



Submittal Data Sheet

ACiQ Model#: PHP-E-120

120K BTU R32 Top-Discharge Pool Heat Pump

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

Top-Discharge Pool Heater Product Code: 810175551913



OPERATIONAL SPECIFICATIONS

Operating Ambient Temperature Range	°F	14° ~ 109.4°
Heating Temperature Range	°F	59° ~ 104°
Cooling Temperature Range	°F	46.4° ~ 82.4°
*Advised Pool Volume	Gallons	18492.00 ~ 31700.60
	m³	70 ~ 120
Water Flow Volume	gpm	66.0
Water Pressure Drop	psi	7.30
Sound Pressure @ 1m	dB(A)	59
*Advised pool volume applies to a private pool with isothermal cover, from April to September.		

ELECTRICAL SPECIFICATIONS

Power Supply	V, Hz	208/230V ~ / 60 Hz
Recommended Fuse Current	A	50.0

COMPRESSOR & HEAT EXCHANGER SPECIFICATIONS

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

HEATING PERFORMANCE

Ambient Temperature: (Dry Bulb / Wet Bulb) 80.6°F / 75.7°F Water Inlet Temperature: 80.1°F				
Heating Capacity Range	kBtu/h	27.0 ~ 116.0		
COP Range		15.23 ~ 6.33		
Performance Based On Selected Operation Mode		Boost Mode	Smart Mode	Silent Mode
Heating Capacity	kBtu/h	116.0	77.0 ~ 116.0	77
COP		6.33	7.28 ~ 6.33	7.28
Ambient Temperature: (Dry Bulb / Wet Bulb) 80.6°F / 71.2°F Water Inlet Temperature: 80.1°F				
Heating Capacity Range	kBtu/h	26.1 ~ 111.9		
COP Range		15.0 ~ 6.24		
Performance Based On Selected Operation Mode		Boost Mode	Smart Mode	Silent Mode
Heating Capacity	kBtu/h	111.9	74.3 ~ 111.9	74.3
COP		6.24	7.18 ~ 6.24	7.18
Ambient Temperature: (Dry Bulb / Wet Bulb) 50°F / 44.2°F Water Inlet Temperature: 80.1°F				
Heating Capacity Range	kBtu/h	11.7 ~ 58.8		
COP Range		6.24 ~ 4.08		
Performance Based On Selected Operation Mode		Boost Mode	Smart Mode	Silent Mode
Heating Capacity	kBtu/h	58.8	38.2 ~ 58.8	38.2
COP		4.08	4.7 ~ 4.08	4.7

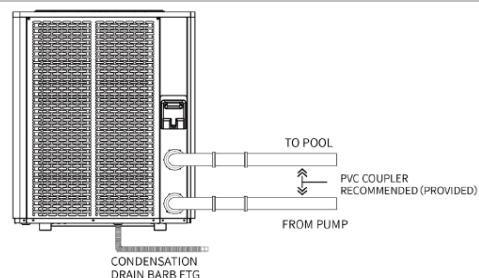
UNIT WEIGHT & DIMENSIONS

Net Weight	lb	311
	kg	141.06
Net Dimensions (W x D x H)	in	35.7 x 33.1 x 41.4
	mm	906.78 x 840.74 x 1051.56
Water Pipe Connection Size	in	G 1-1/2"

