

VAV SECTION			ELECTRIC HEATING SECTION									REMARKS
UNIT NUMBER	INLET SIZE	COOLING CFM	MAX. P.D.	MIN. % CFM SET POINT	MBH HEATING	KW	STAGES	ELECTRIC SERVICE	E.A.T. D.B.	L.A.T. D.B.		
VAV-1.1	12"	1160	0.50"	50%	23.88	7.0	2	480/3/60	55.00	93.13	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-1.2	12"	1300	0.50"	60%	34.12	10.0	2	480/3/60	55.00	95.50	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-1.3	12"	1400	0.50"	60%	37.53	11.0	2	480/3/60	55.00	96.37	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-1.4	12"	1300	0.50"	60%	34.12	10.0	2	480/3/60	55.00	95.50	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-1.5	12"	1400	0.50"	60%	37.53	11.0	2	480/3/60	55.00	96.37	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-1.6	12"	1300	0.50"	60%	34.12	10.0	2	480/3/60	55.00	95.50	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-1.7	12"	1400	0.50"	60%	37.53	11.0	2	480/3/60	55.00	96.37	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-1.8	12"	1400	0.50"	60%	37.53	11.0	2	480/3/60	55.00	96.37	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-1.9	14"	1725	0.50"	60%	46.06	13.5	2	480/3/60	55.00	96.21	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-2.1	12"	1325	0.50"	50%	27.30	8.0	2	480/3/60	55.00	92.44	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-2.2	8"	645	0.50"	70%	17.06	5.0	1	480/3/60	55.00	89.99	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-2.3	10"	900	0.50"	50%	17.06	5.0	1	480/3/60	55.00	90.10	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-2.4	12"	1225	0.50"	50%	23.88	7.0	2	480/3/60	55.00	91.11	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-2.5	10"	975	0.50"	50%	20.47	6.0	2	480/3/60	55.00	93.88	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-3.1	8"	495	0.50"	70%	13.65	4.0	1	480/3/60	55.00	91.47	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-3.2	10"	915	0.50"	50%	17.06	5.0	1	480/3/60	55.00	89.53	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-3.3	10"	780	0.50"	50%	13.65	4.0	1	480/3/60	55.00	87.40	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-3.4	8"	530	0.50"	70%	13.65	4.0	1	480/3/60	55.00	89.06	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-3.5	10"	680	0.50"	50%	13.65	4.0	1	480/3/60	55.00	92.17	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-3.6	8"	470	0.50"	70%	13.65	4.0	1	480/3/60	55.00	93.41	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-3.7	10"	905	0.50"	50%	17.06	5.0	1	480/3/60	55.00	89.91	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-3.8	12"	1100	0.50"	50%	20.47	6.0	2	480/3/60	55.00	89.46	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-5.1	12"	1160	0.50"	50%	23.88	7.0	2	480/3/60	55.00	93.13	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-5.2	12"	1500	0.50"	60%	39.24	11.5	2	480/3/60	55.00	95.37	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-5.3	12"	1400	0.50"	60%	37.53	11.0	2	480/3/60	55.00	96.37	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-5.4	12"	1400	0.50"	60%	37.53	11.0	2	480/3/60	55.00	96.37	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-5.5	12"	1500	0.50"	60%	39.24	11.5	2	480/3/60	55.00	95.37	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-5.6	12"	1400	0.50"	60%	37.53	11.0	2	480/3/60	55.00	96.37	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-5.7	12"	1400	0.50"	60%	37.53	11.0	2	480/3/60	55.00	96.37	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-5.8	14"	1600	0.50"	60%	30.71	12.0	2	480/3/60	55.00	94.49	PRICE MODEL SDV OR APPROVED EQUAL	

