

8A	MECHANICAL	-	452-UH-1	Y	0	[]	0	-	-	E	2300	[1100]	0	-	452-EF-3	-	-	-	2300	[1100]	0	[]	OA DAMPER OPENS TO PROVIDE MAKEUP WHEN EF-3 OPERATES
NOTE ROOMS OR AREAS DO NOT HAVE INDIVIDUAL HUMIDITY CONTROL UNLESS NOTED.																							

AIR HANDLING UNIT SCHEDULE																							
MARK	LOCATION	AREA AND/OR BLDG SERVED	TYPE	AIR FLOW	AIR FLOW						SUPPLY FAN MARK	RETURN OR RELIEF FAN MARK	EXHAUST FAN MARK	PREFILTER MARK	AFTER FILTER MARK	FINAL FILTER MARK	HEAT RECOVERY MARK	PREHEAT COIL MARK	COOLING COIL MARK	AIR COOLED COND UNIT	REHEAT COIL	HUMIDIFIER MARK	REMARKS
					SUPPLY		MIN OA		RETURN														
					CFM	[L/s]	CFM	[L/s]	CFM	[L/s]													
452-AHU-1	452 MECH 8A	452	INDOOR AIR HANDLER	CV	6000	[2800]	6000	[2800]	0	[]	452-SF5	-	-	452-PF1, 2	452-AF1	-	N/A	452-PHC1	452-DXCC1	452-ACCU1	-	452-H1	1, 2, 3, 4
REMARKS																							
1. PROVIDE VFD FOR SUPPLY FAN, LOOSE FOR CONTRATOR MOUNTING.																							
2. PLAN AND COORDINATE SHIPPING SPLITS FOR ACCESS THROUGH DOUBLE DOORS TO MECHANICAL SPACE.																							
3. AHU OVERALL ESP 2.75", 1.5" DISCHARGE, 1.25" INLET.																							
4. FACTORY INSTALLED RAWAL APR DEVICE.																							

AIR COOLED CONDENSING UNIT SCHEDULE (AIR CONDITIONING SERVICE)																								
MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	TYPE	MIN REFRIGERATION		REFRIGERANT	MAX SUCTION TEMP @ COMP		OA TEMP		MIN EER	IPLV	COMPRESSOR MOTOR				CONDENSER FAN MOTOR				REMARKS		
					MBH	[kW]		°F	[°C]	°F	[°C]			# COMP	NOMINAL POWER		PHASE	VOLT	# FANS	NOMINAL POWER			PHASE	VOLT
															HP	[kW]				HP	[W]			
452-ACCU-1	EXIST PAD ON GRADE	452	452-AHU-1	SCROLL	445	[1500]	410A	47	[8]	95	[35]	11.7	-	4	-	#VALUE!	3	230	4	1	[750]	1	120	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11
						[]										[]					[]			

10 hp

7.5 kW

180 - 220

note 13. MCA = 193, MOP = 225.
note 14. REFRIGERANT STORAGE CAPACITY 23.5 LBS.

NOTES

1. UL-RATED NON FUSED DISCONNECT SHALL BE FURNISHED BY MANUFACTURER OF EQUIPMENT.

2. EER, IPLV INCLUDES CONDENSER FANS, AND COMTROLS.

3. PROVIDE MANUFACTURER RECOMMENDED VIBRATION ISOLATION FOR MOUNTING ENCLOSURE TO PAD.

4. PROVIDE MINIMUM OF TWO COMPLETELY SEPARATE REFRIGERANT CIRCUITS, WITH A MINUMUM OF TWO COMPRESSORS FOR EACH CIRCUIT.

5. PROVIDE LIQUID LINE SOLENOID AND SERVICE VALVES, CRANK CASE HEATERS.

6. PROVIDE ON / OFF TIME DELAYS, PHASE LOSS, REVERSAL, LOW VOLTAGE MONITOR.

7. SELECTION BASED ON OPERATION AT 95 DEG. F. AMBIENT, UNIT CAPABLE OF OPERATION TO 115 DEG. F. AMBIENT.

8. CAPABLE OF OPERATION TO 40 DEG. F. AMBIENT.

9. FIELD FROST STAT TO LOCK OUT COMPRESSOR AS REQJURED TO PREVENT DX COIL FROSTING.

10. MATCHED WITH 452-DXCC1, 30% BLEED THERMAL EXPANSION VALVES REQUIRED BY INSTALLER.

11. MANUFACTURER TO REVIEW AND APPROVE REFRIGERANT PIPING DESIGN AND ROUTING.


should also be note 12 for air cooled condensing unit, thats where it will be installed

10 hp

7.5 kW

180 - 220

note 13. MCA = 193, MOP = 225.
note 14. REFRIGERANT STORAGE CAPACITY 23.5 LBS.

		ARCHITECT/ENGINEERS:	Drawing Title MECHANICAL SCHEDULES	Project Title CORRECT GAP DEFICIENCIES AT SPS	Project Number 676-13-106		
	A00002, 02-10-14	<div><div> ANDERSON ENGINEERING</div><div>ENGINEERING • ARCHITECTURE • LAND SURVEYING ENVIRONMENTAL SERVICES • LANDSCAPE ARCHITECTURE</div></div> <div>Anderson Engineering of Minnesota, LLC 13605 1st Avenue North Suite 100 Plymouth, MN 55441 763-412-4000 (o) 763-412-4090 (f) www.ae-mn.com</div>	Approved: Project Director	Location VA MEDICAL CENTER TOMAH WI	Building Number 452		
				Date 01-22-2014	Checked JAM	Drawn CMW	Drawing Number M-452-4.1 Dwg. 22 of 27