LUC17-42-15

Submittal / unit summary

TAG: _____

PRODUCT NAME ComfortStar Air Handler - LUC17-42-15

LOCATION

ARCHITECT

ENGINEER

CONTRACTOR

SUBMITTED BY **DATE**

UNIT SUMMARY

Quantity	
Unit Designation	
Model No.	LUC17-42-15
Cooling Input	
Cooling Output	41,000 Btu/h
CFM / ESP	1,330 CFM / ESP: _____
Electrical	
Minimum Ampacity	7 A (without electric heat)
Max Overcurrent Protection	10 A (without electric heat)
Net Unit Weight	159 lb
Accessory	
Catalog Form Number	

ACCESSORIES

NOTES

Electric heat: see compatible heater kits on the final page.

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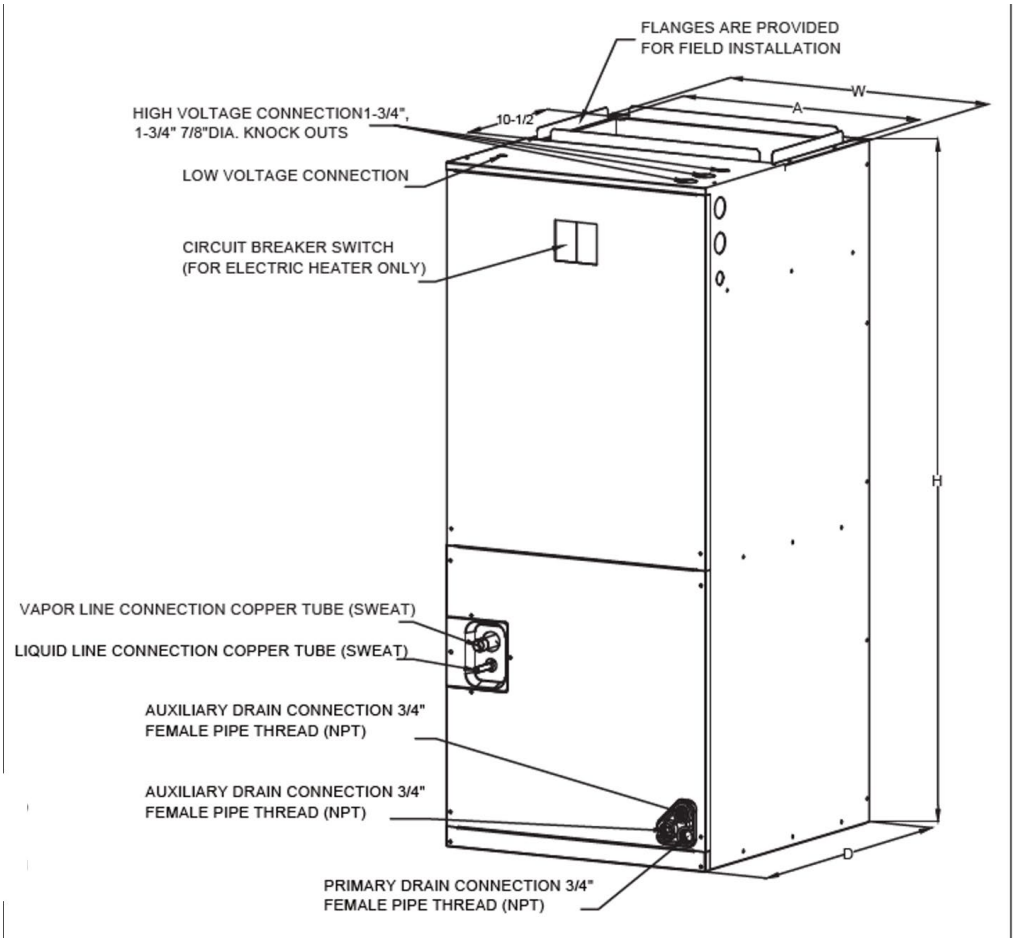
Individual specifications

