

ENERGY RECOVERY UNIT SCHEDULE																
MARK	MNF.	MODEL	SUPPLY				EXHAUST				EFFECTIVENESS	V/P	MCA	REMARKS		
			SUPPLY CFM	EXT. S.P.	ENT. AIR °F	L.V.G. AIR °F	HP	EXHAUST CFM	EXT. S.P.	ENT. AIR °F					L.V.G. AIR °F	HP
ERU-1	MICROMETL	EVDG	1100	1.0	95/76	80/67	2.0	1100	1.0	75/63	89/72	2.0	72%	208/3	9.6	1,2,3
					2/1	52/42				72/54	19/18					
ERU-2	DAIKIN	VAM 120	1200	0.5	97/78	-	-	700	0.4	75/60	-	-	-	208/1	8.1	4
					5	-				72/54	-					

1. OUTDOOR UNIT, TOTAL ENTHALPHY WHEEL, HORIZONTAL DUCT CONNECTIONS.
2. CONTROL PANEL PROVIDED ON UNIT FOR SINGLE POINT POWER CONNECTION SEE SPECS.
3. MOUNT UNIT ON CURB OR EQUIPMENT RAILS, MIN. 14".
4. INDOOR UNIT, TOTAL ENTHALPHY PLATE.

ELECTRIC BASEBOARD HEATER SCHEDULE								
TYPE	MARK	MANUFACTURER	MODEL	TOTAL WATTS	BTUS	V/PH	LENGTH	REMARKS
EBH	01	CADET	EBHN750-1	750	2550	120/1	47	ALL
EBH	02	CADET	EBHN1250-1	1250	4265	120/1	71	ALL

1. TO USE END CAP THERMOSTAT KIT # EBKNW

FURNACE UNIT SCHEDULE													
TYPE	MARK	MANUFACTURER	MODEL	LOCATION	HEATING (MBH)		CFM	EXT. SP.	OA	VENT CONNECTION	ELEC V/PH	MCA	REMARKS
					IN	OUT							
F	01	CARRIER	59TP	MECH ROOM 103	60	58	1150	0.5	400	3"Ø TOP	115/1	10.9	1.4
F	02	CARRIER	59TP	MECH ROOM 103	80	78	1460	0.5	400	3"Ø TOP	115/1	14.7	1.4
F	03	CARRIER	OV1154	MECH ROOM 103	126	108	2000	0.4	280	6"Ø FRONT	115/1	16.1	2.3

1. SEALED COMBUSTION, GAS FIRED, MINIMUM 96% EFFICIENCY, TWO-STAGE.
2. OIL-FIRED BURNER, MINIMUM 86% EFFICIENCY, SEALED COMBUSTION.
3. PROVIDE OUTSIDE AIR DUCT NX ADAPTER KIT AND HORIZONTAL DIRECT VENT KIT DETSON VTK3.
4. PROVIDE CONCENTRIC FLUE + COMBUSTION AIR KIT.

CONDENSING UNIT SCHEDULE													
TYPE	MARK	MANUFACTURER	MODEL	SIZE	COOLING CAPACITY			REF. TYPE	SEER	ELEC V/PH	MCA	REMARKS	
					TOTAL MBH	AMBIENT °F	REF. SUCT. TEMP.						
CU	01	CARRIER	24ACC	36	33.4	95/75	-	PURON	14	208/1	18.1	ALL	
CU	02	CARRIER	24ACC	48	41.8	95/75	-	PURON	14	208/1	20.9	ALL	
CU	03	CARRIER	24ABB	60	57.7	-	-	PURON	13	208/1	34.2	ALL	

1. UNIT SHALL BE ANCHORED TO CONCRETE PAD.
2. CONDENSING UNIT MANUFACTURER SHALL VERIFY EXACT LENGTHS AND SIZE OF REFRIGERANT PIPING.
3. DISCONNECT SWITCHES BY E.C.
4. METAL HAIL GUARDS

