

AVZC200601

Item Number: AVZC200601

Attribute	Value
Brand	Amana
ProductCategory	Unitary
ProductClassPIM	Split Heat Pump
System Family	Unitary Split System
Function Category	Heat Pump
Product Type	Equipment
Unit Type	Outdoor
Market Type	Residential-Single Family
Product Family	AVZC20
Series Name	AVZC20
Short Description	Amana Split Heat Pump 20 SEER, Inverter
Model Efficiency	20 SEER
Family Description	High-Efficiency, Communicating, Split System Heat Pump Up to 23.5 SEER & 10 HSPF

Attribute	Value
Product Benefits	<p>1. Variable swing and scroll compressors feature more efficient operation, higher tolerance to liquid refrigerant, less mechanical failures and smoother, quieter operation when compared to reciprocating compressors and single stage compressors.;2. The top performance of an electronically commutated motor (ECM) provide airflow at variable speeds, matching indoor comfort needs while reducing energy consumption and system noise compared to a single-speed motor.;3. Filter-driers play a pivotal role in the operation of air conditioning and refrigeration systems. A factory installed filter-drier absorbs and filter's residual system contamiN/Ants and moisture.;4. Ensures refrigerant is ready even in extreme exterN/AI temperatures.;5. Prevents condensation of refrigerant in the crankcase of a compressor.;6. Reduces pass-through vibration noise from compressor operation.;7. A high-pressure switch prevents the system from operating at extremely high pressures by shutting off the compressor circuit if the pressure exceeds the desigN/Ated rating. When a refrigeration system operates at lower than normal pressures, the low-pressure switch prevents freezing from working its way to the compressor.;8. High-density foam compressor blanket provides noise reduction when the compressor is in operation.;9. Consistent and concise monitoring helps to ensure that the system is operating efficiently, regardless of the weather.;10. Time-delay defrost technology allows for a reliable, quiet, and smooth transition when units enter defrost mode.;11. By simplifying the communication connection to two low voltage wires to the outdoor unit, technicians may elimiN/Ate the need to run additioN/AI thermostat wiring.;12. Contractors can securely connect wires with large screw lugs, allowing for quick and solid wiring.;13. When peak performance is needed, boost mode increases compressor speed to provide additioN/AI performance. ;14. Proprietary, self-contained sequence of actions designed to help control system operation for energy efficient performance and enhanced reliability.;15. Fully charged with refrigerant sufficient for 15' of tubing length to assist with easy installation of unit.;16. Meets the performance requirements for AHRI certification and complies with ETL North American safety standards.;17. A straight-forward, color-coded termiN/AI strip for non-communicating set-up helps to simplify installation.;18. Copper coil tubing with enhanced aluminum fins increases the area for heat absorption, providing outstanding, energy-efficient heat transfer performance.</p>
Product Features - (Standard)	<p>1. Variable-speed swing and scroll compressors;2. High-efficiency variable speed ECM condenser fan motor;3. Factory-installed filter drier;4. Factory-installed suction line accumulator;5. Factory-installed compressor crankcase heater;6. Factory-installed high-capacity muffler;7. Factory-installed high and low-pressure switches;8. High-density foam compressor sound blanket;9. Factory-installed sensors monitoring coil and ambient temperature;10. SmartShift® technology with short-cycle protection to ensure quiet, reliable defrost;11. In communicating mode, only two low voltage wires to the outdoor unit are required;12. Contactor with lug connection;13. Field-selectable boost mode increases compressor speed during unusually high loads;14. Customized control algorithms;15. Fully charged for fifteen feet of tubing length;16. AHRI Certified-ETL Listed;17. Color-coded terminal strip for non-communicating set-up;18. Copper tube & enhanced aluminum fin coil.</p>

