

FEATURED HIGHLIGHTS

- Extreme heating and cooling capabilities
 - Cooling operation from 5°F - 125°F
 - Heating operation from -4°F - 80°F
- Independent heat pump and air handler operation compatible with all 3rd party thermostats
- Pre-charged for 25 feet of lineset
- Able to operate in a wider voltage range (198V - 264V) which provides enhanced protection for the control board and motors from electrical fluctuations
- Smart defrost technology through pressure sensor prevents freezing
- Heating overload protection with dual assessment of condensing temperature and pressure
- Superior pressure monitoring via high and low pressure switches
- Self-adapting inverter technology with ultra low frequency operation
 - Able to hold set temperature within 2°F
 - Monitors drive current to prevent overload
- Energy saving auto sleep, auto restart, and eco modes standard
- Less than 34" high and 4 sq ft base maximizes installation opportunities

For the latest AHRI system matches,
please visit AHRIdirectory.org

HP19V

INVERTER DRIVEN HIGH EFFICIENCY HEAT PUMP

Up to 19 SEER2 & 9.0 HSPF2



Warranty—12 years on compressor, 6 years on parts
(Some limitations apply; see printed warranty for details.)
www.century-hvac.com



MODEL NUMBER GUIDE

| | | | | | |
|-----------|-------------------|--------------------|-----------------------|-------------------------|------------------|
| HP | 19 | V | S | 1 | A |
| Heat Pump | Up to 19 SEER2 | Inverter Driven | Residential Series | Power (208/230-1-60) | Revision Code |

SPECIFICATIONS

| OUTDOOR UNIT | | | | | |
|-----------------------------------|-----------------------------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| MODEL | | HP19V24 | HP19V36 | HP19V48 | HP19V60 |
| Rated Cooling (95F/35C) | Capacity | 24,000 | 34,000 | 47,000 | 53,000 |
| | EER2 | 10.0 | 10.0 | 9.0 | 7.5 |
| | SEER2 | 18.0 | 19.0 | 18.0 | 17.0 |
| Rated Heating (47F/8.3C) | Capacity | 24,000 | 36,000 | 47,000 | 54,000 |
| | HSPF2 | 9.0 | 9.0 | 8.5 | 8.2 |
| Cold Climate Heating (5F/-15C) | Capacity | 18,000 | 26,000 | 33,000 | 35,000 |
| | COP | 1.75 | 1.9 | 1.9 | 1.9 |
| | 5F/47F | 75% | 72% | 70% | 65% |
| Electrical Data | Voltage-Phase-Hz | 208/230-1-60 | 208/230-1-60 | 208/230-1-60 | 208/230-1-60 |
| | Minimum Circuit Ampacity | 14 | 22 | 35 | 35 |
| | Max. Overcurrent protection (max fuse or hacr breaker) | 25 | 35 | 60 | 60 |
| | min/max Volts | 187/253 | 187/253 | 187/253 | 187/253 |
| Fan Motor | Type | DC | DC | DC | DC |
| | Input (V) | 200 | 200 | 200 | 200 |
| Blower | Diameter | 23-1/2" | 23-1/2" | 20-7/8" | 20-7/8" |
| | Width | 4-1/2" | 4-1/2" | 6-3/4" | 6-3/4" |
| Sound Pressure Rating | dB(A) | 67 | 68 | 70 | 70 |
| Throttle Type | | EEV | EEV | EEV | EEV |
| Pre-Charged Refrigerant | Type | R454B | R454B | R454B | R454B |
| | Ounces | 75.8 | 100.5 | 141.1 | 141.1 |
| | Grams | 2150g | 2850g | 4000g | 4000g |
| Refrigerant Line Size | Liquid side | 3/8" | 3/8" | 3/8" | 3/8" |
| | Suction side | 3/4" | 3/4" | 7/8" | 7/8" |
| Refrigerant Connection Size | Liquid side (welding type) | 3/8" | 3/8" | 3/8" | 3/8" |
| | Suction side (welding type) | 3/4" | 3/4" | 7/8" | 7/8" |
| Pre-Charged Standard Line Length | meters | 7.6 | 7.6 | 7.6 | 7.6 |
| | feet | 25 ft | 25 ft | 25 ft | 25 ft |
| Maximum Line Length | meters | 30 | 30 | 30 | 30 |
| | feet | 100 ft | 100 ft | 100 ft | 100 ft |
| Maximum Elevation Difference | meters | 15 | 15 | 15 | 15 |
| | feet | 50 ft | 50 ft | 50 ft | 50 ft |
| Operating Temperatures | Cooling | -15--52°C | -15--52°C | -15--52°C | -15--52°C |
| | | 5--125°F | 5--125°F | 5--125°F | 5--125°F |
| | Heating | -20--27°C | -20--27°C | -20--27°C | -20--27°C |
| | | -5--80°F | -5--80°F | -5--80°F | -5--80°F |
| Outdoor Unit | Dimension(W x H x D) in. | 29-18 x 24-15/16 x 29-18 | 29-18 x 24-15/16 x 29-18 | 29-18 x 33-3/16 x 29-18 | 29-18 x 33-3/16 x 29-18 |
| | Packing (W x H x D) in. | 30-1/5 x 31-1/4 x 30-1/5 | 30-1/5 x 31-1/4 x 30-1/5 | 30-1/5 x 39-1/2 x 30-1/5 | 30-1/5 x 39-1/2 x 30-1/5 |
| Equipment Weight | kg | 62 | 66 | 81 | 81 |
| | Lbs | 137 | 146 | 179 | 179 |
| Ship Weight(Pallet) | kg | 72 | 80 | 97 | 97 |
| | Lbs | 159 | 176 | 214 | 214 |
| Shipping per STD40HQ | Qty | 135 | 135 | 90 | 90 |

