



SUBMITTAL

3 Ton Inverter Split System Heat Pump



Product Specifications

Voltage-Phase-Hz $208/230-1-60$ Minimum Circuit Ampacity41Max. Over-current Protection50Cooling (Standard conditions) (BTU/h) 36000 Heating (Standard conditions) (BTU/h) 34400 COMPRESSORVariable rotaryRLA 32 Drive MethodInverterNoise-cancelling JacketFactory installedOUTDOOR FAN Qty2Condenser Fan Motor TypeBrushless DC MotorMotor output (W) 85 Motor output (W) 85 Notor Speed RPM $850/750/650$ CFM (MAX) 4500 FLA (A) 1.2 Noise level [dB(A)] 64 OUTDOOR COIL TYPECopper tube with aluminum finsHeating Metering DeviceEEVCooling Metering DeviceEEVCooling Metering DeviceEEVLiquid Line Size (in. 0.D.) $3/8$ Suction Line Size (in. 0.D.) $3/4$ Dimensions (W X H X D) $37.5 \times 52.5 \times 16.3$ Net Weight (LBS) 227 Shipping Weight (LBS) 227 Shipping Weight (LBS) 255.7 Max. Line Length (FT) 213.3 Max. Elevation Difference (FT) 98.4	OUTDOOR UNIT	ESCA16H-36
Max.Over-currentProtection50Cooling (Standard conditions) (BTU/h)36000Heating (Standard conditions) (BTU/h)40000Heating (5°F) (BTU/h)34400COMPRESSORVariable rotaryRLA32Drive MethodInverterNoise-cancelling JacketFactory installedOUTDOOR FAN Qty2Condenser Fan Motor TypeBrushless DC MotorMotor output (W)126Motor output (W)85Motor Speed RPM850/750/650CFM (MAX)4500FLA (A)1.2Noise level [dB(A)]64OUTDOOR COIL TYPECopper tube with aluminum finsHeating Metering DeviceEEVCooling Metering DeviceEEVCooling Metering DeviceEEVLiquid Line Size (in. 0.D.)3/8Suction Line Size (in. 0.D.)3/4Dimensions (W X H X D)37.5 × 52.5 × 16.3Net Weight (LBS)227Shipping Weight (LBS)255.7Max. Line Length (FT)213.3	Voltage-Phase-Hz	208/230-1-60
Cooling (Standard conditions) (BTU/h)36000Heating (Standard conditions) (BTU/h)40000Heating (STP) (BTU/h)34400COMPRESSORVariable rotaryRLA32Drive MethodInverterNoise-cancelling JacketFactory installedOUTDOOR FAN Qty2Condenser Fan Motor TypeBrushless DC MotorMotor output (W)126Motor output (W)85Motor Speed RPM850/750/650CFM (MAX)4500FLA (A)1.2Noise level [dB(A)]64OUTDOOR COIL TYPECopper tube with aluminum finsHeating Metering DeviceEEVCooling Metering DeviceEEVCooling Metering DeviceEEVFactory Supplied Refrigerant Charge (R-410A, oz)37.5 × 52.5 × 16.3Liquid Line Size (in. 0.D.)3/4Dimensions (W X H X D)227Shipping Weight (LBS)2255.7Max. Line Length (FT)213.3	Minimum Circuit Ampacity	41
Heating (Standard conditions) (BTU/h) 40000 Heating (5°F) (BTU/h) 34400 COMPRESSORVariable rotaryRLA 32 Drive MethodInverterNoise-cancelling JacketFactory installedOUTDOOR FAN Qty 2 Condenser Fan Motor TypeBrushless DC MotorMotor input (W) 126 Motor output (W) 85 Motor Speed RPM $850/750/650$ CFM (MAX) 4500 FLA (A) 1.2 Noise level [dB(A)] 64 OUTDOOR COIL TYPECopper tube with aluminum finsHeating Metering DeviceEEVCooling Metering DeviceEEVCooling Metering DeviceEEVFactory Supplied Refrigerant Charge (R-410A, oz) $3/4$ Liquid Line Size (in. 0. D.) $3/4$ Dimensions (W X H X D) $37.5 \times 52.5 \times 16.3$ Net Weight (LBS) 227 Shipping Weight (LBS) 255.7 Max. Line Length (FT) 213.3	Max. Over-current Protection	50
