

ROOF TOP UNIT SCHEDULE

DRAWING CODE	BASIS OF DESIGN MANUFACTURER	ALTERNATE APPROVED MANUFACTURERS	BASIS OF DESIGN MODEL	SYSTEM TYPE	SUPPLY AIR FANS (2@5000CFM, 5.0HP)					RELIEF AIR FANS (2@5000CFM, 6.0HP)				SUPPLY AIR REFRIGERANT COIL				SUPPLY AIR GAS FURNACE				EFFICIENCY ELECTRICAL				WEIGHT	NOTES	ACCESSORIES									
					TOTAL AIRFLOW	OUTSIDE AIRFLOW	ESP	TSP	MOTOR	SUPPLY FAN QTY	AIRFLOW	ESP	MOTOR	RELIEF FAN QTY	NET TOTAL	NET SENSIBLE	EAT(db)	EAT(wb)	LAT(db)	LAT(wb)	AGA INPUT MAX	AGA INPUT MBH	AGA OUTPUT MAXIMUM (MBH)	GAS CONNECTION	INLET GAS PRESSURE				FUEL TYPE	EAT(db)	LAT(db)	EER	IEER	POWER SUPPLY (V/PH/Hz)	MCA	MOCP	
RTU01	TRANE		DIAKIN, YORK	RF05024E	AIR CONDITIONER	10000 CFM	3300 CFM	2.00 in-wg	3.90 in-wg	10.00 hp	2	10000 CFM	1.00 in-wg	12.00 hp	2	532130 Btu/h	318000 Btu/h	80.2 °F	67.8 °F	52.0 °F	50.4 °F	350	35	283.5	1"	0.9 ftH2O	PROPANE	43.4 °F	71.1 °F	10.7	16.4	460/60/3	130.5 A	150.0 A	8950 lb	1,2,3	A THRU R
<b>NOTES:</b> 1. REFER TO DIVISION SPECIFICATION SECTION 237416.13 - PACKAGED, LARGE-CAPACITY, ROOFTOP AIR-CONDITIONING UNITS FOR ADDITIONAL INFORMATION. 2. AMBIENT DESIGN TEMPERATURE: 95F DB. 3. OUTSIDE AIRFLOW SHALL REMAIN CONSTANT AS SCHEDULED DURING OCCUPIED SCHEDULE.																																					
<b>ACCESSORIES:</b> A. DOUBLE WALLED CONSTRUCTION WITH HINGED ACCESS DOORS. B. PLEATED MEDIA TYPE, 2 INCH THICKNESS, MERV 8. C. DOUBLE INLET, FORWARD CURVED SUPPLY FANS WITH 2 INCH DEFLECTION SPRING ISOLATION. D. INTERNAL, SHAFT GROUNDING RING. E. EXTENDED GREASE LINES. F. DOUBLE SLOPING STAINLESS STEEL DRAIN PAN. G. VARIABLE SPEED COMPRESSORS CAPABLE OF SPEED MODULATION FROM 25 HZ TO A MAXIMUM OF 100 HZ. H. 100 PERCENT MODULATING RETURN FAN WITH CONTROL SYSTEM TO MODULATE DISCHARGE DAMPERS TO CONTROL BUILDING PRESSURE. I. 0-100 PERCENT MODULATING COMPARITIVE ENTHALPY ECONOMIZER. J. FACTORY MOUNTED AIRFLOW MEASUREMENT STATION TO MAINTAIN CONSTANT OUTSIDE AIR. K. LOW LEAK ECONOMIZER DAMPERS HAVING A LEAKAGE RATE OF 1% AT 1.0 IN WC PRESSURE DIFFERENTIAL. L. FACTORY DDC MICROPROCESSOR CONTROLS. M. FACTORY BUILDING MANAGEMENT SYSTEM CONTROL INTERFACE. N. WIND RATED ROOF CURB WITH PE STAMPED CALCULATIONS AND 2" SPRING ISOLATION. O. CORROSION COATED CONDENSER AND EVAPORATOR COIL TO MEET ASTM B117 6000 HOUR SALT SPRAY TEST. P. PROVIDE 5 YEAR PARTS AND LABOR WARRANTY BY EQUIPMENT MANUFACTURER. Q. ULTRA MODULATING GAS HEAT WITH 10:1 TURNDOWN. R. PROVIDE SINGLE POINT POWER CONNECTION.																																					

