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EXHAUST FANS SCHEDULE

DESIGN SYMBOL	FAN TYPE	SERVES	MIN CFM	MAX CFM	ESP INCHES	FAN RPM	MOTOR BHP	MOTOR HP	MOTOR RPM	MOTOR DRIVE TYPE	MOTOR SPEED CONTROLLER	MOTOR VOLTS/PHASE /HZ	MOUNTING	INLET SONES	DAMPER TYPE	OPER. WEIGHT LBS	INTER-LOCK / CONTROL WITH	REMARKS NOTES	DESIGN BASIS MODEL# GREENHECK
EF-200	INLINE	GAS STORAGE	50	50	0.25	1725	0.04	1/4	1725	BELT	NONE	115/1/60	INLINE	6.1	BACKDRAFT	80		1,2,3,4,5,6,7	BSQ-70

NOTES:
1 PROVIDE FLEX CONNECTORS AT FAN DUCT CONNECTION(S).
2 DISCONNECT SWITH BY ELECTRICAL.
3 FAN SHALL RUN CONTINUOUSLY AND BE SUPERVISED.
4 PROVIDE MOTOR GUARD.
5 PROVIDE APPROVED WALL SWITCH OUTSIDE THE ROOM.
6 PROVIDE CLASS 1 FAN.
7 PROVIDE SPARK RESISTANT CONSTRUCTION.

UPDATED: 1/25/2019 14:07

BRANCH SELECTOR UNITS SCHEDULE

SYMBOL	CONNECTIONS	SIZE WIDTH IN	SIZE DEPTH IN	SIZE HEIGHT IN	ELECTRIC POWER VOLT/PHASE/HZ	EMERGENCY POWER	UNIT MCA	UNIT WEIGHT LBS	INTERLOCK CONTROL WITH	REMARKS NOTES	DESIGN BASIS DAIKIN
BS-200	7	23	19	12	208/1/60	NO	0.6	75	VRF-200		BS-Q54TVJ

NOTES:
1 PROVIDE CONDENSATE DRAIN AND ROUTE TO DISCHARGE PER MANUFACTURER'S REQUIREMETNS AND TO MEET CODE.
2
3
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UPDATED: 2/8/2019

ELECTRIC DUCT HEATING COILS SCHEDULE

MARK NUMBER	EDH-210	EDH-211	EDH-223	EDH-225	EDH-227	EDH--236
SPACE SERVED	ZONE - 110	ZONE - 011	ZONE - 023	ZONE - 025	ZONE - 029	ZONE - 036
DUCT HEATER TYPE	OPEN COIL	OPEN COIL	OPEN COIL	OPEN COIL	OPEN COIL	OPEN COIL
TEMPERATURE CONTROL	SCR	SCR	SCR	SCR	SCR	SCR
AIRFLOW CFM	310	590	630	550	680	720
ENTERING AIR TEMPERATURE F	70	70	70	70	70	70
LEAVING AIR TEMPERATURE F	86.9	98.0	94.4	99.4	99.5	85.3
REQUIRE HEAT (BTUH)	6287	19817	18456	19382	24080	13200
REQUIRED ELECTRICAL LOAD (KW)	2.0	6.0	6.0	6.0	8.0	4.0
DUCT HEATER KW	2.0	6.0	6.0	6.0	8.0	4.0
HEATER AMPS(3 PH=WATTS/VOLTS/1.73)	5.56	16.68	16.68	16.68	22.24	11.12
HEATER AMPS(1 PH=WATTS/VOLTS)	9.6	28.9	28.9	28.9	38.5	19.2
HEATER DUCT WIDTH (IN)	10	14	14	14	14	16
HEATER DUCT HEIGHT (IN)	8	10	12	10	12	12
AIRFLOW VELOCITY (FPM)	558	607	540	566	583	540
HEATER KW / SQ FT	3.6	6.2	5.1	6.2	6.9	3.0
HEATER MAX PRESSURE DROP (IN WG)	0.05	0.05	0.05	0.05	0.05	0.05
ELECTRICAL (VOLTS/PH)	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60
CONTROL FAN INTELOCK	FCU-210	FCU-211	FCU-223	FCU-225	FCU-227	FCU-236
CONTROLLED BY	FAN-COIL UNIT	FAN-COIL UNIT	FAN-COIL UNIT	FAN-COIL UNIT	FAN-COIL UNIT	FAN-COIL UNIT
UNIT WEIGHT (POUNDS)	21	21	21	21	21	21
BASIS OF DESIGN						
REMARKS, SEE NOTES:	1,2,3,4,5,6	1,2,3,4,5,6	1,2,3,4,5,6	1,2,3,4,5,6	1,2,3,4,5,6	1,2,3,4,5,6