Attribute	Value
Cabinet Features	1. Heavy-gauge galvanized steel cabinet and louvered coil guards;2. Service valves with sweat connections and easy-access gauge ports;3. Engineered sound control top design;4. Wire fan discharge grille;5. Baked-on powder-paint finish with 500-hour salt-spray approval;6. Single-panel access to controls with space for field-installed accessories;7. Service port and controls are accessible while unit is operating;8. Compact footprint;9. Rust-resistant screws;10. When properly anchored, meets the 2017 Florida Building Code unit integrity requirements for hurricane-type winds (Anchor bracket kits available.)
Installation Type	Ducted
Communication Feature	Yes
Communication Feature Type	ComfortBridge Technology compatible
DOE Regional Compliance	All
Export Control Classification Number - (ECCN)	EAR99
ISO Certified	Yes
Serialized Flag	Yes
Universal Product Code (UPC)	663051608474
Item Stocking Unit of Measure (UOM)	EA
Pallet Qty	1
Country of Origin	USA
US HTS Code	8415.90.8070
Canadian HTS Code	8415.90.90.00
Long Description	Amana AVZC20 Split Heat Pump 20 SEER, Inverter, 5 Ton, ComfortBridge Technology compatible
ProductDescriptionPIM	20 SEER, Heat Pump, 5 Ton, Inverter
AHRIReferenceNumber	205976135
CoolingCapacityNominal	52500 Btu/H
COP17HSVTC	2.44
COP47HSVTC	3.68
EERHSVTC	11.5
ENERGYSTARCertified	Yes
HeatingCapacityNominal	50000 Btu/H
HSPFHSVTC	10

Attribute	Value
SEERDucted	20
SEERHSVTC	20
InstallationConfiguration	Top Discharge
Producer	Yes
ProductIDBarcode	AVZC200601
CompressorHighStageTempRange	125 °F
CompressorLowStageTempRange	-20 °F
CoolingOperationRangeStdMax	125 °F
CoolingOperationRangeStdMin	55 °F
HeatingOperationRangeStdMax	70 °F
HeatingOperationRangeStdMin	-20 °F
RatedCoolingConditionAmbientDB	95 °F
RatedCoolingConditionAmbientWB	75 °F
RatedCoolingConditionRoomDB	80 °F
RatedCoolingConditionRoomWB	67 °F
RatedHeatingConditionAmbientDB	47 °F
RatedHeatingConditionAmbientWB	43 °F
RatedHeatingConditionRoomDB	70 °F
RatedHeatingConditionRoomWB	60 °F
SubcoolingTempatServiceValve	7-9 °F
SuperheatTempatServiceValve	9-11 °F
CompressorLRA	22.8 A
CompressorRLA	22.8 A
ControlVoltageConduitSize	1/2 in;3/4 in
CurrentType	AC
IndoorFLA	2.5 A
MaxOvercurrentProtection	35 A
MaxVoltage	253 V

Attribute	Value
MinCircuitAmps	29.8 A
MinVoltage	197 V
OutdoorFLA	2.5 A
PowerFrequency	60 Hz
PowerPhase	1 Ph
PowerSupplyConduitSize	1/2 in;3/4 in
PowerVoltage	208/230 V
RatedLoadAmps	22.8 A
AirFlowRateHighCooling	1630 ft ³ /min
AirFlowRateHighHeating	1630 ft ³ /min
AirFlowRateLowCooling	1090 ft ³ /min
AirFlowRateLowHeating	1090 ft ³ /min
CompressorSoundBlanket	Yes
CompressorStages	Inverter
CompressorType	Scroll
CondenserFanRPM	920 r/min
DimensionsUnitDepth	35-1/2 in
DimensionsUnitHeight	41-1/4 in
DimensionsUnitWidth	35-1/2 in
EnergySource	Electric
ETLListed	Yes
ExpansionDevice	EEV;TXV
ExpansionDeviceOD	EEV
FanBladesCount	3
HeatExchangerType	Air Cooled
IndoorOrificeSize	N/A in
MotorSpeedType	Multi-Speed
SoundPressureHighCooling	74 dBA

