

VRF OUTDOOR UNIT SCHEDULE														
PLAN MARK	BASIS OF DESIGN		NOM. COOL. MBH	NOM. HEAT. MBH	EER	COP	ELECTRICAL				DIMENSIONS (IN.)			NOTES
	MFR	MODEL					# CONN.	VOLT/PH	MCA	REC. BKR	L	W	H	
HP-1	DAIKIN	VRV-HP144TNU-A	144	160	10.8	3.45	2	208/3	54	60	100"	30"	72"	1,2

NOTES:
A. NOMINAL COOLING CONDITIONS (TEST CONDITIONS ARE BASED ON AHRI 1230) INDOOR: 80° FD.B./67°FW.B./26.7°CD.B./19.4°CW.B.), OUTDOOR: 95°FD.B./85°CD.B.)
B. NOMINAL HEATING CONDITIONS (TEST CONDITIONS ARE BASED ON AHRI 1230) INDOOR: 70° FD.B. (21.1°CD.B.), OUTDOOR: 47°FD.B./43°FW.B. (8.3°CD.B./6.1°CW.B.)

NOTES:
1. UNIT IS A TWINNED ARRANGEMENT WITH 2 SEPARATE ELECTRIC FEEDS.
2. PROVIDE WITH MANUFACTURER EQUIPMENT SUPPORT FRAME STANDS WITH FEET AND ADJUSTABLE HEIGHT EQUAL TO MITSUBISHI BIG FOOT MODEL BASE FRAME.

VRF BRANCH CONTROL BOX SCHEDULE							
PLAN MARK	MANUFACTURER	MAX MBH PER PORT	# OF BRANCHES	ELECTRICAL			NOTES
				VOLT/PH	MCA	MOCP	
BC-1	MITSUBISHI	54	8	208/1	0.4	15	1

NOTES:
1. BRANCH CONTROLLER IS THE MAIN CONTROLLER.

VRF INDOOR UNIT SCHEDULE												
PLAN MARK	DESCRIPTION	BASIS OF DESIGN		AIRFLOW (CFM)	OA AIRFLOW (CFM)	ESP (WC.)	COOL. MBH	HEAT. MBH	ELECTRICAL			NOTES
		MFR	MODEL						VOLT/PH	MCA	MOCP	
AC-1	CONCEALED - DUCTED - MED. STATIC	MITSUBISHI	PEFY-P18NMAU-E	742	55	0.4"	18	20	208/1	2.9	15	1
AC-2	CONCEALED - DUCTED - MED. STATIC	MITSUBISHI	PEFY-P18NMAU-E	742	35	0.4"	18	20	208/1	2.9	15	1
AC-3	CONCEALED - DUCTED - MED. STATIC	MITSUBISHI	PEFY-P36NMAU-E	1,077	50	0.4"	36	40	208/1	2.9	15	1
AC-4	CEILING CASSETTE - 33x33	MITSUBISHI	PLFY-EP24NEMU	670	25	0.4"	18	20	208/1	0.4	15	1
AC-5	MULTI-POSITION AIR HANDLER	MITSUBISHI	PV FY-P24NAMU	625	36	0.4"	24	27	208/1	3.0	15	2
AC-6	MULTI-POSITION AIR HANDLER	MITSUBISHI	PV FY-P24NAMU	625	30	0.4"	24	27	208/1	3.0	15	2
AC-7	MULTI-POSITION AIR HANDLER	MITSUBISHI	PV FY-P18NAMU	495	30	0.4"	18	20	208/1	3.0	15	2

GENERAL NOTES:
A. AIRFLOW BASED ON HIGH SPEED FAN SETTING.

NOTES:
1. PROVIDE WITH WALL MOUNTED SIMPLE MA CONTROLLER #PAC-YT53 AND INTEGRAL CONDENSATE PUMP.
2. PROVIDE WITH WIRELESS REMOTE CONTROLLER AND ASSOCIATED RECEIVER(S) AND WIRING.

