

PACKAGED HEATING & AIR CONDITIONING UNIT SCHEDULE																	FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR						
SYMBOL	SERVES	NOMINAL TONS	CFM	ESP (1)	HP	ELECTRICAL			HEATING				COOLING (2)			EFFICIENCY (4)		MANUFACTURER & MODEL	UNIT WEIGHT (LBS)	REMARKS			
						V/HZ/PH	MCA	MOCP	TYPE	STAGES	HP TOTAL (MBH)	HP INTEGRATED (MBH)	ELEC. (KW)	EAT	NET TOTAL (MBH)	NET SENSIBLE (MBH)	EA				WB	EER	COP
RTU 1	GYMNASIUM	12.5	5,000	0.50"	5	208/60/3	133	150	ELEC.	2	49.8	45.8	20	78°F	64°F	129.47	121.51	100	10.6	3.2	CARRIER; HEAT PUMP 50TCQD14A2A5-0A0G0	1,600	(5)(6)(7)
RTU 2	GYMNASIUM	12.5	5,000	0.50"	5	208/60/3	133	150	ELEC.	2	49.8	45.8	20	78°F	64°F	129.47	121.51	100	10.6	3.2	CARRIER; HEAT PUMP 50TCQD14A2A5-0A0G0	1,600	(5)(6)(7)

- WITH FILTER IN PLACE (MAXIMUM ALLOWABLE DIRTY FILTER STATIC PRESSURE LOSS = 0.35").
- COOLING CAPACITY BASED ON 78°DB/64°WB ENT. AIR AND 90°F DB AMBIENT.
- OUTDOOR AIR CFM LISTED MEETS ALL MINIMUM REQUIREMENTS AS SPECIFIED BY ASHRAE 62.1. XXX/XXX = MIN OUTDOOR AIR AT MINIMUM OCCUPANCY/MIN OUTDOOR AIR AT MAXIMUM OCCUPANCY.
- NOT USED.
- EER, SEER AND I.P.L.V. OF EQUIPMENT SHALL MEET THE IDAHO STATE ENERGY CODE.
- AC UNIT SHALL BE SHIPPED WITH FACTORY WIRED CONVENIENCE OUTLET POWERED PRIOR TO DISCONNECT.
- PACKAGED UNIT SHALL BE FURNISHED AND INSTALLED WITH:
 - ECONOMIZER AND RELIEF AIR SYSTEM CAPABLE OF 100% FULLY-MODULATION OUTSIDE AIR AND MINIMUM 90% RELIEF AIR.
 - INTEGRATED OPERATION FOR PARTIAL COOLING
 - MOTORIZED DAMPERS HAVING A MAXIMUM LEAKAGE RATE OF 20 CFM/S.F. AT PRESSURE OF 1.0" W.G. WHEN TESTED IN ACCORDANCE WITH AMCA STANDARD 500-1998 (PER IDAHO STATE ENERGY CODE REQUIREMENTS).
 - PROVIDE WITH CO2 SENSOR, DEMAND CONTROL VENTILATION SEQUENCING AND POWERED EXHAUST. BALANCE TO MAXIMUM AND MINIMUM AIRFLOWS SHOWN.
 - FACTORY-INSTALLED NON-FUSED DISCONNECT
 - FACTORY-INSTALLED POWERED CONVENIENCE OUTLET
 - FILTER RACK AND 2" THROWAWAY FILTERS
 - HAIL GUARDS
 - FACTORY INSTALLED SMOKE DETECTOR
 - FACTORY 24" CURB
 - POWERED EXHAUST
 - *OPTIONAL* HINGED ACCESS PANELS
 - *CENTRALY-CONTROLLED* OR *DRY BULB* ECONOMIZER SECTION CAPABLE OF 0-100% MODULATION WITH 100% RELIEF
 - MOTORIZED OUTSIDE AIR DAMPER CAPABLE OF CLOSING DURING UNOCCUPIED MODE
 - *OPTIONAL* SEVEN-DAY PROGRAMMABLE THERMOSTAT

ERV-1/FC-1 SEQUENCE OF CONTROL.

ERV-1 SHALL ACTIVATE IF ANY RESTROOM AND/OR SHOWER IS OCCUPIED (AS DETERMINED BY OCCUPANCY SENSORS - SEE ELECTRICAL) AND ERV-1 SHALL REMAIN ACTIVATED FOR 30 MINUTES AFTER NO OCCUPANT IS DETECTED.

