



High Efficiency Heating, Cooling and Indoor Air Quality Systems

# HVS Series

## Variable Speed Heat Pump

- Easy Installation
- Operating Temperature as low as  $-30^{\circ}\text{C}/-22^{\circ}\text{F}$
- Quiet Operation as low as 57dB
- Energy Efficient Zoning



HVS-24  
2-Ton

HVS-36  
3-Ton

HVS-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

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*

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# For All of your Heating, Cooling and IAQ Needs



## Variable Speed Heat Pump

Specifications	HVS-24	HVS-36	HVS-60
Part Number	40180400002	40180400003	40180400005
Outdoor Unit Tonnage	2 Ton (7 kW)	3 Ton (10.5 kW)	5 Ton (17 kW)
<b>Capacity Data</b>			
Nominal Cooling Capacity <sup>1) 2)</sup>	23,500 BTU (6.9 kW)	35,500 BTU (10.4 kW)	57,300 BTU (16.8 kW)
Operational Range (Cooling)	6,000-24,000 BTU (1.8 - 7 kW)	9,000-36,000 BTU (2.6 - 10.5 kW)	15,000-60,000 BTU (4.4 - 17.6 kW)
Nominal Heating Capacity <sup>1) 2)</sup>	26,200 BTU (7.7 kW)	38,200 BTU (11.2 kW)	60,400 BTU (17.7 kW)
Operational Range (Heating)	6,950-27,800 BTU (2.0 - 8.1 kW)	10,325-41,300 BTU (3.0 - 12.1 kW)	15,375-61,500 BTU (4.5 - 18.0 kW)
Highest Variable Airflow	2,350 CFM (1,109 L/s)	2,500 CFM (1,180 L/s)	4,400 CFM (2,077 L/s)
Lowest Variable Airflow	400 CFM (190 L/s)	400 CFM (190 L/s)	400 CFM (190 L/s)
<b>Electrical Data</b>			
Power Supply	208 - 240 Volts 1 Phase - 50/60 Hz	208 - 240 Volts 1 Phase - 50/60 Hz	208 - 240 Volts 1 Phase - 50/60 Hz
Nom. Full Load Amps	12.6	23	26
Min. Circuit Size (Amps)	18	35	36
Electrical Input Cooling (kW) <sup>1)</sup>	2.0	3.25	5.3
Electrical Input Heating (kW) <sup>1)</sup>	2.3	3.15	5.2
Sound Pressure (dB) (A) @ 1m	61	62	63
Soft Starter	Variable Frequency		
<b>Dimensions - Outdoor Unit</b>			
Dimensions (L x W x H)	38" x 16.14" x 32" (965mm x 410mm x 813mm)	38" x 16.14" x 32" (965mm x 410mm x 813mm)	37.5" x 16.25" x 52.5" (953mm x 413mm x 1,334mm)
Weight	155 lbs (70.3 kg)	155 lbs (70.3 kg)	269 lbs (122 kg)

(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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