FAN UNIT SCHEDULE (GAS FIRED FURNACE) (2)

MARK	MIN.REQ'D OUTPUT BTU/HR (1)	MINIMUM A.C.F.M.	MINIMUM O.A.	EXT. S.P. IN.W.G.	STANDARD FILTER SIZE (8)	MOTOR (5) MINIMUM H.P.	MOTOR (5) SPEED (7)	REMARKS (9)
F 1	42,000/28,000 (3)	1125	330	0.60	1X16X25	1/2	(4)	--
F 2	42,000/28,000 (3)	1125	330	0.60	1X16X25	1/2	(4)	--
F 3	42,000	1125	175	0.60	1X16X25	1/3	(6)	--
F 4	42,000	1125	175	0.60	1X16X25	1/3	(6)	--
F 5	42,000/28,000 (3)	1125	330	0.60	1X16X25	1/2	(4)	--
F 6	42,000/28,000 (3)	1125	330	0.60	1X16X25	1/2	(4)	--

(1) SEA LEVEL RATING
(2) FURNACE MARKS CORRESPOND WITH CONDENSING UNIT AND COOLING COIL MARKS.
(3) TWO STAGE HEAT FURNACE. HIGH/LOW
(4) VARIABLE SPEED ECM MOTOR.
(5) ELECTRICAL CHARACTERISTICS – MOTOR: 115V/1PHASE/60HZ
(6) 4-SPEED, DIRECT DRIVE PSC MOTOR.
(7) SET FAN MOTOR SPEED TAP TO LOWEST POSSIBLE SETTING REQUIRED TO ACHIEVE DESIGN AIR FLOW.
(8) SEE DETAIL G/M502
(9) SEE SPECIFICATION FOR APPROVED MANUFACTURERS

COMPRESSOR UNIT SCHEDULE (COOLING ONLY) (1)(3)(4)

MARK	MIN. NOMINAL SIZE (TONS) (2)	COMPRESSOR RATED LOAD AMPS	FAN FULL LOAD AMPS	MIN. CIRCUIT AMPS	MOCP	REMARKS (5)
CU 1	2.5	14.1	1.4	18.7	30	(6)
CU 2	2.5	14.1	1.4	18.7	30	(6)
CU 3	2.5	14.1	1.4	18.7	30	(6)
CU 4	2.5	14.1	1.4	18.7	30	(6)
CU 5	2.5	14.1	1.4	18.7	30	(6)
CU 6	2.5	14.1	1.4	18.7	30	(6)

(1) REFRIGERANT R-410a
(2) AT DESIGN CONDITIONS AND 100°F ENTERING AIR TEMPERATURE TO CONDENSER.
(3) CONDENSING UNIT MARKS CORRESPOND WITH DX COIL AND FURNACE MARKS.
(4) ELECTRICAL CHARACTERISTICS-COMPRESSOR: 240V/1 PHASE/60HZ
(5) SEE SPECIFICATION FOR APPROVED MANUFACTURERS
(6) COORDINATE ACTUAL ELECTRICAL RATINGS OF UNIT SUPPLIED WITH DIVISION 26.

DX COIL SCHEDULE (1)

MARK	CALCULATED COOLING LOAD TOT.MBH	CALCULATED COOLING LOAD SEN.MBH	EVAPORATOR ENT. CONDITIONS DB °F	EVAPORATOR ENT. CONDITIONS WB °F	A.C.F.M./ S.C.F.M. (3)	MAX. PR. DR. IN. W.G. (2)	REMARKS (4)
CC 1	17.8	17.8	82.4	68.3	1125/954	0.23	- -
CC 2	18.3	18.3	82.2	68.0	1125/954	0.23	- -
CC 3	22.8	21.0	80.3	65.5	1125/954	0.23	- -
CC 4	19.8	18.4	80.0	66.6	1125/954	0.23	- -
CC 5	18.9	15.8	78.7	67.7	1125/954	0.23	- -
CC 6	18.4	18.4	82.4	68.1	1125/954	0.23	- -

(1) COMPLETE WITH FACTORY COIL BOX AND COIL
(2) WET COIL
(3) 4500 FEET ELEVATION. (0.848 CFM TRANSMISSION FACTOR)
(4) SEE SPECIFICATION FOR APPROVED MANUFACTURERS

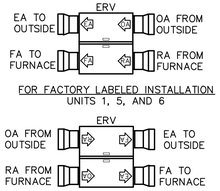
DIFFUSER SCHEDULE (5)

MARK	C.F.M. RANGE (1)	DIFFUSER SIZE	NECK CONN.	BLOW	PATTERN	AIR DIST./SIDE A (%)	AIR DIST./SIDE B (%)
D-1	50-70 (3)	6X6	6"ø	3 WAY	A B	38	31
D-2	280-285 (3)	9X9	9X9	3 WAY	A B	38	31
D-3	90-210 (2)	9X9	8"ø	4 WAY	A B	25	25
D-4	170-220 (2)	9X9	9X9	3 WAY	A B	38	31
D-5	220-350 (2)	12X12 (10)	12"ø	4 WAY	A B	25	25
D-6	75-300 (2)	12X12 (10)	10"ø	3 WAY	A B	38	31

ENERGY RECOVERY VENTILATOR

MARK	CFM	ELECTRICAL FLA	ELECTRICAL MCA	ELECTRICAL VOLTS	ELECTRICAL HERTZ	ELECTRICAL PHASE	REMARKS
ERV 1	330	7.2	9.0	115	60	1	(1)
ERV 2	330	7.2	9.0	115	60	1	(1)
ERV 5	330	7.2	9.0	115	60	1	(1)
ERV 6	330	7.2	9.0	115	60	1	(1)

(1) RENEWAIRE MODEL EV450IN. ONE 0.6 HP FAN. 15 MAX. FUSE SIZE.



