

**ROOF TOP UNIT SCHEDULE**

MARK	ACCEPTABLE MANUF.	MODEL	CONFIG.	SERVICE	UNIT LOCATION	SYSTEM TYPE	SUPPLY AIR FAN			EXH FAN		COOLING (95°F AMB)				MIN O.A. CFM (FOR UNIT SIZING ONLY)	HEAT PUMP MBH AT 47°F	HEATING	FILTER			ELECTRICAL			ACCESSORIES	NOTES	
							CFM	ESP (NOTE 1)		ESTIMATED MOTOR HP	CFM	ESP	EAT DB/AB*F	LAT DB/AB*F (IN SUPPLY DUCT)	TOTAL MBH				SENS MBH	TYPE	THICK	EFFCY	VE./HZ	MCA			MOCP
								SUP	RET																		
RTU-1 (HEAT PUMP)	AAON	RQ-005	DOWN FLOW	CONTROL ROOM	ROOF	SINGLE ZONE	1950	0.5	0.25	2.0	1800	.25	78/65	57/55	57	46	200	58	NO GAS HEAT FOR SPACE WINTER HTG IN THIS UNIT	T.A.	2"	30%	208/3/60	44	50	1-24	1-10
	VALENT	VPRX-110-5J																									

ACCESSORIES

1. DRY BULB ECONOMIZER WITH 100% MODULATION AND POWER EXHAUST.
2. ULTRA LOW LEAKAGE TYPE ECONOMIZER DAMPERS.
3. EXTENDED HEIGHT FULL PERIMETER, SLOPED, INSULATED ROOF CURB (14"-18" HIGH). SLOPE TO BE DETERMINED BY CONTRACTOR.
4. PRE-WIRED ELECTRICAL DISCONNECT/S.
5. ANTISHORT CYCLE FOR COMPRESSOR AND TIME DELAY BETWEEN COMPRESSOR STARTS.
6. TWO EXTRA SETS OF AIR FILTERS.
7. UNIT MOUNTED INLET HOOD OR MOISTURE ELIMINATOR WITH BIRD SCREEN.
8. HIGH EFFICIENCY MOTORS, VFD RATED.
9. TERMINAL CONTACTS FOR WIRING RETURN SMOKE DETECTOR IN RTU SAFETY CIRCUIT. SMOKE DETECTOR SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR.
10. FURNISH CO2 SENSOR AND CONTROLLER (SENSORS MOUNTED IN SPACE) FOR CONTROLLING OUTDOOR AIR DAMPER. CO2 SENSOR MAY BE MOUNTED IN RA DUCT.
11. HOT GAS REHEAT (FOR HUMIDITY CONTROL).
12. AVERAGING TYPE LOW LIMIT CONTROL STAT WITH MANUAL RESET FOR DISCHARGE AIR TEMP. (40° ADJ).
13. PHASE AND BROWN OUT PROTECTION WITH AUTORESET FEATURE.
14. DOUBLE WALL CONSTRUCTION. USE MINIMUM 1 7/8" PCF INSULATION.

ACCESSORIES

15. SLOPED STAINLESS STEEL OR POLYCARBONATE DRAIN PAN.
16. SPRING TYPE ANTIVIBRATION RAIL (2" DEFLECTION) UNDER ENTIRE UNIT.
17. HUMIDITY CONTROL (IN SUMMER) SHALL BE EFFECTED VIA RH SENSOR IN RETURN AIR SYSTEM. CO2 SENSOR MAY ALSO BE MOUNTED IN RETURN AIR SYSTEM.
18. EXTENDED GREASE LINES.
19. HINGED SERVICE PANELS.
20. HAIL GUARD FOR CONDENSER COIL.
21. SAFETY GRATES OVER SUPPLY AND RETURN OPENINGS.
22. THROUGH THE BASE ELECTRICAL CONNECTION IS PREFERRED. COORDINATE THIS ITEM WITH ELECTRICAL CONTRACTOR.
23. PROGRAMMABLE (7 DAY) WITH AUTO CHANGE OVER. PROVIDE LOCKABLE COVER.
24. PROVIDE ELECTRIC HEAT (EST 7.5-10 KW, MULTISTAGE OR SCR CONTROLLED) FOR OPERATION ONLY DURING DEFROST CYCLE TO MAINTAIN NEUTRAL AIR TEMPERATURE.

NOTES:

1. ESP INCLUDES SUPPLY AND RETURN DUCT. LOSSES AT CURB AND WITHIN THE UNIT SHALL BE FACTORED IN BY RTU MANUFACTURER.
2. RTU SHALL BE EQUIPPED WITH FACTORY FURNISHED DDC CONTROLS FOR ECONOMIZER, BUILDING PRESSURE, CO2 BASED CONTROL OF FRESH AIR, OA/RA/RAH/SA SENSORS, PROGRAMMABLE DAT RESET CONTROL, COMPRESSOR STAGING, ETC.
3. LOCATE CO2 SENSOR IN OCCUPIED SPACE OR IN RA DUCT. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD INSTALLATION OF CO2 SENSOR AND CONTROLLER.
4. CONTRACTOR SHALL INCLUDE COST FOR CONDUIT AND WIRING BETWEEN ALL FIELD INSTALLED DEVICES AND THE RTU.
5. NEW DUCT MOUNTED SMOKE DETECTOR SHALL BE WIRED INTO FAN SAFETY CIRCUIT. DETECTOR SHALL BE FIELD FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR. SEE ELECTRICAL DRAWINGS. PROVIDE DETECTOR ON MAIN RETURN OF RTU.
6. EQUIPMENT MANUFACTURERS MUST MEET SCHEDULED PERFORMANCE CRITERIA.
7. ELECTRICAL DISCONNECT/S SHALL BE PROVIDED BY RTU MANUFACTURER.
8. IF MANUFACTURER'S EQUIPMENT REQUIRES A SEPARATE POWER FEED FOR DEFROST HEATER, CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THIS FEATURE (INCLUDING SEPARATE DISCONNECT FOR HEATER).
9. SINCE START-UP OF RTU IS DEFERRED TO NEXT PHASE OF PROJECT, DEVICES SUCH AS THERMOSTATS, ETC. THAT ARE NOT INSTALLED SHALL BE TURNED OVER TO OWNER'S REPRESENTATIVE.
10. WARRANTY SHALL COMMENCE 6 MONTHS AFTER FACTORY SHIP DATE OR AT START-UP OF RTU, WHICHEVER IS EARLIER. SEE GENERAL NOTE #4 ON SHEET 0011E FOR EXTENDED WARRANTY.



USER NAME =	DESIGNED - JPD/ATK	REVISED  09/04/12 NEWLY ADDED SHEET
PLOT SCALE =	DRAWN - MWH	REVISED
PLOT DATE =	CHECKED - JPD	REVISED
	APPROVED - ATK	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF  
TRANSPORTATION

**ROOF TOP UNIT SCHEDULE**

Scale SHEET NO. 11 OF 11 SHEETS Station From Station To

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2012-0451	WILL	11	0011F
			CONTRACT NO. 60V37	
		ILLINOIS	FED. AID PROJECT	