FAN SCHEDULE											
PLAN MARK	DESCRIPTION	BASIS OF DESIGN		CFM	E.S.P. (IN.WC)	DRIVE	ELECTRICAL			APPROX. ROOF/WALL OPENING (IN.)	NOTES
		MANUF.	MODEL				HP	VOLTAGE	PHASE		
VF-1	INLINE CENTRIFUGAL	GREENHECK	SQ-7-M1-VG	265	0.75	DIRECT	0.5	120 V	1		1

GENERAL NOTES:
A. ACCEPTABLE ALTERNATE MANUFACTURERS: COOK, CARNES & PENNBARRY

NOTES:
1. PROVIDE WITH INTEGRAL DISCONNECT SWITCH, SOLID STATE SPEED CONTROLLER AND GRAVITY BACKDRAFT DAMPER.
2. FAN CONTROLLED BY TIME CLOCK.

PLUMBING FIXTURE SCHEDULE							
PLAN MARK	FIXTURE TYPE	DESCRIPTION	CONNECTION SIZE (IN.)				NOTES
			SAN	VENT	CW	HW	
B1	DOUBLE BOWL SINK	AMERICAN STANDARD MODEL COLONY #22DB.6332283S.075, STAINLESS STEEL, COUNTERTOP MOUNT, DOUBLE BOWL, 3 HOLES, 4" CENTER FAUCET HOLES, DRAINS INCLUDED; AMERICAN STANDARD MODEL COLONY PRO #7074500.002 W/ 4" CENTER, LESS DRAIN, 3/8" SUPPLY AND STOP (TWO REQUIRED); 1-1/2" PVC "P" TRAP.	1.5	1.5	0.5	0.5	1

NOTES:
1. PROVIDE INSINKERATOR BADGER 1 GARBAGE DISPOSAL, 1/3 HP.

AIR INLETS AND OUTLETS SCHEDULE								
PLAN MARK	DESCRIPTION	BASIS OF DESIGN		MOUNTING	FINISH	MATERIAL	ACCESSORIES	NOTES
		MANUF.	MODEL					
A1	SQUARE FACE CEILING DIFFUSER, 24X24 FACE	TITUS	OMNI	LAY-IN	WHITE	STEEL	-	
B1	EGGGRATE RETURN GRILLE	TITUS	50F	LAY-IN	WHITE	ALUM.	-	
B2	EGGGRATE RETURN GRILLE	TITUS	50F	SURFACE	WHITE	ALUM.	OPP. BLADE DMPR.	
B3	EGGGRATE RETURN GRILLE, 24X24 OR 24X12 FACE	TITUS	50F	LAY-IN	WHITE	ALUM.	ROUND ADAPTER	
E1	LINEAR BAR DIFFUSER	TITUS	FL-20	SURFACE	WHITE	ALUM.	PLENUM	

GENERAL NOTES:
A. LAY-IN AIR DEVICES SHALL BE DESIGNED TO INSTALL INTO A 24"x24" OR 24"x48" ACT CEILING SYSTEM
B. ACCEPTABLE ALTERNATE MANUFACTURERS: PRICE, KREUGER AND TUTTLE & BAILEY
C. PROVIDE AUXILIARY MOUNTING FRAME FOR DEVICES INSTALLED WITHIN GYPSUM, PLASTER, TILE OR OTHER SIMILAR SURFACE
D. UNLESS OTHERWISE DESIGNATED ON PLANS, SUPPLY DIFFUSERS SHALL BE 4-WAY DIRECTIONAL DISCHARGE.

NOTES:
1.

DUCTWORK CONSTRUCTION SCHEDULE											
DUCT SYSTEM	SHAPE	PRESS. CLASS W.G.	MATERIAL	LINER			INSULATION			NOTES	
				THK.	TYPE	D	THK.	TYPE	D		JACKET
CONCEALED SUPPLY	RND/RECT	-1/2"	GS	-	-	-	1.5"	FGW	-	FFJ	2
CONCEALED RETURN	RND/RECT	-1/2"	GS	-	-	-	1.5"	FGW	-	FFJ	
CONCEALED RETURN IN PLENUMS	RND/RECT	-1/2"	GS	-	-	-	-	-	-	-	
CONCEALED SUPPLY AIR DEVICE RUNOUT	RND	+1"	IFD	-	-	-	1.5"	IFD	-	FFJ	1
OUTSIDE AIR	RND/RECT	-1"	GS	-	-	-	1.5"	FGW	-	FFJ	
EXHAUST	RND/RECT	-1"	GS	-	-	-	-	-	-	-	
SOUND BOOTH/PERFORMANCE ROOMS	RND/RECT	-1/2"	GS	1"	PFL	-	-	-	-	-	

GENERAL NOTES:
A. ALL PAINTING BY GENERAL CONTRACTOR.
B. ALL DUCT JOINTS AND SEAMS SHALL BE SEALED PER OMC CHAPTER 5.