NOTES:
1. CONTROL FROM SPACE THERMOSTAT.
2. INTERLOCK WITH FAN-COIL UNIT AND PROVIDE FLOW SWITCH TO PREVENT OPERATION WHEN FAN IS OFF.
3. PROVIDE BUILT-IN DISC TYPE OVER TEMPERATURE PROTECTION.
4. PROVIDE PRIMARY AND SECONDARY TEMPERATURE PROTECTION.
5. INSTALL 4 FT DOWNSTREAM OF ELBOWS, DUCT TURNS, DUCT TRANSITIONS, FAN OUTLET OR FILTERS AND 2 FEET UPSTREAM OF ELBOWS OR DUCT TURNS OR FILTER FRAMES.

UPDATED:

WALL EXHAUST/RELIEF LOUVER SCHEDULE

DESIGN SYMBOL	LOCATION	TYPE	AIRFLOW DIRECTION	MAX AIRFLOW CFM	MAX PRESSURE DROP IN	BACKDRAFT DAMPER	SIZE WIDTH IN	SIZE HEIGHT IN	SIZE PERCENT FREE AREA	FREE AREA SF	DESIGN VELOCITY FPM	NUMBER OF SECTIONS	ELECTRICAL NUMBER OF ACTUATORS	ELECTRICAL EMERGENCY POWER	ELECTRICAL ACTUATOR VOLTS/PHASE /HERTS	INTERLOCK WITH UNIT	REMARKS NOTES	DESIGN BASIS
LVE-200	WALL	STATIONARY	EXHAUST	8800	0.07	YES	96	36	53%	12.57	700	1		NO		VRF-200	1,2,3,4	GREENHECK ESD-403

NOTES:
1 INSTALL LOUVER WITH BLADES RUNNING HORIZONTALLY.
2 PROVIDE INSECT SCREEN AT LOUVER.
3 COORDINATE LOUVER FINISH WITH ARCHITECTURAL REQUIREMENTS.
4

UPDATED: 2/8/2019

RELIEF / EXHAUST AIR ROOF HOODS SCHEDULE

DESIGN SYMBOL	APPLICATION	SYSTEM SERVED	LOCATION	AIRFLOW DIRECTION	MAX AIRFLOW CFM	MAX PRESSURE DROP IN	SIZE THROAT SIZE WIDTH/DIA IN	SIZE THROAT SIZE DEPTH IN	SIZE THROAT AREA SF	SIZE DESIGN VELOCITY FPM	SIZE OVERALL DIA/ L x W x H IN	ELECTRICAL DAMPER TYPE	ELECTRICAL EMERGENCY POWER	ELECTRICAL VOLTS/PHASE /HERTS	OPER WEIGHT LBS	REMARKS NOTES	DESIGN BASIS
RHE-200	EXHAUST	GAS STORAGE	ROOF	EXHAUST	50	0.05	8		0.35	143	20-1/2"	NA	NO	-	50	1,2,3	GREENHECK GRSR

NOTES:
1 PROVIDE 30 INCH ROOF CURB.
2 INSULATE DUCTWORK BETWEEN THE EXTERIOR RELIEF HOOD AND DAMPER LOCATION.
3 PROVIDE INSECT SCREEN SCREEN.
4

