



Lee's Summit Scope of Work Statement

Codes Administration Department
220 SE Green Street
Lee's Summit, MO 64063

Phone: (816) 969-1200 Fax: (816) 969-1201
Revised November 22, 2011

Contractor: Central Systems Heating & A/C, Inc. Contact Name: Nick Burke
Address: 2857 W. 40 Highway
City: Blue Springs State: MO Zip: 64015
Phone: (816) 228-2022 Fax: (816) 228-6948

Project Address: 1041 NE Sam Walton Lane Unit B

Name of Owner:

Scope of Work: Replace RTU

Cost of project including labor \$ 7000

AFFIDAVIT: I hereby certify that I have the authority to make the foregoing application and that the application, the best of my knowledge, is complete and correct and that the permitted construction will conform to the regulations in the Codes adopted by the City of Lee's Summit and all applicable ordinances.

Wick Burke
Signature of Owner or Authorized Agent

Nick Burke

4/26/12
Date

ORIGINAL

Table 1 -- Physical Data

BASE UNIT 48	LJE/LJF004	LJD/LJE/LJF005	LJD/LJE/LJF006	LJD/LJE/LJF007
NOMINAL CAPACITY (tons)	3	4	5	6
OPERATING WEIGHT (lb)				
Unit	530	540	560	615
Economizer	34	34	34	34
Roof Curb	115	115	115	115
COMPRESSOR	Reciprocating	Scroll		Reciprocating
Quantity	1	1	1	1
Oil (oz)	55	55	70	65
REFRIGERANT TYPE	R-22			
Operating Charge (lb-oz)	6-0	7-6	8-3	9-12
CONDENSER FAN	Propeller Type			
Quantity...Diameter (in.)	1...26.0	1...26.0	1...26.0	1...26.0
Nominal Cfm	4600	4600	4100	4100
Motor Hp...Rpm	1/3 850	1/3...850	1/3...850	1/3 850
CONDENSER COIL	Enhanced Copper Tubes, Aluminum Lanced Fins			
Rows...Fins/in.	1.. 17	2.. 17	2.. 17	2.. 17
Total Face Area (sq ft)	12.25	12.25	12.25	12.25
EVAPORATOR FAN	Centrifugal Type			
Size (in.)	10 x 10	10 x 10	10 x 10	10 x 10
Type Drive	Std Direct	Std Direct	Std Belt	Std Belt
Nominal Cfm	1200	1600	2000	2400
Maximum Continuous Bhp	Std 34	Alt .81	1.80	2.40
Motor Frame	Alt 81	1.20	—	—
Motor Frame	Std 48	48	56	56
Nominal Rpm High/Low	Alt 48	56	—	—
Fan Rpm Range	Std 860/845	1080/970	—	—
Motor Bearing Type	Alt 1080/970	—	—	—
Maximum Fan Rpm	—	970-1310	—	—
Motor Pulley Pitch Diameter A/B (in.)	Std Ball	2100	Std Ball	Std Ball
Fan Pulley Pitch Diameter (in.)	Alt 2100	—	2100	2100
Belt — Type...Length (in.)	Std —	1 9/2 9	2 4/3 4	2.8/3.8
Pulley Center Line Distance (in.)	Alt —	3.5	4.5	4.5
Speed Change Per Full Turn of Moveable Pulley Flange (rpm)	Std —	A 31	A 39	A 39
Movable Pulley Maximum Full Turns From Closed Position	Alt —	14 7-15 5	14 7-15.5	14 7-15 5
Factory Setting — Full Turns Open	Std —	—	80	79
Factory Speed Setting (rpm)	Alt —	68	5	5
Fan Shaft Diameter at Pulley (in.)	Std —	5	3	3
	Alt —	3	1060	1230
	—	1110	1/2	%
EVAPORATOR COIL	Enhanced Copper Tubes, Aluminum Double Wavy Fins, Acutrol™ Feed Device			
Rows...Fins/in.	2.. 15	2.. 15	3.. 15	4...15
Total Face Area (sq ft)	4.17	5.5	5.5	5.5
FURNACE SECTION				
Burner Orifice Diameter (in. ...drill size)*				
Natural Gas — Std	113 33	113. 33/ 113 33/ 129 30	113. 33/ 113 33/ 129. 30	113 33/ 113 33/ 129. 30
Liquid Propane — Alt	089 43	.089.. 43/ 089 .43/ .102 .38	089 43/ 089 43/ 102 38	089 43/ 089 43/ 102 38
Thermostat Heat Anticipator Setting (amps)				
208/230/460 v				
First Stage	.14	.14	14	14
Second Stage	—/ 14	—/—/ 14	—/—/ 14	—/—/ 14
Gas Input				
First Stage	74,000/82,000	74,000/115,000/120,000	74,000/115,000/120,000	74,000/115,000/120,000
Second Stage	—/115,000	—/—/150,000	—/—/150,000	—/—/150,000
Efficiency (Steady State) (%)	80	80	80	80
Temperature Rise Range	25-55/55-85	25-55/35-65/50-80	25-55/35-65/50-80	25-55/35-65/50-80
Manifold Pressure (in. wg)				
Natural Gas — Std	3.5	3.5	3.5	3.5
Liquid Propane — Alt	3.5	3.5	3.5	3.5
Field Gas Connection Size (in.)	.5	.5	.5	.5
HIGH-PRESSURE SWITCH (psig)†				
Standard Compressor Internal Relief	625			
Cutout	428			
Reset (Auto.)	320			
LOSS-OF-CHARGE/LOW-PRESSURE SWITCH†				
(Liquid Line) (psig)				
Cutout	7 ± 3			
Reset (Auto.)	22 ± 7			
FREEZE PROTECTION THERMOSTAT†				
Opens (F)	30 ± 5			
Closes (F)	45 ± 5			
OUTDOOR-AIR INLET SCREENS				
Qty...Size (in.)	Cleanable 1...20 x 24 x 1			
RETURN-AIR FILTERS				
Qty...Size (in.)	Throwaway 2...16 x 25 x 2			

