

PACKAGED ROOFTOP UNIT SCHEDULE

UNIT ID.	MANUFACTURER	MODEL	LOCATION	SERVICE	ELECTRIC	MCA	FAN			COOLING CAPACITY			GAS HEATING CAPACITY		DISCHARGE	ACCESSORIES					
							CFM	OA	ESP IN/MOTOR	MOTOR HP	TPC	SC	INPUT	OUTPUT			2 STAGE RISE	COND	OPERATING		
RU-1		YSJ02E3H---	DJAC-0810-C1	ROOF	SECOND FL	208V-3PH-60HZ	634	4000	1000	1.8	5	1750	121.9	82.0	250	200	46	95	1110	VERTICAL	HEATING AND COOLING TYPE FULLY PROGRAMMABLE SPLIT TYPE ELECTRONIC THERMOSTAT SUPPLY DUCT DEFECTOR, VARIABLE PITCH DRIVE ASSEMBLY, H-O-A STARTER, DISCONNECT SWITCH, LOW AMBIENT TEMPERATURE CONTROL, ECONOMIZER
RU-2		YSJ02E3H---	DJAC-0810-C1	ROOF	FIRST FL	208V-3PH-60HZ	634	4000	1000	2.5	5	1750	121.9	82.0	250	200	46	95	1110	VERTICAL	HEATING AND COOLING TYPE FULLY PROGRAMMABLE SPLIT TYPE ELECTRONIC THERMOSTAT SUPPLY DUCT DEFECTOR, VARIABLE PITCH DRIVE ASSEMBLY, H-O-A STARTER, DISCONNECT SWITCH, LOW AMBIENT TEMPERATURE CONTROL, ECONOMIZER

PACKAGED TERMINAL AC UNIT SCHEDULE

(PTAC UNIT WITH GAS HEAT)

UNIT NO.	PTAC-1	PTAC-2	PTAC-3
SERVICE & LOCATION	SEE PLANS	SEE PLANS	SEE PLANS
MANUFACTURER	DYNALINE	DYNALINE	DYNALINE
MODEL NO.	D.L.-1622	D.L.-1220	D.L.-0912
EVAPORATOR	TOTAL COOLING CAP. MBH	16.0	11.7
	SENS. CAP. MBH	14.1	10.1
	ENT. AIR DB/WB °F	75/62	75/62
CONDENSER	DB °F	95	95
	WB °F	70	70
HEATING	OUTPUT MBH	16	14.5
	MFRS	15	15
ELEC. DATA	VOLTS/PH/Hz	208/1/60	208/1/60
	TYPE	PERMANENT WASHABLE	PERMANENT WASHABLE
FILTER			

REMARKS:

- PROVIDE ARCHITECTURAL LOUVER AND WALL SLEEVE COORDINATE WITH ARCHITECT'S DRAWINGS FOR DEPTH OF WALL SLEEVE REQUIRED. SLEEVES TO HAVE PANEL WALL FLANGE. LOUVER TO BE PAINTED PER ARCHITECT'S REQUIREMENTS.
- CONTINUOUS CONDENSATE REMOVAL SYSTEM
- PROVIDE UNIT MOUNTED CONTROLLER W/MANUAL CHANGEOVER AND ELECTROMECHANICAL CONTROLLER. SUPPLY FAN SHALL HAVE AUTOMATIC/ON/OFF SETTINGS.
- FALLS BELOW 45°F (ADJUSTABLE)
- EVAPORATOR FROST CONTROL.
- DIGITAL CONTROL PANEL.

ACOUSTICAL LINING

DUCTS 12 FEET FROM FANS AND WHERE SHOWN ON PLANS SHALL BE LINED WITH 1" THERMO-COR INSULATION. SUCH LINING SHALL BE 1" THICK AND MUST BE MANUFACTURED BY ARMATELX MODEL AP/ARKATELX SA/DUJ. DUCTS SHALL BE RESISTANT LINNER OR AS APPROVED. DIMENSIONS OF LINED DUCTS SHOWN ON DRAWINGS ARE THE INSIDE DIMENSIONS OF THE DUCT AFTER THE LINING HAS BEEN INSTALLED. INSTALLATION METHOD OF LINING SHALL CONFORM TO ARMATELX INSULATION PUBLICATION CLOSED CELL CONSTRUCTION DUCT LINER SHALL BE ADHERED PER MANUFACTURER'S RECOMMENDATIONS.