- THESE CONTROL DEVICES SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. THIS CONTR. SHALL RETAIN THE SERVICES OF A FACTORY AUTHORIZED SPECIALIST IN THESE CONTROLS FOR A FACTORY START-UP AFTER THE INSTALLATION IS COMPLETE. THE PURPOSES OF PREPARING ALL SHOP DRAWINGS (WIRING DIAGRAMS, CUT-SHEETS, ETC.). CONTR. SHALL HAVE THE CONTROLS SPECIALIST REVIEW THE INSTALLATION DURING THE CONSTRUCTION.
- WHERE ONLY ONE RIGID ROUND BRANCH DUCT IS SHOWN FROM VAV BOX TO DIFFUSER CONTRACTOR SHALL SUPPLY FACTORY INSTALL ROUND DISCHARGE COLLAR (PRICE MODEL RDC) FOR DISCHARGE OF VAV BOX, REFER TO DRAWINGS.
- ALL VAV BOXES TO HAVE FOIL FACED INSULATION APPROVED FOR CLEAN ROOM APPLICATIONS.

PUMP SCHEDULE							REMARKS
MARK	SERVICE	GPM	TDH (FT.)	RPM	HP	ELECTRIC	
CWP-1	CHILLER ACC-1	355.0	35.0	1750	7.5	480/3/60	TACO MODEL F13007, PATTERSON OR APPROVED EQUAL, END SUCTION
CWP-2	CHILLER ACC-2	355.0	35.0	1750	7.5	480/3/60	TACO MODEL F13007, PATTERSON OR APPROVED EQUAL, END SUCTION
CWSP-3,4	SYSTEM PUMP	710.0	80.0	1750	20.0	480/3/60	TACO KA1229, PATTERSON OR APPROVED EQUAL, HORIZONTAL SPLIT CASE

- CWSP-1,2 TO BE VARIABLE FLOW, CWP-1, 2 TO BE CONSTANT FLOW.
- PROVIDE VARIABLE SPEED DRIVES FOR CWSP-3 & CWSP-4, REMOTELY LOCATED.
- PROVIDE TWO (2) 2" CONDUITS (WITH PULL STRING) FROM CHILLERS TO EMS CONTROL PANEL AND RESPECTIVE VFD'S.

AIR COOLED CHILLER SCHEDULE																
UNIT NO.	NOMINAL CAPACITY TONS	TYPE REFRIGERANT	CHILLED WATER (EVAPORATOR)				CONDENSER SECTION		UNIT ELEC. DATA (SINGLE PT.)				UNIT WEIGHT (LBS.)	REMARKS		
			G.P.M.	MAX. PD.FT.	E.W.T.	L.W.T.	FOULING FACTOR	NO. FANS	FAN RLA (EA.)	VOLTS	PH.	HZ.			MCA	MOCF
ACC-1	155.0	HFC-134A	355.0	11.4	55.0	45.0	0.0001	9	3.0	480	3	60	319.0	450.0	12,100	TRANE MODEL RTAC155, YORK YCIV-157SA OR APPROVED EQUAL
ACC-2	155.0	HFC-134A	355.0	11.4	55.0	45.0	0.0001	9	3.0	480	3	60	319.0	450.0	12,100	TRANE MODEL RTAC155, YORK YCIV-157SA OR APPROVED EQUAL

- AIR-COOLED CHILLERS TO BE SIZED AND SELECTED AT 115' CONDENSER ENTERING AIR TEMPERATURE.
- PROVIDE FREEZE PROTECTION FOR EVAPORATOR.
- CONDENSER FINS TO BE ALUMINUM.
- PROVIDE COMPREHENSIVE ACOUSTIC SOLUTION PACKAGE. SOUND PRESSURE LEVELS MEASURED 30 FEET FROM SIDE OF CHILLER NOT TO EXCEED 70dba. PROVIDE SOUND ATTENUATORS ON ALL CONDENSER FANS AND PROVIDE INSULATING BLANKETS ON ALL COMPRESSORS TO REDUCE SOUND.
- EMS TO MONITOR MAIN PROCESSOR, PROVIDE ALARM.

