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CONSTRUCTION REISSUE SET
 Project No. 1607050
 Drawn: DL/MP
 Checked: MZ
 Date: November 22, 2017
 No. Description Date

PACKAGED ROOFTOP UNIT SCHEDULE

TAG	UNIT				REFRIGERATION				SUPPLY FAN				RELIEF FAN				COOLING COIL				HEATING				MIN. EER	MANUFACTURER	MODEL	NOTES								
	TYPE	VOLTS/PHASE	MCA	MOCP	OPERATING WEIGHT (LBS.) (K-SEN)	ROOF CURB WEIGHT (LBS.)	REFRIG. TYPE	NO. OF COMPRESSORS	NO. OF REF. CIRCUITS	STEPS OF UNLOADING	AMBIENT AIR TEMP (DEG F)	FAN TYPE	AIR FLOW (CFM)	EXT. STATIC PRESSURE (IN.W.G.)	OUTSIDE AIR FLOW (CFM)	FAN SPEED (RPM)	MOTOR SIZE HP	FAN TYPE	AIR FLOW (CFM)	EXT. STATIC PRESSURE (IN.W.G.)	MOTOR SIZE HP	MIN. SENSIBLE CAPACITY (MBH)	MIN. TOTAL CAPACITY (MBH)	ENTERING AIR TEMP (DB/WB) (DEG.F)					EVAP LEAVING AIR TEMP (DB/WB) (DEG.F)	MIN. FACE AREA (SQ.FT.)	MIN. ROWS	MAX. FIN PER INCH	ENTERING AIR TEMP (DEG.F)	LEAVING AIR TEMP (DEG.F)	STAGES OF HEAT	ELECTRIC INPUT (KW)
RTU-1	ELECTRIC	208-3	68	70	1050	850	R410A	1	1	VARIABLE DIGITAL SCROLL	105	DIRECT DRIVE PLENUM	975	2.8	275	1700	2	FC CENTRIFUGAL	943	0.5	0.75	27.8	40.7	80.9/66.7	53.9/51.7	5.3	4	14	57.8	90	SCR	15	13.3	AACN	RG-004-8-V-EA09-12A	1-17, 19-22
RTU-2	ELECTRIC	208-3	71	69	1350	850	R410A	1	1	VARIABLE DIGITAL SCROLL	105	DIRECT DRIVE PLENUM	1050	3.4	310	1700	3	FC CENTRIFUGAL	1080	0.5	1	43.1	59.0	77.2/64.1	53.5/51.4	5.5	6	14	61.2	90.0	SCR	15.0	12.3	AACN	RN-007-8-G-EB09-12A	1-16, 18-22
RTU-3	ELECTRIC	208-3	70	70	1000	850	R410A	1	1	VARIABLE DIGITAL SCROLL	105	DIRECT DRIVE PLENUM	1075	2.8	190	1700	2	FC CENTRIFUGAL	1180	0.5	1	27.2	36.5	78.8/65.0	53.7/51.3	5.3	4	14	60.8	90.0	SCR	15.0	13.1	AACN	RG-004-8-V-EA09-12A	1-17, 19-22
RTU-4	ELECTRIC	208-3	117	125	2000	850	R410A	2	2	VARIABLE DIGITAL SCROLL	105	DIRECT DRIVE PLENUM	2265	3.7	540	1700	3	FC CENTRIFUGAL	1155	0.5	1	73.2	115.5	93.8/80.4	53.2/51.3	14.4	4	12	53.8	85.0	SCR	20.0	17.0	AACN	RN-013-8-G-EB09-12A	1-17, 19-22
RTU-5	ELECTRIC	208-3	93	100	1300	850	R410A	1	1	VARIABLE DIGITAL SCROLL	105	DIRECT DRIVE PLENUM	1400	2.2	580	1700	2	FC CENTRIFUGAL	1150	0.5	1	45.0	67.9	83.6/68.8	51.5/49.3	8.5	6	14	52.9	90.0	SCR	22.5	12.3	AACN	RN-008-8-G-EB09-12A	1-17, 19-22
RTU-6	ELECTRIC	208-3	56	70	1900	850	R410A	2	2	VARIABLE DIGITAL SCROLL	105	DIRECT DRIVE PLENUM	3150	2.9	265	1700	5	FC CENTRIFUGAL	1155	0.5	1	75.5	89.0	76.9/62.2	54.5/52.8	14.6	6	12	-	-	-	-	13.9	AACN	RN-038-8-G-EB09-12A	1-17, 19-22
RTU-7	ELECTRIC	208-3	67	80	1400	850	R410A	1	1	VARIABLE DIGITAL SCROLL	105	DIRECT DRIVE PLENUM	1820	3	1270	1700	2	FC CENTRIFUGAL	1160	0.4	1	57.0	106.8	91.0/76.0	54.5/52.8	8.5	6	14	33.3	55.0	SCR	15.0	12	AACN	RN-010-8-G-EB09-12A	1-17, 19-22