VARIABLE AIR VOLUME TERMINAL UNIT SCHEDULE

DRAWING CODE	MANUFACTURER	MODEL NO.	ALTERNATE APPROVED MANUFACTURERS	TYPE	PRIMARY AIRFLOW		HEATING COIL CAP	AIRSIDE DESIGN FLOW				WATERSIDE				NOISE CRITERIA		UNIT DIMENSIONS		UNIT WEIGHT	NOTES	ACCESSORIES	
					MAX	MIN		DISCHARGE	EAT(db)	LAT(db)	PD	ROWS	FLOW	EWI	LWT	PD	DISCHARGE	RADIATED	TOP MOUNT HEIGHT				AFF ELEVATION
VAV01	TRANE	VCWF	TITUS, KRUEGER	SINGLE DUCT	330 CFM	115 CFM	5280 Btu/h	115 CFM	53.0 °F	95.6 °F	0.29 in-wg	2	1.00 GPM	130 °F	109 °F	0.2 fh2o	32	29	12" - 0"	12" - 0"	43 lb	1,2	A,B,C,D
VAV02	TRANE	VCWF	TITUS, KRUEGER	SINGLE DUCT	635 CFM	200 CFM	9598 Btu/h	200 CFM	53.0 °F	97.5 °F	0.53 in-wg	3	1.20 GPM	130 °F	112 °F	0.1 fh2o	27	25	12" - 0"	12" - 0"	51 lb	1,2	A,B,C,D
VAV03	TRANE	VCWF	TITUS, KRUEGER	SINGLE DUCT	730 CFM	440 CFM	19767 Btu/h	440 CFM	53.0 °F	94.7 °F	0.33 in-wg	3	1.60 GPM	130 °F	103 °F	0.5 fh2o	22	25	12" - 0"	12" - 0"	62 lb	1,2	A,B,C,D
VAV04	TRANE	VCWF	TITUS, KRUEGER	SINGLE DUCT	730 CFM	440 CFM	19767 Btu/h	440 CFM	53.0 °F	94.7 °F	0.33 in-wg	3	1.60 GPM	130 °F	103 °F	0.5 fh2o	22	25	12" - 0"	12" - 0"	62 lb	1,2	A,B,C,D
VAV05	TRANE	VCWF	TITUS, KRUEGER	SINGLE DUCT	730 CFM	440 CFM	19767 Btu/h	440 CFM	53.0 °F	94.7 °F	0.33 in-wg	3	1.60 GPM	130 °F	103 °F	0.5 fh2o	22	25	12" - 0"	12" - 0"	62 lb	1,2	A,B,C,D
VAV06	TRANE	VCWF	TITUS, KRUEGER	SINGLE DUCT	690 CFM	550 CFM	21844 Btu/h	550 CFM	53.0 °F	89.8 °F	0.30 in-wg	3	1.60 GPM	130 °F	101 °F	0.5 fh2o	21	25	12" - 0"	12" - 0"	51 lb	1,2	A,B,C,D
VAV07	TRANE	VCWF	TITUS, KRUEGER	SINGLE DUCT	585 CFM	175 CFM	7086 Btu/h	175 CFM	53.0 °F	90.6 °F	0.46 in-wg	3	1.00 GPM	130 °F	101 °F	0.0 fh2o	26	24	12" - 0"	12" - 0"	51 lb	1,2	A,B,C,D
VAV08	TRANE	VCWF	TITUS, KRUEGER	SINGLE DUCT	760 CFM	455 CFM	20083 Btu/h	455 CFM	53.0 °F	93.9 °F	0.35 in-wg	3	1.60 GPM	130 °F	103 °F	0.5 fh2o	22	25	12" - 0"	12" - 0"	62 lb	1,2	A,B,C,D
VAV09	TRANE	VCWF	TITUS, KRUEGER	SINGLE DUCT	795 CFM	475 CFM	20498 Btu/h	475 CFM	53.0 °F	93.0 °F	0.38 in-wg	3	1.60 GPM	130 °F	102 °F	0.5 fh2o	22	25	12" - 0"	12" - 0"	62 lb	1,2	A,B,C,D
VAV10	TRANE	VCWF	TITUS, KRUEGER	SINGLE DUCT	765 CFM	460 CFM	20189 Btu/h	460 CFM	53.0 °F	93.7 °F	0.35 in-wg	3	1.60 GPM	130 °F	103 °F	0.5 fh2o	22	25	12" - 0"	12" - 0"	62 lb	1,2	A,B,C,D
VAV11	TRANE	VCWF	TITUS, KRUEGER	SINGLE DUCT	810 CFM	485 CFM	20685 Btu/h	485 CFM	53.0 °F	92.6 °F	0.39 in-wg	3	1.60 GPM	130 °F	102 °F	0.5 fh2o	22	25	12" - 0"	12" - 0"	62 lb	1,2	A,B,C,D
VAV12	TRANE	VCWF	TITUS, KRUEGER	SINGLE DUCT	760 CFM	455 CFM	20083 Btu/h	455 CFM	53.0 °F	93.9 °F	0.35 in-wg	3	1.60 GPM	130 °F	103 °F	0.5 fh2o	22	25	12" - 0"	12" - 0"	62 lb	1,2	A,B,C,D
VAV13	TRANE	VCWF	TITUS, KRUEGER	SINGLE DUCT	795 CFM	480 CFM	20586 Btu/h	480 CFM	53.0 °F	92.8 °F	0.38 in-wg	3	1.60 GPM	130 °F	102 °F	0.5 fh2o	22	25	12" - 0"	12" - 0"	62 lb	1,2	A,B,C,D
VAV14	TRANE	VCWF	TITUS, KRUEGER	SINGLE DUCT	805 CFM	485 CFM	20685 Btu/h	485 CFM	53.0 °F	92.6 °F	0.38 in-wg	3	1.60 GPM	130 °F	102 °F	0.5 fh2o	22	25	12" - 0"	12" - 0"	62 lb	1,2	A,B,C,D
VAV15	TRANE	VCWF	TITUS, KRUEGER	SINGLE DUCT	290 CFM	90 CFM	4616 Btu/h	90 CFM	53.0 °F	100.6 °F	0.16 in-wg	2	1.00 GPM	130 °F	111 °F	0.2 fh2o	37	25	12" - 0"	12" - 0"	43 lb	1,2	A,B,C,D
<b>NOTES:</b> 1. REFER TO DIVISION 23 SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. 2. COIL CONNECTION AND CONTROL ENCLOSURE SHALL BE ON SAME SIDE OF THE UNIT. MAINTENANCE ACCESS SHALL BE FROM BOTTOM.																							
<b>ACCESSORIES:</b> A. PROVIDE 120 VAC TO 24 VAC CONTROL POWER TRANSFORMER, FACTORY INSTALLED BY VAV MANUFACTURER. B. FACTORY MOUNT THIRD PARTY CONTROLLER INSIDE A METAL ENCLOSURE. C. CASING REQUIREMENTS SHALL BE 1" DOUBLE WALL WITH R-3.8 INSULATION VALUE. D. CONNECT VAV BOX TO ELECTRICAL CONTRACTOR PROVIDED/INSTALLED OCCUPANCY SENSOR WITH SPARE SET OF DRY CONTACTS TO OPERATE VAV BOX IN STAND-BY MODE PER SEQUENCE OF OPERATIONS.																							