VAV SECTION			ELECTRIC HEATING SECTION									REMARKS
UNIT NUMBER	INLET SIZE	COOLING CFM	MAX. P.D.	MIN. % CFM SET POINT	MBH HEATING	KW	STAGES	ELECTRIC SERVICE	E.A.T. D.B.	L.A.T. D.B.		
VAV-10.1	10"	875	0.50"	50%	17.06	5.0	1	480/3/60	55.00	91.11	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-10.2	14"	1400	0.50"	60%	37.53	11.0	2	480/3/60	55.00	96.37	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-10.3	14"	1550	0.50"	60%	40.94	12.0	2	480/3/60	55.00	95.76	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-10.4	14"	1400	0.50"	60%	37.53	11.0	2	480/3/60	55.00	96.37	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-10.5	14"	1550	0.50"	60%	40.94	12.0	2	480/3/60	55.00	95.76	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-10.6	14"	1400	0.50"	60%	37.53	11.0	2	480/3/60	55.00	96.37	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-10.7	14"	1550	0.50"	60%	40.94	12.0	2	480/3/60	55.00	95.76	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-10.8	14"	1550	0.50"	60%	40.94	12.0	2	480/3/60	55.00	95.76	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-10.9	14"	1825	0.50"	60%	47.77	14.0	2	480/3/60	55.00	95.39	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-12.1	10"	870	0.50"	50%	17.06	5.0	1	480/3/60	55.00	91.31	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-12.2	14"	1400	0.50"	60%	37.53	11.0	2	480/3/60	55.00	96.37	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-12.3	14"	1550	0.50"	60%	40.94	12.0	2	480/3/60	55.00	95.76	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-12.4	14"	1400	0.50"	60%	37.53	11.0	2	480/3/60	55.00	96.37	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-12.5	14"	1550	0.50"	60%	40.94	12.0	2	480/3/60	55.00	95.76	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-12.6	14"	1400	0.50"	60%	37.53	11.0	2	480/3/60	55.00	96.37	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-12.7	14"	1550	0.50"	60%	40.94	12.0	2	480/3/60	55.00	95.76	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-12.8	14"	1400	0.50"	60%	37.53	11.0	2	480/3/60	55.00	96.37	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-12.9	14"	1550	0.50"	60%	40.94	12.0	2	480/3/60	55.00	95.76	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-12.10	14"	1500	0.50"	60%	39.24	11.5	2	480/3/60	55.00	95.37	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-12.11	14"	1700	0.50"	60%	44.36	13.0	2	480/3/60	55.00	95.27	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-13.1	10"	875	0.50"	50%	17.06	5.0	1	480/3/60	55.00	91.11	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-13.2	14"	1400	0.50"	60%	37.53	11.0	2	480/3/60	55.00	96.37	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-13.3	14"	1550	0.50"	60%	40.94	12.0	2	480/3/60	55.00	95.76	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-13.4	14"	1400	0.50"	60%	37.53	11.0	2	480/3/60	55.00	96.37	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-13.5	14"	1550	0.50"	60%	40.94	12.0	2	480/3/60	55.00	95.76	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-13.6	14"	1400	0.50"	60%	37.53	11.0	2	480/3/60	55.00	96.37	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-13.7	14"	1550	0.50"	60%	40.94	12.0	2	480/3/60	55.00	95.76	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-13.8	14"	1550	0.50"	60%	40.94	12.0	2	480/3/60	55.00	95.76	PRICE MODEL SDV OR APPROVED EQUAL	
VAV-13.9	14"	1800	0.50"	60%	47.77	14.0	2	480/3/60	55.00	95.95	PRICE MODEL SDV OR APPROVED EQUAL	

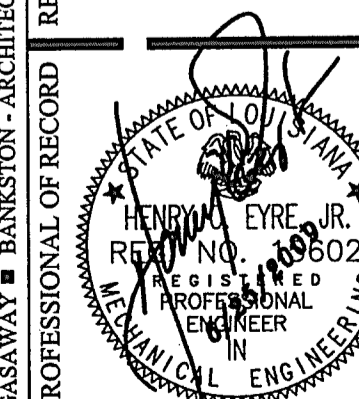
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SHEET NO. M402

3. CONDENSER FINS TO BE ALUMINUM