

SPLIT SYSTEM CONDENSING UNIT AND MODULAR AIR HANDLER UNIT SCHEDULE

MARK		SPLIT SYSTEM CONDENSING UNIT AND MODULAR AIR HANDLER UNIT SCHEDULE									
TOTAL SUPPLY AIR		CFM	AH1801A	AH1801B	AH1802	AH1903A	AH2801	AH4803A	AH4806	AH4905A	AH5901
STATIC PRESSURE (EXT/TOTAL)		IN. H ₂ O	1.340	5.735	7.080	10.800	7.170	11.365	6.695	10.825	19.355(EVENT MODE)/9.035(NON-EVENT MODE)
AIR QUANTITY		CFM	1,340	1.5/2.78	1.5/2.7	1.5/2.81	1.5/2.81	0.5/2.54	1.5/2.8	1.5/2.79	1.25/2.35
ENTERING TEMPERATURE DB/WB		"F/"F	90.0/79.0	1,340 (FROM AH1801A)	4,700 (FROM AH1903A)	10,800	1,110 (FROM AH1903A)	3,390	6,695	10,825	9,165/2,440
COOLING COIL TOTAL CAPACITY		MBH	124.6			90.0/79.0		90.0/79.0	6,695	10,825	89.7/77.9
COOLING COIL SENSIBLE CAPACITY		MBH	52.2			1,001.3		289.7	640.0	1,006.5	800.4/208.5
COOLING COIL		ROWS/FPI	8/11			431.5		128.1	274.8	420.9	363.3/91.7
COOLING COIL MAX AIR PRESS. DROP		IN. H ₂ O	0.83			8/8		8/11	8/8	8/8	8/8
COOLING COIL MAX. FACE VELOCITY		FPM	386.2			0.85		0.69	0.93	0.86	0.81
SATURATED SUCTION TEMP.		"F	44.1			442.4		341.4	447.6	443.5	427/113
LEAVING TEMPERATURE COOLING DB/WB		"F/"F	53.9/52.8			37.3/39.7		47.3/47.3	32.7/38.9	36.5/39.5	38.6U/44.8L
FILTERS		TYPE/EFF.	ANGLE/35%			53.0/52.9		54.7/53.7	53.7/53.5	54.0/52.8	53.0/53.0
AIR QUANTITY		CFM		5,735	7,080		7,170		7,975		8,595/5,000
ENTERING TEMPERATURE DB/WB		"F/"F		70.1/60.3	60.8/55.8		71.7/61.0		75.0/62.4		75.0/62.4
COOLING COIL TOTAL CAPACITY		MBH		122.4	69.0		175.0		204.7		225.9/169.5
COOLING COIL SENSIBLE CAPACITY		MBH		100.2	55.0		139.4		174.8		220.1/143.9
COOLING COIL		ROWS/FPI		8/8	4/14		6/8		4/11		6/8
COOLING COIL MAX AIR PRESS. DROP		IN. H ₂ O		0.78	0.57		0.72		0.37		0.35/0.42
COOLING COIL MAX. FACE VELOCITY		FPM		453.7	493.7		493.7		372 (531 W. OA CLOSED)		507/295
SATURATED SUCTION TEMP.		"F		44.1	43.3		39.4		41.8/41.8		43.7
LEAVING TEMPERATURE COOLING DB/WB		"F/"F		53.9/52.8	53.6/52.2		53.7/52.5		54.7/53.7		55.0/55.0
FILTERS		TYPE/EFF.		2" PLEATED FLAT/35%	2" PLEATED FLAT/35%		2" PLEATED FLAT/35%		2" PLEATED FLAT/35%		2" PLEATED FLAT/35%
AIR QUANTITY		CFM									
MIXED AIR TEMPERATURE DB/WB		"F/"F									
MAX. FAN SPEED		RPM	1,809	1,121	930	1,824	954	1,936	2,287	1,828	19,355/9,035
FAN MOTOR		BHP/HP	1.3/1.5	4.8/7.5	4.9/7.5	8.3/15.0	954	1,936	54.7/53.7		54.0/53.7
ELECTRICAL CHARACTERISTICS		V/ø/Hz	460/3/60	460/3/60	460/3/60	460/3/60	52.7/5.5	9.4/15.0	5.4/7.5	8.4/10.0	2,735
FAN ARRANGEMENT/TYPE		-	FC UPBLAST	FC UPBLAST	FC UPBLAST	AF UPBLAST	FC UPBLAST	460/3/60	460/3/60	460/3/60	20.1/25 (SEE NOTE 15)
DISCHARGE SOUND POWER LEVELS (OCTAVES)		1/2/3/4/5/6/7/8[dBA]	91/91/88/87/87/82/80/77	93/94/89/88/85/78/73/67	92/92/87/85/82/74/69/61	95/95/94/87/81/76/68/60	92/92/88/86/83/75/69/61	96/96/92/91/82/77/69/61	94/95/95/88/83/79/72/64	95/95/94/87/81/76/68/60	460/3/60
RADIATED SOUND POWER LEVELS (OCTAVES)		1/2/3/4/5/6/7/8[dBA]	83/77/69/65/71/69/67/67	85/80/70/66/69/65/60/57	84/78/68/63/66/61/56/51	87/81/75/65/65/63/55/50	84/78/69/64/67/62/56/51	88/82/73/69/66/64/56/51	86/81/76/66/67/66/59/54	97/81/75/65/65/63/55/50	AIRFOIL UPBLAST (IN ME21 CABINET