- NOTES:
 1. UNIT SHALL HAVE COOLING CAPABILITIES DOWN TO 0 DEGREES F.
 2. PROVIDE WITH VIBRATION ISOLATION CURB, TEDD STEALTH CURB OR EQUAL.
 3. PROVIDE WITH ALUMINUM MICROCHANNEL CONDENSER COIL.
 4. PROVIDE WITH A SINGLE ELECTRICAL CONNECTION POWER AND CONVENIENCE OUTLET.
 5. PROVIDE MODULATING COMPRESSOR & ECM CONDENSER FANS.
 6. PROVIDE SUPPLY FAN WITH VFD.
 7. PROVIDE 2" DOUBLE WALL PANELS WITH R12 INSULATION AND THERMAL BREAK CONSTRUCTION.
 8. PROVIDE ALL COMPRESSORS WITH 5 YEAR WARRANTY.
 9. PROVIDE WITH UNIT MOUNTED SUPPLY AND RETURN AIR SMOKE DETECTOR.
 10. PROVIDE FULL HEIGHT ACCESS DOOR FOR CLEANING DOWNSTREAM COOLING COIL AND DRAIN PAN.
 11. PROVIDE WITH ANTI-SHORT CYCLE PROTECTION.
 12. PROVIDE WITH WEATHER PROOF DISCONNECT SWITCH.
 13. PROVIDE WITH RAIN HOOD.
 14. PROVIDE WITH FACTORY MOUNTED CONDENSER COIL HAIL GUARD.
 15. PROVIDE WITH ELECTRONIC ENTHALPY ECONOMIZER.
 16. PROVIDE WITH MODULATING OUTDOOR AIR AND RETURN AIR DAMPER.
 17. PROVIDE 2" MERV 7 PRE-FILTERS AND 12" MERV 14 FINAL FILTERS (RTU-1, RTU-3, RTU-4, RTU-5, RTU-6, & RTU-7). REFER TO FILTER SCHEDULE.
 18. PROVIDE 2" MERV 7 PRE-FILTERS, 12" HEPA FINAL FILTER IN FILTER CURB (RTU-2), AND UV LIGHT REFER TO FILTER SCHEDULE.
 19. PROVIDE ON APFMS (PARAGON OR EQUAL).
 20. PROVIDE WATMASTER CONTROLS INTEGRATED TO ALL RTUs AND VAV BOXES. PROVIDE PRISM FRONT END AND DESKTOP COMPUTER WITH IP MODULE.
 21. PROVIDE WITH MODULATING HOT GAS REHEAT.
 22. PROVIDE RTU WITH RELIEF AIR FAN TO CONTROL TO RETURN DUCT STATIC PRESSURE.

DUCTLESS SPLIT SYSTEM HEAT PUMP SCHEDULE

EVAPORATOR MARK	SERVES	TOTAL AIR FLOW (CFM)	NET COOLING CAPACITY		EVAPORATOR ELECTRICAL	CONDENSER ELECTRICAL	CONDENSER WEIGHT (LBS)	AIR COOLED CONDENSER MARK	OUTDOOR AMBIENT DB (F) (CL. DHT.G)	CONDENSER ELECTRICAL DATA				CONDENSER (MANUFACTURER) AND MODEL NUMBER	CONDENSER WEIGHT (LBS)	MINIMUM SEER @45F	NOTES
			ENTERING AIR DB (F)	WB (F)						VOLTS	PHASE	MCA	MOCP				
AC-1	IT CLOSET	742	75	65	23000	16500	508	CU-1	106	208	1	19	25	LG-LS240HSV3	137	20	1-8

