

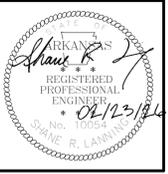
**PACKAGED ROOFTOP AIR CONDITIONING UNIT SCHEDULE**

TAG	MANU.	MODEL	DESCRIPTION	NOM. TONS	EER	SUPPLY CFM	OA CFM	E.S.P.	HEAT MBH IN	HEAT MBH OUT	FAN HP	VOLTS/PHASE	FLA	MCA	MOC	WEIGHT	CONTROL TYPE	COMMENTS
RTU-5	DAIKIN	DPSC10B	VARIABLE VOLUME, 10%-100% OA, DX COOLING, GAS HEAT	10	11.8	4000	400	2	200	162	4.3	208/3	61 A	70 A	100 A	2480	BAS	

**ACCESSORIES**

a. 0-100% ECONOMIZER WITH DRY BULB CONTROL.  
 b. BAROMETRIC RELIEF.  
 c. MODULATING HOT GAS REHEAT, MIN. 5:1 TURNDOWN WITH STAINLESS STEEL HEAT EXCHANGER.  
 d. PROVIDE 14" TALL FLAT ROOF CURB.  
 e. FACTORY INSTALLED BACnet CONTROLLER.

e. HAIL GUARD.  
 f. PROVIDE NEMA 3R FACTORY MOUNTED DISCONNECT, TV AND POWERED CONVENIENCE OUTLET.  
 g. MODULATING CONDENSER FAN MOTOR WITH EC MOTOR & LOW AMBIENT CONTROL TO 0°F.



**MECHANICAL DUCTWORK SCHEDULE**

DESCRIPTION	DUCT TYPE
RESTROOM EXHAUST DUCTS	ROUND OR RECTANGULAR DUCT WITH WRAP INSULATION
LOW PRESSURE SUPPLY AND RETURN RECTANGULAR DUCTS	RECTANGULAR WITH WRAP INSULATION
LOW PRESSURE ROUND RUNOUTS TO SUPPLY DIFFUSERS AND RETURN GRILLES	ROUND DUCT WITH WRAP INSULATION
MEDIUM PRESSURE ROUND DUCTS	ROUND SPIRAL DUCT, DOUBLE WALL

**MECHANICAL PIPING SCHEDULE**

DESCRIPTION	DUCT TYPE
MECHANICAL EQUIPMENT DRAINS (PRIMARY & SECONDARY)	SCHEDULE 40 PVC
MECHANICAL EQUIPMENT REFRIGERANT PIPING	COPPER

**MECHANICAL INSULATION SCHEDULE**

DESCRIPTION	TYPE	THICKNESS
RECTANGULAR SUPPLY, RETURN AND OUTSIDE AIR DUCTS	DUCT WRAP	2"
ROUND SUPPLY AIR DUCTS, RESTROOM EXHAUST DUCTS, OUTSIDE AIR DUCTS	DUCT WRAP	2"
MEDIUM PRESSURE, SPIRAL ROUND SUPPLY AIR DUCTS	DOUBLE WALL	1"
SUPPLY CEILING DIFFUSERS AND GRILLES	DUCT WRAP	2"
REFRIGERANT PIPING, CONDENSATE DRAIN PIPING	ELASTOMERIC	1/2"

**VAV SINGLE DUCT TERMINAL UNIT SCHEDULE**

TAG	MANU./MODEL	INLET DIA. (IN)	COOLING DESIGN CFM	MIN. CFM	CFM	HEATING KW	STAGES	EAT/LAT	VOLTS/PHASE	FLA	MCA	MOC	WT (lbs)
SV-1	METALAIRE / TH-510	10	800	480	640	9.0	VARIABLE	5599	208/3	25 A	31 A	50 A	67
SV-2	METALAIRE / TH-506	6	325	80	280	3.5	VARIABLE	5598	208/1	17 A	21 A	35 A	38
SV-3	METALAIRE / TH-506	6	300	66	240	3	VARIABLE	5594	208/1	14 A	18 A	30 A	38
SV-4	METALAIRE / TH-505	5	225	70	180	2.5	VARIABLE	5598	208/1	12 A	15 A	25 A	38
SV-5	METALAIRE / TH-508	8	575	121	460	5.5	VARIABLE	5593	208/1	26 A	33 A	50 A	50
SV-6	METALAIRE / TH-506	6	375	115	300	4	VARIABLE	5597	208/1	19 A	24 A	40 A	38
SV-7	METALAIRE / TH-508	8	650	160	520	6	VARIABLE	5591	208/1	29 A	36 A	60 A	50
SV-8	METALAIRE / TH-506	6	300	80	240	3	VARIABLE	5595	208/1	14 A	18 A	30 A	38
SV-9	METALAIRE / TH-508	8	550	121	440	5	VARIABLE	5591	208/1	24 A	30 A	50 A	50
SV-10	METALAIRE / TH-506	6	300	66	240	3	VARIABLE	5595	208/1	14 A	18 A	30 A	38
SV-11	METALAIRE / TH-506	6	350	120	280	4	VARIABLE	55100	208/1	19 A	24 A	40 A	38
SV-12	METALAIRE / TH-508	8	500	121	400	5.5	VARIABLE	5598	208/1	26 A	33 A	50 A	50

