CUC42-15-S

Submittal / unit summary

TAG: _____

PRODUCT NAME ComfortStar Condensing Unit - CUC42-15-S

LOCATION

ARCHITECT

ENGINEER

CONTRACTOR

SUBMITTED BY **DATE**

UNIT SUMMARY

Quantity	
Unit Designation	
Model No.	CUC42-15-S
Cooling Input	2,650 W (compressor input)
Cooling Output	42,300 Btu/h (compressor capacity)
CFM / ESP	
COP / HSPF	
Electrical	208-230 V / 1 phase / 60 Hz
Minimum Ampacity	
Max Overcurrent Protection	
Net Unit Weight	173.3 lb (78.6 kg)
Accessory	
Catalog Form Number	

ACCESSORIES

NOTES

Cooling input/output are compressor values.

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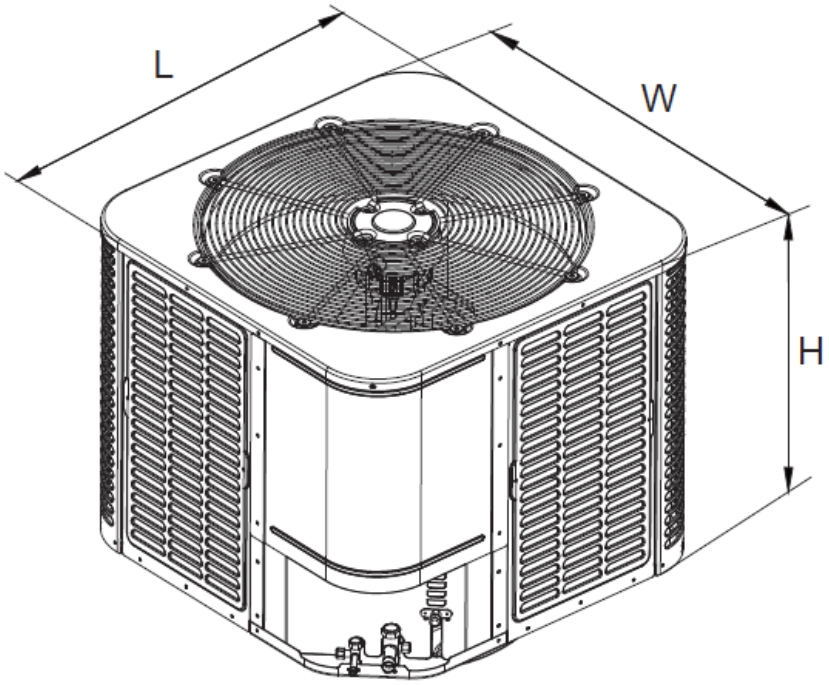
Individual compressor, fan and coil specifications

ELECTRICAL / COMPRESSOR	SPECIFICATION
Outdoor power supply	208-230 V / 1 phase / 60 Hz
Compressor brand / type	LG / Scroll
Compressor capacity	42,300 Btu/h
Compressor input	2,650 W
Compressor rated current (RLA)	20.8 A
OUTDOOR FAN MOTOR	
Brand / type	LIFENG / PSC
Model	YDK-230-6-AL-1
Rated current	1.42 A
Capacitor	12 microfarads / 450 V
Input / output	331 / 230 W
Speed	1,110 rpm
OUTDOOR COIL	
Number of rows	2
Fin spacing	0.051 in.
Fin material	Hydrophilic aluminum fin
Tube outside diameter / material	0.276 in. / Inner grooved
Coil length x height x width	84 x 31.4 x 1.05 in.
Number of circuits	12

OUTDOOR UNIT MODEL NO.	INDOOR UNIT MODEL NO.	COOLING CAPACITY (BTU/H)	SEER2 (BTU/H/W)	EER2 (BTU/H/W)
CUC42-15-S	LUC17-42-15	41000	14.3	11.7

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Dimensions and shipping data



DIMENSION / WEIGHT	DATA
Unit width W	29-1/7 in. [740 mm]
Unit height H	32-7/8 in. [835 mm]
Unit length L / depth D	29-1/7 in. [740 mm]
Packing W x H x D (in.)	29-9/10 x 34-2/5 x 29-9/10
Packing W x H x D (mm)	760 x 875 x 760
Net / gross weight (lb)	173.3 / 183.9
Net / gross weight (kg)	78.6 / 83.4

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Refrigerant, piping, operating data and features

REFRIGERANT / APPLICATION	DATA
Refrigerant	R32
Factory pre-charge	3.01 kg / 106 oz
Default supported line length	15 ft
Additional charge	5.09 oz/ft - verify before charging
Liquid line size	3/8 in.
Gas line size	7/8 in.
Maximum refrigerant pipe length	130 ft
Maximum difference in level	65 ft
Design pressure	4.15 / 1.63 MPa
Maximum pressure	4.30 MPa
Cooling operating range	57-118 degrees F

Confirm the additional-charge value and its units with ComfortStar before charging. Follow the applicable installation instructions for the selected system.

Standard and cabinet features

• R32 refrigerant and energy-efficient scroll compressor.

• Thermal overload protection and factory-installed pressure switch.

• Inner-grooved copper tubes with aluminum condenser fins.

• Service valves with sweat connections and accessible gauge ports.

• AHRI certified and ETL listed.

• Compact powder-painted galvanized steel cabinet.

• Protective steel louvered coil guard and steel wire axial fan guard.

• PSC outdoor fan motor, as listed in the model-specific specifications.

CUC42-15-S

Indoor air handler heater kit tables

Heater kit compatibility applies to the indoor air handler models listed in these tables.

LUC17 air handlers

MODEL NO.	HEATER KIT PART NO.	KW
LUC17-18-15 LUC17-24-15	CHE6-05B	5 kW
	CHE6-08B	8 kW
	CHE6-10B	10 kW
LUC17-30-15 LUC17-36-15 LUC17-42-15	CHE6-05B	5 kW
	CHE6-08B	8 kW
	CHE6-10B	10 kW
	CHE6-15B	15 kW
LUC17-48-15 LUC17-60-15	CHE6-05B	5 kW
	CHE6-08B	8 kW
	CHE6-10B	10 kW
	CHE6-15B	15 kW
	CHE6-20B	20 kW

CWM17 air handlers

MODEL NO.	HEATER KIT PART NO.	KW
CWM17-18-15	CHE6W-05B	5 kW
	CHE6W-08B	8 kW
CWM17-24-15 CWM17-30-15 CWM17-36-15	CHE6W-05B	5 kW
	CHE6W-08B	8 kW
	CHE6W-10B	10 kW