UNIT 2 THE EA AND FA SWITCH AS RA AND OA SWITCH – RE-LABEL THE UNIT TO MATCH ACTUAL CONNECTIONS. HANG UNIT UPSIDE DOWN.

PROVIDE BALANCING DAMPER IN BOTH DISCHARGE DUCTS, INSTALL DAMPER A MIN. OF 6 DUCT DIAMETERS FROM DISCHARGE OUTLET COLLAR. SEE DETAIL H/M502.

ERV-UNITS

EXHAUST FAN SCHEDULE (2)(3)

MARK	SERVES ROOM	MIN. (1) S.C.F.M.	STATIC PRESSURE IN. W.G.	MIN. WATTS	REMARKS
EF 1	WOMEN'S RESTROOM 103	225	0.3	170W	PROVIDE BACK-DRAFT DAMPER
EF 2	MEN'S RESTROOM 104	225	0.3	170W	PROVIDE BACK-DRAFT DAMPER
EF 3	CUSTODIAN 118	75	0.3	70W	PROVIDE BACK-DRAFT DAMPER

(1) SET BALANCE DAMPERS SHOWN ON M101 TO CFM LISTED (3) VOLTAGE IS 115/1 PHASE/60HZ (2) CONTROL BY DIVISION 26.

REGISTER,LOUVER & GRILLE SCHEDULE

MARK	TYPE	SERVICE	CFM RANGE (1)	NOMINAL SIZE	REMARKS (4)
R-1	CEILING (5)	RA	110-290	10X10	
R-2	CEILING (5)	RA	300-450	12X12	
R-3	LOW SIDEWALL (6)(7)	RA	90-210	14X10	SERVICED BY 14X5 UNLINED R.A. DUCT IN WALL
R-4	LOW SIDEWALL (6)	RA	1125	18X30	SERVICED BY 12X18 UNLINED R.A. DUCT IN CHASE
TG-1	CEILING (5)	TA	200-225	10X10	
TG-2	SIDEWALL (5)	TA	–	6X12	1" FLANGED WALL SERVICE MOUNTED
L-1	LOUVER (6)(8)(9)	EA	–	6 SQ. FT. MIN. 5/12 SLOPED TOP	SEE ARCH. BUILDING ELEVATIONS AND ASSOCIATED STRUC.
L-2	LOUVER (6)(8)(9)	OA	–	6 SQ. FT. MIN. 5/12 SLOPED TOP	SEE ARCH. BUILDING ELEVATIONS AND ASSOCIATED STRUC.

ELECTRIC WALL HEATER SCHEDULE

MARK	SERVES	KW OUTPUT	ELECTRICAL ø	ELECTRICAL HERTZ	ELECTRICAL VOLTS	ELECTRICAL AMPS	REMARKS
EH 1	FIRE RISER ROOM 105	2.2	1	60	240	10.8	QMARK QFG22218F W/O BUILT IN TSTAT. SURFACE MOUNTED.

REGISTER, LOUVER AND DIFFUSER SCHEDULE NOTES:

(1) MAXIMUM NC=25 @ MAXIMUM CFM NOTED.
(2) SHALL BE TITUS TDC TYPE 6 OR EQUAL BY OTHER APPROVED MANUFACTURERS. (SEE SPECIFICATIONS)
(3) SHALL BE TITUS TDC SURFACE MOUNT BORDER TYPE 1 OR EQUAL BY OTHER APPROVED MANUFACTURERS. (SEE SPECIFICATIONS)
(4) SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS.
(5) FINISH SHALL BE OFF-WHITE BAKED ENAMEL.
(6) BAKED ENAMEL FINISH WITH COLOR AS DIRECTED BY ARCHITECT.
(7) RETURN AIR GRILLE TO BE MOUNTED 8" FROM FLOOR TO BOTTOM EDGE OF GRILLES. BLADES SHALL BE HORIZONTAL
(8) PROVIDE ALUMINUM BIRD SCREENS.
(9) MAX. ACCEPTABLE FACE VELOCITY THROUGH NET FREE AREA: 400 FT/MIN.
(10) OVERSIZED FOR PRESSURE RELIEF.

NOTES:

1- THE MECHANICAL CONTRACTOR SHALL VERIFY MOTOR VOLTAGES WITH THE ELECTRICAL DRAWINGS BEFORE ORDERING MOTORIZED EQUIPMENT AND CONTROLS. MOTOR NAME PLATE VOLTAGE SHALL BE NEMA STANDARD 200 VOLT FOR 208 VOLT THREE PHASE SYSTEM AND SHALL BE NEMA STANDARD 230 VOLT FOR 240 VOLT THREE PHASE OR SINGLE PHASE SYSTEM. STARTER HEATERS INSTALLED SHALL BE COORDINATED WITH THE NAME PLATE DATA.

2- S.C.F.M. LISTED IS STANDARD AIR.

ORIGINAL DRAWING SIGNED BY: DWAYNE C. SUDWEEKS
DATE ORIGINAL SIGNED: Nov 29, 2017
ORIGINAL ON FILE AT ENGINEERED SYSTEMS ASSOCIATES
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New Building for:
Thunder Ridge Sr. Seminary
S&I
Project Address

Project for:
THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

Mark	Date (mm/y)	Description

Project Number: 16059
Plan Series: SEM07-04-10
Property Number: ***

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