

ROOFTOP AIR CONDITIONING UNITS

MARK	WEIGHT (LB)	MODEL	UNIT										COOLING						HEATING				ENERGY RECOVERY								REMARKS													
			ELECTRICAL			EFFICIENCY		SUPPLY FAN					EXHAUST FAN			EAT		LAT		TOTAL CAPACITY (MBH)		SENSIBLE CAPACITY (MBH)		AMBIENT		COMPRESSOR		TOTAL TURNDOWN RATIO		TOTAL CAPACITY (MBH)		EDB (°F)		LDB (°F)		WINTER				SUMMER				
			VOLTAGE	FLA	MCA (A)	EER / SEER	AIRFLOW (CFM)	ESP (IN. WG.)	TSP (IN. WG.)	MOTOR SIZE (BHP/HP)	AIRFLOW (CFM)	ESP (IN. WG.)	TSP (IN. WG.)	MOTOR SIZE (BHP/HP)	DBWB (°F)	DBWB (°F)	DBWB (°F)	DBWB (°F)	STAGES	QTY	REFRIGERANT	TYPE	TOTAL TURNDOWN RATIO	TOTAL CAPACITY (MBH)	EDB (°F)	LDB (°F)	O.A. (CFM)	O.A.T (DBWB)	E.A. (CFM)	LAT (DBWB)		RECOV. CAP. (MBH)	O.A. (CFM)	O.A.T (DBWB)	E.A. (CFM)	LAT (DBWB)	RECOV. CAP. (MBH)	APD (in. wg.)						
RTU-1	3694	AAON RN-025-3-0-EA09-3 89	460/3/60	77	81	10.4	8000	0.5	1.97	6.88/10	8000	0.5	1.97	7.13/10	76.83/63.3 2	52.98/50.91	370.54	221.67	90/71	2	2	R-410A	GAS	4.5:1	328.1	59.2	97.2	3804	2/1	3804	59.2/60.7	225.76	3804	90/71	3804	76.83/50.91	78.16	0.87	1,2,3,4,5,6,7,8,9,10,11,12,13					
RTU-2	3694	AAON RN-025-3-0-EA09-3 89	460/3/60	77	81	10.4	8000	0.5	1.97	6.88/10	8000	0.5	1.97	7.13/10	76.83/63.3 2	52.98/50.91	370.54	221.67	90/71	2	2	R-410A	GAS	4.5:1	328.1	59.2	97.2	3804	2/1	3804	59.2/60.7	225.76	3804	90/71	3804	76.83/50.91	78.16	0.87	1,2,3,4,5,6,7,8,9,10,11,12,13					

REMARKS:

- FACTORY MOUNTED AND WIRED DISCONNECT
- HOT GAS REHEAT
- ECONOMIZER
- UNIT SELECTION SHALL UTILIZE DIRECT DRIVE PLENUM STYLE SUPPLY AND RETURN FANS WITH PREMIUM EFFICIENCY INVERTER DUTY MOTORS, NEMA MG1.
- PROVIDE 2" THICK DOUBLE WALL GALVANIZED STEEL INSULATED CABINET, ROOF AND WALLS, MINIMUM R-13. OUTSIDE OF CABINET TO BE PAINTED
- PROVIDE ONE SUPPLY AND ONE RETURN VARIABLE FREQUENCY DRIVE WITH INTEGRAL HAND-OFF-AUTO SELECTION SWITCH AND LOCKABLE DISCONNECT, RECESSED IN UNIT CABINET, FURNISHED BY UNIT MANUFACTURER. SINGLE DRIVE TO CONTROL EACH SET OF SUPPLY AND RETURN FANS. PROVIDE WIRING AND CONDUIT BETWEEN FANS AND DRIVE. UNIT TO BE PREWIRED TO PROVIDE SINGLE POINT ELECTRICAL CONNECTION TO VFD.
- PROVIDE 1" MERV 8 PRE-FILTER & 2" MERV 13 POST-FILTER
- PROVIDE SIDE LOADING AND REMOVABLE FILTERS
- PROVIDE STAINLESS STEEL HEAT EXCHANGER AND DRIP PAN
- PROVIDE SINGLE POINT POWER
- PROVIDE FIELD INSTALLED SMOKE DETECTORS COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM.
- PROVIDE CONVENIENCE OUTLET.
- PROVIDE 18" HIGH, INSULATED ROOF CURB. CONTRACTOR SHALL SECURE UNIT TO CURB AND CURB TO BUILDING STRUCTURE.