UPDATED: 1/25/2019 18:47

VARIABLE REFRIGERANT FLOW HEAT RECOVERY CONDENSING UNITS SCHEDULE

DESIGN SYMBOL	LOCATION	COMPRESSOR TYPE NO	COMPRESSOR CAPACITY CONTROL RANGE %	COMPRESSOR AMPS RATED LOAD	COMPRESSOR AMPS START METHOD	R410A CHARGE LBS	DX COOLING CAPACITY MBH TOTAL	DX COOLING CAPACITY MBH SENS	DX COOLING EVAP EAT F [4] DB	DX COOLING EVAP EAT F [4] WB	DX COOLING EVAP LAT F DB	DX COOLING EVAP LAT F WB	DX COOLING AMBIENT TEMP DB/WB F	DX COOLING MIN DUCTED EER/IEER/SCHE	HEAT PUMP HEATING REQ'D HEAT MBH	HEAT PUMP HEATING INDOOR TEMP F	HEAT PUMP HEATING AMBIENT TEMP DB/WB	HEAT PUMP HEATING MIN COP 47 / 17	ELECTRICAL POWER VOLT PHASE/HZ	ELECTRICAL UNIT MOP AMPS	ELECTRICAL UNIT MCA AMPS	ELECTRICAL EMERG POWER	UNIT WGH LBS	INTERLOCK	PIPE RUN EQUIV-LENGTH FT	PIPE RUN RISE FT	REMARKS NOTES	DESIGN BASIS DAIKIN AURORA VRV
VRF-200	ROOF	INVERTER	5-100	17.8		25.8	83.9	82.1	75.3	59.6	56.5	52.4	96.2/64.7	12.4/19.6/21.4	97.6	70.0	-10 / -12	3.51 / 2.25	208/3/60	90	83.4	NO	880		450	15	1,2,3,4,5	RELQ120TAYDU

NOTES:
1 PROVIDE DISCONNECT SWITCH.
2 PROVIDE REFRIGERANT PIPING AND DEVICES PER MANUFACTURER'S RECOMMENDATIONS.
3 PROVIDE THERMAL OVERLOAD MOTOR PROTECTION.
4 PROVIDE ANTI-SHORT CYCLE TIMER.
5 PIPE RUN IS EQUIVALENT LENGTH TO FAN COIL UNIT AND ELEVATION RISE FROM FAN-COIL TO CONDENSER.
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7
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UPDATED: 2/6/2019

VRF FAN COIL UNITS SCHEDULE

DESIGN SYMBOL	FAN COIL TYPE	SERVES	OA MIN CFM	OA MAX CFM	SUPPLY FAN SA CFM	SUPPLY FAN ESP IN [5]	BHP	HP	DX COOLING COIL - R410A CAPACITY MBH [2] TOTAL	CAPACITY MBH [2] SENS	EAT F DB	EAT F WB	LAT F DB	LAT F WB	COIL VEL < FPM	COILS/ ROWS #/#	SEER	HEAT PUMP HEATING CAP MBH[9]	EAT F	LAT F DB	HEATING STAGES	COP	MIN HSPF	ZONE T'STAT CLG/HTG	SOUND Dba	UNIT SMOKE DETECT	ELECTRICAL POWER V/PH/HZ	ELECTRICAL FUSE AMPS	ELECTRICAL MCA AMPS	UNIT WEIGHT LBS	INTERLOCK / CONTROL WITH [7]	REMARKS NOTES	DESIGN BASIS DAIKIN VRF SYSTEM FXM—PBJU
FCU-210	DUCTED-CEILING	ENTRY	10	10	310	0.42			7.0	7.0	75.3	59.6	56.5	52.3			[11]	7.2	70	89		[10]	[10]	75/70	39-33	NO	208/1/60	15	0.6	56	EDH	1,2,3,4,5,6,7,8,9,10,11	FXMQ9PBVJU
FCU-211	DUCTED-CEILING	HALL	20	20	590	0.45			12.8	12.8	75.3	59.6	56.5	52.4			[11]	19.8	70	102		[10]	[10]	75/70	38-42	NO	208/1/60	15	1.6	80	EDH	1,2,3,4,5,6,7,8,9,10,11	FXMQ18PBVJU
FCU-223	DUCTED-CEILING	EXAM	90	90	630	0.50			14.8	14.8	75.3	59.3	56.5	51.7			[11]	21.2	70	98		[10]	[10]	75/70	38-42	NO	208/1/60	15	1.8	80	EDH	1,2,3,4,5,6,7,8,9,10,11	FXMQ24PBVJU
FCU-225	DUCTED-CEILING	DENTAL	70	70	550	0.51			13.3	13.3	75.3	59.4	56.5	51.6			[11]	18.9	70	99		[10]	[10]	75/70	38-42	NO	208/1/60	15	1.8	80	EDH	1,2,3,4,5,6,7,8,9,10,11	FXMQ24PBVJU
FCU-227	DUCTED-CEILING	OFFICE	170	170	680	0.49			17.6	16.5	75.3	60.0	56.5	52.4			[11]	24.9	70	101		[10]	[10]	75/70	38-42	NO	208/1/60	15	1.8	80	EDH	1,2,3,4,5,6,7,8,9,10,11	FXMQ24PBVJU
FCU-236	DUCTED-CEILING	BEHAVORIAL	220	220	720	0.55			18.0	16.0	75.3	58.0	56.5	50.2			[11]	15.2	70	88		[10]	[10]	75/70	38-42	NO	208/1/60	15	1.8	80	EDH	1,2,3,4,5,6,7,8,9,10,11	FXMQ24PBVJU

