

DUCTLESS SPLIT SCHEDULE

INDOOR FAN COIL UNIT												
MARK	SERVICE	SYSTEM TYPE	NOMINAL TONS	RATED COOLING CAPACITY (BTU/HR)	OUTDOOR RATED CLG. CONDITIONS (DB/WB DEG. F)	RATED HEATING CAPACITY (BTU/HR)	OUTDOOR RATED HTG. CONDITIONS (DB/WB DEG. F)	TYPE	CFM	POWER (V/PH/HZ)	MCA	DESIGN STANDARD (MANUFACTURER & MODEL)
AC-1/ACCU-1	OFFICE	HEAT PUMP	0.75	9,000	95/75	11,000	47/43	WALL CASSETTE	318	208-230/1/60	9	SMARTFLEX DHX09WB21S & DHX09CSB21S

SHELL AND TUBE HEAT EXCHANGER SCHEDULE

MARK	SERVICE	LOCATION	TUBE SIDE		SHELL SIDE			NUMBER PASSES	FOULING	REMARKS	
			PRESSURE	LBS CONDENSATE	EWI (°F)	LWT (°F)	GPM				WPD (PSI)
HX-1	HW EQUIPMENT	MECH ROOM	.7	.7642	140	180	380	2.15	2	.003	

CABINET UNIT HEATER SCHEDULE

MARK	CONFIGURATION	CFM	HEATING						FAN MOTOR		REMARKS	
			AIR		WATER				HP	V/PH/HZ		
			EAT	LAT	EWI	LWT	PD (FT)	GPM	MBH			
CUH-1	CEILING MOUNTED	335	.65	125	180	160	0.8	2.28	22	1/15	120/1/60	
CUH-2	CEILING MOUNTED	630	.65	125	180	160	1.2	4.8	48	1/12	120/1/60	

AIR SEPARATOR SCHEDULE

MARK	SERVICE	TYPE	MEDIUM	GPM	LINE SIZE	REMARKS
AS-1	HOT WATER	INLINE	HOT WATER	380	6	TACO AC06-125

CEILING DIFFUSER SCHEDULE

MARK	USE	TYPE	PERFORMANCE		MOUNTING	MATERIAL	FINISH	ACCESSORIES	MAKE/MODEL PRICE
			CFM	MAX. NC					
R-1	EXHAUST	AIRFOIL RETURN GRILLE	1000	.35	30/16	STEEL	WHITE		MODEL 60
R-2	EXHAUST	AIRFOIL RETURN GRILLE	1250	.35	36/16	STEEL	WHITE		MODEL 60
R-3	EXHAUST	AIRFOIL RETURN GRILLE	750	.35	24/16	STEEL	WHITE		MODEL 60
R-4	EXHAUST	SQUARE DIFFUSER	100	.35	24/24	STEEL	WHITE	PROVIDE WITH MANUAL DAMPER	MODEL PDR
S-4	SUPPLY	SQUARE DIFFUSER	100	.35	24/24	STEEL	WHITE	PROVIDE WITH MANUAL DAMPER	MODEL SPD

LOUVER SCHEDULE

MARK	LOCATION	FUNCTION	BLADE STYLE	WIDTH/HEIGHT (IN.)	FRAME DEPTH (IN.)	CFM	FREE AREA (SQFT)	PRESS. DROP (IN. WC)	MATERIAL	FINISH	ACCESSORIES
L-1	CLASSROOM	EXHASUT	LOUVER DAMPER	22/22	4	1000	1.4	.1	ALUMINUM	BRUSHED	BIRDSCREEN, ACTUATOR
L-2	CLASSROOM	EXHAUST	LOUVER DAMPER	26/22	4	1250	1.4	.1	ALUMINUM	BRUSHED	BIRDSCREEN, ACTUATOR
L-3	CLASSROOM	EXHAUST	LOUVER DAMPER	18/22	4	750	1.4	.1	ALUMINUM	BRUSHED	BIRDSCREEN, ACTUATOR
L-4	OFFICES	OUTDOOR AIR	LOUVER DAMPER	6/24	4	100	.6	.1	ALUMINUM	BRUSHED	BIRDSCREEN, ACTUATOR
L-5	OFFICES	EXHAUST	LOUVER DAMPER	6/24	4	100	.6	.1	ALUMINUM	BRUSHED	BIRDSCREEN, ACTUATOR

ENERGY RECOVERY VENTILATOR SCHEDULE

MARK	SERVICE	TYPE	AIR FLOW RANGE (CFM)	STATIC PRESSURE	ELECTRICAL DATA				BASIS OF DESIGN/MODEL
					V/PH/HZ	HP	MCA	MOCP	
ERV-1	OFFICES	BOX	100	0.5	120/1/60	.6	9	15	RENEWAIRE EV130