Heating (5°F) (BTU/h)34400COMPRESSORVariable rotaryRLA32Drive MethodInverterNoise-cancelling JacketFactory installedOUTDOOR FAN Qty2Condenser Fan Motor TypeBrushless DC MotorMotor input(W)126Motor output(W)85Motor Speed RPM850/750/650CFM (MAX)4500FLA (A)1.2Noise level [dB(A)]64OUTDOOR COIL TYPECopper tube with aluminum finsHeating Metering DeviceEEVCooling Metering DeviceEEVCooling Metering DeviceEEVLiquid Line Size (in. 0.D.)3/8Suction Line Size (in. 0.D.)3/4Dimensions (W X H X D)37.5 × 52.5 × 16.3Net Weight (LBS)227Shipping Weight (LBS)255.7Max. Line Length (FT)213.3	Cooling(Standard conditions)(BTU/h)	36000
COMPRESSORVariable rotaryRLA32Drive MethodInverterNoise-cancelling JacketFactory installedOUTDOOR FAN Qty2Condenser Fan Motor TypeBrushless DC MotorMotor input(W)126Motor output(W)85Motor Speed RPM850/750/650CFM (MAX)4500FLA (A)1.2Noise level [dB(A)]64OUTDOOR COIL TYPECopper tube with aluminum finsHeating Metering DeviceEEVCooling Metering DeviceEEVCooling Metering DeviceEEVLiquid Line Size (in. 0.D.)3/8Suction Line Size (in. 0.D.)3/4Dimensions37. 5 × 52. 5 × 16. 3(W X H X D)227Shipping Weight (LBS)225. 7Max. Line Length (FT)213. 3	Heating(Standard conditions)(BTU/h)	40000
RLA32Drive MethodInverterNoise-cancelling JacketFactory installedOUTDOOR FAN Qty2Condenser Fan Motor TypeBrushless DC MotorMotor input (W)126Motor output (W)85Motor Speed RPM850/750/650CFM (MAX)4500FLA (A)1.2Noise level [dB(A)]64OUTDOOR COIL TYPECopper tube with aluminum finsHeating Metering DeviceEEVCooling Metering DeviceEEVFactory Supplied Refrigerant Charge (R-410A, oz)Jata on nameplateLiquid Line Size (in. 0.D.)3/4Dimensions (W X H X D)37.5 × 52.5 × 16.3Net Weight (LBS)227Shipping Weight (LBS)255.7Max. Line Length (FT)213.3	Heating(5°F)(BTU/h)	34400
Drive MethodInverterNoise-cancelling JacketFactory installedOUTDOOR FAN Qty2Condenser Fan Motor TypeBrushless DC MotorMotor input(W)126Motor output(W)85Motor Speed RPM $850/750/650$ CFM (MAX)4500FLA (A)1.2Noise level [dB(A)]64OUTDOOR COIL TYPECopper tube with aluminum finsHeating Metering DeviceEEVCooling Metering DeviceEEVCooling Metering DeviceEEVFactory Supplied Refrigerant Charge (R-410A, oz)Jata on nameplateLiquid Line Size (in. 0.D.) $3/4$ Dimensions (W X H X D) $37.5 \times 52.5 \times 16.3$ Net Weight (LBS) 227 Shipping Weight (LBS) 227 Max. Line Length (FT) 213.3	COMPRESSOR	Variable rotary
Noise-cancelling JacketFactory installedOUTDOOR FAN Qty2Condenser Fan Motor TypeBrushless DC MotorMotor input (W)126Motor output (W)85Motor Speed RPM850/750/650CFM (MAX)4500FLA (A)1.2Noise level [dB(A)]64OUTDOOR COIL TYPECopper tube with aluminum finsHeating Metering DeviceEEVCooling Metering DeviceEEVCooling Metering DeviceEEVFactory Supplied Refrigerant Charge (R-410A, oz)3/8Liquid Line Size (in. 0.D.)3/4Dimensions (W X H X D)37.5 × 52.5 × 16.3Net Weight (LBS)227Shipping Weight (LBS)255.7Max. Line Length (FT)213.3	RLA	32
OUTDOOR FAN Qty2Condenser Fan Motor TypeBrushless DC MotorMotor input(W)126Motor output(W)85Motor Speed RPM $850/750/650$ CFM (MAX) 4500 FLA (A)1.2Noise level [dB(A)]64OUTDOOR COIL TYPECopper tube with aluminum finsHeating Metering DeviceEEVCooling Metering DeviceEEVCooling Metering DeviceEEVIndoor side)3/8Suction Line Size (in. 0. D.)3/4Dimensions $37.5 \times 52.5 \times 16.3$ (W X H X D) 255.7 Max. Line Length (FT)213.3	Drive Method	Inverter