NOTES:
1 EQUIPMENT SHALL MEET EFFICIENCY AS REQUIRED BY THE ENERGY CODE.
2 EQUIPMENT LOAD INCLUDES ELEVATION DERATION.
3 PROVIDE CONDENSATE DRAIN PAN WITH WATER LEVEL DETECTOR PER UL 508.
4 PROVIDE CONDENSATE PUMP: 18 IN LIFT.
5 PROVIDE MERV8 PLEADED FILTER.
6 PROVIDE DUCTED CONCEALEAD UNIT.
7 FAN-COIL UNIT SHALL OPERATE TO PROVIDE HEAITING WHEN VRF CONDENSING UNIT IS OFF TO PROVIDE AIRFLOW TO DUCT HEATING COIL.
8 NOT USED.
9 HEATING CAPACITY PROVIDED BY EQUIPMENT HEAT PUMP OPERATION.
10 SEE CONDENSING UNIT SCHEDULE FOR COP, HSPF VALUE
11 SEE CONDENSING UNIT SCHEDULE FOR SEER VALUE

UPDATED: 1/11/2019 15:49

ELECTRIC BASEBOARD HEATERS

SYMBOL	ROOM SERVED	HEAT LOSS BTUH	REQUIRED HEAT KW	LENGTH FT	ELECTRICAL WATT/ FT	ELECTRICAL AMPS	ELECTRICAL POWER CONNECTION VOLT/PHASE/HZ	NUMBER OF ELEMENTS	UNIT WIDTH X HEIGHT X	REMARKS	DESIGN BASIS/ REMARKS Q'MARK
FT-211	011	5,120	1.5	10	150	7.2	208/1/60	1	3-5/8 IN X 6 IN	1	DBA
FT-210	10	3,850	1.1	6	188	7.5	208/1/60	1	3-5/8 IN X 6 IN	1	DBA

NOTES:
1 PROVIDE WALL THERMOSTAT.

ELECTRIC CEILING RADIANT PANEL

SYMBOL	ROOM SERVED	HEAT LOSS BTUH	MOUNTING	PROVIDED HEAT KW	ELECTRICAL AMPS	ELECTRICAL POWER CONNECTION VOLT/PHASE/HZ	OPERATING WEIGHT LBS	PANEL SIZE W X L FT	CEILING TYPE	NOTES	DESIGN BASIS/ REMARKS MARKEL
ERP-105		1,707	SURFACE	0.50	4.2	115/1/60	30	2X4	T-BAR		CP125

NOTES:
1
2

UPDATED: 1/10/2019

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REGISTERED PROFESSIONAL ENGINEER 52786 OREGON JAN. 15, 2020 MARIANA GALOFTEANU
EXPIRES 6/30/19

Wallowa MOB Addition

Wallowa County Healthcare District

603 Medical Pkwy, Enterprise, OR 97828

ISSUE DATE: 02.12.2019

REVISIONS:
1 MISC REV. 02.11.2019

Bid / Permit Set

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