SCHEDULE NOTES:
1. ROUND RUNOUTS TO AIR DEVICES SHALL BE EXTERNALLY INSULATED.
2. INCLUDES DUCTWORK ROUTED IN ABOVE CEILING PLENUM SPACES.

ABBREVIATIONS:
AIFD ACoustical INSULATED FLEX-DUCT FFG FOIL FACED JACKET PGGS PAINTGRIP GALVANIZED STEEL
ALUM ALUMINUM FGW FIBERGLASS WRAP PVCGS PVC COATED GALVANIZED STEEL
ABA ADHESIVE BACKED ALUMINUM FPW FIRE WRAP RECT RECTANGULAR
ASJ ALL SERVICE JACKET GS GALVANIZED STEEL RND ROUND
CS CARBON STEEL GSSP GALVANIZED STEEL SPIRAL PIPE SS STAINLESS STEEL
D DENSITY (PCF) IFD INSULATED FLEXIBLE DUCT TH THICKNESS
DWI DOUBLEWALL INSULATED MFF MATT FACED FIBERGLASS UFD UNISULATED FLEXIBLE DUCT
ETPS EXTRUDED POLYSTYRENE PFD PERFORATED FABRIC DUCT
FB FIBERGLASS BOARD PFL PREFORMED LINER

VENTILATION SCHEDULE								
ROOM NUMBER	ROOM NAME	OCCUPANCY TYPE	AREA (SF)	OCCUPANT DENSITY (#/1000SF)	PEOPLE AIR RATE (CFM/PERSON)	AREA AIR RATE (CFM/SF)	NUMBER OF PEOPLE	MINIMUM OA AIRFLOW (CFM)
104	PERFORMANCE STUDIO	OFFICE	300	5	5	0.06	2	28
104A	MECH. ROOM		115					
105	AIR STUDIO	OFFICE	276	5	5	0.06	2	27
106	PRODUCTION STUDIO	OFFICE	271	5	5	0.06	2	26
107	EDIT BOOTH	OFFICE	78	5	5	0.06	1	10
108	TECH CENTER	OFFICE	246	5	5	0.06	2	25
109	CORRIDOR	CORRIDOR	182	0	0	0.06	0	11
110	CORRIDOR	CORRIDOR	301	0	0	0.06	0	18
111	BREAK ROOM	BREAK	179	25	5	0.06	5	36
113	OFFICE	OFFICE	99	5	5	0.06	1	11
114	OFFICE	OFFICE	99	5	5	0.06	1	11
115	OFFICE	OFFICE	148	5	5	0.06	1	14
116	OFFICE	OFFICE	103	5	5	0.06	1	11
117	OFFICE	OFFICE	114	5	5	0.06	1	12
118	OFFICE	OFFICE	109	5	5	0.06	1	12
			2619					252

HVAC DESIGN CRITERIA	
GENERAL DESIGN INFORMATION	OUTDOOR DESIGN INFORMATION
BUILDING LOCATION: DAYTON, OH	SUMMER DRY BULB: 90.3°F (ASHRAE 0.4%) SUMMER WET BULB: 73.8°F (ASHRAE 0.4%) WINTER DRY BULB: 0.6°F (ASHRAE 99.6%)
INDOOR DESIGN INFORMATION	APPLICABLE CODES
INDOOR SUMMER DRY BULB: 75°F INDOOR SUMMER RH%: 60% MAX. INDOOR WINTER DRY BULB: 70°F INDOOR WINTER RH%: AMBIENT	MECHANICAL: OHIO MECHANICAL CODE 2024 PLUMBING: OHIO PLUMBING CODE 2024 ENERGY: ASHRAE 90.1-2019 VENTILATION: ASHRAE 62.1-2019



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Dayton, OH 45459



Rehab Project for:
DAYTON PUBLIC RADIO
130 W. Second St., Suite 250
Dayton, Ohio 45402
MT STUDIO PROJECT NUMBER: 24094

ISSUED / REVISED DATE
FOR PERMIT 06.25.2025

MECHANICAL SCHEDULES

M-002