

Submittal

TAG:

PRODUCT NAME _____
LOCATION _____
ARCHITECT _____
ENGINEER _____
CONTRACTOR _____
SUBMITTED BY _____ DATA _____

UNIT SUMMARY

Quantity						
Unit Designation						
Model No.						
Cooling Input						
Cooling Output						
CFM/ESP						
Electrical						
Minimum Ampacity						
Max Overcurrent Protection						
Net Unit Weight						
Accessory						
Catalog Form Number						

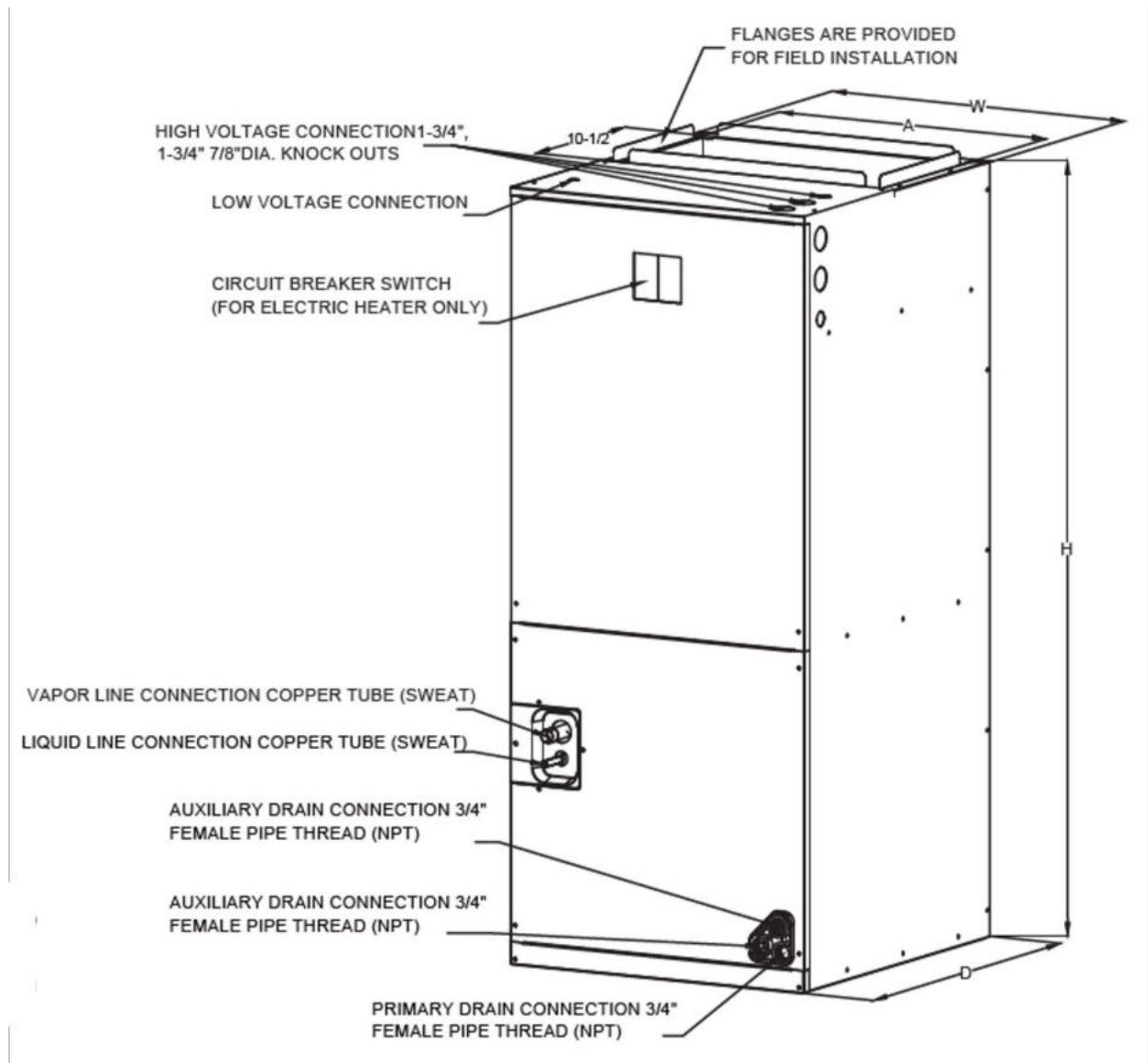
ACCESSORIES

NOTES

Air Handlers

LUC17 Series

Cooling capacity: 24 kBTU/h



Model Size	Unit Height "H" in. [mm]	Unit Width "W" in. [mm]	Unit Length "D" in. [mm]	Supply Duct "A"	Unit Weight (lbs.[kg])
18	45-3/4 [1162]	19-5/8 [500]	22 [560]	17-7/8 [454]	119 [54]
24	45-3/4 [1162]	19-5/8 [500]	22 [560]	17-7/8 [454]	128 [58]
30	45-3/4 [1162]	19-5/8 [500]	22 [560]	17-7/8 [454]	129 [58.5]
36	45-3/4 [1162]	19-5/8 [500]	22 [560]	17-7/8 [454]	129 [58.5]

