

**AIR HANDLING UNIT SCHEDULE**

UNIT NUMBER	LOCATION	SERIES	DESIGN BASIS	MIN O/A (CFM)	FAN TYPE	WHEEL SIZE-TYPE (CFM)	FLOW TOTAL (CFM)	RPM	BHP	MAX (DBA)	MOTOR HP	PH	COIL NUMBER	COIL TYPE	INITIAL EFFICIENCY	FINAL EFFICIENCY	REMARKS					
AHU-1	LOFT	BUILDING	MOULAY CAH-014	1925	BLOW THRU	18-19-AF	7000	4.0"	2250	8.4	90	10	240	3	CC-1	HC-1	RF-1	30%	FLAT	N/A	N/A	MULTI ZONE UNIT

NOTES:  
 1. AIR FLOWS ARE NOMINAL AND INCLUDE A FACTOR FOR LEAKAGE. DETERMINE ACTUAL AIR FLOWS BASED ON BALANCING. SIZE COMPONENTS BASED ON NOMINAL FLOWS.  
 2. SUPPLY FAN MUST BE SIZED FOR NO MORE THAN 10% FROM INDICATED TOTAL S.P. USE HIGHER S.P. IF ACTUAL COMPONENTS RESULT IN HIGHER THAN PREDICTED VALUE FOR ANY COMPONENT.  
 3. RPM AND BHP MAY VARY BY NO MORE THAN 10% FROM INDICATED TOTAL S.P. USE HIGHER S.P. IF ACTUAL COMPONENTS RESULT IN HIGHER THAN PREDICTED VALUE FOR ANY COMPONENT.  
 4. REFER TO AHU CONFIGURATION SCHEMATIC (H-48B) FOR ARRANGEMENT OF COMPONENTS.

**FAN SCHEDULE**

UNIT NUMBER	MANUFACTURER & MODEL	TYPE UNIT	AIR CFM	BTHU	ENT. TEMP. F	WATER GPM	P.D. (FT)	HP	MOTOR	NOTES
UH-1	MOORE-HS-18	HORIZ	340	10,970	60	180	1.5	0.5	16 MPH	PROVIDE LINE VOLTAGE THERMOSTAT & ADJUST TO E.C. FOR WIRING
UH-2	MOORE-HS-33	HORIZ	630	20,100	60	180	2.5	0.2	1/25HP	PROVIDE LINE VOLTAGE THERMOSTAT & ADJUST TO E.C. FOR WIRING

NOTE #1 - BASED ON WEL-MALAN (B-WO-2). FURNISH W/ LMO 30 PSI RELIEF VALVE. HIGH LIMIT PACKAGE BOILER WITH BURNER (B-100) AND CONTROLS. FURNISH FLEXIBLE S.S. OIL CONNECTION TO BURNERS. ELECTRICAL JUNCTION BOX WITH WIRING HARNESS. SEE SPECS.  
 NOTE #2 - BASED ON WEL-MALAN (B-WO-2). FURNISH W/ LMO 30 PSI RELIEF VALVE. HIGH LIMIT PACKAGE BOILER WITH BURNER (B-100) AND CONTROLS. FURNISH FLEXIBLE S.S. OIL CONNECTION TO BURNERS. ELECTRICAL JUNCTION BOX WITH WIRING HARNESS. SEE SPECS.

**HOT WATER BOILER SCHEDULE**

UNIT NUMBER	GROSS OUTPUT (BHP)	FUEL	FIRING RATE (GPH)	DRAFT TYPE	ASME PRESSURE RATING	LEAVING WATER TEMP.	REMARKS
B-1	257	#2 FUEL	2.55	FORCED	50	180	NOTE 1, 1/7HP, 120V-1PH, 2.4 AMPS
B-2	257	#2 FUEL	2.55	FORCED	50	180	NOTE 1, 1/7HP, 120V-1PH, 2.4 AMPS
B-3	75	#2 FUEL	0.70	FORCED	50	180	NOTE 2, 1/7HP, 120V-1PH, 2.4 AMPS