- NOTES:
 1. Provide with field mounted condenser pump (equivalent to Aspen micro-white (< 30 MBH) or Aspen micro-white (> 30 mbh), low voltage, 24 degree and level base.
 2. Provide with 5 year parts warranty and 7 year compressor parts warranty.
 3. Electrical MCA/MOCP for condenser includes evaporator power requirements. Unit is powered through outdoor unit. Electrical connections shall be 14 gauge 4 conductor wiring and conduit between condenser and indoor unit.
 4. Electrical Contractor shall provide remote non-a-3R disconnect switch. Disconnect shall be located outdoors and all outdoors and indoor unit.
 5. Provide with wired remote control.
 6. Capacitors are provided at design conditions and not nominal ARI conditions.
 7. Insulate all refrigerant lines with code minimum.
 8. Contractor to lock out thermostat to cooling only mode.

FILTER SCHEDULE

RATING	MANUFACTURER	MODEL	CLEAN FILTER AREA (SQ. FT.)	DIRTY FILTER PRESS. DROP (IN. WG.) @ 500 FPM	DIRTY FILTER PRESS. DROP (IN. WG.) @ 600 FPM	LOCATION	DEPTH
HEPA	CAMFIL	ABSOLUTE V9	1.0	2.0	2.0	ROOF CURB OF RTU-2	12"
MERV 14	CAMFIL	RIGA-FLO	0.5	1.2	1.2	ROOF CURB OF RTU-1, 4, 5, 6, 7	12"
MERV 7	CAMFIL	30/90	0.51	0.62	0.62	PRE-FILTER FOR ALL RTUs (INSIDE RTU)	2"

SINGLE DUCT TERMINAL UNITS SCHEDULE

TAG	SERVE	BOX SIZE	MAX. PRIMARY AIR FLOW (CFM)	MIN. PRIMARY AIR FLOW (CFM)	E.S.P. (IN. WG.)			HEAT COIL				SOUND		ELECTRICAL			MANUFACTURER	MODEL	NOTES	
					INLET	DOWN	MAX. PRESS. DROP	HEATING AIR FLOW (CFM)	ENTERING AIR TEMP. (DEG. F)	LEAVING AIR TEMP. (DEG. F)	ELECTRIC INPUT (KW)	NO. OF STAGES	RADIATED SOUND (NC)	DISCHARGE SOUND (NC)	VOLTS/PHASE	MCA				MOCP
VAV-1	SEE FLOOR PLAN	8	590	590	1	0.25	0.1	390	55	95.2	7.5	SCR	23	19	208/3	26	30.0	TITUS	DESV	1-15
VAV-2	X-RAY	8	220	220	1	0.25	0.1	220	55	80.9	2.5	SCR	15	11	208/3	15	15.0	TITUS	DESV	1-15
VAV-3	TECH	8	420	420	1	0.25	0.1	215	55	85.1	2.0	SCR	19	17	208/3	12	15.0	TITUS	DESV	1-15
VAV-4	CT SCAN	16	2050	1040	1	0.25	0.1	1040	55	80.8	8.5	SCR	18	16	208/3	19.5	30.0	TITUS	DESV	1-15
VAV-5	SEE FLOOR PLAN	8	430	430	1	0.25	0.1	430	55	97.5	5.0	SCR	19	17	208/3	17.3	20.0	TITUS	DESV	1-15
VAV-6	IN-PATIENT 6	5	260	260	1	0.25	0.1	260	55	97.5	3.5	SCR	17	14	208/3	12.1	15.0	TITUS	DESV	1-15
VAV-7	IN-PATIENT 7	8	590	590	1	0.25	0.1	590	55	95.9	7.5	SCR	22	19	208/3	26	30.0	TITUS	DESV	1-15