LOUVER SCHEDULE

DRAWING CODE	MANUFACTURER	MODEL	ALTERNATE APPROVED MANUFACTURERS	TYPE	FRAME	DESCRIPTION	MATERIAL	LOUVER DEPTH (IN)	SIZE (W x H)	SERVICE TYPE	Air Flow	PERFORMANCE RATINGS	WATER PENETRATION	NOTES	ACCESSORIES
												FREE AREA (SF)	S.P. LOSS (IN.H2O)	(OZ/SF)	
L01	RUSKIN	ELF637SDXH	VENT PRODUCTS, POTTORF	FIXED	EXTERIOR FLANGE	HORIZONTAL, DRAINABLE-BLADE	ALUMINUM	6	16"x16"	E/A, General Exhaust Air	200 CFM	0.77	.01	-	1,2,3 A,B
L02	RUSKIN	ELF637SDXH				HORIZONTAL, DRAINABLE-BLADE	ALUMINUM	6	16"x16"	S/A, Outside Air	200 CFM			-	
L03	RUSKIN	ELF637SDXH	VENT PRODUCTS, POTTORF	FIXED	EXTERIOR FLANGE	HORIZONTAL, DRAINABLE-BLADE	ALUMINUM	6	16"x16"	E/A, General Exhaust Air	200 CFM	0.77	.01	-	1,2,3 A,B
L04	RUSKIN	ELF637SDXH	VENT PRODUCTS, POTTORF	FIXED	EXTERIOR FLANGE	HORIZONTAL, DRAINABLE-BLADE	ALUMINUM	6	16"x16"	S/A, Outside Air	200 CFM	0.77	.01	-	1,2,3 A,B
L05	RUSKIN	ELF637SDXH	VENT PRODUCTS, POTTORF	FIXED	EXTERIOR FLANGE	HORIZONTAL, DRAINABLE-BLADE	ALUMINUM	6	48"x16"	E/A, General Exhaust Air	2000 CFM	3.28	.06	-	1,2,3 A,B
<b>NOTES:</b> 1. REFER TO DIVISION 23 SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. 2. FINISH AS SELECTED BY ARCHITECT FROM MANUFACTURERS FULL RANGE OF COLOR AND GLOSS. 3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION.															
<b>ACCESSORIES:</b> A. BIRD SCREENING (MATERIAL TO MATCH LOUVER MATERIAL). B. GRAVITY DAMPER, SEA-COAST CONSTRUCTION.															

