Submittal

TAG:

PRODUCT NAME _____

LOCATION _____

ARCHITECT _____

ENGINEER _____

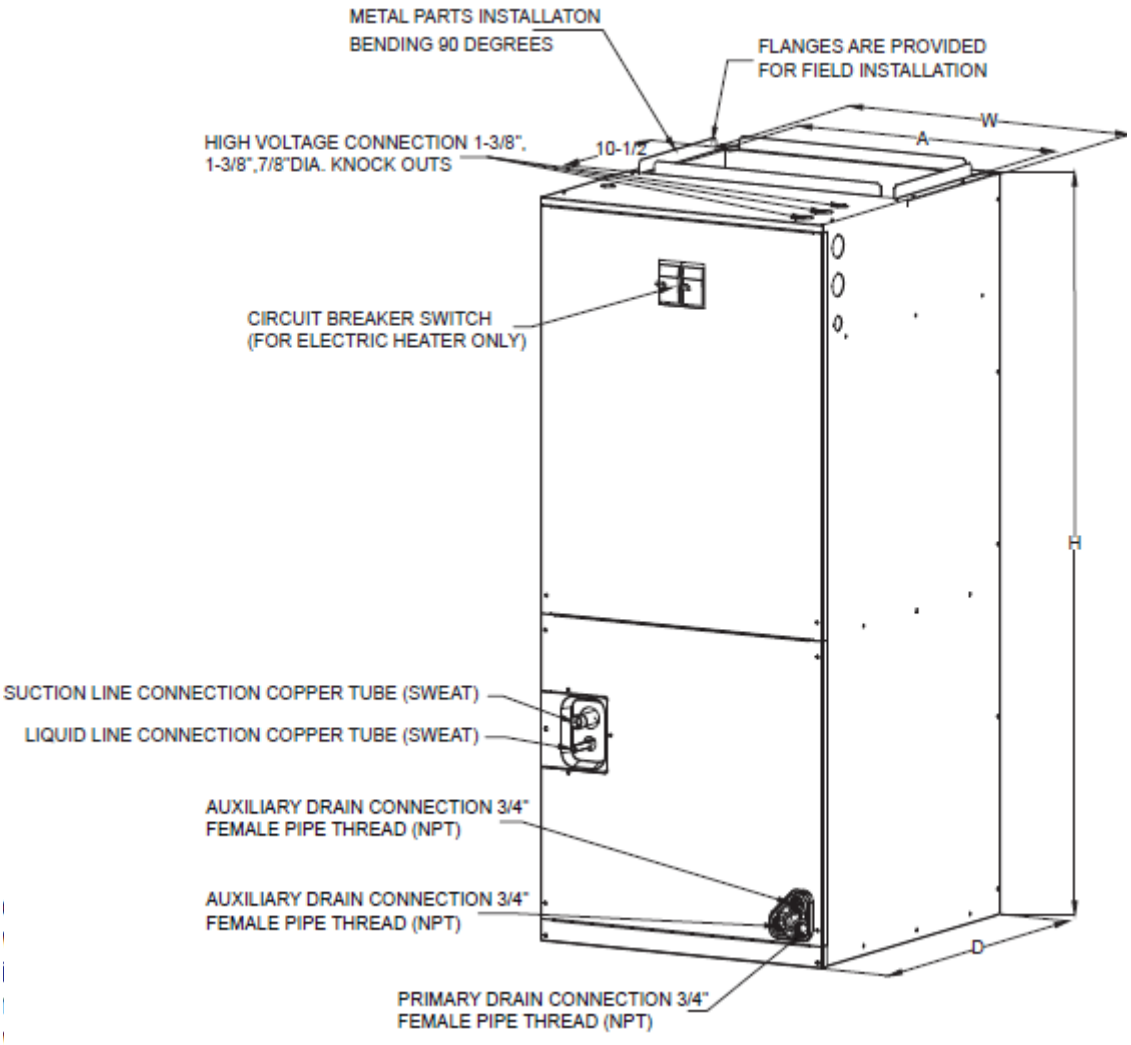
CONTRACTOR _____

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
LUC6 Series
Cooling capacity: 18-36 kBTU/h



