

ENERGY RECOVERY UNIT SCHEDULE																																																									
SUPPLY FAN						EXHAUST FAN						SUPPLY FILTERS						EXHAUST FILTERS						COOLING DATA										HEATING DATA										TOTAL ENERGY WHEEL				ELECTRICAL DATA									
MARK	SERVICE	AIRFLOW (CFM)	FAN TYPE	FAN RPM	ESP	MOTOR HP	AIRFLOW (CFM)	FAN TYPE	FAN RPM	ESP	Motor HP	TYPE	THICKNESS	EFFICIENCY	MAX AIR PD	TYPE	THICKNESS	EFFICIENCY	MAX AIR PD	TOT CAPACITY	SENS CAPACITY	CFM	EAT (DB)	EAT (WB)	LAT (DB)	LAT (WB)	ROWS	EWT	LWT	CHW FLOW RATE	MAX WATER PD (FT)	TOT CAPACITY	CFM	OA EAT (DB)	OA LAT (DB)	ROWS	HW FLOW RATE	MAX WATER PD (ft)	EFFICIENCY	MAX SA PD	MAX EA PD	HP	MCA	MOCP	VOLTAGE	PH	FREQ	APPROX. WEIGHT	MFR.	MODEL	COMMENTS						
ERU-1	B1 LAB	18140	PLENUM	2227	4.00 in-wg	40 hp	13080	PLENUM	1715	2.90 in-wg	20 hp	PLEATED	4"	MERV 13	0.75 in-wg	PLEATED	4"	MERV 8	0.75 in-wg	620500 Btu/h	461200 Btu/h	16400	81 °F	66 °F	55 °F	54 °F	6	44 °F	54 °F	124 GPM	9.5	487000 Btu/h	16400	30 °F	57 °F	1	25 GPM	2.90	0.86	0.59 in-wg	0.94 in-wg	0.5	124 A	150 A	480 V	3	60 Hz	5000 lb	SEMCO	EPHC-18	1 2 3 4 5 6 7 8						

- 1 HOUSEKEEPING PAD

2 DISCHARGE AIR TEMPERATURE TO BE 55 DEGREES YEAR ROUND

3 ECONOMIZER AT 100% O.A.
- 4 AIRFLOW MONITOR STATION AT O.A. INTAKE

5 MODULATING DAMPERS AT R.A. AND O.A. CONNECTIONS

6 VARIABLE FREQUENCY DRIVE
- 7 AVAILABLE ON EMERGENCY POWER

8 UV LIGHTS SHALL BE INSTALLED DIRECTLY UPSTREAM OF THE COOLING COIL

AIR COOLED CHILLER SCHEDULE																											
MARK	TYPE	NOMINAL CAPACITY (TONS)	NPLV	EVAPORATOR DATA					CONDENSER DATA					COMPRESSOR					ELECTRICAL					APPROX WEIGHT (lbs.)	MFR	MODEL	COMMENTS
				FLUID TYPE	FLOW	EWT	LWT	MAX WATER PD	CAPACITY	DB	WB	FANS QTY	HP (EA)	QTY	KW (TOTAL)	REFRIG TYPE	MIN OA TEMP	MCA	MOCP	VOLTAGE	PH	FREQ	MAX SOUND LEVELS				
ACC-1	AIR COOLED	80	14.7	WATER	124 GPM	54 °F	44 °F	1400 Btu/h	67880 Btu/h	95 °F	79 °F	4	1 hp	2	60.4	410A	25 °F	130 A	150 A	480 V	3	60 Hz	(2)	300	YORK	YCAL005EE46	1

- 1 SUPPORT PAD. REFER TO STRUCTURAL PLANS
- 2 MAX. SOUND POWER SHALL BE 95 LWA AND MAX. SOUND PRESSURE SHALL BE 70 dBA at 30 FT.