Condenser Fan Motor TypeBrushless DC MotorMotor input (W)126Motor output (W)85Motor Speed RPM $850/750/650$ CFM (MAX)4500FLA (A)1.2Noise level [dB(A)]64OUTDOOR COIL TYPECopper tube with aluminum finsHeating Metering DeviceEEVCooling Metering DeviceEEVCooling Metering DeviceEEVFactory Supplied Refrigerant Charge (R-410A, oz)Data on nameplateLiquid Line Size (in. 0.D.) $3/4$ Dimensions (W X H X D) $37.5 \times 52.5 \times 16.3$ Net Weight (LBS) 227 Shipping Weight (LBS) 255.7 Max. Line Length (FT) 213.3	Noise-cancelling Jacket	Factory installed
Motor input (W)126Motor output (W)85Motor Speed RPM $850/750/650$ CFM (MAX) 4500 FLA (A) 1.2 Noise level [dB(A)] 64 OUTDOOR COIL TYPECopper tube with aluminum finsHeating Metering DeviceEEVCooling Metering DeviceEEVCooling Metering DeviceEEVFactory Supplied Refrigerant Charge (R-410A, oz)Data on nameplateLiquid Line Size (in. 0. D.) $3/8$ Suction Line Size (in. 0. D.) $3/4$ Dimensions (W X H X D) 27 Net Weight (LBS) 227 Shipping Weight (LBS) 255.7 Max. Line Length (FT) 213.3	OUTDOOR FAN Qty	2
Motor Imports)NotorMotor output (W)85Motor Speed RPM $850/750/650$ CFM (MAX) 4500 FLA (A) 1.2 Noise level [dB(A)] 64 OUTDOOR COIL TYPECopper tube with aluminum finsHeating Metering DeviceEEVCooling Metering DeviceEEVCooling Metering DeviceEEVFactory Supplied Refrigerant Charge (R-410A, oz)Data on nameplateLiquid Line Size (in. 0. D.) $3/8$ Suction Line Size (in. 0. D.) $3/4$ Dimensions (W X H X D) $37.5 \times 52.5 \times 16.3$ Net Weight (LBS) 227 Shipping Weight (LBS) 255.7 Max. Line Length (FT) 213.3	Condenser Fan Motor Type	Brushless DC Motor
Motor Speed RPM $850/750/650$ CFM (MAX) 4500 FLA (A) 1.2 Noise level [dB(A)] 64 OUTDOOR COIL TYPECopper tube with aluminum finsHeating Metering DeviceEEVCooling Metering DeviceEEVCooling Metering DeviceEEVFactory Supplied Refrigerant Charge (R-410A, oz)Data on nameplateLiquid Line Size (in. 0. D.) $3/8$ Suction Line Size (in. 0. D.) $3/4$ Dimensions (W X H X D) $37.5 \times 52.5 \times 16.3$ Net Weight (LBS) 227 Shipping Weight (LBS) 255.7 Max. Line Length (FT) 213.3	Motor input(W)	126
CFM (MAX) 4500 FLA (A)1.2Noise level [dB(A)]64OUTDOOR COIL TYPECopper tube with aluminum finsHeating Metering DeviceEEVCooling Metering DeviceEEVCooling Metering DeviceEEVFactory Supplied Refrigerant Charge (R-410A, oz)Data on nameplateLiquid Line Size (in. 0.D.) $3/8$ Suction Line Size (in. 0.D.) $3/4$ Dimensions (W X H X D) $37.5 \times 52.5 \times 16.3$ Net Weight (LBS) 227 Shipping Weight (LBS) 255.7 Max. Line Length (FT) 213.3	Motor output(W)	85
FLA (A)1.2Noise level [dB(A)]64OUTDOOR COIL TYPECopper tube with aluminum finsHeating Metering DeviceEEVCooling Metering DeviceEEVCooling Metering DeviceEEV(Indoor side)Data on nameplateFactory Supplied Refrigerant Charge (R-410A, oz)Data on nameplateLiquid Line Size (in. 0.D.)3/8Suction Line Size (in. 0.D.)3/4Dimensions (W X H X D)37.5 × 52.5 × 16.3Net Weight (LBS)227Shipping Weight (LBS)255.7Max. Line Length (FT)213.3	Motor Speed RPM	850/750/650
Noise level [dB(A)]64OUTDOOR COIL TYPECopper tube with aluminum finsHeating Metering DeviceEEVCooling Metering DeviceEEV(Indoor side)EEVFactory Supplied Refrigerant Charge (R-410A, oz)Data on nameplateLiquid Line Size (in. 0. D.)3/8Suction Line Size (in. 0. D.)3/4Dimensions (W X H X D)37.5 × 52.5 × 16.3Net Weight (LBS)227Shipping Weight (LBS)255.7Max. Line Length (FT)213.3	CFM (MAX)	4500
