



Submittal Data Sheet

ACiQ Model#: PHP-E-50

50K BTU R32 Side-Discharge Pool Heat Pump

Location:	Approval:
Engineer:	Date:
Submitted to:	Construction:
Submitted by:	Unit #:
Reference:	Drawing #:

Pool Heater Product Code: 810175553979



ELECTRICAL SPECIFICATIONS

Power Supply	V, Hz	220-240V~/60Hz
Max. Current	A	14.1
Max. Power Input	kBtu/h	10.57

COMPRESSOR & HEAT EXCHANGER SPECIFICATIONS

Compressor Type	Rotary
Refrigerant Control	EEV
4-Way Valve	Yes
Casing Material	Galvanized Sheet
Heat Exchanger Material	Titanium in PVC

UNIT WEIGHT & DIMENSIONS

Net Weight	lb	116.7
	kg	52.93
Net Dimensions (W x D x H)	in	39.4 x 15.7 x 25.9
	mm	1000.76 x 398.78 x 657.86
Water Pipe Connection Size	in	G 1-1/2"

HEATING PERFORMANCE

Ambient Temperature: (Dry Bulb / Wet Bulb) 80.6°F / 75.7°F
Water Inlet / Outlet Temperature: 78.8°F / 82.4°F

Heating Capacity	kBtu/h	10.54 ~ 52.07
Consumed Power	kBtu/h	0.57 ~ 8.02
COP		18.18 ~ 6.49

Ambient Temperature: (Dry Bulb / Wet Bulb) 59.0°F / 53.6°F
Water Inlet Temperature: 78.8°F

Heating Capacity	kBtu/h	6.99 ~ 35.98
Consumed Power	kBtu/h	0.96 ~ 7.43
COP		7.32 ~ 4.83

COOLING PERFORMANCE

Ambient Temperature: (Dry Bulb / Wet Bulb) 95.0°F
Water Inlet Temperature: 86.0°F / 82.4°F

Cooling Capacity	kBtu/h	6.42 ~ 17.10
Consumed Power	kBtu/h	0.78 ~ 6.17
EER		8.17 ~ 2.77

OPERATIONAL SPECIFICATIONS

Operating Ambient Temperature Range	°F	5.0°F ~ 109.4°F
Heating Temperature Range	°F	59.0°F ~ 104.0°F
Cooling Temperature Range	°F	46.4°F ~ 82.4°F
*Advised Pool Volume	Gallons	7925.16 ~ 15850.30
	m³	30 ~ 60
Water Flow Volume	gpm	29.05
Water Pressure Drop	psi	2.18
Sound Pressure @ 1m	dB(A)	33 ~ 47

*Advised pool volume applies to a private pool with isothermal cover, from April to September.