ROOF EXHAUST FAN SCHEDULE (ALTERNATE 1)

MARK	LOCATION	SERVICE	TYPE	CFM	SP IN W.G.	RPM	ELECTRICAL DATA				TYPICAL UNIT MFG & MODEL NO.	REMARKS:
							HP	VOLTS	PHASE	AMPS		
REF-2	ROOF	LOCKER ROOMS 117 & 118	DOWNBLAST	1430	0.2	889	.25	115	1	60	GREENHECK G-140-VG	1,2,3
REF-3	ROOF	LAV. 119 & DRY 121	DOWNBLAST	500	0.21	833	0.25	115	1	60	GREENHECK G-100-VG	1,2,3
REF-4	ROOF	SHOWER 122	DOWNBLAST	360	0.18	702	0.25	115	1	60	GREENHECK G-100-VG	1,2,3
REF-5	ROOF	TOILET 120 & 126	DOWNBLAST	600	0.47	1503	0.17	115	1	60	GREENHECK G-095-VG	1,2,3
REF-6	ROOF	SHOWER 123	DOWNBLAST	270	0.22	915	0.17	115	1	60	GREENHECK G-0950VG	1,2,3
REF-7	ROOF	LAV. 123	DOWNBLAST	360	0.18	702	0.25	115	1	60	GREENHECK G-100-VG	1,2,3
REF-8	ROOF	SHOWER 135	DOWNBLAST	270	0.22	915	0.17	115	1	60	GREENHECK G-0950VG	1,2,3
REF-9	ROOF	TRAINING ROOM 129	DOWNBLAST	500	0.21	833	0.25	115	1	60	GREENHECK G-100-VG	1,2,3
REF-10	ROOF	TOILET 133 & 136	DOWNBLAST	600	0.47	1503	0.17	115	1	60	GREENHECK G-095-VG	1,2,3
REF-11	ROOF	SHOWER 138	DOWNBLAST	360	0.18	702	0.25	115	1	60	GREENHECK G-100-VG	1,2,3
REF-12	ROOF	DRY 137 & LAV 139	DOWNBLAST	500	0.21	833	0.25	115	1	60	GREENHECK G-100-VG	1,2,3
REF-13	ROOF	LOCKER ROOMS 140 & 141	DOWNBLAST	1430	0.2	889	.25	115	1	60	GREENHECK G-140-VG	1,2,3
REF-15	ROOF	LAV. 132	DOWNBLAST	360	0.18	702	0.25	115	1	60	GREENHECK G-100-VG	1,2,3

REMARKS:

- FACTORY MOUNTED AND WIRED DISCONNECT.
- BACKDRAFT DAMPER.
- PROVIDE 18" HIGH, INSULATED ROOF CURB. CONTRACTOR SHALL SECURE UNIT TO CURB AND CURB TO BUILDING STRUCTURE.

PROJECT INFORMATION

Project Number: 16669.00
Client Name: DOMINICAN UNIVERSITY

HVAC INSTALLATION

HENNESSY CENTER

Project Address: 495 WESTERN HIGHWAY, ORANGEBURG, NY 10962

PROJECT ISSUE & REVISION SCHEDULE

No. Date Description

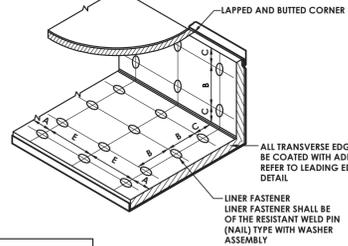
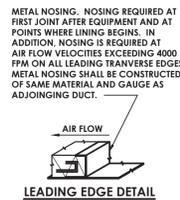
PROFESSIONAL STAMPS