Specifications

Market Model			LUC17-24-15
Power supply		V/Ph/Hz	208~230V/1N/60Hz
Cooling	Capacity	Btu/h	22800
	EER2	Btu/h.W	11.7
	SEER2	Btu/h.W	14.3
Refer to Room Area	square feet		362.00
Indoor external static pressure		Pa	145
Throttle type			piston
MCA		A	4
MOP		A	6
Circuit breaker selection		A	15
Indoor coil	Number of row		4(row)×2(piece)
	Tube pitch(a)×row itch(b)	in	0.83×0.53
	Fin spacing	in	0.059
	Fin material		Hydrophilic
	Tube outside diameter	in	Φ 0.276
	Tube material		inner grooved
Indoor fan motor	Brand		Broad-Ocean
	Type		ECM
	Model		DZJ-249F-12
	Rate current	A	2.6
	Input	W	142.4
	Output	W	249
	Capacitor	μF	/
	Speed (Hi/Me Hi/Me/Me lo/Lo) 5/4/3/2/1	RPM	643/593/556/476/412
Blower	diameter	in	12 19/67
	width	in	13 3/95
Indoor air flow		CFM	800
Indoor noise level		dB(A)	54
Indoor dimension	Unit (WxHxD)	in	19-5/8×45-3/4×22
		mm	500×1162×560
	Packing (WxHxD)	in	22-5/6×47-5/8×25-3/5
		mm	580×1210×650
	Net / Gross weight	kg	58/63.5
		lbs	128/140
Shipping per STD 20/40/40HQ			30/60/120
Service code			39Y

Airflow Data

30K	Tap (1)	SCFM	955.3	897.8	839.5	739.4	655.3	575.9	511.5	432.4	392.2
		Watts	91	96	102	110	115	121	127	138	140
	Tap (2)	SCFM	1080.7	1031.5	977.4	925.6	819.4	743.8	675.5	608.7	547.1
		Watts	125	131	137	143	153	160	166	173	179
	Tap (3)	SCFM	1182.2	1138.1	1089.0	1042.9	986.9	879.5	811.4	749.5	689.2
		Watts	158	165	172	177	185	197	203	212	221
	Tap (4)	SCFM	1305.6	1261.8	1220.9	1179.5	1132.2	1086.1	984.1	914.5	856.6
		Watts	207	214	221	228	236	244	257	266	273
	Tap (5)	SCFM	1386.7	1350.0	1309.4	1274.6	1233.1	1186.6	1137.8	1031.5	970.0
		Watts	245	253	262	270	277	285	295	309	318
36K	Tap (1)	SCFM	955.3	897.8	839.5	739.4	65.5	575.9	511.5	432.4	392.2
		Watts	91	96	102	110	115	121	127	138	140
	Tap (2)	SCFM	1080.7	1031.5	977.4	925.6	819.4	743.8	675.5	608.7	547.1
		Watts	125	131	137	143	153	160	166	173	179
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		Watts	158	165	172	177	185	197	203	212	221
	Tap (4)	SCFM	1305.6	1261.8	1220.9	1179.5	1132.2	1086.1	984.1	914.5	856.6
		Watts	207	214	221	228	236	244	257	266	273
	Tap (5)	SCFM	1386.7	1350.0	1309.4	1274.6	1233.1	1186.6	1137.8	1031.5	970.0
		Watts	245	253	262	270	277	285	295	309	318

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]
18K	Tap (1)	SCFM	669.9	571.8	490.9	394.3	269.5	-	-	-	-
		Watts	41	47	52	57	61	-	-	-	-
	Tap (2)	SCFM	792.2	708.6	615.9	548.5	474.2	371.5	265.1	-	-
		Watts	59	67	73	77	83	88	93	-	-
	Tap (3)	SCFM	948.8	887.5	809.6	723.6	671.6	597.0	504.2	410.2	-
		Watts	96	102	109	115	129	126	132	141	-
	Tap (4)	SCFM	1020.9	966.5	887.1	798.4	738.8	697.9	672.3	572.8	490.1
		Watts	118	127	136	144	150	156	160	167	177
	Tap (5)	SCFM	1115.2	1059.2	995.0	906.5	842.5	791.4	727.2	707.0	652.5
		Watts	148	157	167	178	186	191	198	205	211
24K	Tap (1)	SCFM	669.9	571.8	490.9	394.3	269.5	-	-	-	-
		Watts	41	47	52	57	61	-	-	-	-
	Tap (2)	SCFM	792.2	708.6	615.9	548.5	474.2	371.5	265.1	-	-
		Watts	59	67	73	77	83	88	93	-	-
	Tap (3)	SCFM	948.8	887.5	809.6	723.6	671.6	597.0	504.2	410.2	-
		Watts	96	102	109	115	129	126	132	141	-
	Tap (4)	SCFM	1020.9	966.5	887.1	798.4	738.8	697.9	672.3	572.8	490.1
		Watts	118	127	136	144	150	156	160	167	177
	Tap (5)	SCFM	1115.2	1059.2	995.0	906.5	842.5	791.4	727.2	707.0	652.5
		Watts	148	157	167	178	186	191	198	205	211