INSULATION OF SUPPLY DUCTS

DUCTS NOT INTERNALLY LINED WITH ACOUSTIC LINING SHALL BE INSULATED WITH 1-1/2" INCH THICK, 3/4" LB. DENSITY FIBER APPLIED FOL FACED, SCRIM REINFORCED, 2" INCH FLANGE. WRAP INSULATION TIGHTLY ON DUCT AND FRIMLY BUTT ALL JOINTS WITH 2" INCH FLANGE OVERLAP ON CIRCUMFERENTIAL JOINTS. ADHERE TO DUCT WITH 2/3 COVERAGE OF BF 85-20 (OR I-C 225) ADHESIVE APPLIED IN 4" INCH WIDE BANDS, 8 INCHES ON CENTERS. SEAL ALL JOINTS AND SEAMS WITH MINIMUM 3" INCH WIDE TSK TAPE APPLIED WITH SAME ADHESIVE. ADDITIONALLY, SUPPORT INSULATION ON THE BOTTOM SIDE OF RECTANGULAR DUCTS OVER 36 INCHES WIDE WITH A SINGLE ROW OF WELD PINS AND SPOILED WASHERS, CLIP OFF PINS FLUSH WITH FACING AND SEAL ALL JOINTS, FOLDERS AND BREAKS IN CORNERS WITH GALVALUM SEAL. ALL LINED DUCTS SHALL BE COATED WITH 100% SOLID POLYURETHANE (FR-25, JOHN-S-MANVILLE MICROBUTE-1SK, CERTAINTED DUCT WRAP TYPE IV)

FLEXIBLE CONNECTOR

FLEXIBLE CONNECTORS SHALL BE NEOPRENE-COATED GLASS FABRIC, 30 OZ. PER SQ. YD. WITH SEWED AND CEMENTED SEAMS SIMILAR TO VENT FABRICS. PROVIDE WITH METAL COLLARS. ALLOW MINIMUM MOVEMENT OF 1".

Centralized Control

Room Name	Estimated Capacity for each room				Selected Model				Indoor unit information							
	For Cooling (Total)	For Heating (Sensible)	For Heating (Latent)	For Heating (Total)	Model name	FUSE	MCA	ELECTRIC	SEVICE	LOCATION	COOLING (By indoor unit)	HEATING (By indoor unit)	Design Condition			
1ST FLOOR NEW HALL	72000	55000	80000	AH-1	PLFY-P18BMU-E	18000	13425	11441	13857	53704	44454	55528	80.6	47	68.2	68.0
1ST FLOOR NEW HALL				AH-1	PLFY-P18BMU-E	18000	13425	11441	13857				80.6	47	68.2	68.0
1ST FLOOR NEW HALL				AH-1	PLFY-P18BMU-E	18000	13425	11441	13857				80.6	47	68.2	68.0
1ST FL NEW RM 1	8000	6000	7000	AH-2	PLFY-P24BMU-E	20000	13425	11441	13857	5967	5967	6280	80.6	47	68.2	68.0
1ST FL NEW RM 2	12000	9000	9000	AH-3	PLFY-P24BMU-E	12000	13500	8951	9421	8951	7078	9421	80.6	47	68.2	68.0
1ST FL NEW RM 3	12000	8000	9000	AH-4	PLFY-P24BMU-E	12000	13500	8951	9421	8951	7078	9421	80.6	47	68.2	68.0
1ST FL NEW RM 4	12000	9000	9000	AH-3	PLFY-P24BMU-E	12000	13500	8951	9421	8951	7078	9421	80.6	47	68.2	68.0
1ST FL ENT.	12000	9000	9000	AH-7	PLFY-P24BMU-E	12000	13500	8951	9421	8951	7078	9421	80.6	47	68.2	68.0
2ND FLOOR NEW HALL	96000	55000	75000	AH-5	PLFY-P18BMU-E	18000	20000	13425	11441	13857	48892	65556	80.6	47	68.2	68.0
2ND FLOOR NEW HALL				AH-5	PLFY-P18BMU-E	18000	20000	13425	11441	13857			80.6	47	68.2	68.0
2ND FLOOR NEW HALL				AH-6	PLFY-P24BMU-E	24000	27000	17902	13805				80.6	47	68.2	68.0

VRF-Z AC SYSTEMS (MITSUBISHI CITY MULTI AS STANDARD)

UNIT ID.	MODEL	LOCATION	SERVICE	ELECTRIC	MCA	FUSE	WEA#	COOLING	HEATING	REMARKS
DU-1	PHM-P18BSMU-A	18000	AHUS	208V-3	83	12A	39-06-F	188000	188000	12345