NEW YORK STATE EDUCATION DEPARTMENT
REG. NO. 1000 OF THE NEW YORK STATE EDUCATION LAW AND THE COMPENSATORY
REGS. AND/OR ANY PREVIOUS. AN E.S. ACTING UNDER THE DIRECTION OF A LICENSED
ARCHITECT, ENGINEER OR LAND SURVEYOR. THIS ACTING PROFESSIONAL SEAL IS A FIDELITY
BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR LAND SURVEYOR. THE ACTING
PARTY SHALL APPEAR TO THE BOARD OF REGULATION AND BE RECOGNIZED AS FOLLOWING BY
THEY SIGNATURE AND THE DATE OF SUCH SIGNATURE, AND A SPECIFIC DESCRIPTION OF THE
ASSISTANCE.

SHEET INFORMATION

Issued: 08/22/2022 Scale: NOT TO SCALE
Project Status: ISSUED TO BID
Drawn By: BEF Checked By: GMM
Drawing Title: MECHANICAL DETAILS AND SCHEDULES

Drawing Number: DU H900

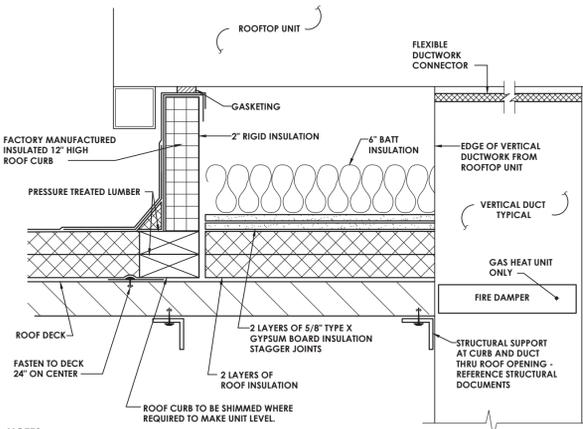


VELOCITY	DIMENSIONS			
	A	B	C	E
0-2500 FPM	3"	12"	4"	18"
2501-6000 FPM	3"	6"	4"	16"

NOTE:
LINER ADHERED TO THE DUCT WITH 100% AREA COVERAGE OF ADHESIVE.

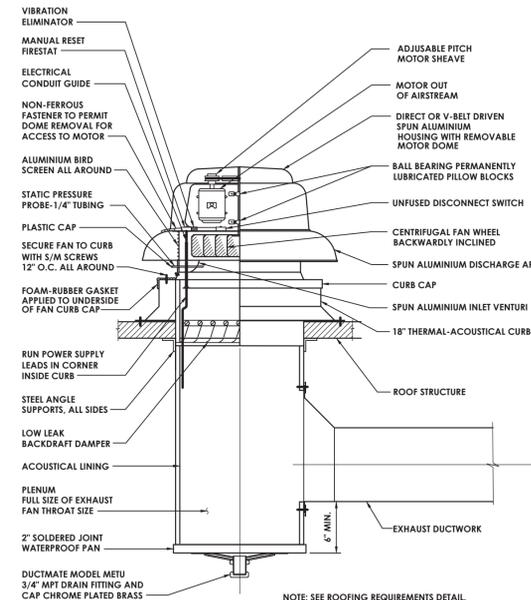
1 DUCT LINER INSTALLATION DETAIL
H900 NOT TO SCALE

INSTALL ROOFING PER NRCA REQUIREMENTS. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS AND DETAILS FOR SPECIFIC ROOF TYPE AND REQUIREMENTS AT INDIVIDUAL CURB LOCATIONS.



NOTES:
1) ALL ROOF TOP HVAC UNITS REQUIRED TO HAVE CURB AND CURB INTERIOR AS SHOWN.

2 ROOFTOP UNIT - ROOF CURB DETAIL
H900 NOT TO SCALE



3 EXHAUST FAN DETAIL
H900 NOT TO SCALE

Sheet Size: 24x36
Drawing Name: S:\Projects\Dominican Coll Gym Roof Study\Design\06-CAD\MECH\HP\H900.dwg
Date last accessed: 01/18/2022 11:36 AM
Date last plotted: 01/18/2022 11:36 AM
Plotted By: Brendon Mazza