SPLIT SYSTEM AC UNIT SCHEDULE																								
CONDENSER (OUTDOOR UNIT)											EVAPORATOR (INDOOR UNIT)													
Mark	Service	POWER						APPROX. WEIGHT (LBS)	EER	AIRFLOW (CFM)	TOT CAPACITY	SENS CAPACITY	EAT				ELECTRICAL				APPROX. WEIGHT (LBS)	MFR	MODEL	COMMENTS
		MCA	MOCP	VOLTAGE	PH	FREQ	(DB)						(WB)	MCA	VOLTAGE	PH	FREQ							
SSAC-1	TELECOM	14 A	15 A	208 V	1	60 Hz	150	19.2	500	17200 Btu/h	17200 Btu/h	80 °F	67 °F	1 A	208 V	1	60 Hz	25	MITSUBISHI	MUY-GE18NA (OUTDOOR); MSY-GE18NA (INDOOR)	1 2 3 4 5			

- 1 SET THERMOSTAT HIGHER THAN VAV BOX THERMOSTAT
- 2 ROOF RAILS FOR OUTDOOR UNIT
- 3 UNIT SHALL BE CAPABLE OF LOW AMBIENT OPERATION
- 4 AVAILABLE ON EMERGENCY POWER
- 5 WALL MOUNTED EVAPORATOR, MOUNTED ABOVE DOOR

EXHAUST FAN SCHEDULE															MFR	MODEL	COMMENTS			
MARK	SERVICE	FAN TYPE	FAN DRIVE	AIRFLOW (CFM)	FAN RPM	ESP	ELECTRICAL				SOUND LEVEL (SONES)	APPROX WEIGHT (LB)								
							MOTOR POWER	VOLTAGE	PH	FREQ										
EF-1	GROSSING STATION	CENTRIFUGAL ROOF MTD	BELT	650	1876	2 in-wg	0.5 hp	120 V	1	60 Hz	18	100	GREENHECK	GB-141HP-S	1	2	3	4	5	6
EF-2	TOILET ROOMS	CENTRIFUGAL ROOF MTD	BELT	225	1657	0.75 in-wg	0.25 hp	120 V	1	60 Hz	10	100	GREENHECK	GB-071-4	1	2	3	4	5	6

- 1 ROOF CURB
- 2 BACKDRAFT DAMPER
- 3 INTERLOCK WITH BAS
- 4 COMBINATION STARTER / DISCONNECT
- 5 INTERLOCK WITH BAS
- 6 AVAILABLE ON EMERGENCY POWER

STEAM TO STEAM HUMIDIFIER SCHEDULE																	
		PRESSURE STEAM		STEAM TO HUMIDIFIER		STEAM DISTRIBUTION					POWER				MFR	MODEL	COMMENTS
		INLET PRESSURE	CAPACITY (LB/HR)	DISCHARGE PRESSURE	NET CAPACITY (LB/HR)	AIRFLOW (CFM)	MAX ABSORPTION DIST	HEIGHT	WIDTH	HEADER DISTANCE	ELECTRICAL LOAD	VOLTAGE	PH	FREQ			
MARK	SERVICE																
H-1	ERU-1	15 psi	250	12 psi	125	16400	0'-8"	66"	58"	0'-6"	0.65 kW	120V	1	60 Hz	NORTEC	SETC-250 / SAME	1 2 3

- 1 PROVIDE HUMIDIFIER WITHIN ENERGY RECOVERY UNIT INCLUDING ALL ASSOCIATED ACCESSORIES DETAILED ON DETAIL 3 ON MH7-103
- 2 PROVIDE STEAM TO STEAM HUMIDIFIER INCLUDING STANDS TO ALLOW GRAVITY DRAINING TO CONDENSATE RECEIVER
- 3 PRESSURE REDUCING VALVE (PRV) SHALL BE SIZED TO PROVIDE MAX 15PSI STEAM TO UNIT.