AIR DEVICE SCHEDULE										
TYPE	MANUFACTURER	MODEL	MATERIAL	SIZE	FRAME TYPE	PANEL SIZE	NC	REMARKS		
S1	TITUS	TMS	STEEL	8"ø	LAY-IN	24"X24"	<20	2		
S2	TITUS	TMS	STEEL	8"ø	LAY-IN	24"X24"	<20	2		
S3	TITUS	TMS	STEEL	10"ø	LAY-IN	24"X24"	<20	2		
S4	TITUS	TMS	STEEL	12"ø	LAY-IN	24"X24"	<20	2		
S5	TITUS	301R	STEEL	12"ø	DUCT	-	<20	3		
S6	TITUS	301R	STEEL	18"ø	DUCT	-	<20	3		
S7	TITUS	TMR	STEEL	8"ø	DUCT	-	<20	3		
L1	RUSKIN	L375D	ALUM	20"X18"	WALL	-	<20	4		
L2	RUSKIN	BV100	ALUM	8"X4"	WALL	-	<20	4		
L3	RUSKIN	L375D	ALUM	12"X10"	WALL	-	<20	4		
R2	TITUS	350R	STEEL	18"ø	WALL	-	<20	4		
R3	TITUS	PAR	STEEL	22"X22"	LAY-IN	24"X24"	<20	1		
R4	TITUS	350R	STEEL	30"X24"	WALL	-	<20	1		
R5	TITUS	350R	STEEL	30"X12"	WALL	-	<20	1		
E1	TITUS	PAR	STEEL	8"ø	LAY-IN	24"X24"	<20	2		
E2	TITUS	350R	STEEL	24"X16"	WALL	-	<20	1		