PERFORMANCE / ELECTRICAL	SPECIFICATION
Cooling capacity	41,000 Btu/h
Power supply	
MCA / MOP - without electric heater	7 A / 10 A
Indoor airflow / noise	1,330 CFM / 59 dB(A)
Throttling type	Piston
Minimum / maximum voltage	187 / 253 V
Cooling operating range	54-120 degrees F
INDOOR MOTOR / BLOWER	
Motor type	ECM
Motor output / rated current	560 W / 5.4 A
Motor speeds	977 / 833 / 760 / 683 / 610 rpm
Fan type / material	Centrifugal volute / Metal
Fan diameter / width	12-5/16 in. / 12-29/32 in.
INDOOR COIL	
Fin material / tube material	Hydrophilic / Inner grooved

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 connection details



DIMENSION / PACKAGING	DATA
Height H / width W	53-1/8 in. [1350 mm] / 22 in. [560 mm]
Depth D / supply duct A	24-1/2 in. [623 mm] / 19-1/2 in. [496 mm]
Packing W x H x D (in.)	28 x 54-3/4 x 25-1/5
Packing W x H x D (mm)	
Net / gross weight - specification data	159 / 172 lb
Unit weight - dimensional data	163 lb [74 kg]

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Model-specific blower airflow data

Model size of air processor	Motor speed		SCFM External Static Pressure-Inch Water Column [kPa]								
			0[0]	0.1[.025]	0.2[.050]	0.3[.075]	0.4[.100]	0.5[.125]	0.6[.150]	0.7[.175]	0.8[.200]
42K	Tap (1)	SCFM	1343.9	1271.9	1208.5	1150.9	1085.5	1042.0	899.4	839.6	777.6
		Watts	141.9	150.5	159.2	168	175	185	196	202	210
	Tap (2)	SCFM	1513.9	1451.5	1392.2	1320.2	1266.8	1211.4	1148.5	1036.2	975.4
		Watts	194.2	203.9	214	220.2	228.8	238.7	247.9	264.2	271.9
	Tap (3)	SCFM	1672.5	1620.5	1562.0	1522.0	1470.6	1422.7	1371.1	1309.8	1204.8
		Watts	259	271	282	293	303	312	323	333	353
	Tap (4)	SCFM	1807.3	1781.4	1731.6	1686.0	1640.4	1595.5	1547.1	1509.5	1460.8
		Watts	328.4	343.6	357.5	370.6	385.6	395.2	407	418	430
	Tap (5)	SCFM	2048.0	2000.5	1950.9	1905.3	1861.4	1819.2	1776.4	1729.9	1684.1
		Watts	447	462	476	491	507	520	525.6	538	550

Gray shading identifies the 300-450 CFM/ton range. Airflow is SCFM; power is watts. External static pressure is in. w.c., with kPa in brackets.

Airflow application notes

1. Use the advanced airflow as the rated airflow for full-load operation.

2. Airflow requirement: 300-450 CFM per ton without an electric heater kit; 350-450 CFM per ton with an electric heater kit.

3. Air distribution has the greatest influence on airflow. The contractor should use industry-recognized procedures.

4. Carefully design and construct air ducts; poor design or workmanship can significantly reduce system performance.

5. Locate and size supply ducts appropriately around the conditioned space. Insufficient airflow or improper placement may cause inadequate ventilation or duct noise.

6. Balance airflow to all rooms. Use an airflow hood or speedometer to verify branch duct and system airflow.

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Features and compatible electric heater kits

- High heat-transfer efficiency A-shaped coil with low static-pressure drop.
- Foil-faced insulation and fully insulated cabinet.
- Factory-sealed cabinet with 2% or less air leakage at 1.0 in. w.c.
- Multi-stage blower speed control.
- Four-position installation: upflow, horizontal right, downflow and horizontal left.
- Standard horizontal and vertical condensate drain pans with primary and secondary fittings.
- Multiple electrical entry locations.
- Dual front panels; blower scroll and coil mounted on slide tracks.
- Integrated filter rack with tool-free door access.
- Copper evaporator connections for brazing.
- Advanced internal welding process to reduce potential corrosion.
- AHRI certified and ETL listed.
- Factory-installed R32 refrigerant sensor.

Compatible electric heater kits

HEATER KIT PART NO.	NOMINAL CAPACITY
CHE6-05B	5 kW
CHE6-08B	8 kW
CHE6-10B	10 kW
CHE6-15B	15 kW