**DIFFUSER, REGISTER, AND GRILLE SCHEDULE**

PLAN SYMBOL	DESCRIPTION	DESIGN BASIS	FINISH	MECK SIZE	CFM RANGE	ACCESSORIES	REMARKS
SD-1	EXPOSED ROUND DIFFUSER	METAL AIRE SERIES 3000, MODEL A-1-1	POLISHED ALUM	8"	140	0BD	SEE DIFFUSER CONNECTION DETAIL
SD-2	SURFACE MOUNTED SPOT DIFFUSER	SEHO INTERNATIONAL PK SERIES	POLISHED ALUM	16"	520	-	SEE MOUNTING DETAIL
SD-3	EXPOSED SPOT DIFFUSER	SEHO INTERNATIONAL PK SERIES	POLISHED ALUM	12"	240-250	-	SEE MOUNTING DETAIL
SD-4	SURFACE ROUND DIFFUSER	METAL AIRE SERIES 3000, MODEL A-1-1	POLISHED ALUM	6"	140	0BD	SEE DIFFUSER CONNECTION DETAIL
SD-5	SURFACE MOUNTED SPOT DIFFUSER	SEHO INTERNATIONAL PK SERIES	POLISHED ALUM	18"	780	0BD	SEE DIFFUSER CONNECTION DETAIL
SR-1	SURFACE S/A REGISTER DOUBLE DEF. TYPE	METAL AIRE MODEL VA0040	POLISHED ALUM	12x6	80-170	0BD (EXTRUDED ALUMINUM)	SEE EXPOSED REGISTER DUCT TAKE-OFF DETAIL
SR-2	SURFACE S/A REGISTER DOUBLE DEF. TYPE	METAL AIRE MODEL HA0040	POLISHED ALUM	24x6	350	0BD (EXTRUDED ALUMINUM)	SEE ARCH. PLANS FOR BENCH MOUNTING POSITION FRONT BLADES FOR UPWARD THROW
TR-1	EXPOSED SPOT DIFFUSER (USED AS TRANSFER)	SEHO INTERNATIONAL PK SERIES	POLISHED ALUM	16"	355-435	-	CONNECT TO WALL IN ACCORDANCE W/MANUFACTURER'S INSTRUCTIONS
ER-1	EXPOSED SPOT DIFFUSER (E/A)	SEHO INTERNATIONAL PK SERIES	POLISHED ALUM	12"	280-285	-	SEE MOUNTING DETAIL
ER-2	EXPOSED SPOT DIFFUSER (E/A)	SEHO INTERNATIONAL PK SERIES	POLISHED ALUM	10"	200	-	SEE MOUNTING DETAIL
ER-3	EXPOSED SPOT DIFFUSER (E/A)	SEHO INTERNATIONAL PK SERIES	POLISHED ALUM	8"	100	-	SEE MOUNTING DETAIL
ER-4	EXPOSED SPOT DIFFUSER (E/A)	SEHO INTERNATIONAL PK SERIES	POLISHED ALUM	10"	140	-	SEE MOUNTING DETAIL
RR-1	EXPOSED SPOT DIFFUSER (R/A)	SEHO INTERNATIONAL PK SERIES	POLISHED ALUM	20"	1025	-	SEE MOUNTING DETAIL

NOTE: INSTALL ALL FANS WITH SPRING VIBRATION ISOLATORS AND FLEX DUCT CONNECTIONS.

