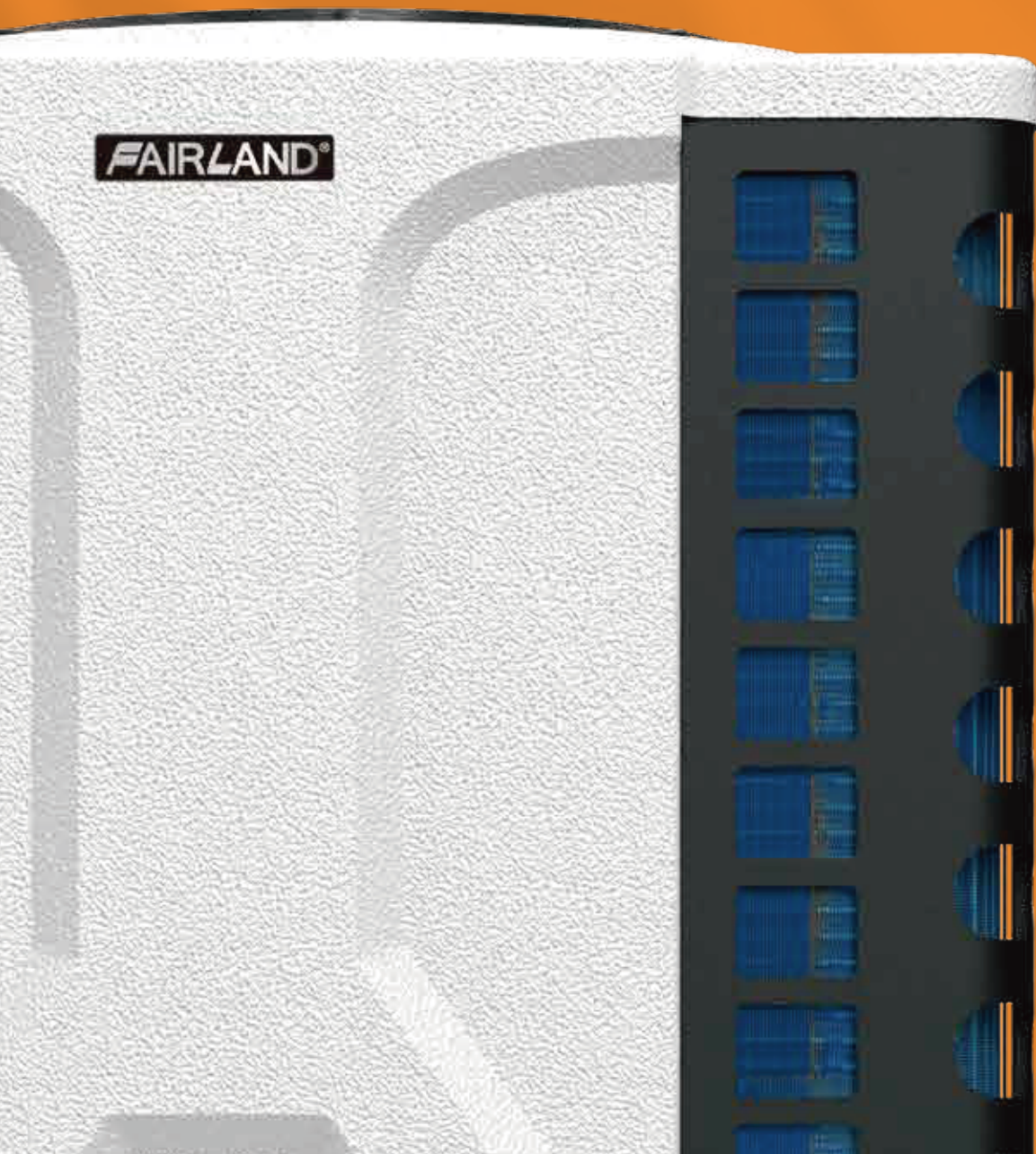
DC-INVERTER

DC-INVERTER

—The Most Economical DC-inverter Pool HP



DC-INVERTER



Average COP **9.9**

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



DC-INVERTER SPECS (Vertical & Horizontal)