1. WALL MOUNTED GRILLE.
2. COLOR WHITE.
3. ON EXPOSED DUCT.
4. COLOR PER ARCHITECT FROM MANUFACTURER'S FULL RANGE.

FAN COIL UNIT SCHEDULE														
MARK	NO.	MANUFACTURER	AREA SERVED	MODEL	CFM	ESP (IN) H2O	O.A.	COOLING (MBH)		HEATING		ELECTRICAL		REMARKS
								TOT.	SENS.	TOT. MBH	V/PH	MCA	MOP	
FCU	01	DAIKIN	OFFICE 134	FXM012	450	0.2	25	9.9	8.8	12.9	230/1	1.4	15.0	1,2,4,6,7
FCU	02	DAIKIN	SMALL CONFERENCE 130	FXP018	750	0.2	70	14.8	14.3	19.2	230/1	0.6	15.0	1,2,4,6,7
FCU	03	DAIKIN	OFFICE 139	FXQ012	350	0.2	20	10.0	7.1	12.9	230/1	0.4	15.0	1,2,4,6,7
FCU	04	DAIKIN	BULK STORAGE 125	FXD007	280	0.12	110	6.1	5.4	8.1	230/1	0.9	15.0	1,2,3,4,5,6,7
FCU	05	DAIKIN	N. CORRIDOR 133	FXM036	1100	0.4	60	29.6	26.4	38.5	230/1	2.9	15.0	1,2,3,4,5,6,7
FCU	06	DAIKIN	BREAK 141	FXZ018	520	-	85	14.9	11.6	19.0	230/1	0.6	15.0	1,2,4,6,7
FCU	07	DAIKIN	OFFICE 134	FXZ005	300	-	20	4.8	4.5	6.4	230/1	0.3	15.0	1,2,4,6,7
FCU	08	DAIKIN	OFFICE 135	FXZ005	300	-	20	4.8	4.5	6.4	230/1	0.3	15.0	1,2,4,6,7
FCU	09	DAIKIN	OFFICE 136	FXZ005	300	-	20	4.8	4.5	6.4	230/1	0.3	15.0	1,2,4,6,7
FCU	10	DAIKIN	OFFICE 138	FXZ005	300	-	20	4.8	4.5	6.4	230/1	0.3	15.0	1,2,4,6,7
FCU	11	DAIKIN	OFFICE 139	FXZ005	300	-	20	4.8	4.5	6.4	230/1	0.3	15.0	1,2,4,6,7
FCU	12	DAIKIN	OFFICE 140	FXZ005	300	-	20	4.8	4.5	6.4	230/1	0.3	15.0	1,2,4,6,7
FCU	13	DAIKIN	OFFICE 149	FXZ005	300	-	20	4.8	4.5	6.4	230/1	0.3	15.0	1,2,4,6,7
FCU	14	DAIKIN	OFFICE 148	FXZ005	300	-	20	4.8	4.5	6.4	230/1	0.3	15.0	1,2,4,6,7
FCU	15	DAIKIN	OFFICE 147	FXZ005	300	-	20	4.8	4.5	6.4	230/1	0.3	15.0	1,2,4,6,7
FCU	16	DAIKIN	OFFICE 148	FXZ005	300	-	20	4.8	4.5	6.4	230/1	0.3	15.0	1,2,4,6,7
FCU	17	DAIKIN	OFFICE 145	FXZ005	300	-	20	4.8	4.5	6.4	230/1	0.3	15.0	1,2,4,6,7
FCU	18	DAIKIN	OFFICE 144	FXZ005	300	-	20	4.8	4.5	6.4	230/1	0.3	15.0	1,2,4,6,7
FCU	19	DAIKIN	LOBBY/MEZZANINE	FXT054	1500	0.9	220	44.5	35.5	58.6	230/1	8.6	15.0	1,2,4,5,6,9
FCU	20	DAIKIN	LOUNGE/WORKSTATIONS	FXT054	1500	0.9	75	44.5	35.5	58.6	230/1	8.6	15.0	1,2,4,5,6,9
FCU	21	DAIKIN	SERVERIT 112	FXA007	300	-	0	4.8	4.5	6.4	230/1	0.3	15.0	1,2,4,6,10
FCU	22	DAIKIN	WORKROOM 111	FXZ007	310	-	35	6.3	5.3	8.1	230/1	0.3	15.0	1,2,4,6,7
FCU	23	DAIKIN	OFFICE 123	FXZ007	310	-	20	6.3	5.3	8.1	230/1	0.3	15.0	1,2,4,6,7
FCU	24	DAIKIN	OFFICE 122	FXZ007	310	-	20	6.3	5.3	8.1	230/1	0.3	15.0	1,2,4,6,7
FCU	25	DAIKIN	MOTHERS 119	FXZ005	300	-	20	4.8	4.5	6.4	230/1	0.3	15.0	1,2,4,6,7
FCU	26	DAIKIN	CONFERENCE 114	FXP038	1175	-	160	29.7	24.9	38.5	230/1	3.4	15.0	1,2,4,6,8

1. FAN COIL UNIT MANUFACTURER SHALL VERIFY EXACT LENGTHS AND SIZE OF REFRIGERANT PIPING.
2. CONDENSATE OVERFLOW SENSOR AND SHUT-OFF. PROVIDE CONDENSATE PUMP.
3. SLIM CEILING MOUNTED DUCTED UNIT.
4. FAN COIL COOLING CAPACITY SIZED AT 75 DB AND 50% RH.
5. 1" THROWAWAY FILTER.
6. DISCONNECTED BY E.C.
7. 24"X24" CEILING CASSETTE UNIT.
8. 30"X30" CEILING CASSETTE UNIT.
9. VERTICAL DUCTED UNIT.
10. WALL MOUNTED UNIT.