POWER VENTILATOR SCHEDULE

DRAWING CODE	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL NO.	ALTERNATE APPROVED MANUFACTURERS	FAN TYPE	SERVICE	CAPACITIES AIRFLOW	ESP	ELECTRICAL										SONES	WEIGHT	NOTES	ACCESSORIES
								DRIVE TYPE	FAN RPM	MOTOR TYPE (ECM)	MOTOR SIZE (HP)	VOLT	PH	FREQUENCY	FLA	MOCP					
PV01	GREENHECK	G-123-VG	TWIN CITY, PENNBARRY	CENTRIFUGAL ROOF VENTILATORS	EXHAUST	1430 CFM	0.50 in-wg	DIRECT	1413	Yes	0.500 hp	115 V	1	60 Hz	6.4 A	15.0 A	12.3	50 lb	1	B,E,F,G,H	
PV02	GREENHECK	SP-A50-90-VG	TWIN CITY, PENNBARRY	CEILING-MOUNTED VENTILATORS	EXHAUST	70 CFM	0.25 in-wg	DIRECT	838	Yes	0.008 hp	115 V	1	60 Hz	0.3 A	15.0 A	0.9	15 lb	1	B,E	
PV03	GREENHECK	SQ-130-VG	TWIN CITY, PENNBARRY	IN-LINE CENTRIFUGAL VENTILATORS	EXHAUST	2000 CFM	0.38 in-wg	DIRECT	1611	Yes	0.750 hp	115 V	1	60 Hz	13.8 A	20.0 A	14.4	70 lb	1	B,C,I	
PV04	GREENHECK	SQ-70-VG	TWIN CITY, PENNBARRY	IN-LINE CENTRIFUGAL VENTILATORS	EXHAUST	200 CFM	0.25 in-wg	DIRECT	1585	Yes	0.338 hp	115 V	1	60 Hz	2.1 A	15.0 A	5	45 lb	1	A,B,C,D	
PV05	GREENHECK	SQ-70-VG	TWIN CITY, PENNBARRY	IN-LINE CENTRIFUGAL VENTILATORS	EXHAUST	200 CFM	0.25 in-wg	DIRECT	1585	Yes	0.338 hp	115 V	1	60 Hz	2.1 A	15.0 A	5	45 lb	1	A,B,C,D	
<b>NOTES:</b> 1. REFER TO DIVISION 23 SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.																					
<b>ACCESSORIES:</b> A. SAFETY GUARD ON INLET. B. GRAVITY DAMPER C. ISOLATORS AND BRACKETS. D. ON/OFF/AUTO SWITCH LOCATED PER PLANS. E. FAN TO RUN ON OCCUPIED SCHEDULE. REFER TO CONTROL SEQUENCES FOR ADDITIONAL INFORMATION. F. ROOF CURB G. BIRD SCREEN H. HIGH WIND RATING I. FAN TO RUN FROM SWITCH LOCATED PER ELECTRICAL PLANS.																					

ELECTRIC UNIT HEATER SCHEDULE

DRAWING CODE	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	ALTERNATE APPROVED MANUFACTURERS	DESCRIPTION TYPE	FAN	DISCHARGE	ELECTRIC COIL		SUPPLY AIR		FAN MOTOR SPEED (RPM)	MOTOR (HP)	ELECTRICAL		UNIT WEIGHT		RECOMMENDED MOUNTING HEIGHT	NOTES	ACCESSORIES		
							CAPACITY	STEPS	DESIGN	THROW			VOLT	PH	FLA	MCA				MOCAP	
EUH01	MARKEL	F1F5103N	QMARK, INDEECO	UNIT HEATER	PROPELLER	HORIZONTAL	3 KW	1	400 CFM	12	-	-	208 V	1	15.9 A	19.8 A	20.0 A	25 lb	9'-0"	1	A,B
EUH02	MARKEL	F1F5103N	QMARK, INDEECO	UNIT HEATER	PROPELLER	HORIZONTAL	3 KW	1	400 CFM	12	-	-	208 V	1	15.9 A	19.8 A	20.0 A	25 lb	9'-0"	1	A,B
<b>NOTES:</b> 1. REFER TO DIVISION 23 SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.																					
<b>ACCESSORIES:</b> A. FACTORY INSTALLED THERMOSTAT. B. MOUNTING HARDWARE FOR WALL MOUNT APPLICATION.																					



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