REFRIGERANT SPECIFICATIONS

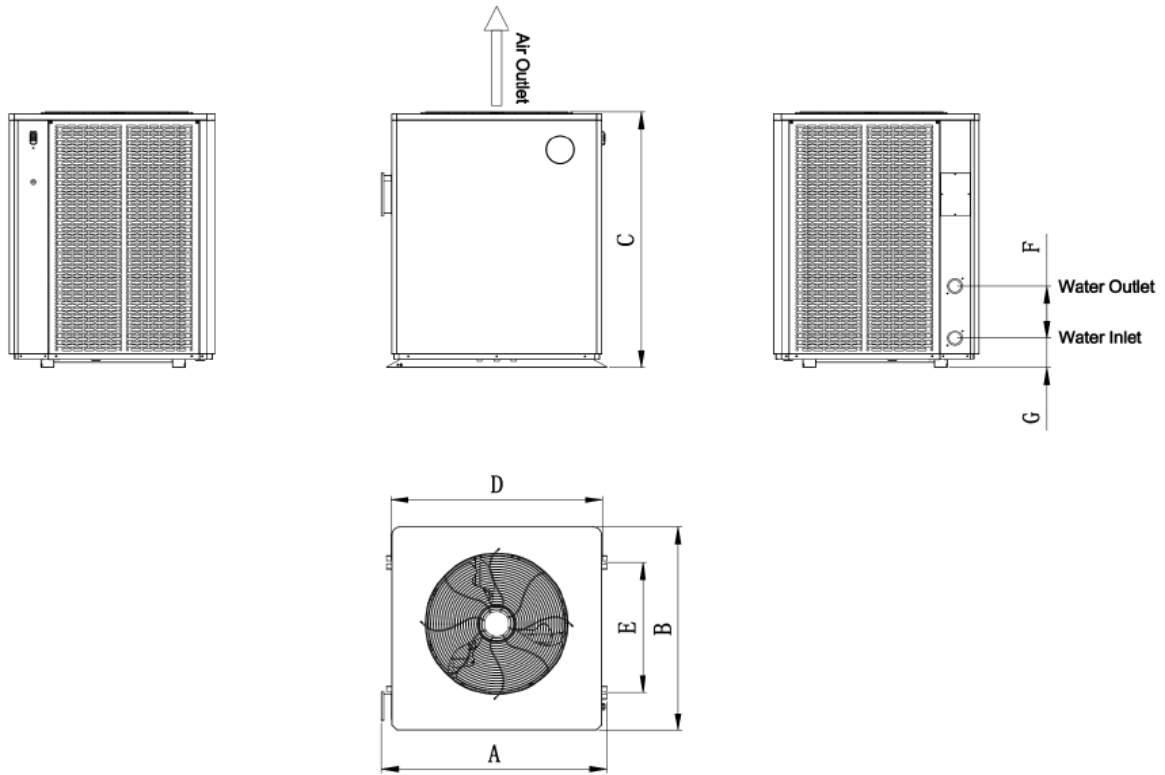
Refrigerant Type	R32	
Refrigerant Charge Weight	lb	6.39
	kg	2.90