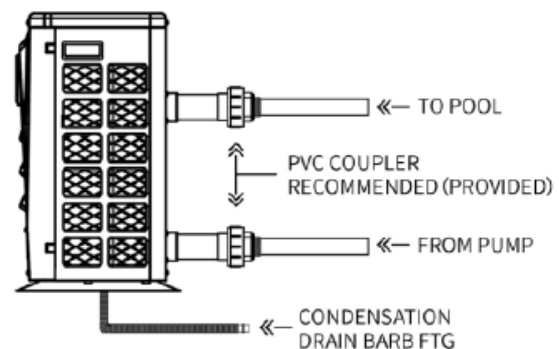
REFRIGERANT SPECIFICATIONS

Refrigerant Type		R32
Refrigerant Charge Weight	lb	1.43
	kg	0.65

FEATURES

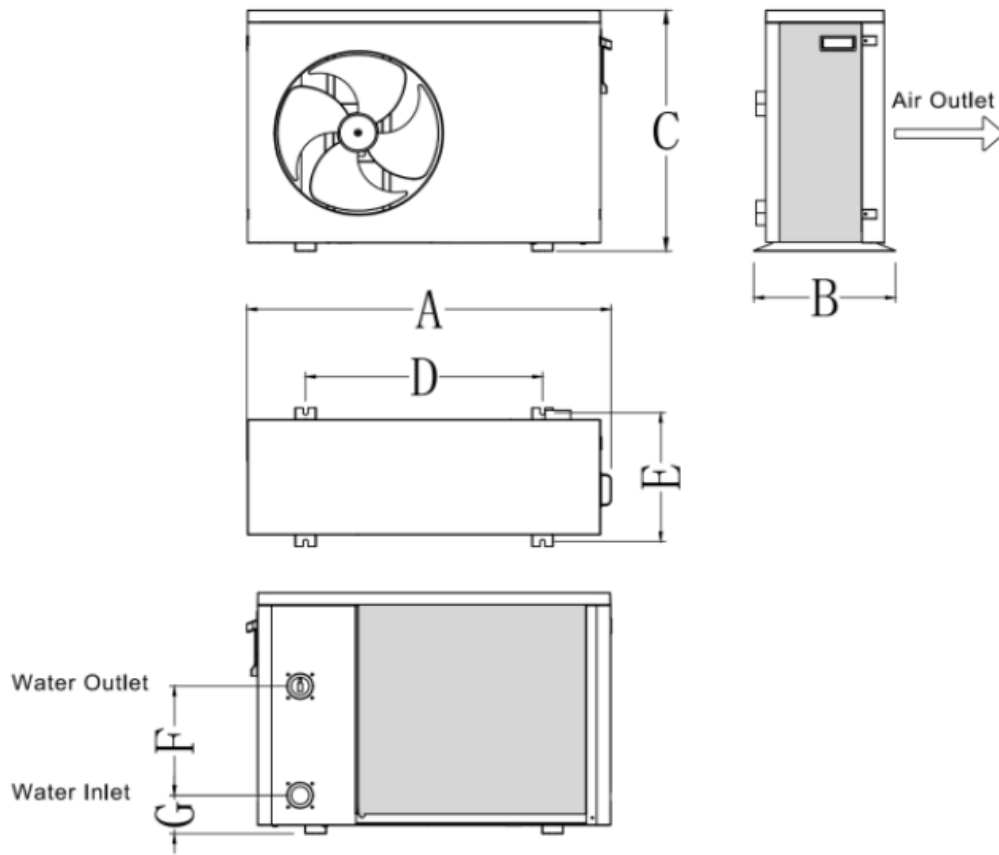
- Full DC Inverter Technology
- High energy efficiency, COP rating of 18+ capable
- Super silent operation, capable of less than 35 dB(A) at 1m
- Built-in WiFi, smart control capable with downloadable app
- Quick & Efficient heating operation with reduced energy consumption
- Environmentally-friendly R32 refrigerant

WATER INLET & OUTLET PIPING INSTALLATION INSTRUCTIONS



*The pool heat pump must be connected using hard pipes, the inlet and outlet unions cannot withstand the weight of soft pipes.

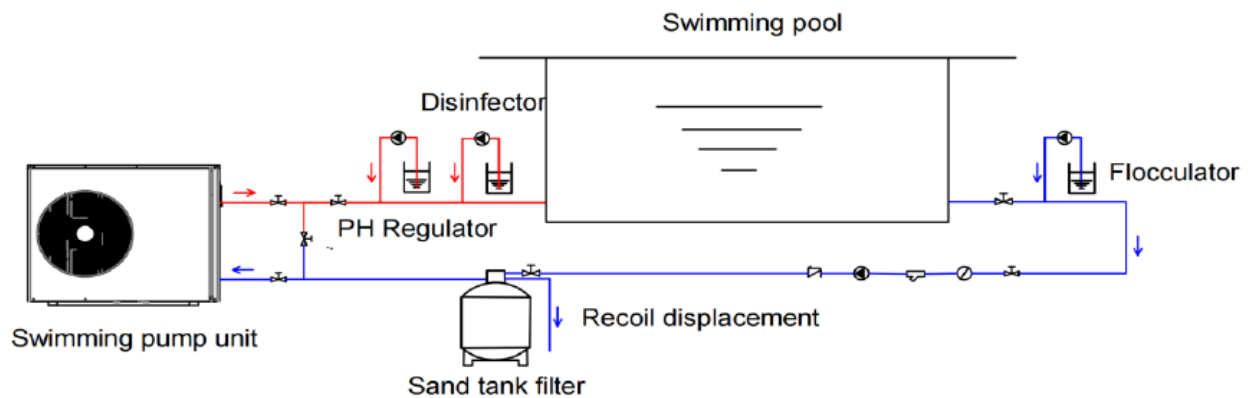
Unit Dimensions



Model	A	B	C	D	E	F	G
PHP-E-50	39.40 in (1000 mm)	15.70 in (399 mm)	25.90 in (658 mm)	23.35 in (593 mm)	14.76 in (375 mm)	15.35 in (390 mm)	3.86 in (98 mm)
PHP-E-60	39.40 in (1000 mm)	15.70 in (399 mm)	25.90 in (658 mm)	23.35 in (593 mm)	14.76 in (375 mm)	15.35 in (390 mm)	3.86 in (98 mm)
PHP-E-90	43.90 in (1115 mm)	17.90 in (455 mm)	30.10 in (765 mm)	23.31 in (592 mm)	17.32 in (440 mm)	18.50 in (470 mm)	4.29 in (109 mm)