EXHAUST FAN SCHEDULE

MARK	TYPE	CFM	STATIC PRESSURE (IN. WG)	FAN RPM	SONES (MAX)	DRIVE	ELECTRICAL		MANUFACTURER/MODEL NUMBER	NOTES
							HP	VOLTS/PH/HZ		
EF-1	INLINE	1000	.125	638	3	DIRECT	3/4	120/1/60	GREENHECK SQ-140-VG	-
EF-2	INLINE	1250	.125	750	4.4	DIRECT	3/4	120/1/60	GREENHECK SQ-140-VG	-
EF-3	INLINE	750	.125	790	3	DIRECT	1/2	120/1/60	GREENHECK SQ-120-VG	-

AIR HANDLING UNIT SCHEDULE

AIR SIDE										WATER SIDE				FAN				BASIS OF DESIGN					
CUBIC FEET/MINUTE										TEMPERATURE		CAPACITY		WPD	MOTOR		ELECTRICAL						
TAG	SERVICE	TOTAL	O.A.	EAT	LAT	TSP	ESP	FLUID	EWI	LWT	GPM	MBH	FT H2O	TYPE	DRIVE	HP	BHP	VOLT	PH	HZ	MANUFACTURER	MODEL	COMMENTS
AHU-1	GYM	3600	750	53	102.3	1.7	1	WATER	180	146.4	12	196.6	1.76	CENTR	BELT	3	2.17	208	3	60	MAGIC AIRE	HBB40	1,2
AHU-2	GYM	3600	750	53	102.3	1.7	1	WATER	180	146.4	12	196.6	1.76	CENTR	BELT	3	2.17	208	3	60	MAGIC AIRE	HBB40	1,3

COMMENTS
1. 2" MERV 8 + 4" MERV 13 FILTERS
2. Left Hand Coil Connections
3. Right Hand Coil Connections

VENTILATION REQUIREMENTS

SPACE DESIGNATION	AREA AREA SF	OCCUPANTS /1000 SF	VENTILATION REQUIRED PER OCCUP.	UNCORRECTED VENTILATION	EFFICIENCY FACTOR	CORRECTED CFM
GYMNASIUM	3,744	7	26	20.00	0.18	1,500
NEW CAFETERIA	1,869	70	131	7.50	0.18	1,320
OLD CAFETERIA	2,400	70	168	7.50	0.18	1,690
STANDARD CLSRM	805	25	20	10.00	0.12	300
RESOURCE	575	25	14	10.00	0.12	260
KINDERGARTEN	1,104	25	28	10.00	0.12	410
TOTAL	10,497		387			5,130

UNIT VENTILATOR SCHEDULE

HEATING										COOLING																			
CUBIC FEET/MINUTE AIR										AIR SIDE		WATER SIDE				ENTERING AIR		LEAVING AIR				MBH		FAN MOTOR		BASIS OF DESIGN			
TAG	SERVICE	CONFIGURATION	NOMINAL	OPERATION	OUTSIDE	EAT	LAT	EWI	LWT	GPM	PD (FT)	MBH	TYPE	DBT	WBT	DBT	WBT	TOTAL	SENSIBLE	APD	TYPE	HP	V/PH/HZ	MANUFACTURER	MODEL	Notes			
UV-1	CLASSROOMS	VERTICAL	1250	1000	380	45	100	180	138	3.30	1.39	67.19	VRF	78.8	66.7	59	57	32.40	20.70		ECM	1/2	120/1/60	MAGIC AIR	MAUVF4	1,3,4,5			
UV-2	CLASSROOMS	VERTICAL	1500	1250	510	43	101	180	140	4.15	2.3	83.00	VRF	79.3	67.0	59	56	42.20	26.70		ECM	1/2	120/1/60	MAGIC AIR	MAUVF5	1,3,4,5			
UV-3	CLASSROOMS	VERTICAL	1000	750	260	47	103	180	145	3.10	4.18	53.00	VRF	78.2	66.4	58	55	28.60	18.00		ECM	1/3	120/1/60	MAGIC AIR	MAUVF3	1,3,4,5			
UV-4	CAFETERIA	VERTICAL	1500	1500	675	40	112	180	137	5.30	4	110.00	VRF	80.1	67.3	59	55	44.00	28.60		ECM	1/2	120/1/60	MAGIC AIR	MAUVF5	2,3,4,5			

COMMENTS
1. 2 ROW HOT WATER COIL
2. 3 ROW HOT WATER COIL
3. 4 ROW RA10-A COOLING COIL FOR FUTURE CONNECTION TO VRF ACCU.
4. 2" MERV 10 FILTER
5. PROVIDE 24" EXTENSION/UTILITY CABINET ON THE RIGHT SIDE FOR FUTURE AC CONTROL PANEL AND EXPANSION VALVE.

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SED CONTROL NUMBERS
MILLER ES # 50-01-08-03-0-001-022

NANUET
MILLER ES
HYDRONIC
CONVERSION
2020

103 Church St, Nanuet,
NY 10954

REVISIONS

No.	Description	Date
Δ	ADDENDUM 1	9/31/2022

ISSUED: ISSUE FOR BID
DATE: MARCH 15, 2021
SCALE: As indicated
SHEET NAME:
HVAC SCHEDULES
SHEET NUMBER:
MES-M601

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