**FEATURES / ACCESSORIES**

a. PROVIDE FACTORY DISCONNECT.  
 b. PROVIDE FACTORY MOUNTED CONTROL TRANSFORMER WITH FUSE KIT.  
 c. 1" FOIL FACED LINER.  
 d. 55°F PRIMARY AIR TEMPERATURE.  
 e. FACTORY ACTUATOR.  
 f. AIRFLOW TRANSDUCER.

NOTE: REFER TO DRAWING FOR VAV LEFT/RIGHT ORIENTATION PRIOR TO ORDERING.

**AIR DEVICE SCHEDULE**

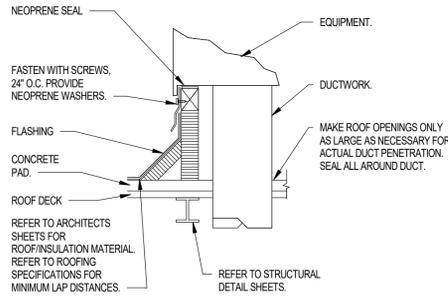
TAG	MANU.	MODEL	DESCRIPTION	FACE SIZE	FRAME SIZE	NECK	MATERIAL FINISH	COMMENTS
CD-1	NAILOR	RNS	CEILING DIFFUSER, SQUARE CONES	22X22	24X24"	6"	STEEL, WHITE	LAY-IN, UP TO 110 CFM
CD-2	NAILOR	RNS	CEILING DIFFUSER, SQUARE CONES	22X22	24X24"	8"	STEEL, WHITE	LAY-IN, UP TO 220 CFM
CD-3	NAILOR	RNS	CEILING DIFFUSER, SQUARE CONES	22X22	24X24"	10"	STEEL, WHITE	LAY-IN, UP TO 375 CFM
CD-4	NAILOR	RNS	CEILING DIFFUSER, SQUARE CONES	22X22	24X24"	12"	STEEL, WHITE	LAY-IN, UP TO 500 CFM
EG-1	NAILOR	51EC	EXHAUST GRILLE, EGGRATE 1/2"X1/2" CORE	12"X12"	24"X24"	6"	ALUMINUM, WHITE	LAY-IN, UP TO 110 CFM
RG-1	NAILOR	51ECA5	RETURN GRILLE, 45° DEFLECTION SIGHT PROOF EGGRATE 1/2"X1/2" CORE	22"X22"	24"X24"	22"X22"	ALUMINUM, WHITE	LAY-IN, UP TO 1000 CFM

**FAN SCHEDULE**

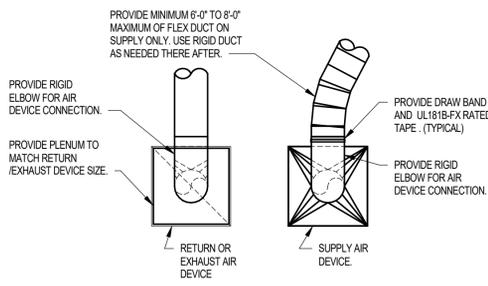
TAG	MANU./MODEL	DESCRIPTION	DRIVE	CFM	E.S.P.	TS, RPM	HP, WATTS	VOLTS/PHASE	SONES	WT (lbs)	CONTROL
EF-1	ACME L0150L	EXHAUST FAN, INLINE CABINET	DIRECT	140	0.25	1804, 919	103 W	120/1	1.4	20	SWITCHED WITH LIGHTS
EF-2	ACME L0100E	EXHAUST FAN, INLINE CABINET	DIRECT	70	0.2	1011, 515	77 W	120/1	0.7	20	SWITCHED WITH LIGHTS

**ACCESSORIES**

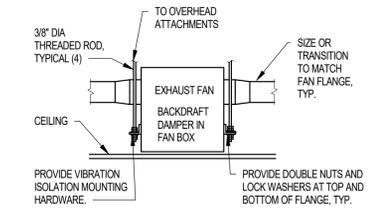
a. PROVIDE VIBRATION ISOLATING MOUNTING KIT AND ALL REQUIRED MOUNTING ACCESSORIES.  
 b. PROVIDE BACKDRAFT DAMPER FOR ALL FANS.  
 c. FACTORY MOUNTED NEMA 1 (INDOORS) OR NEMA 3R (OUTDOORS) DISCONNECT SWITCH.  
 d. PROVIDE INSECT SCREEN.  
 e. PROVIDE FACTORY INSTALLED FAN SPEED CONTROLLER.  
 f. PROVIDE ALUMINUM GRILLE CEILING MOUNTED FANS.