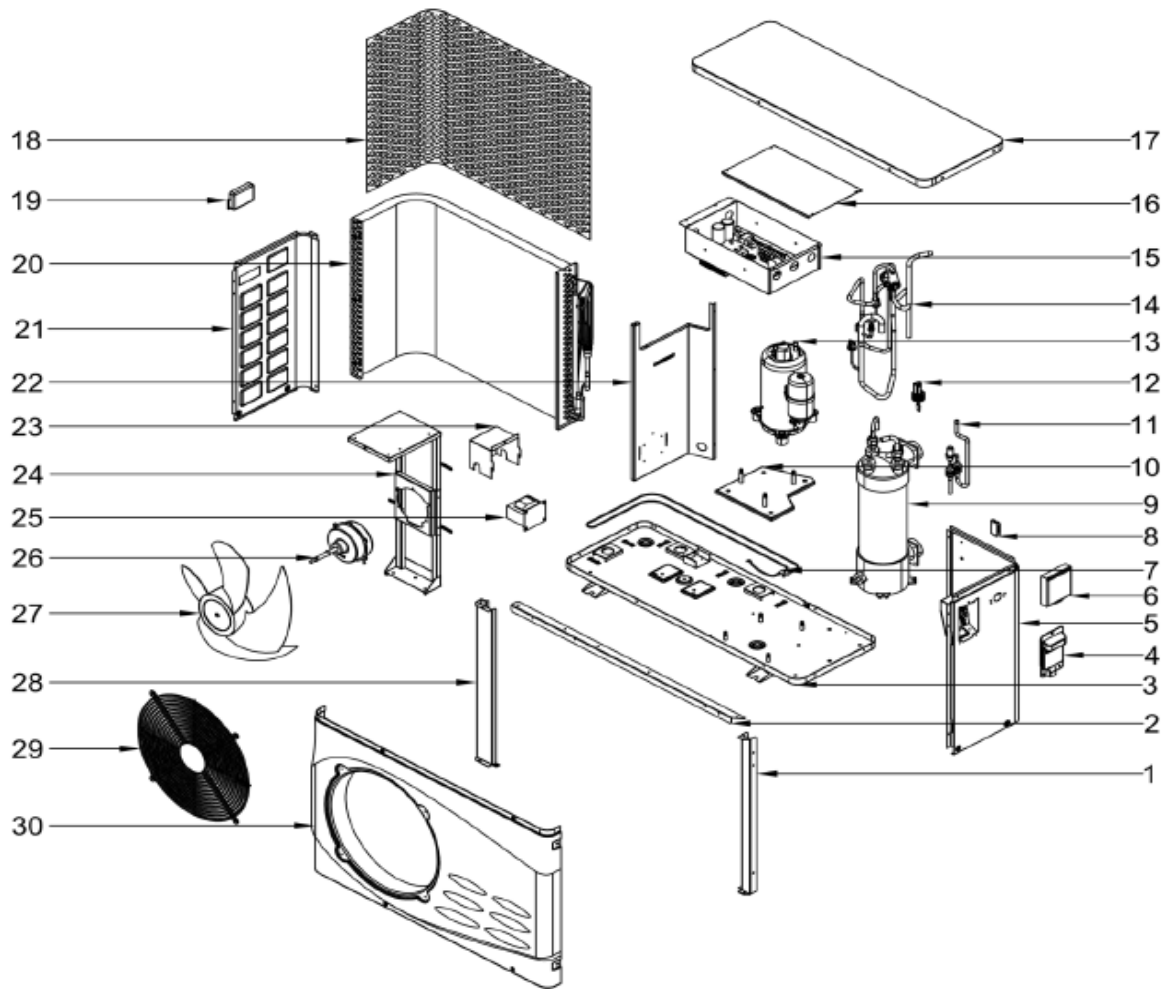
Units: Inch (Millimeter)

Unit Installation Diagram



- Y-type filter
- One-way valve
- Circulating water pump/Metering pump
- Hair collector
- Stop valve

Unit Main Parts Diagram



1	Right Column	11	Throttle Device Assembly	21	Left Plate
2	Crossbeam	12	Water Flow Switch	22	Middle Partition
3	Chassis	13	Compressor	23	Reactance Cover
4	Right Handle	14	Four-Way Valve Assembly	24	Motor Support
5	Right Plate	15	Electrical Box	25	Reactance
6	Wire Controller	16	Electrical Box Cover	26	Fan Motor
7	Chassis Heating Belt	17	Top Cover	27	Fan Blade
8	Ambient Temp. Sensor	18	Back Net	28	Left Column
9	Titanium Tube Heat Exchanger	19	Left Handle	29	Grille Cover
10	Compressor Fixing Plate	20	Finned Heat Exchanger	30	Front Plate