Model	FI300	FI400	FI500	FI650	FI900	FI1100
Applied pool volume (gallons)	≤8000	≤11000	≤14000	≤18000	≤28000	≤32000
Operating air temperature (°F)	32~109					
Performance Condition: Air 80°F/ Water 80°F/ Humidity 80%						
Heating capacity (Btu)	30,000	40,000	50,000	65,000	90,000	110,000
Heating capacity (Btu) in silence mode	24,000	32,000	40,000	52,000	72,000	88,000
C.O.P	10.0~5.8	10.3~6.0	10.6~5.98	11.2~5.61	11.0~5.6	11.5~5.8
Performance Condition: Air 80°F/ Water 80°F/ Humidity 63%						
Heating capacity (Btu)	28,500	38,200	47,500	56,000	84,500	104,000
Heating capacity (Btu) in silence mode	22,800	31,000	37,200	44,800	67,500	83,200
C.O.P	9.0~5.4	9.1~5.86	9.7~5.5	9.9~5.35	9.8~5.3	10.9~5.5
Performance Condition: Air 50°F/ Water 80°F/ Humidity 63%						
Heating capacity (Btu)	18,300	24,500	28,900	37,000	54,000	67,000
Heating capacity (Btu) in silence mode	14,600	19,600	23,000	26,970	43,000	54,000
C.O.P	4.4~4.0	4.5~4.0	5.1~4.15	5.2~4.3	5.3~4.2	5.3~4.3
Rated input power (kW) at air 80°F	0.29~1.54	0.39~1.95	0.46~2.53	0.53~3.39	0.71~4.54	0.87~5.5
Rated input current (A) at air 80°F	1.26~6.69	1.69~8.47	2.00~11.0	2.30~14.8	3.08~19.7	3.78~23.9
Power supply	208~230V/1 Ph/60Hz					
Advised water flux (L/min)	50~67	67~100	83~116	108~142	125~158	133~167
Sound pressure 10'FT dB(A)	33.4~45.2	33.6~45.5	34.9~46.0	36.2~47.3	37.5~49.0	35.5~49.5
Heat exchanger	Titanium in PVC					
Casing	ABS casing				Galvanized steel	
Air discharge	Horizontal				Vertical	
Water pipe in-out Spec (mm)	48					
Net Dimension LxWxH (Inch)	37.8x13.4x25.9	37.8x13.4x25.9	37.8x13.4x25.9	37.8x16.5x25.9	43x16.5x37.7	28x35.0x43.3
Net Weight (kg)	47	48	52	61	198	123
Qty per 20'FT / 40'HQ (sets)	90/198	90/198	90/198	78/165	44/100	36/66

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05

ON-OFF HEAT PUMP

ON-OFF Heat Pump



ON-OFF SPECS (Vertical & Horizontal)

Model	PHP30	PHP40	PHP50	PHP65	PHP100	PHP80	PHP110
Advised pool volume (gallons)	≤8000	≤11000	≤14000	≤18000	≤28000	≤24000	≤32000
Performance Condition: Air 80°F/ Water 80°F/ Humidity 80%							
Heating capacity (Btu)	30,000	40,000	50,000	65,000	90,000	80,000	110,000
C.O.P	5.8	5.8	6.0	6.2	6.3	6.0	6.3
Performance Condition: Air 80°F/ Water 80°F/ Humidity 63%							
Heating capacity (Btu)	28,000	37,500	46,000	58,000	85,000	75,000	105,000
C.O.P	5.6	5.5	5.6	5.8	5.9	5.7	6.0
Performance Condition: Air 50°F/ Water 80°F/ Humidity 63%							
Heating capacity (Btu)	18,000	22,500	27,500	36,500	54,500	49,500	70,000
C.O.P	3.6	3.6	3.6	3.7	3.8	3.8	3.9
Rated input power (kW) at air 80°F	1.46	2.01	2.41	2.88	4.25	3.79	4.98
Rated input current (A) at air 80°F	6.31	8.62	10.60	12.10	18.36	16.50	21.20
Power supply	208-230V/1Ph/60Hz						
Water flow rate (L/min)-recommend minimum/maximum	50-67	67-100	83-116	108-142	125-158	108-142	133-167
Sound pressure dB(A) 10'FT	41.0	41.5	41.7	42.7	44.2	44.5	45.3
Heat exchanger	Titanium in PVC						
Casing	ABS Casing				Metal casing		
Air discharge	Horizontal				Vertical		
Net dimensions (LxWxH) (inch)	34.3x13.4x25.9	37.8x13.4x25.9	37.8x16.5x25.9	37.8x16.5x29.8	43x16.5x37.7	29.9x29.1x31.5	35.4x27.2x36.7
Net weight (lbs.)	101	126	150	172	247	247	298
Qty per 20'FT / 40'HQ (sets)	102/216	90/198	78/165	52/165	48/104	42/135	34/72