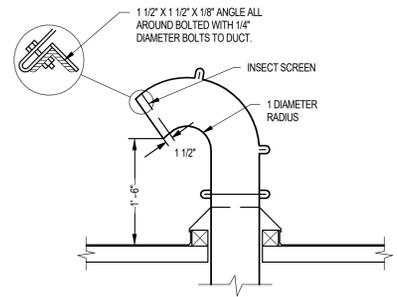
**9 ROOF CURB DETAIL**  
SCALE: N.T.S.



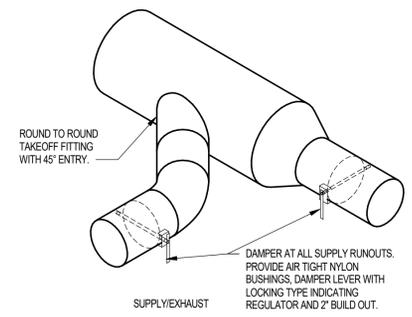
**6 AIR DEVICE CONNECTION**  
SCALE: N.T.S.



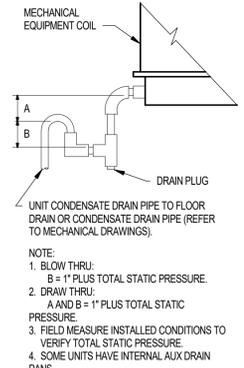
**4 INLINE EXHAUST FAN**  
SCALE: N.T.S.



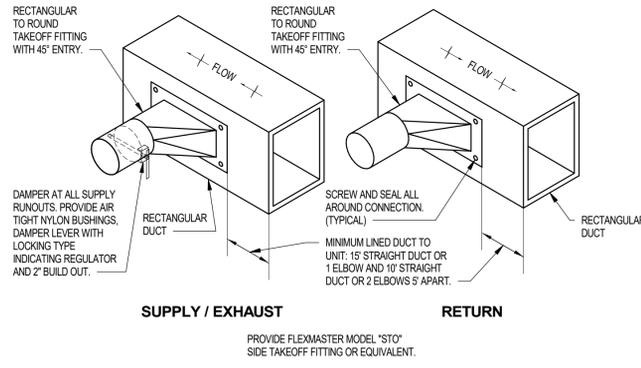
**2 GOOSENECK DETAIL**  
SCALE: N.T.S.



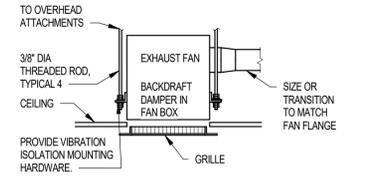
**1 DUCT TAP - ROUND**  
SCALE: N.T.S.



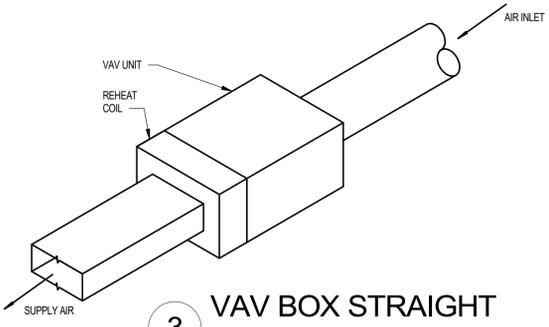
**8 P-TRAP DETAIL**  
SCALE: N.T.S.



**7 DUCT TAP**  
SCALE: N.T.S.



**5 CEILING EXHAUST FAN**  
SCALE: N.T.S.



**3 VAV BOX STRAIGHT**  
SCALE: N.T.S.

**KEY ARCHITECTURE INC.**

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PRELIMINARY  
NOT FOR  
CONSTRUCTION

Revision Schedule	Description
Rev. #	Date

NWA PEDIATRICS ADDITION  
 3730 S PINNACLE HILLS PKWY #3  
 ROGERS, AR 72758

MANA  
 3383 N MANA CT, SUITE 201  
 FAYETTEVILLE, AR 72703

DATE	DRAWN BY
Issue Date	Designer
PROJECT #	CHECKED BY
2438	Checker

SHEET  
**M2.1**  
 MECHANICAL DETAILS AND SCHEDULES

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