



## P-K EvoHP™

### Commercial Heat Pump

#### Introducing the P-K EvoHP™

Introducing Patterson-Kelley's first commercial heat pump. Step into the future of sustainable heating with our cutting - edge solutions! Designed as a stand-alone or to complement traditional heating systems by leveraging both technologies in tandem. The system offers optimal performance and peace of mind, minimizing environmental impact without compromising on reliability or comfort. Reduce carbon emissions and operational costs while ensuring optimal comfort for your building.



#### BENEFITS



##### Powerful Performance in Low Temperatures

Leveraging advanced DC Inverter compressors with an efficient program algorithm, P-K EvoHP™ technology has less capacity reduction in low ambient temperatures.



##### Low Temperature - Quick Heating

With expert solutions and fluorine-cooled inverter driven systems, P-K EvoHP™ outputs greater heating capacity (without electric auxiliary) when the water system temperature is low. P-K EvoHP™ quickly raises the water temperature and drastically reduces the heating period for users.



##### Active Noise Reduction

Speed regulating compressors and fans, which can dynamically adjust the speed according to the heating load, allows for a positive end-user experience with operating volume as low as 56dB.

#### FEATURES

- ✓ Up to 750mbtu capacity per appliance
- ✓ Up to 8 units cascaded
- ✓ Can be paired in hybrid heat pump / boiler applications
- ✓ Low GWP refrigerants available
- ✓ Meet carbon reduction goals up to 100%
- ✓ Efficiencies up to 400%, CoP equal to 4.0
- ✓ Comfort heat and DHW application options -- up to 140 degrees Fahrenheit
- ✓ Monoblock appliance design
- ✓ Modulation of turndown with inverter technology
- ✓ Operating temperature down to -30 degrees Fahrenheit
- ✓ Low amperage operating requirements

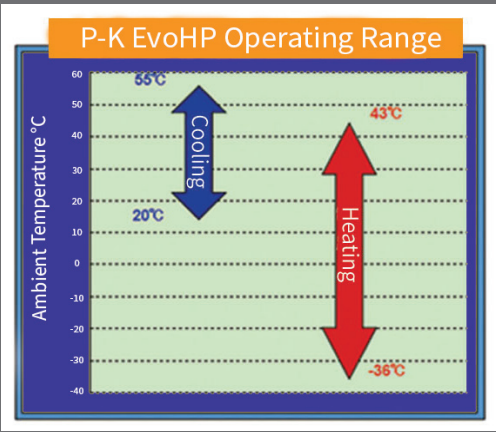
#### REDUCE CARBON WITHOUT SACRIFICING COMFORT

*Efficient performance paired with PK's industry trusted solutions*



# P-K EvoHP™

HEAT PUMP RATINGS	HP700	HP500	HP250
EFFICIENCY (CoP)	3.71 (371%)	3.23 (323%)	3.95 (395%)
REFRIGERANT	R410A	R32	R32
MAX KW INPUT	73.1	48	18.99
MAX BTU/HR OUTPUT	853,000	528,860	255,900
MAX KW OUTPUT	250	155	70
MIN KW INPUT	18.3	12	4.75
MIN BTU/HR OUTPUT	213,250	132,215	139,892
MIN KW OUTPUT	62.5	38.7	41
INDOOR/OUTDOOR	OUTDOOR	OUTDOOR	OUTDOOR
TURNDOWN	4:1	4:1	4:1
FUEL EC=ELECTRIC	EC	EC	EC
DEPTH (IN/MM)	137 / 3480	92.5/2350	78.7 / 1998.9
WIDTH (IN/MM)	52.4 / 1330	44.7/1150	37.8 / 960.12
HEIGHT (IN/MM)	92.9 / 2360	92.9/2360	69.7 / 1770.4
SHIPPING WEIGHT (LBS/KILOS)	2508 / 1140	2090/680	1192 / 540.7
ELECTRICAL REQUIRMENTS	440-460V 3N~ 60hz 167 amps	440-80V 60 Hz 3PH 91.3 amps	208-230V 60 Hz 3PH 91.3 amps
OPERATING WEIGHT (LBS/KILOS)	2508 / 1104	2090 / 950	1246 / 565
FLW RATE GPM (LT/SEC)	85.3 / 5.4 at 20°F ΔT	52.9 / 3.3 at 20°F ΔT	21.9/1.4 at 10°F ΔT



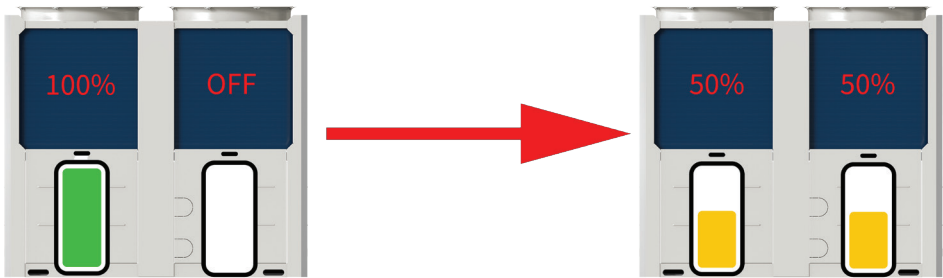
## Wide Operating Range

Equipped with multiple technologies to improve stability and reliability, aiding with extreme temperature challenges and stable operation.

- Min operating ambient temp: -32°F
- Max operating ambient temp: 131°F

## Intelligent Energy Management

The intelligent control and automatic load adjustment technology ensures the P-K EvoHP™ runs at maximum efficiency during part load demand periods. This minimizes deterioration of the compressors, extending the useful life of the appliance.



### Compact External Rotor DC Motors

High-performance compact external rotor DC motors and integrated design help to maintain low noise and high efficiency.

### Large Type C Finned Heat Exchanger

The fins adopt anti-frost coating and corrugated edge spoilers to further enhance the effect of spoilers at strong wind side, which improves heat transfer coefficient, extends frost-free operation time by more than 50% and improves SCOP.

### Straight Drain Water Pan

Ensures that water drains away as quickly as possible during defrosting. No stagnant water to freeze and block the water pan.