OUTSIDE AIR PROCESSING UNIT SCHEDULE													
MARK	NO.	MANUFACTURER	MODEL	CFM	ESP (IN) H2O	O.A.	COOLING (MBH)		HEATING		ELECTRICAL		REMARKS
							TOT.	SENS.	TOT. MBH	V/PH	MCA	MOP	
OAP	01	DAIKIN	FXM048	1200	0.4	1200	48	32.8	61.6	230/1	3.4	15.0	ALL

1. DUCTED INDOOR UNIT
2. 1" THROWAWAY FILTER

BRANCH SELECTOR BOX SCHEDULE							
MARK	NO.	MANUFACTURER	MODEL	NO. OF BRANCHES	V/PH	MOOP	REMARKS
BS	01	DAIKIN	BS10Q54TVJ	10	208/1	15	-
BS	02	DAIKIN	BS10Q54TVJ	10	208/1	15	-
BS	03	DAIKIN	BSQ54TVJ	8	208/1	15	-

- 1.

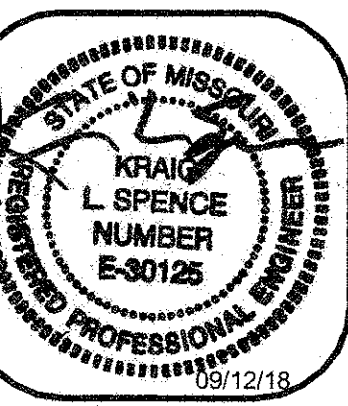
HEAT PUMP SCHEDULE														
TYPE	MARK	MANUFACTURER	MODEL	SIZE	COOLING CAPACITY			HEATING CAPACITY			EER	ELEC V/PH	MCA	REMARKS
					TOTAL MBH	AMBIENT °F	REF. SUCT. TEMP.	TOTAL MBH	AMBIENT °F	REF. SUCT. TEMP.				
HP	01	DAIKIN	REYQ	336	320	95	214	0	10.7	208/3	61.961.9	15	ALL	

1. HEAT RECOVERY UNIT.
2. MOUNT UNIT ON CURB OR EQUIPMENT RAILS, MIN 14".

EXHAUST FAN SCHEDULE														
TYPE	MARK	MANUFACTURER	MODEL	LOCATION	CFM	SP	SONE	V/PH	HP	WATTS	REMARKS			
EF	01	COOK	GC-128	RESTROOM-11	50	0.3	2	115/1	-	28	1	-		
EF	02	COOK	GC-128	WOMENS-120	50	0.3	2	115/1	-	28	1	-		
EF	03	COOK	GC-128	MENS-117	60	0.3	2	115/1	-	28	1	-		
EF	04	COOK	GC-168	WOMENS-109	150	0.3	3.5	115/1	-	56	1	-		
EF	05	COOK	GC-168	MENS-108	150	0.3	3.5	115/1	-	56	1	-		
EF	06	COOK	GC-128	JANITOR-118	50	0.3	2	115/1	-	28	1	-		

1. GRAVITY BACKDRAFT DAMPER.

The Seal and Signature apply only to the Document to which they are Affixed, and Excessively Declining any Responsibility for the other Plans, Specifications, Estimates, Recommendations, or any other Documents, which may be intended to be used for any part or parts of the Project, shall be void. Copyright © 2015 by SSC Engineering, Inc.



Craig L. Spence
E-30125

CENTRAL MISSOURI PROFESSIONAL SERVICES, INC.
 MISSOURI STATE CERTIFICATE OF AUTHORITY #
 SSC ENGINEERING, INC.
 MECHANICAL/ELECTRICAL/PLUMBING ENGINEER
 MISSOURI STATE CERTIFICATE OF AUTHORITY #001244
 SSC ENGINEERING, INC.
 STRUCTURAL ENGINEER
 MISSOURI STATE CERTIFICATE OF AUTHORITY #001244



Missouri State Certificate of Authority # 000143
 631 West Main Street
 Jefferson City, Missouri
 (573) 636-5000 phone

MECHANICAL SCHEDULES

MISSOURI SOYBEAN INNOVATION CENTER
 NEW OFFICE BUILDING
 734 S. COUNTRY CLUB DRIVE
 JEFFERSON CITY, MISSOURI

PROJECT NO. 1613
 DATE: Sept. 12, 2018

M0.2

2017349 - BID/PERMIT SET - 09-12-18