WATER INLET & OUTLET PIPING DIAGRAM



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

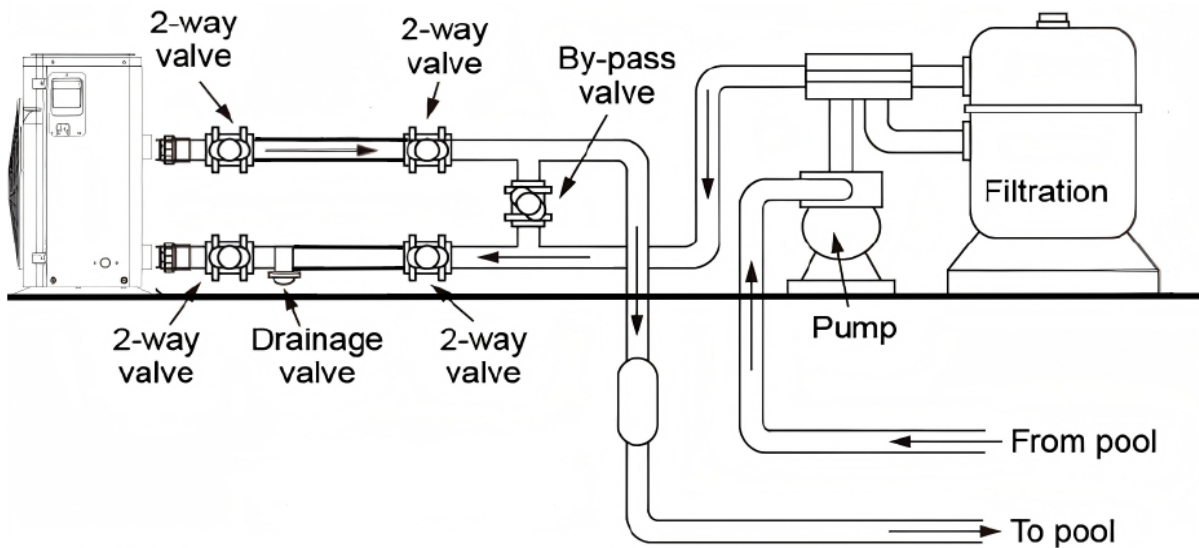
Unit Dimensions



Model	A	B	C	D	E	F	G
PHP-E-110	31.50 in (800 mm)	29.20 in (742 mm)	38.00 in (965 mm)	29.90 in (759 mm)	17.20 in (437 mm)	7.10 in (180 mm)	3.50 in (89 mm)
PHP-E-120	35.7 in (907 mm)	33.10 in (841 mm)	41.40 in (1052 mm)	34.10 in (866 mm)	21.20 in (539 mm)	8.50 in (216 mm)	3.50 in (89 mm)
PHP-E-140	35.7 in (907 mm)	33.10 in (841 mm)	41.40 in (1052 mm)	34.10 in (866 mm)	21.20 in (539 mm)	8.50 in (216 mm)	3.50 in (89 mm)
PHP-E-155	35.7 in (907 mm)	33.10 in (841 mm)	41.40 in (1052 mm)	34.10 in (866 mm)	21.20 in (539 mm)	8.50 in (216 mm)	3.50 in (89 mm)

Units: Inch (Millimeter)

Unit Installation Diagram



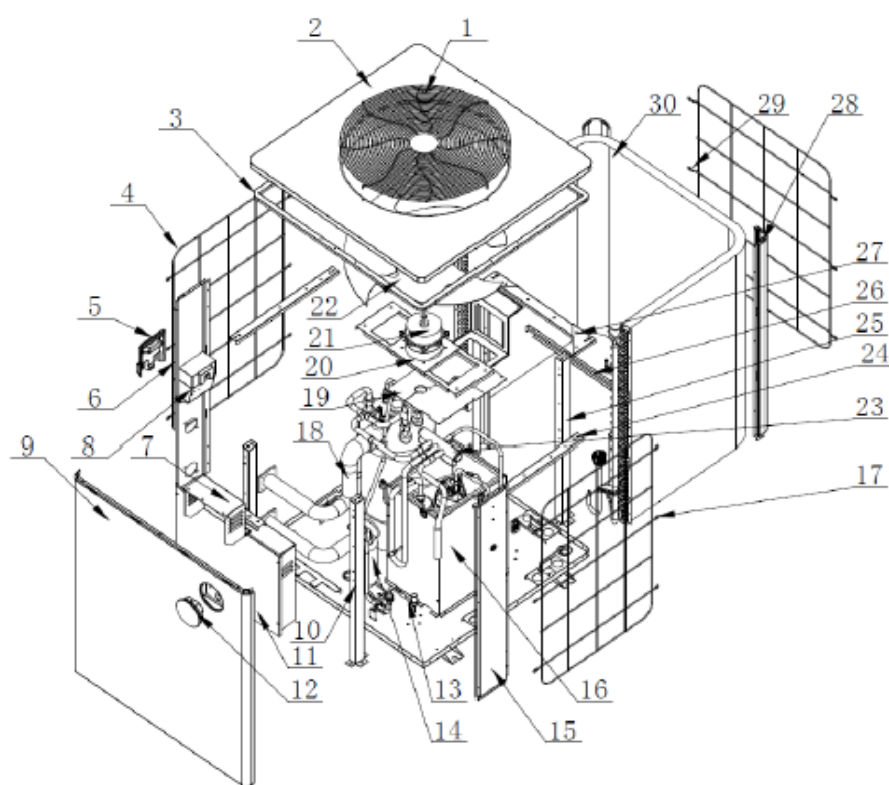
Unit Main Parts Diagram

PHP-E-110

PHP-E-120

PHP-E-140

PHP-E-155



1	Mesh Cover	11	Electrical Box	21	Fan Motor
2	Top Cover	12	Wire Controller	22	Fan Blade
3	Top Frame	13	Throttling Device Assembly	23	4-Way Valve Assembly
4	Left Plate	14	Liquid Reservoir	24	Left/Right Crossbeam
5	Transition Pipe Handle	15	Right Column	25	Back Left/Right Column
6	Left Column	16	Compressor Compartment	26	Column Fixing Strip
7	Fixing Plate	17	Right Plate	27	Column Triangular Plate
8	Reactor	18	Titanium Heat Exchanger	28	Back Column
9	Front Plate	19	Compressor Compartment Cover	29	Back Plate
10	Front Left/Right Column	20	Motor Bracket	30	Fin Heat Exchanger