INSULATION OF OUTDOOR DUCTS

ALL OUTDOOR DUCTWORK SHALL BE INSULATED IN ADDITION TO ACOUSTIC LINING WITH 1" INCH THICK, 6 LB. DENSITY, FIBER GLASS, RIGID INSULATION BOARD WITH WHITE KAPAX FIBER GLASS REINFORCED ALUMINUM FOL LAMINATE. ALL-SENDER DUCT (AS) ADHERE TO DUCT WITH WELD PINS AND SPOILED WASHERS, CLIP OFF PINS FLUSH WITH FACING AND SEAL ALL JOINTS, FOLDERS AND BREAKS IN CORNERS WITH GALVALUM SEAL. ALL LINED DUCTS SHALL BE COATED WITH 100% SOLID POLYURETHANE (FR-25, JOHN-S-MANVILLE MICROBUTE-1SK, CERTAINTED DUCT WRAP TYPE IV)

VOLUME DAMPER

VOLUME DAMPERS SHALL BE GALVANIZED STEEL, SNAKNA "LOW VELOCITY MANUAL" EXCEPT PROVIDE BEARING AT ONE END OF DAMPER. ROD QUADRANT WITH LEVER AND LOCKSCREW AT OTHER END. FOR INSULATED DUCTS, QUADRANTS MOUNTED ON COLLAR TO CLEAN INSULATION. INSTALL LEVER ACCESSIBLE.

DUCT SEALING

THOROUGHLY SEAL ALL JOINTS AIRTIGHT IN NEW DUCTS TO PREVENT AIR LEAKAGE. SEALANT MATERIALS TO BE FOSTER 30-02, OR EQUAL, DUCT SEALANT, UL LABELED AND HAVING FLAME SPREAD RATING OF 25 OR LESS, AND SMOKE DEVELOPED RATING OF 50 OR LESS. APPLY SEALER TO EXTERIOR OF JOINTS IN SMALLER AND TO EVERY JOINT INSIDE LARGER DUCTS. APPLY SEALER TO ALL DUCT TERMINATIONS AT REGISTERS, GRILLES, FRAMES, DAMPER FRAMES, COLS, BY-PASSES, BLANK-OFF SHEETS, BAFFLES AND FILTER FRAMES MINIMUM DRY FILM THICKNESS OF SEALER TO 1/8 AT JOINTS AND NEATLY TAPERED TO 1/16 THICK, 1" BEYOND EDGE OF JOINTS.

ELECTRIC SPACE HEATERS						
UNIT ID.	MAKE	MODEL	LOCATION	WATTS	ELECTRIC	DIM.
EH-1	QMARK	QNH1510S	SEE PLANS	1500/750 W	120V	10.5"X12.5"
						BUILT-IN-CONTROLS
						THERMOSTAT, SET TO 65F

NOTES:

- PROVIDE CABLE AS REQ'D BY MANUFACTURER
- INTERLOCK WITH LIGHT SWITCH
- PROVIDE COORDINATE TERMINATION
- PROVIDE 90 MIN MECHANICAL TIMER SWITCH NEXT TO LIGHT SWITCH WITH PERMANENT SIGN SAVING "SHEDBACK EXHAUST FAN"

FAN SCHEDULE

UNIT ID.	MANUFACTURER	MODEL	LOCATION	SERVICE	DISCHARGE	FAN			MOTOR			ACCESSORIES	REMARK
						CFM	SP	FPM	SIZE	VOLTAJE	RPM		
TK-1	GREENHECK	AE-10-420-A	ROOF	BATHROOM	VERTICAL	300	0.3	-	1/8 HP	115V-1PH	1750	BACKRAFT DAMPER	1, 2
TK-2	BROAN	QRE110	IN CLC	BATHROOM	HORIZONTAL	89	0.25	-	3/8"	115V-1PH	-		2, 3
KX-1	BROAN	89000	UNDER CABINET	KITCHEN RANGE	VERTICAL	450	0.5	-	7/8W	115V-1PH	1650		3
EX-1	GREENHECK	AE-10-420-A	ROOF	SHEDBACKS	VERTICAL	300	0.35	-	1/8 HP	115V-1PH	1750	BACKRAFT DAMPER	1, 4

NOTES:

- PROVIDE CABLE AS REQ'D BY MANUFACTURER
- INTERLOCK WITH LIGHT SWITCH
- PROVIDE COORDINATE TERMINATION
- PROVIDE 90 MIN MECHANICAL TIMER SWITCH NEXT TO LIGHT SWITCH WITH PERMANENT SIGN SAVING "SHEDBACK EXHAUST FAN"

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Project No: **0919**
Date: **December 02, 2010**
Drawn By: **YA**
Checked By: **NA**
Scale: **As Noted**
Client: **HVAC DETAILS**
Drawing Title: **M-4**

Project: **DAW-LR - PLANNING HOUSE OF WORSHIP (MOSQUE)**
350 1/2 Hwy. 100
Hamden, CT 06518

Design: **M-4**
Sheet: **M-4**
Scale: **As Noted**
Date: **December 02, 2010**
Checked By: **NA**
Scale: **As Noted**
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