Model	Dimension Inches [mm]				
	Height "H"	Width "W"	Dimension "D"	Air outlet "A"	Liquid Line / Vapor Line
18K	45-3/4 [1162]	19-5/8 [500]	22 [560]	17-7/8 [454]	3/8 / 3/4 [9.5]/[19]
24K	45-3/4 [1162]	19-5/8 [500]	22 [560]	17-7/8 [454]	3/8 / 3/4 [9.5]/[19]
30K	45-3/4 [1162]	19-5/8 [500]	22 [560]	17-7/8 [454]	3/8 / 3/4 [9.5]/[19]
36K	45-3/4 [1162]	19-5/8 [500]	22 [560]	17-7/8 [454]	3/8 / 3/4 [9.5]/[19]

Specifications

Market Model			**LUC6-18-15**
Power supply		**V/Ph/Hz**	208~230V/1N/60Hz
Indoor external static pressure		**Pa**	110
Throttle type			piston
MCA		**A**	4
MOP		**A**	6
Circuit breaker selection		**A**	15
Indoor coil	**Number of row**		3(row)×2(piece)
	Tube pitch(a)xrow pitch(b)	**in**	0.83×0.53
	Fin spacing	**in**	1/16
	Fin material		Hydrophilic
	Tube outside diameter	**in**	Φ 0.276
	Tube material		inner grooved
	Coil length x height x width	**in**	17 5/8×14 7/8×1 5/8
	Number of circuit		6
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 5/16
	width	**in**	12 29/32
Indoor air flow		**CFM**	770
Indoor noise level		**dB(A)**	50
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**	56/61.5
		lbs	123/135
Shipping per STD 20/40/40HQ			30/60/120
SERVICE CODE			38Q

Table: Applicable heater kits for AHU multi position installation

Heater 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	×	×	●	●	●
CHE6-10B		7.5/10	39.32/43.48	50/57	55	60	×	×	×	●	●
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	×	×	●	●	●
CHE6-10B		7.5/10	39.32/43.48	50/57	55	60	×	×	×	●	●
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	×	●	●	●	●
CHE6-10B		7.5/10	39.32/43.48	50/57	55	60	×	×	●	●	●
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	×	×	×	●	●
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	×	●	●	●	●
CHE6-10B		7.5/10	39.32/43.48	50/57	55	60	×	×	●	●	●
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	×	×	×	●	●

Heater Kit Accessories

Heater kit model	Description	18	24	30	36	42	48	60
CHE6-05B/ FMDJR05	5 kW heating kit, single-pole circuit breaker	●	●	●	●	●	●	●
CHE6-08B/ FMDJR08	7.5 kW heating kit, single-pole circuit breaker	●	●	●	●	●	●	●
CHE6-10B/ FMDJR10	10 kW heating kit, single/double pole circuit breaker	×	●	●	●	●	●	●
CHE6-15B/ FMDJR15	15 kW heating kit, double pole circuit breaker	×	×	×	●	●	●	●

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]
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

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
	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

--- 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)

Features

- High heat-transfer efficiency and low static-pressure drop coil.
- Foil-faced insulation to prevent energy loss through the cabinet.
- Factory-sealed cabinet certified to achieve 2% or less air leakage rate at 1.0-inch water column.
- Multi-stage blower Speed Control to align with varying capacity demands.
- 2-position installation: Front return air and rear return air
- condensate drain pans standard.
- Field-installed electric heater kits 5, 7.5, 10 kW available as accessories.
  Multiple electrical entry locations.
- 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.
- R454B refrigerant sensor ensures safe operation.
- R454B refrigerant sensor is factory-installed, making unit suitable for more room types and applications.

ComfortStar®

Add.: 12201 N W 107th Avenue Miami, FL 33178

1.866.524.9898 Toll Free

305.500.9898 Office

305.500.9896 Fax document.

http://www.comfortstarusa.com