GRAVITY RELIEF VENTILATOR SCHEDULE										
MARK	AIRFLOW	MAX AIR	THROAT SIZE		HOOD SIZE			MFR	MODEL	COMMENTS
	(CFM)	PD	LENGTH	WIDTH	LENGTH	WIDTH	HEIGHT			
GRV-1	13080	0.60 in-wg	46"	22"	64"	40"	19"	GREENHECK	FGR	1 2 3

- 1 ROOF CURB
- 2 BIRDSCREEN
- 3 BACKDRAFT DAMPER

BUFFER TANK SCHEDULE								
MARK	SERVICE	TYPE	TANK VOLUME	MAX OPERATING PRESSURE	APPROX WEIGHT	MFR	MODEL	COMMENTS
BT-1	CHW	FLOOR MTD.	120 gal	125 psi	450 lb	WESSELS	CBT-120	1 2

- 1 FLOOR MOUNTED
- 2 AIR SEPARATOR WITH DOW INLET

STEAM POWERED CONDENSATE PUMP AND RECEIVER SCHEDULE										
MARK	RECEIVER		PUMP DATA				MFR	MODEL	COMMENTS	
	STORAGE	SUCTION SIZE	MOTIVE STEAM (psi)	CAPACITY (lb/hr)	HEAD	DISCHARGE SIZE				
CP-1	8.0 gal	2"	50	1400	40.00 ftH2O	1"	SPIRAX SARCO	PPEC-1B	1	

- 1 HOUSEKEEPING PAD

PLATE & FRAME HEAT EXCHANGER SCHEDULE												
MARK	SERVICE	CAPACITY	STEAM SIDE			HOT WATER SIDE				MFR	MODEL	COMMENTS
			INLET PRESSURE	FLOW RATE (LB/HR)	EWT	LWT	FLOW RATE	MAX WATER PD				
HX-1	HOT WATER	792500 Btu/h	50 psi	870.42	150 °F	180 °F	54 GPM	16.4 ftH2O	B & G	GPX-P7	1	

- 1 MOUNT ON FLOOR STAND HIGH ENOUGH TO ALLOW CONDENSATE TO FLOW BY GRAVITY TO PUMP CP-1.

PUMP SCHEDULE																
MARK	SERVICE	TYPE	FLUID TYPE	FLOW	HEAD (FT)	MINIMUM EFFICIENCY	SUCTION SIZE	DISCHARGE SIZE	MOTOR POWER	MOTOR RPM	ELECTRICAL			MFR	MODEL	COMMENTS
											VOLTAGE	PH	FREQ			
HWP-1	HOT WATER	BASE MOUNTED	WATER	54 GPM	30	55%	2"	1 1/2"	1.5 hp	1750	480 V	3	60 Hz	B & G	1510 1-1/2 BC	1 2 3 4
HWP-2	HOT WATER	BASE MOUNTED	WATER	54 GPM	30	55%	2"	1 1/2"	1.5 hp	1750	480 V	3	60 Hz	B & G	1510 1-1/2 BC	1 2 3 4
CHWP-1	CHILLED WATER	BASE MOUNTED	WATER	124 GPM	60	66%	2 1/2"	2"	5.0 hp	1750	480 V	3	60 Hz	B & G	1510 2BC	1 2 3 4
CHWP-2	CHILLED WATER	BASE MOUNTED	WATER	124 GPM	60	66%	2 1/2"	2"	5.0 hp	1750	480 V	3	60 Hz	B & G	1510 2BC	1 2 3 4

- 1 VARIABLE FREQUENCY DRIVE
- 2 1 PUMP STAND-BY. ROTATE PUMPS WEEKLY
- 3 HOUSEKEEPING PAD
- 4 (1) PUMP OF EACH PAIR SHALL BE AVAILABLE ON EMERGENCY POWER