**EQUIPMENT SCHEDULE**

PLAN SYMBOL	DESCRIPTION	DESIGN BASIS	CHARACTERISTICS	ELECTRIC	NOTES
CU-1	AIR COOLED CONDENSING UNITS	MOULAY CBA090-HA	NOMINAL 7 1/2 TONS, MINIMUM COOLING CAPACITY 95MB @ 87° OAT AND 43° SATURATED SUCTION TEMPERATURE	240-3PH MCA-34.4	SINGLE OR DUAL COMPRESSORS. PROVIDE ONE COMPRESSOR OF EACH UNIT WITH HOT GAS BYPASS
HRU-1	HEAT PIPE TYPE HEAT RECOVERY UNIT	COT MODEL TRU-120	NOMINAL SIZE 48"Wx24"H, SIX ROWS, BASED ON ENTERING EXHAUST 70° F/20%RH, ENTERING OUTSIDE 20° F, FROST THRESHOLD 1° F, LEAVING OUTSIDE AIR 20° F, OUTSIDE AIR CFM 1925, EXHAUST AIR CFM 1725 CFM OUTSIDE AIR PRESSURE DROP=0.65". EXHAUST AIR PRESSURE DROP=0.58"	115V	PROVIDE WITH INTEGRATED TILT PACKAGE TP-120-3"
LV-1	EXHAUST/RELIEF AIR LOUVER	ARROW MODEL EA-415-D	2 SECTIONS-1-RECTANGULAR 5'-5 1/4"Wx4'-0"H, 1-TRIANGULAR, TYPE (STYLE "T"), APPROX DIM: A=5'-5 1/4", B=15", C=24", MINIMUM TOTAL FREE AREA OF 18.0 SF	-	REFER TO ARCHITECTURAL PLANS COORDINATE FINAL DIMENSIONS W/G.C.
LV-2	OUTDOOR AIR LOUVER	ARROW MODEL EA-415-D	RECTANGULAR 7'-0"Wx5'-4-1/2"H, MINIMUM FREE AREA OF 19.0 SF	-	REFER TO ARCHITECTURAL PLANS COORDINATE FINAL DIMENSIONS W/G.C.
LV-3	BOILER ROOM COMB. AIR (2 LOCATIONS) LOUVER	ARROW MODEL EA-415-D	RECTANGULAR 1'-4"Wx4'-4"H, MINIMUM FREE AREA OF 2.6 SF	-	REFER TO ARCHITECTURAL PLANS COORDINATE FINAL DIMENSIONS W/G.C.
LV-4	BOILER ROOM COMB. AIR (2 LOCATIONS) LOUVER	ARROW MODEL EA-415-D	RECTANGULAR 2'-8"Wx1-4"H, MINIMUM FREE AREA OF 1.3 SF	-	REFER TO ARCHITECTURAL PLANS COORDINATE FINAL DIMENSIONS W/G.C.
LV-5	VESTIBULE BATHROOM EXHAUST LOUVER	ARROW MODEL EA-415-D	SQUARE: 1'-0"x1'-0", MINIMUM FREE AREA OF 0.30 SF	-	REFER TO ARCHITECTURAL PLANS COORDINATE FINAL DIMENSIONS W/G.C.
FT1&2	FUEL OIL TANKS	HIGHLAND TANK - TOUGH TANK	275 GALLON CAPACITY EA, WITH SUPPORT LEGS, VENT, TILL GAUGE & SUPPLY TAPRINGS 27"Wx44"Hx80"L	-	PROVIDE 2" BUSHING NEAR BOTTOM OF TANK FOR INTER-CONNECT PIPING
T-1	HOT WATER HEATING EXPANSION TANK	ARMSTRONG AX-60	TANK VOLUME = 33.6 GALS. ACC. VOLUME = 11.1 GALS.	-	PROVIDE 2" BUSHING NEAR BOTTOM OF TANK FOR INTER-CONNECT PIPING
T-2	HOT WATER EXPANSION TANK	AMTRON EXTROL MODEL 1500	COMBINATION PACKAGE W/EXTROL TANK, PURGER AND VENT 2 GAL. TANK 0.9 ACC. VOLUME	-	PROVIDE WITH TYPE 8 HOLDING FRAME
F-1	FILTER SECTION (HRU-1)	FARR 30/30	NOMINAL 24x24, INITIAL RESISTANCE 0.28"	-	PROVIDE WITH TYPE 8 HOLDING FRAME
T-3	DOMESTIC HOT WATER EXPANSION TANK	AMTRON THERM-X-TROL MODEL ST-5	TANK VOLUME: 2.0 GALS. ACC VOLUME = 0.9 GALS.	-	MATERIALS COMPATIBLE FOR POTABLE WATER SYSTEM