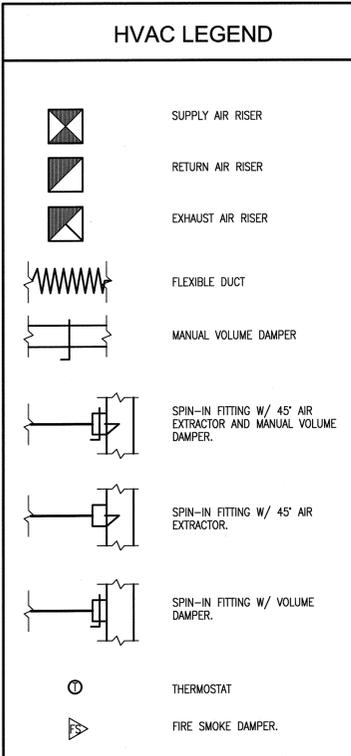
ERV-1 AND FC-1 SHALL BE INTERLOCKED SUCH THAT:
 IF FC-1 IS ACTIVATED (BY T-STAT), ERV-1 SHALL BE ACTIVATED; AND
 IF ERV-1 IS ACTIVATED, THE FAN OF FC-1 SHALL BE ACTIVATED.

ERV SCHEDULE											FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR	
SYMBOL	LOCATION	TYPE	CFM	ESP	MOTOR HP/W	ELECTRICAL		RPM	SONES	MANUFACTURER & MODEL	REMARKS	
						V/HZ/PH	FLA					
ERV 1	MEZZANINE	DIRECT DRIVE CENTRIFUGAL	900	0.50"	1 HP	208/60/3	-	3,450	-	VTS; MODEL AVS12E-R-PPDV	(1)(2)	

- PROVIDE UNIT WITH ALL CONTROLS, SENSORS, DAMPERS, ACTUATORS, ETC. NECESSARY FOR NORMAL OPERATION, INCLUDING, BUT NOT LIMITED TO: DEFROST CYCLE CONTROL, MOTOR OPERATION, AND DAMPER CONTROL.
- PROVIDE UNIT WITH ALL CONTROLS NECESSARY TO INTERFACE WITH FC-1 AS DESCRIBED IN ERV-1/FC-1 SEQUENCE OF CONTROL.

FAN COIL SCHEDULE														FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR			
SYMBOL	CORRESPONDING EQUIPMENT	SERVES	ORIENTATION	CFM	ESP (1)	HP	COOLING (2)			HEATING (3)		ELECTRICAL			O.D.A. CFM (4)	MANUFACTURER & MODEL	REMARKS
							EAT	SENSIBLE CAPACITY	TOTAL CAPACITY	HEAT PUMP CAPACITY	SUPP. HEAT	V/HZ/PH	MCA	MOCP			
FC 1	CU 1	RESTROOMS	VERTICAL UPFLOW	1,600	0.50"	1/2	78°F DB 64°F WB	43.69 MBH	45.36 MBH	20 MBH	-	208/60/1	5.4	15	900	CARRIER; 25HCE448A005 WITH IN DOOR COIL/AIR HANDLER FV4CNB005L00	(5)(6)
FC 2	CU 2	CONFERENCE / STORAGE	VERTICAL UPFLOW	1,000	0.50"	1/2	78°F DB 64°F WB	25.98 MBH	27.22 MBH	12.65 MBH	5 KW	208/60/1	8.5	15	50/300	CARRIER; 25HCE430A003 WITH IN DOOR COIL/AIR HANDLER FV4CNF003L00	(5)(7)(8)
FC 3	CU 3	ASSEMBLY / KITCHEN	VERTICAL UPFLOW	1,995	0.50"	3/4	78°F DB 64°F WB	53.15 MBH	53.15 MBH	26 MBH	8 KW	208/60/1	8.5	15	80/700	CARRIER; 25HCE460A005 WITH IN DOOR COIL/AIR HANDLER FV4CNB006L00	(5)(7)(8)

- EXTERNAL STATIC PRESSURE IN INCHES W.C., INCLUDES 0.25" DIRTY FILTER AND WET EVAPORATOR COIL LOSSES
- COOLING CAPACITY BASED ON COMBINATION WITH ASSOCIATED CONDENSING UNIT, LISTED IN CONDENSING UNIT SCHEDULE. COOLING CAPACITY AND ENTERING AIR CONDITIONS BASED ON AMBIENT TEMPERATURE AND ELEVATION LISTED IN BASIS OF DESIGN SCHEDULE, 78°F DB/64°F WB RETURN AIR TEMPERATURE AND 45°F SUCTION TEMP.
- HEAT PUMP CAPACITY BASED ON COMBINATION WITH ASSOCIATED CONDENSING UNIT, LISTED IN CONDENSING UNIT SCHEDULE. HEATING CAPACITY BASED ON AHRJ STANDARD CONDITIONS.
- OUTDOOR AIR (ODA) CFM LISTED IS MINIMUM AS SPECIFIED BY ASHRAE 62.1. XXX/XXX = MIN OUTDOOR AIR AT MINIMUM OCCUPANCY/MIN OUTDOOR AIR AT MAXIMUM OCCUPANCY.
- PROVIDE WITH:
 - FACTORY FILTER RACK WITH 1"-THICK FILTER MEDIA
 - CONDENSATE OVERFLOW SAFETY SWITCH
 - SEVEN-DAY PROGRAMMABLE THERMOSTAT
- INTERFACE ERV CONTROLS WITH FC/CU-1 FAN AND CONTROLS PER ERV-1/FC-1 SEQUENCE OF CONTROLS. HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR CONDUIT AND WIRE FOR CONTROLS.
- PROVIDE WITH CO2 SENSOR, DEMAND CONTROL VENTILATION SEQUENCING. BALANCE TO MAXIMUM AND MINIMUM AIRFLOWS SHOWN.
- PROVIDE MICROMETAL (OR EQUAL) OUTDOOR AIR MIXING BOX WITH CONTROLLER FOR CONNECTION TO CO2 SENSOR IN ORDER TO REGULATE OUTDOOR AIR TO SPACE (DEMAND CONTROL VENTILATION).