- NOTES:

 1. PROVIDE POSITIVE SLOPED STAINLESS STEEL DRAIN PAN, BRASS COIL CONNECTIONS, BRASS VENTS AND DRAINS, REMOTE BEARING LUBRICATION LINES, EXTENDED TO JUST INSIDE THE ACCESS DOOR.
 2. PROVIDE DOUBLE WALL UNIT. FILTER SECTIONS ON 100% OUTSIDE AIR UNITS MAY BE SINGLE WALL.
 3. PROVIDE PREMIUM EFFICIENT MOTORS. SEE SPECIFICATIONS. DIVISION 16 CONTRACTOR SHALL PROVIDE MOTOR STARTER.
 4. PROVIDE SPRING TYPE VIBRATION ISOLATORS WITH MANUFACTURER'S RECOMMENDED DEFLECTION. OMIT IF FAN/MOTOR IS INTERNALLY ISOLATED WITHIN THE FAN SECTION.
 5. THERMOSTAT (TEMPERATURE SENSOR) SHALL BE BY THE TEMPERATURE CONTROLS CONTRACTOR. STAGING SHALL BE CONTROLLED BY THE DDC SYSTEM.
 6. REFRIGERANT LINES SHALL BE SIZED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR STATIC LIFTS AND TOTAL LENGTHS REQUIRED. INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 7. PROVIDE MANUFACTURER'S RECOMMENDED REFRIGERANT SPECIALTIES INCLUDING ISOLATION VALVES, REPLACEABLE CORE FILTER DRIER, DISCHARGE MUFFLERS AND SIGHT GLASSES IN EACH REFRIGERANT CIRCUIT. PROVIDE 5 MINUTE TIME DELAY COMPRESSOR STARTING RELAY. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND ACCESSORIES.
 8. PROVIDE ALL REQUIRED CONTACTS AND RELAYS TO INTERFACE WITH THE BUILDING'S DDC SYSTEM. REFER TO THE POINT SCHEDULE AND THE SCHEMATICS.

9. PROVIDE FIELD APPLIED APR VALVE AS SIZED AND MANUFACTURED BY RAWAL FOR EACH LEAD COMPRESSOR. PROVIDE ON BOTH COMPRESSORS IN CU5901A.
10. PROVIDE WITH METAL FILTER FRAME WITH REPLACEABLE FILTER MEDIA.
11. CONDENSING UNIT'S CONDENSER COILS SHALL BE PROTECTED BY AN EXPANDED STAINLESS STEEL SCREEN WITH CONTINUOUS 1" U-CHANNEL EDGING SECURED TO UNIT CABINET WITH STAINLESS STEEL SCREWS AT 8" O.C. MANUFACTURER'S STANDARD HAIL GUARDS ARE NOT ACCEPTABLE. PROVIDE CONDENSER COIL COATING AS PER SPECIFICATIONS.
12. EVAPORATOR COILS IN 100% OUTSIDE AIR STREAMS SHALL BE COPPER FINNS ON COPPER TUBES AND SHALL BE COATED PER SPECIFICATIONS.
13. PROVIDE A DOUBLE SUCTION RISER. VERIFY REQUIREMENTS WITH THE EQUIPMENT MFR.
14. PROVIDE A SUCTION LINE ACCUMULATOR. VERIFY REQUIREMENTS WITH THE EQUIPMENT MFR.
15. FAN MOTOR SHALL BE DRIVEN WITH A VARIABLE FREQUENCY DRIVE FOR FAN CONTROL. SEE VARIABLE FREQUENCY DRIVE SCHEDULE.
16. PROVIDE MANUFACTURER'S PHASE LOSS PROTECTION FOR THREE PHASE MOTORS. INSTALL PHASE LOSS PROTECTION IN CONFORMANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. REFER TO SPECIFICATIONS SECTION 15781 FOR ADDITIONAL REQUIREMENTS.

17. OUTSIDE AIR PATH TO HAVE SPLIT FACE COIL WITH A MOTOIZED DAMPER. THE DAMPER AND ASSOCIATED COMPRESSOR CIRCUIT SHALL BE ENABLED/OPENED DURING EVENT MODE.

** VALUES SEPARATED BY A VERTICAL BAR " | " INDICATE EVENT MODE AND NON-EVENT MODE CONDITIONS RESPECTIVELY. DURING EVENT MODE, THE MODULATING DAMPER INTEGRAL TO THE UNIT SHALL OPEN TO THE EVENT CFM INDICATED. DURING NON-EVENT MODE, THE MODULATING DAMPER INTEGRAL TO THE UNIT SHALL CLOSE TO THE NON-EVENT CFM INDICATED. THE SUPPLY FAN SPEED WILL BE CONTROLLED TO THE CFMS INDICATED FOR THE EACH MODE BY THE VFD.