FEATURED HIGHLIGHTS

- High heat-transfer efficiency and low static-pressure drop A-coil
- Foil-faced insulation to prevent energy loss through the cabinet
- Factory-sealed cabinet certified to achieve 2% or less leakage rate at 1.0 inch water column
- Multi-stage variable speed blower motor to align with varying capacity demands
- Field installed electric heater kits available
- Multiple electrical entry locations
- Dual front panel for simplified maintenance
- Easy to service blower and coil with slide track
- Integrated filter rack in base
- Easy-to-braze copper evaporator connection

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AH19X

MULTI-POSITION VARIABLE SPEED AIR HANDLER

Up to 19 SEER2 & 9.0 HSPF2



Warranty—12 years on compressor, 6 years on parts
(Some limitations apply; see printed warranty for details.)
www.comfort-aire.com



MODEL NUMBER GUIDE

| | | | | | |
|-------------|------------------------------|-----------------------|--------------------|----------------------|---------------|
| AH | 19 | X | S | 1 | A |
| Air Handler | For use with HP19V heat pump | Factory Installed TXV | Residential Series | Power (208/230-1-60) | Revision Code |

SPECIFICATIONS

| Model | INDOOR UNIT | | | | | |
|-----------------------------|------------------------------|------------------|------------------|------------------|------------------|------------------|
| | | | AH24X1A | AH36X1A | AH48X1A | AH60X1A |
| Cooling | Capacity | Btu/h | 24,000 | 34,000 | 47,000 | 53,000 |
| Heating | Heating Capacity | Capacity | 24,000 | 36,000 | 47,000 | 54,000 |
| Electrical Data | Voltage-Phase-Hz | Voltage-Phase-Hz | 208/230-1-60 | 208/230-1-60 | 208/230-1-60 | 208/230-1-60 |
| | Minimum Circuit Ampacity | A | 5 | 5 | 7 | 7 |
| | Max. Over Current Protection | A | 15 | 15 | 15 | 15 |
| | Min/Max Volts | V | 187/253 | 187/253 | 187/253 | 187/253 |
| Fan Motor | Power | HP | 1/2HP | 1/2HP | 3/4HP | 3/4HP |
| | FLA | A | 3.8 | 3.8 | 5.4 | 5.4 |
| Blower | Diameter | Inch | 12-1/4" | 12-1/4" | 12-1/4" | 12-1/4" |
| | Width | inch | 13" | 13" | 13" | 13" |
| | Indoor coil | Type | Fin-tube | Fin-tube | Fin-tube | Fin-tube |
| | Tube Material | Type | aluminum | aluminum | aluminum | aluminum |
| Sound Pressure rating | | dB(A) | 57 | 58 | 60 | 62 |
| Indoor fan Air flow | | CFM | 850 | 1,150 | 1,600 | 1,700 |
| Static Pressure | | in.WC | up to 0.8 | up to 0.8 | up to 0.8 | up to 0.8 |
| | | Pa | up to 200 | up to 200 | up to 200 | up to 200 |
| Throttle type | Throttle type | | TXV | TXV | TXV | TXV |
| Refrigerant Line Size | Liquid side | inch | 3/8" | 3/8" | 3/8" | 3/8" |
| | Suction side | inch | 3/4" | 3/4" | 7/8" | 7/8" |
| Refrigerant Connection Size | Liquid side | inch | 3/8" | 3/8" | 3/8" | 3/8" |
| | Suction side | inch | 3/4" | 3/4" | 7/8" | 7/8" |
| Indoor unit | Dimension (W*H*D) | inch | 21 x 46 1/2 x 21 | 21 x 46 1/2 x 21 | 21 x 56 x 24 1/2 | 21 x 56 x 24 1/2 |
| | Packing (W*H*D) | inch | 23 x 52 x 24 1/2 | 23 x 52 x 24 1/2 | 24 1/2 x 62 x 28 | 24 1/2 x 62 x 28 |
| Equipment Weight | | kg | 55.5 | 55.5 | 69 | 69 |
| | | lbs | 122 | 122 | 152 | 152 |
| Ship Weight(Pallet) | | kg | 70 | 70 | 86 | 86 |
| | | lbs | 154 | 154 | 190 | 190 |
| Shipping per STD40HQ | | Qty | 152 | 152 | 57 | 57 |

"This product complies with all California product labeling laws including, but not limited to, the Safe Drinking Water and Toxic Enforcement Act of 1986, more commonly known as Proposition 65."

Due to ongoing product improvements, specifications and dimensions are subject to change and correction without notice or incurring obligations. Determining the application and suitability for use of any product is the responsibility of the installer. Additionally, the installer is responsible for verifying dimensional data on the actual product prior to beginning any installation preparations. Third party incentive and rebate programs have precise requirements as to product performance and certification. All products meet applicable regulations in effect on date of manufacture; however, certifications are not necessarily granted for the life of a product. Therefore, it is the responsibility of the applicant to determine whether a specific model qualifies for these incentive/rebate programs.