**PUMP SCHEDULE**

UNIT NUMBER	SYSTEM	LOCATION	MANUFACTURER & MODEL	GPM (HEAD)	HP	ELECTRICAL	R.P.M.	NOTES
P-1	RADIATION	MECH. ROOM	ARMSTRONG SERIES 4380 SIZE 1-1/2"	25.5	45	1	1750	
P-2	AHU-1	MECH. ROOM	ARMSTRONG SERIES 4380 SIZE 1-1/2"	28	45	1	1750	
P-3	BACK-UP	MECH. ROOM	ARMSTRONG SERIES 4380 SIZE 1-1/2"	28	45	1	1750	
P-4	DOM. HW HTR (B-3)	MECH. ROOM	ARMSTRONG SERIES H-41	13	15	1/4	1750	
P-5	BOILER B-1	MECH. ROOM	ARMSTRONG SERIES H-32	12	10	1/8	1750	
P-6	BOILER B-2	MECH. ROOM	ARMSTRONG SERIES H-32	12	10	1/8	1750	

**COOLING/HEATING COIL SCHEDULE**

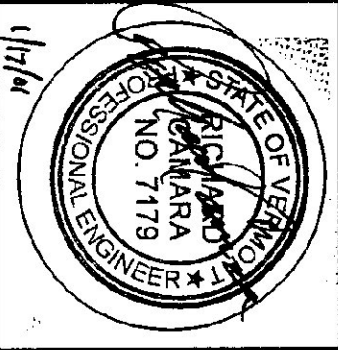
UNIT NUMBER	SERIES	DESIGN BASIS	FLUID	ENT. TEMP. F	LAT. TEMP. F	AIR FLOW (CFM)	MAX. FACE FLOW (GPM)	MIN. FACE FLOW (GPM)	ENT. F	LWT. F	MAX. WPD (FT)	COIL ROWS	ENT. IN.	REMARKS
CC-1	AHU-1	MOULAY SE1110AC	R-22	83.0	66.4	54.7	7000	0.75	14.0	N/A	N/A	4	11	COIL SELECTED AT SUCTION TEMPERATURE OF 43° F
HC-1	AHU-1	MOULAY SWH0803C	WATER	41	N/A	119	5300	0.75	7.6	28	180° F	6.4	3	

**FIN-TUBE RADIATION SCHEDULE**

PLAN SYMBOL	BTHU/FT	AVERAGE WATER TEMP. F	WTR FLOW (GPM)	HEIGHT (FT)	COLOR	MANUFACTURER & MODEL	REMARKS
HR-1	844	170	PLAN	11.5	ARCH.	RUNTAL RF-4	SUBMIT COLOR CHART
HR-2	507	170	PLAN	11.5	ARCH.	RUNTAL R-4	SUBMIT COLOR CHART
HR-3	428	170	PLAN	84	ARCH.	RUNTAL RS2-84	SUBMIT COLOR CHART
HR-4	863	170	PLAN	16	ARCH.	RUNTAL RS2-16	SUBMIT COLOR CHART
HR-5	1650	170	PLAN	38	ARCH.	RUNTAL RS2-38	SUBMIT COLOR CHART
HR-6	3938	170	PLAN	79	ARCH.	RUNTAL RS2-78	SUBMIT COLOR CHART

**FLOW CONTROL VALVES**

PLAN SYMBOL	SIZE	GPM	PSID RANGE	DESIGN BASIS	REMARKS
V-1	1/2"	0.5	2-32	FDI AUTOFLOW	
V-2	1/2"	1.0	2-32	FDI AUTOFLOW	
V-3	1/2"	1.25	2-32	FDI AUTOFLOW	
V-4	3/4"	1.5	2-3	FDI AUTOFLOW	



**DUNCAN • WISNIEWSKI ARCHITECTURE**  
 285 SOUTH CHAMPLAIN STREET, BURLINGTON, VERMONT 05401 (802) 864-6693

**Hallam Associates**  
 80 Farrell Street, Suite 300  
 So. Burlington, Vermont 05403  
 (802) 658-4891

**WILLISTON INFORMATION CENTER**  
 189 SOUTHBOUND STATE PROJECT # IM-BLDG (4)

**SCHEDULES**

DRAWN: J.LAMOTHE  
 CHECKED: M.COOK  
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**H-15b**