

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

HP19V

INVERTER DRIVEN HIGH EFFICIENCY HEAT PUMP

Up to 19 SEER2 & 9.0 HSPF2



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

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



MODEL NUMBER GUIDE

HP	19	V	24	S	1	A
Heat Pump	Up to 19 SEER2	Inverter Driven	Capacity BTUH x 1000	Residential Series	Power (208/230-1-60)	Revision Code

SPECIFICATIONS

OUTDOOR UNIT					
MODEL		HP19V24S1A	HP19V36S1A	HP19V48S1A	HP19V60S1A
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.	29-1/8 x 24-15/16 x 29-1/8	29-1/8 x 24-15/16 x 29-1/8	29-1/8 x 33-3/16 x 29-1/8	29-1/8 x 33-3/16 x 29-1/8
	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
- Wired Controller
 - 485 Communication

AH19X

MULTI-POSITION VARIABLE SPEED AIR HANDLER

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Warranty—12 years on compressor, 6 years on parts
(Some limitations apply; see printed warranty for details.)
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MODEL NUMBER GUIDE

AH	19	X	24	S	1	A
Air Handler	For use with HP19V heat pump	Factory Installed TXV	Capacity BTUH x 1000	Residential Series	Power (208/230-1-60)	Revision Code

SPECIFICATIONS

Model	INDOOR UNIT					
			AH19X24S1A	AH19X36S1A	AH19X48S1A	AH19X60S1A
Cooling	Capacity	Btu/h	24,000	34,000	47,000	53,000
Heating	Capacity	Btu/h	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			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

ELECTRIC HEATER KITS

Model	Air Handler Capacity (kBTU/h)	Electric Heat (kW)	Min. Circuit Ampacity			Max. Fuse or Breaker (HACR) Ampacity		
			208V	230V	240V	208V	230V	240V
AH19X24S1A								
ATT05KEH	24	5	22.6	24.95	26	25	30	30
ATT10KEH		10	45.2	49.9	52	50	60	60
AH19X36S1A								
ATT05KEH	36	5	22.6	24.95	26	25	30	30
ATT10KEH		10	45.2	49.9	52	50	60	60
ATT15KEH		15	45.2/22.6	49.9/24.95	52/26	50/25	60/30	60/30
AH19X48S1A								
ATT05KEH	48	5	22.6	24.95	26	25	30	30
ATT10KEH		10	45.2	49.9	52	50	60	60
ATT15KEH		15	45.2/22.6	49.9/24.95	52/26	50/25	60/30	60/30
ATT20KEH		20	45.2/45.2	49.9/49.9	52/52	50/50	60/60	60/60
AH19X60S1A								
ATT05KEH	60	5	22.6	24.95	26	25	30	30
ATT10KEH		10	45.2	49.9	52	50	60	60
ATT15KEH		15	45.2/22.6	49.9/24.95	52/26	50/25	60/30	60/30
ATT20KEH		20	45.2/45.2	49.9/49.9	52/52	50/50	60/60	60/60

"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