GRILLE, REGISTER AND DIFFUSER SCHEDULE		
SYMBOL	DESCRIPTION	MANUFACTURER & MODEL
CD	LOUVERED CEILING DIFFUSER, 4-WAY AIRFLOW, ROUND NECK, SURFACE MOUNT	TITUS MODEL TDC W/ TYPE 1 BORDER FOR SURFACE MOUNT, DISCHARGE PATTERN A4 FOR 4-WAY THROW. NECK SIZE SAME AS DUCT RUNOUT SIZE. WITH FACE-OPERABLE OPPOSED BLADE DAMPER, MODEL AG-95. FACTORY WHITE FINISH.
RG	RETURN AIR GRILLE	TITUS MODEL 50R W/ TYPE 1 BORDER FOR SURFACE MOUNT. NECK SIZE AS SHOWN ON PLANS. FACTORY WHITE FINISH.
EG	EXHAUST GRILLE	TITUS MODEL 50F W/ TYPE 1 BORDER FOR SURFACE MOUNT. NECK SIZE AS SHOWN ON PLANS. FACTORY WHITE FINISH.
LTG	LAY-IN TRANSFER GRILLE	TITUS MODEL 50R W/ 24"x24" OR 24"x12" TYPE 3 BORDER FOR LAY-IN CEILING, AS SHOWN ON PLANS. FACTORY WHITE FINISH.
SRR	SIDEWALL RETURN AIR REGISTER	TITUS MODEL 355ZRS W/ TYPE 1 BORDER FOR SURFACE MOUNT. 1/2" BLADE SPACING AT 0° DEFLECTION. SIZE AS SHOWN ON PLANS. FACTORY WHITE FINISH.

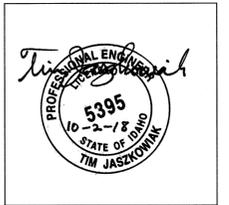
CONDENSING UNIT SCHEDULE										FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR	
SYMBOL	CORRESPONDING EQUIPMENT	TYPE	NOMINAL TONS	ELECTRICAL			EFFICIENCY (1)		MANUFACTURER & MODEL	REMARKS	
				V/HZ/PH	MCA	MOCP	SEER	HSPF			
CU 1	FC 1	HEAT PUMP, AIR-COOLED	4	208/60/3	14.5	25	14.5	8.5	CARRIER; 25HCE448A005	(2)(3)(4)	
CU 2	FC 2	HEAT PUMP, AIR-COOLED	2.5	208/60/1	18.3	30	14.5	8.2	CARRIER; 25HCE430A003	(2)(3)(4)	
CU 3	FC 3	HEAT PUMP, AIR-COOLED	4	208/60/3	14.5	25	14	8.2	CARRIER; 25HCE460A005	(2)(3)(4)	

- EFFICIENCY VALUES LISTED ARE BASED ON ARI CONDITIONS.
- R-410A REFRIGERANT ONLY. PIPING SIZED & INSTALLED PER MANUFACTURER'S REQUIREMENTS.
- PROVIDE UNIT WITH HIGH PRESSURE SWITCH, LOW PRESSURE SWITCH, CRANKCASE HEATER, TIME-DELAY RELAY, AND CYCLE PROTECTOR.
- PROVIDE CONDENSING UNITS WITH HAIL GUARDS.

NEW ELECTRIC HEATER SCHEDULE						
SYMBOL	TYPE	WATTS	CFM	ELECTRICAL		REMARKS
				V/HZ/PH	AMPS	
EH 1	WALL	750	65	120/60/1	6.3	QMARK; CWH1151DSF
EH 2	CEILING	2,000	300	208/60/1	9.6	QMARK; CDF-547
EH 3	CEILING	2,000	300	208/60/1	9.6	QMARK; CDF-547
EH 4	WALL	4,000	100	240/60/1	19.2	QMARK; AWH4408F
EH 5	WALL	4,000	100	240/60/1	19.2	QMARK; AWH4408F

- FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR
- PROVIDE WITH MOUNTING KIT, THERMOSTAT, AND DISCONNECT.

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99U05

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Revisions	
▲	ERV CONTROLS 10/02/18
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 HVAC SCHEDULES