*Above data is subject to modification without notice.

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



ON-OFF MINI SPECS (Horizontal) R410A

Model	SH09	SH16
Applied pool volume (gallons)	≤3500	≤5500
Operating air temperature (°F)	50-109	
Performance Condition: Air 80°F / Water 80°F / Humidity 80%		
Heating capacity (Btu)	9,000	16,000
C.O.P	4.50	4.60
Performance Condition: Air 80°F, Water 80°F, Humidity 63%		
Heating capacity (Btu)	8100	14,400
C.O.P	4.30	4.40
Sound pressure at 10'FTdB(A)	46	47
Heat exchanger	Titanium Heat Exchanger	
Casing	Metal	
Power supply	110V/60Hz/1PH	
Power Consumption at air 80°F (BTU)	2000	3478
Rated input current at air 80°F (A)	5.3	9.3
Advised water flux (L/min)	17-33	33-50
Water pipe in-out size (inch)	1.26/1.5	
Net Dimension LxWxH (inch)	12.2x14.3x14.8	17x17x18.1
Packing Dimension LxWxH (inch)	14.8x17.7x17.7	19.5x20.5x20.9
Net weight (lbs.)	40	57
Gross weight (lbs.)	44	66
Qty per 20'FT / 40'HQ (sets)	256/665	132/352

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

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06

QC & SERVICE

Global failure rate
< 0.3%

QC SYSTEM

Fairland not only respects the international standard, but also insists on the strict quality control in HP industry. The Q/C system works strictly before production, during production and after production.

We are committed to meeting the needs of our customers and requirements of the QC system, and continuously improving the efficiency of our quality management system, to achieve our quality objectives.



BEFORE PRODUCTION

- Persist in adopting high-quality components for 20 years
- 8 hours high-temp aging running and then 100% QC on whole control system
- High-rate random inspection for all components



DURING PRODUCTION

- Silver welding (5% silver) for more reliable refrigerant circuit system
- 3 times refrigerant leakage test
- Complete electrical safety test



AFTER PRODUCTION

- 45mins running test for every unit
- Drying/cleaning/anti-rust treatment for every unit
- 1% random inspection for mass production in the lab



Service

“Ultimate customer experience”

“Ultimate customer experience” means excellent products and service, Fairland is on the way of pursuing the “Ultimate”, we understand there is still a long way to go, but we have the determination to make customer satisfied by providing High quality products & service.

Building strict QC system to ensure global failure rate below 0.3%, offering fast response and effective solution to customer’s requirements and complaints, we commit to be responsible for our products and customers, as we are your reliable partner.



Teamwork

Trust & support make dreams work.

Professional Team

- › Professional technical team with 20 years pool HP experience
- › At least 3 people are responsible for 1 customer

Fast Service

- › France service center for fast accessory delivery
- › Failures respond within 24 hours
- › Solutions offer within 72 hours
- › Main spare parts express within 72 hours
- › 24/7 on-line service

Reliability

- › Customer first, focus on customer satisfaction