LEGEND

Bhp — Brake Horsepower

*The 48LJD005-007 and 48LJE004 (74,000 Btuh) units have 2 burners. The 48LJE005-007 and 48LJF004 (115,000 Btuh) units and the 48LJF005-007 (150,000 Btuh) units have 3 burners.

†Indicates a FIOP (Factory-Installed Option) that requires a control kit.

NEW

WEIGHT DATA

Model Number	Net				Shipping			
	Base		Max.		Base		Max.	
	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg
024S	495	225	607	275	555	252	676	307
030S	497	225	609	276	557	253	678	308
036S	498	226	610	277	558	253	679	308
048S	535	243	647	293	595	270	716	325
060S	565	256	681	309	625	283	750	340
072S	664	301	767	348	724	328	839	381
090S	767	348	873	396	827	375	942	427

Base Unit - The unit with NO OPTIONS.

Max. Unit - The unit with ALL OPTIONS installed (Economizer, etc.).

OPTIONS / ACCESSORIES

				Shipping Weights	
				lbs.	kg
ECONOMIZER / OUTDOOR AIR					
Economizer					
Economizer, Includes Outdoor Air Hood and Barometric Relief Dampers with Hood		T1ECON30A-1		123	56
		T1ECON30N-1		142	65
OUTDOOR AIR					
Outdoor Air Dampers					
Outdoor Air Damper Motorized Kit		T1DAMP11A-1		25	12
		T1DAMP11N-1		29	14
Damper Section Manual		T1DAMP21AN1		18	9
Power Exhaust					
Standard Static		T1PWRE10A-1		35	17
		T1PWRE10N-1		39	19
ELECTRIC HEAT					
Electric Heat		7.5 kW - T1EH0075AN1		31	14
		10 kW - T1EH0100AN1		31	14
		15 kW - T1EH0150AN1		31	14
		22.5 kW - T1EH0225AN1		35	16
		30 kW - T1EH0300N-1		35	16
ROOF CURBS - DOWNFLOW					
Cliplock					
8 in. height		T1CURB23AN1		78	35
		K1CURB23AP1		83	38
14 in. height		T1CURB20AN1		96	44
		K1CURB20AP1		101	46
18 in. height		T1CURB21AN1		108	49
		K1CURB21AP1		113	51
24 in. height		T1CURB22AN1		126	57
		K1CURB22AP1		131	59
Hinged					
8 in. height		T1CURB30AN1		78	35
		K1CURB30AP1		83	38
18 in. height		T1CURB32AN1		108	49
		K1CURB32AP1		113	51
24 in. height		T1CURB33AN1		126	57
		K1CURB33AP1		131	59
Standard					
14 in. height		T1CURB10AN1		96	44
		K1CURB10AP1		101	46
CEILING DIFFUSERS					
Step-Down		RTD9-65		67	30
		RTD11-95		88	40
Flush		FD9-65		37	17
		FD11-95		75	34
Transitions (Supply and Return)		T1TRAN10AN1		22	10
		T1TRAN20N-1		21	10