



High Efficiency Heating, Cooling and Indoor Air Quality Systems

# ESP Series

Variable Speed Heat Pump

- Easy Installation
- Operating Temperature as low as -30°C
- Quiet Operation as low as 57dB
- Energy Efficient Zoning



ESP-36 - 3 Ton



ESP-60 - 5 Ton

Provides better climate control than mini-splits without the unsightly cassettes in each room

Variable Speed Compressor allows for zoning with true efficiency

Patented interface allows Integration with 3rd party air handlers

Inverter Drive Technology allows for capacity modulation as low as 20%

Side discharge fans for low profile cabinet

Variable speed fans & compressor greatly reduce noise

Factory charged for up to 50 ft of line set

Smaller refrigerant line size than conventional equipment

No refrigerant staging required - automatically ramps up and down to match the actual load requirement

Eliminates the requirement for a dump or bypass of any kind when zoning the air-handler

Allows for line set lengths over 200 ft with a vertical rise of over 90 ft

No TXV installation required

*The Modern Solution for all of your Heating, Cooling and Zoning Needs*

[www.hi-velocity.com](http://www.hi-velocity.com)

# For All of your Heating, Cooling and IAQ Needs



## Variable Speed Heat Pump

Specifications		
Model Number	<b>ESP-36</b>	<b>ESP-60</b>
Outdoor Unit Tonnage	3 Ton (10.5 kW)	5 Ton (17 kW)
Part Number	40180400003	40180400005
Capacity Data		
Nominal Cooling Capacity <sup>1) 2)</sup>	35,500 BTU (10.4 kW)	57,300 BTU (16.8 kW)
Operational Range (Cooling)	6,200-40,900 BTU (1.8 - 12 kW)	6,200-64,800 BTU (1.8 - 19 kW)
Nominal Heating Capacity <sup>1) 2)</sup>	38,200 BTU (11.2 kW)	60,400 BTU (17.7 kW)
Operational Range (Heating)	6,200-47,400 BTU (1.8 - 14 kW)	6,200-75,000 BTU (1.8 - 22 kW)
Highest Variable Airflow	1,800 CFM (850 L/s)	2,200 CFM (1,040 L/s)
Lowest Variable Airflow	400 CFM (190 L/s)	400 CFM (200 L/s)
Electrical Data		
Power Supply	208-240 Volts - 1 Phase - 50/60 Hz	
Nom. Full Load Amps	22	30
Min. Circuit Size (Amps)	35	36
Electrical Input Cooling (kW) <sup>1)</sup>	3.25	5.3
Electrical Input Heating (kW) <sup>1)</sup>	3.15	5.2
ACOP	3.5	3.38
Sound Pressure (dB) (A) @ 1m	62	63
Soft Starter	Variable Frequency	
Dimensions - Outdoor Unit		
Length	38" (965 mm)	37.5" (953 mm)
Width	16.14" (410 mm)	16.25" (413 mm)
Height	32" (813 mm)	52.5" (1334 mm)
Weight	155 lbs (70.3 kg)	269 lbs (122 kg)
NOTES: 1) Capacities are based on A.S.3823.12 2) Capacity modulation is extended by variable indoor airflow. Actual percentage loading will vary depending on application.		
DESIGN CONDITIONS: Cooling 35°C (95°F) DB Outdoor / 27°C (80°F) DB, 19°C (66°F) WB Air Entering Indoor Unit Heating 7°C (44°F)DB, 6°C (43°F) WB Outdoor/ 21°C (70°F) DB Air Entering Indoor Unit Nominal Operating Range -10°C (14°F) WB to 50°C (122°F) DB Sound pressure level is influenced by the surroundings, therefore it may vary upon location.		

*From the Manufacturer of Hi-Velocity Systems*

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Systems™

Module-VARb-Variable-Speed-Heat-Pump-Brochure-080118