- NOTES:
 1. PROVIDE HOSPITAL GRADE VAV BOXES.
 2. PROVIDE WITH SINGLE POINT OF ELECTRICAL CONNECTION.
 3. PROVIDE PRESSURE INDEPENDENT VOLUME CONTROLLER AND FLOW SENSORS.
 4. BOX INSULATION SHALL BE CLOSED CELL INSULATION, 1" FOR FAN POWERED BOXES AND 1 1/2" FOR SINGLE DUCT SHUT OFF BOXES. NO RAW EDGES OF INSULATION SHOULD BE EXPOSED TO AIRSTREAM.
 5. TERMINAL EQUIPMENT CONTROLLERS (TEC) SHALL BE PROVIDED AND FACTORY INSTALLED BY TERMINAL BOX MANUFACTURER. ENSURE COMPATIBILITY WITH ARIAN ROOFTOP UNITS.
 6. PROVIDE PROGRAMMING AND UNLASKER ACTUATORS AND OTHER EQUIPMENT FOR COMPLETE SYSTEM.
 7. PROVIDE 500VA 1% FACTORY MOUNTED CONTROL TRANSFORMER. FACTORY MOUNT TERMINAL BOX BAS CONTROLS. POWERED BY ELECTRICAL CONTRACTOR.
 8. TERMINAL UNITS SHALL BE INSTALLED 12" ABOVE CEILING.
 9. SOUND CRITERIA SHALL BE IN ACCORDANCE WITH ARI STANDARD 855-86.
 10. FURNISH AN INTEGRAL FACTORY DISCONNECT FOR EACH UNIT.
 11. SUSPEND TERMINAL UNIT FROM STRUCTURE WITH ALL THREAD AND VIBRATION CONTROLS.
 12. MAINTAIN MINIMUM 5 DUCT DIAMETERS OF STRAIGHT DUCT AT INLET.
 13. PROVIDE WITH 7 DAY PROGRAMMABLE T-STAT.
 14. PROVIDE WITH FACTORY MOUNTED WATMASTER CONTROLLERS.
 15. DASHES (-) INDICATE NO VALUE LESS THAN 20.

FAN SCHEDULE

UNIT ID	MANUFACTURER	MODEL	CFM	TYPE	DRIVE	FAN RPM	B.P. (IN. WG.)	MOTOR HP	PHASE	VOLTS	NO. OF SPEEDS	MAX. SOUND DATA (D.B.A.)	INTERLOCKED	NOTES / ACCESSORIES
EF-1	COOK	101C28D	710	ROOF MOUNTED	DIRECT	1428	0.75	110	1	208	1	18.5	RUN CONTINUOUSLY	1-6
EF-3	COOK	120 ACEB	400	ROOF MOUNTED	DIRECT	1498	0.8	110	1	208	1	10.4	RUN CONTINUOUSLY	1-5
EF-4	COOK	100C17DEC	1000	ROOF MOUNTED	DIRECT	1628	0.75	110	1	208	1	17.7	RUN CONTINUOUSLY	1-8
EF-5	COOK	101C17DEC	1000	ROOF MOUNTED	DIRECT	1645	0.75	110	1	208	1	19.5	RUN CONTINUOUSLY	1-6
EF-6	COOK	120 ACEB	250	ROOF MOUNTED	BELT	1713	0.5	110	1	208	1	14.8	RUN CONTINUOUSLY	1-8
EF-7	COOK	100C9B	630	ROOF MOUNTED	BELT	1731	0.75	110	1	208	1	10	RUN CONTINUOUSLY	1-6
EF-8	COOK	101C17DEC	968	ROOF MOUNTED	DIRECT	1446	0.5	110	1	208	1	16	RUN CONTINUOUSLY	1-6
EF-9	COOK	90C17DEC	225	ROOF MOUNTED	DIRECT	1428	0.5	110	1	208	1	19	RUN CONTINUOUSLY	1-5
EF-10	COOK	90C17DEC	190	ROOF MOUNTED	DIRECT	1366	0.5	110	1	208	1	18	RUN CONTINUOUSLY	1-5

- NOTES:
 1. PROVIDE WITH FACTORY MOUNTED POTENTIOMETER DIAL. MOTORS MUST BE NON-OVERLOADING FOR FULL R.P.V. CAPACITY OF FAN.
 2. PROVIDE WITH WEATHER PROOF AMCA 3 SPARK RESISTANT CONSTRUCTION WITH EXPLOSION MOTOR PROOF BELT TENSIONER.

Order Plans @

M201
 MECHANICAL SCHEDULES