--- The highlighted area indicates the airflow within the required range of 300-450cfm/ton.

Note:

1. The advanced airflow must be used as the rated airflow for the full-load operation of the machine.
2. The rated airflow of a system without an electric heater kit requires 300 to 450 cubic feet of air per minute (CFM).
3. The rated airflow of a system with an electric heater kit requires 350 to 450 cubic feet of air per minute (CFM).
4. The air distribution system has the greatest influence on air flow. Therefore, the contractor should only use the procedures recognized by the industry.
5. The design and construction of air duct should be done carefully. Poor design or process will lead to a significant decline in system performance.

6. The air supply duct should be set along the periphery of the air-conditioned space with appropriate size. Improper location or insufficient airflow may lead to insufficient ventilation or noise in the ductwork.
7. The installer should balance the air distribution system to ensure that all rooms in the room have proper quiet airflow. The speedometer or airflow hood can be used to balance and verify the branch duct and system airflow (CFM)

MCA/MOP Data of Electric Heat Kit

Table 4.2 Applicable Heat Kits for AHU Multi Position Installation

Heat kit model	AHU model	electric heat(kW) 208/230VAC	Current (A) 208/230VAC	MCA (A) 208/230VAC	MAX.Fuse or Breaker (HACR) Ampacity		Fan speed				
					208 VAC	230 VAC	1	2	3	4	5
CHE6-05B	18K	3.8/5	19.66/21.74	25/29	30	35	●	●	●	●	●
CHE6-08B		5.6/7.5	29.50/32.61	37/43	40	45	x	x	●	●	●
CHE6-05B	24K	3.8/5	19.66/21.74	25/29	30	35	●	●	●	●	●
CHE6-08B		5.6/7.5	29.50/32.61	37/43	40	45	x	x	●	●	●
CHE6-10B		7.5/10	39.32/43.48	50/57	55	60	x	x	x	●	●
CHE6-05B	30K	3.8/5	19.66/21.74	25/29	30	35	●	●	●	●	●
CHE6-08B		5.6/7.5	29.50/32.61	37/43	40	45	x	●	●	●	●
CHE6-10B		7.5/10	39.32/43.48	50/57	55	60	x	x	●	●	●
CHE6-05B	36K	3.8/5	19.66/21.74	25/29	30	35	●	●	●	●	●
CHE6-08B		5.6/7.5	29.50/32.61	37/43	40	45	x	●	●	●	●
CHE6-10B		7.5/10	39.32/43.48	50/57	55	60	x	x	●	●	●
CHE6-15B		(5.6+5.6) /(7.5+7.5)	29.50+29.50/32.61+32.61	37+37/43+43	40/40	45/45	x	x	x	●	●

Table 4.3 Heater Kit Accessories

Heat kit model Market Model/ Factory Model	Description	18	24	30	36
CHE6-05B	5 kW heating kit, single-pole circuit breaker	●	●	●	●
CHE6-08B	7.5 kW heating kit, single-pole circuit breaker	●	●	●	●
CHE6-10B	10 kW heating kit, single/double pole circuit breaker	x	●	●	●
CHE6-15B	15 kW heating kit, double pole circuit breaker	x	x	x	●
CHE6-20B	20 kW heating kit, double pole circuit breaker	x	x	x	x

Features

- High heat-transfer efficiency and low static-pressure drop A-shaped coil.
- Foil-faced insulation to prevent energy loss through the cabinet.
- Multi-stage blower Speed Control to align with varying capacity demands.
- 4-position installation: Upflow, Horizontal Right, Downflow, Horizontal Left.
- Horizontal and vertical condensate drain pans standard, primary and secondary condensate fittings.
- Field-installed electric heater kits 5, 7.5, 10, 15, 20 kW available as accessories. Multiple electrical entry locations.
- Dual front panel, volute and coil with slide track.
- Integrated filter rack with toolless door access.
- Easy-to-braze copper evaporator connection.
- Advanced internal welding process to reduce potential corrosion.
- AHRI and ETL listed.
- Fully-insulated cabinet design.
- R32 refrigerant sensor ensures safe operation.
- R32 refrigerant sensor is factory-installed, making unit suitable for more room types and applications.

ComfortStar®

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