OUTDOOR COIL TYPECopper tube with aluminum finsHeating Metering DeviceEEVCooling Metering DeviceEEV(Indoor side)EEVFactory Supplied Refrigerant Charge (R-410A, oz)Data on nameplateLiquid Line Size (in. 0.D.)3/8Suction Line Size (in. 0.D.)3/4Dimensions (W X H X D)37.5 × 52.5 × 16.3Net Weight (LBS)227Shipping Weight (LBS)255.7Max. Line Length (FT)213.3	FLA (A)	1.2
OUTDOOK COIL TYPEaluminum finsHeating Metering DeviceEEVCooling Metering DeviceEEV(Indoor side)Data on nameplateFactory Supplied Refrigerant Charge (R-410A, oz)Data on nameplateLiquid Line Size (in. 0. D.)3/8Suction Line Size (in. 0. D.)3/4Dimensions (W X H X D)37.5 × 52.5 × 16.3Net Weight (LBS)227Shipping Weight (LBS)255.7Max. Line Length (FT)213.3	Noise level [dB(A)]	64
Heating Metering DeviceEEVCooling Metering Device (Indoor side)EEVFactory Supplied Refrigerant Charge (R-410A, oz)Data on nameplateLiquid Line Size (in. 0. D.)3/8Suction Line Size (in. 0. D.)3/4Dimensions (W X H X D)37.5 × 52.5 × 16.3Net Weight (LBS)227Shipping Weight (LBS)255.7Max. Line Length (FT)213.3	OUTDOOR COIL TYPE	
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Charge (R-410A, oz)Data on nameplateLiquid Line Size (in. 0.D.) $3/8$ Suction Line Size (in. 0.D.) $3/4$ Dimensions (W X H X D) $37.5 \times 52.5 \times 16.3$ Net Weight (LBS) 227 Shipping Weight (LBS) 255.7 Max. Line Length (FT) 213.3		EEV
Suction Line Size (in. 0. D.) $3/4$ Dimensions (W X H X D) $37.5 \times 52.5 \times 16.3$ Net Weight (LBS) 227 Shipping Weight (LBS) 255.7 Max. Line Length (FT) 213.3		Data on nameplate
Dimensions (W X H X D) $37.5 \times 52.5 \times 16.3$ Net Weight (LBS) 227 Shipping Weight (LBS) 255.7 Max. Line Length (FT) 213.3	Liquid Line Size (in. O.D.)	3/8
(W X H X D)37.5 × 52.5 × 16.3Net Weight (LBS)227Shipping Weight (LBS)255.7Max. Line Length (FT)213.3	Suction Line Size (in. O.D.)	3/4
Shipping Weight (LBS)255.7Max. Line Length (FT)213.3		$37.5 \times 52.5 \times 16.3$
Max. Line Length (FT) 213.3	Net Weight (LBS)	227
	Shipping Weight (LBS)	255.7
Max. Elevation Difference (FT) 98.4	Max. Line Length (FT)	213.3
	Max. Elevation Difference (FT)	98.4

Mechanical Specifications

Communication Method

Non-Communicating Inverter condensing units which are compatible with most 24Vac controlled thermostats and R-410A indoor units (TXV required).

2-wire communicated wiring could be realized with EAHAEC AHU

General

The ESCA16H-36 is fully charged up to 25ft line set from the factory. This unit is designed to operate at outdoor ambient temperatures as high as $122^{\circ}F$ in cooling mode, and as low as -22 $^{\circ}F$ in heating mode. Cooling/Heating capacities are matched with air handler that are AHRI certified. The units are certified to UL.

Refrigerant Controls

Refrigeration system controls include condenser fan, compressor inverter drive, electronic expansion valve and reversing valve.

Rotary Compressor

Flexible capacity output from 28%-130%. Compressor is equipped with Noise-cancelling Jacket.

Condenser Coil

The outdoor coil provides low airflow resistance and efficient heat transfer.