VARIABLE AIR VOLUME BOX SCHEDULE																		POWER				COMMENTS
MARK	INTAKE SIZE	STATIC PRESSURE	MAX AIRFLOW (CFM)	HEATING AIRFLOW (CFM)	HEATING CAPACITY	EAT	LAT	FLOW	MAX WATER PD	EWT	LWT	VOLTAGE	PH	FREQ								
VAV-1	6"	0.01 in-wg	150	130	4610.0 Btu/h	55 °F	91 °F	0.5 GPM	2.00 H2O	180 °F	160 °F	120 V	1	60 Hz	1 2 3							
VAV-2	6"	0.01 in-wg	150	130	3910.0 Btu/h	55 °F	91 °F	0.5 GPM	2.00 H2O	180 °F	160 °F	120 V	1	60 Hz	1 2 3 4							
VAV-3	6"	0.01 in-wg	150	130	4210.0 Btu/h	55 °F	91 °F	0.5 GPM	2.00 H2O	180 °F	160 °F	120 V	1	60 Hz	1 2 3							
VAV-4	10"	0.01 in-wg	1120	350	14750.0 Btu/h	55 °F	95 °F	1.5 GPM	2.00 H2O	180 °F	160 °F	120 V	1	60 Hz	1 2 3							
VAV-5	12"	0.01 in-wg	1630	630	24810.0 Btu/h	55 °F	91 °F	2.5 GPM	2.00 H2O	180 °F	160 °F	120 V	1	60 Hz	1 2 3							
VAV-6	12"	0.01 in-wg	1390	350	14950.0 Btu/h	55 °F	94 °F	1.5 GPM	2.00 H2O	180 °F	160 °F	120 V	1	60 Hz	1 2 3							
VAV-7	10"	0.01 in-wg	1165	500	19100.0 Btu/h	55 °F	92 °F	2.0 GPM	2.00 H2O	180 °F	160 °F	120 V	1	60 Hz	1 2 3							
VAV-8	10"	0.01 in-wg	885	390	14830.0 Btu/h	55 °F	91 °F	1.5 GPM	2.00 H2O	180 °F	160 °F	120 V	1	60 Hz	1 2 3							
VAV-9	6"	0.01 in-wg	150	130	3910.0 Btu/h	55 °F	91 °F	0.5 GPM	2.00 H2O	180 °F	160 °F	120 V	1	60 Hz	1 2 3							
VAV-11	16"	0.01 in-wg	2500	720	29940.0 Btu/h	55 °F	94 °F	3.0 GPM	2.00 H2O	180 °F	160 °F	120 V	1	60 Hz	1 2 3							
VAV-12	10"	0.01 in-wg	800	370	13890.0 Btu/h	55 °F	93 °F	1.5 GPM	2.00 H2O	180 °F	160 °F	120 V	1	60 Hz	1 2 3							
VAV-13	8"	0.01 in-wg	455	260	9220.0 Btu/h	55 °F	91 °F	1.0 GPM	2.00 H2O	180 °F	160 °F	120 V	1	60 Hz	1 2 3							
VAV-14	14"	0.01 in-wg	1875	590	24930.0 Btu/h	55 °F	94 °F	2.5 GPM	2.00 H2O	180 °F	160 °F	120 V	1	60 Hz	1 2 3 4							
VAV-15	8"	0.01 in-wg	575	250	9550.0 Btu/h	55 °F	92 °F	1.0 GPM	2.00 H2O	180 °F	160 °F	120 V	1	60 Hz	1 2 3							
VAV-16	8"	0.01 in-wg	655	250	9950.0 Btu/h	55 °F	92 °F	1.0 GPM	2.00 H2O	180 °F	160 °F	120 V	1	60 Hz	1 2 3							
VAV-17	10"	0.01 in-wg	785	380	14060.0 Btu/h	55 °F	91 °F	1.5 GPM	2.00 H2O	180 °F	160 °F	120 V	1	60 Hz	1 2 3							
VAV-18	6"	0.01 in-wg	420	260	9020.0 Btu/h	55 °F	91 °F	1.0 GPM	2.00 H2O	180 °F	160 °F	120 V	1	60 Hz	1 2 3							