Attribute	Value
SoundPressureHighHeating	79 dBA
SoundPressureLowCooling	60 dBA
SoundPressureLowHeating	65 dBA
SoundPressureMediumCooling	66 dBA
SoundPressureMediumHeating	75 dBA
SoundPressureSuperHighCooling	75 dBA
SoundPressureSuperLowHeating	56 dBA
SystemHighPressure	450 lb/in ²
SystemLowPressure	236 lb/in ²
WeightUnit	291 lb
CondenserFanHorsepower	1/2 metric hp
CoolingCapacityMax	58000 Btu/H
CoolingCapacityRated	52500 Btu/H
CoolingCapacitySensible	38900 Btu/H
HeatingCapacityRated	50000 Btu/H
SensibleHeatRatioST	0.744
Tonnage	5
AdditionalRefrigerantCharge	0.6 lb
FactoryStdRefrigerantCharge	272 oz
IndoorTXVKit	TXV-V60
LongLineSetLengthEquivalent	125 ft
LongLineSetLengthLinear	100 ft
MaxPipeLengthTotal	200 ft
MaxPipeLengthVertical	50 ft
PipeSizeGas	1-1/8 in
PipeSizeLiquid	3/8 in
RefrigerantPreChargedLineLength	15 ft
RefrigerantType	R-410A

Attribute	Value
ValveConnectionType	Ball Valve
ValveSizeLiquidOD	3/8 in
ValveSizeSuctionOD	7/8 in
VerticalLengthODAboveID	200 ft
VerticalLengthODBelowID	90 ft
Proposition 65 Label	Yes
Carton Type	CTN
Case Qty	1
Dimensions - (Case Depth)	37.00 in
Dimensions - (Case Height)	44.00 in
Dimensions - (Case Width)	37.00 in
Dimensions - (Distribution Unit Depth)	37 in
Dimensions - (Distribution Unit Height)	44 in
Dimensions - (Distribution Unit Width)	37 in
Dimensions - (Pallet Depth)	37.00 in
Dimensions - (Pallet Height)	44.00 in
Dimensions - (Pallet Width)	37.00 in
Dimensions - (Shipping Unit Depth)	37.00 in
Dimensions - (Shipping Unit Height)	44.00 in
Dimensions - (Shipping Unit Width)	37.00 in
Distribution Shipping Volume - (Unit)	60236 in ³
Shipping Volume - (Unit)	60236.000 in ³
Truck Factor	0
Volume - (Case)	60236.000 in ³
Volume - (Distribution Shipping Unit)	60236 in ³
Weight - (Case)	371.000 lb
Weight - (Distribution Shipping Unit)	371 lb
Weight - (Shipping Unit)	371.000 lb

Attribute	Value
Registered Parts Warranty - Commercial	ALL PARTS - 5 YEARS PARTS
Registered Parts Warranty - Multi-Family	ALL PARTS - 10 YEARS PARTS
Registered Parts Warranty - Residential	COMPRESSORS - 10 YEARS PARTS;ALL PARTS - 10 YEARS PARTS;COMPRESSORS - 10 YEARS PARTS;ALL PARTS - 10 YEARS PARTS;COMPRESSORS - 10 YEARS PARTS;ALL PARTS - 10 YEARS PARTS
Registered Unit Replacement Warranty - Residential	COMPRESSORS - 10 YEARS UNIT REPLACEMENT;COMPRESSORS - 10 YEARS UNIT REPLACEMENT;COMPRESSORS - 10 YEARS UNIT REPLACEMENT
Standard Parts Warranty - Commercial	ALL PARTS - 5 YEARS PARTS
Standard Parts Warranty - Multi-Family	ALL PARTS - 5 YEARS PARTS
Standard Parts Warranty - Residential	ALL PARTS - 5 YEARS PARTS
Ecomm Path Display	Equipment/Residential Split System/Split Heat Pump
Release Status	Obsolete