

RADIATION SCHEDULE - HOT WATER																
UNIT TYPE	CAPACITY (BTU/H/LF)	FLOW RATE (GPM/LF)	AVERAGE WATER TEMP. (DEG. F)	ENT. AIR TEMP. (DEG. F)	ENT. WATER TEMP. (DEG. F)	LVG. WATER TEMP. (DEG. F)	HEATING ELEMENT				ENCLOSURE			MANUFACTURER & MODEL No.	REMARKS	
							TUBE SIZE (IN.)	FIN SIZE (IN.)	TIERS	FINS/FT.	MIN WATER VELOCITY (FT/MIN)	HEIGHT	WIDTH			MOUNTING HEIGHT TO TOP
FT-A	884	.088	170	70	180	160	3/4	2.75x4	1	48	3	12"	3.75"	12"	SIGMA SBBN-12S	1,2

- REMARKS:  
 1. PROVIDE WITH 16 GA STEEL ENCLOSURE, TRIM, AND END CAPS.  
 2. DETERMINE ZONE FLOW RATES BY MULTIPLYING TOTAL ZONE FIN TUBE RADIATION LENGTH BY THE SCHEDULED GPM/LF.

CABINET UNIT HEATER SCHEDULE - HOT WATER																
UNIT NO.	LOCATION	TYPE	CAPACITY (MBH)	AIR SIDE			WATER SIDE			FAN MOTOR				MANUFACTURER & MODEL No.	REMARKS	
				ENT. AIR TEMP. (DEG. F)	LVG. AIR TEMP. (DEG. F)	FLOW RATE (CFM)	ENT. WATER TEMP. (DEG. F)	LVG. WATER TEMP. (DEG. F)	FLOW RATE (GPM)	WATER P.D. (FT. HD)	ENT. WATER TEMP. (DEG. F)	LVG. WATER TEMP. (DEG. F)	RPM			HP
CUH-1	VARIOUS	VERTICAL	13.9	230	60	116	1.5	.15	180	160	1050	1/15	120	1	VULCAN FS-1005-02	1

- REMARKS:  
 1. ECM MOTOR.

UNIT HEATER SCHEDULE - HOT WATER																	
UNIT NO.	LOCATION	TYPE	CAPACITY (MBH)	AIR SIDE			WATER SIDE			FAN MOTOR				MAXIMUM MOUNTING HEIGHT	MANUFACTURER & MODEL No.	REMARKS	
				ENT. AIR TEMP. (DEG. F)	LVG. AIR TEMP. (DEG. F)	FLOW RATE (CFM)	ENT. WATER TEMP. (DEG. F)	LVG. WATER TEMP. (DEG. F)	FLOW RATE (GPM)	WATER P.D. (FT. HD)	ENT. WATER TEMP. (DEG. F)	LVG. WATER TEMP. (DEG. F)	RPM				WATTS
UH-1	VARIOUS	HORIZONTAL	6.9	245	60	91	0.8	0.8	180	160	1550	16	115	1	8'-0"	STERLING MODEL HS-108A	1,2

- REMARKS:  
 1. PROVIDE WITH LINE VOLTAGE THERMOSTAT.  
 2. PROVIDE WITH OSHA FAN GUARD.

FAN SCHEDULE																	
UNIT NO.	LOCATION	SERVICE	FAN CHARACTERISTICS						MOTOR CHARACTERISTICS							MANUFACTURER & MODEL No.	REMARKS
			TYPE	BLADE TYPE	CFM	S.P. (IN. WC)	SONES	DRIVE	WATTS	VOLTS	HZ	PHASE	STARTER	RPM	HP		
EF-A	BATHROOM	EXHAUST	CEILING	FC	80	0.1	<0.3	DIRECT	6.0	120	60	1	BY EC	PANASONIC WHISPERGREEN SELECT FV-051VKS1	1,3,4,5		
EF-B	KITCHEN	EXHAUST	CEILING	FC	100	0.1	<0.3	DIRECT	7.2	120	60	1	BY EC	PANASONIC WHISPERVALUÉ DC FV-0510VS1	2,3,4		

- REMARKS:  
 1. TWO SPEED, CONTINUOUS OPERATION. SET LOW SPEED FOR 30 CFM FOR 1 BEDROOM UNITS, 45 CFM FOR 2 BEDROOM UNITS AND 60 CFM FOR 3 BEDROOM UNITS TO SATISFY ASHRAE 62.2 REQUIREMENTS.  
 2. DC BRUSHLESS MOTOR.  
 3. INTEGRAL BACKDRAFT DAMPER.  
 4. PROVIDE A FACTORY RADIATION DAMPER FOR ALL APARTMENT FANS WHOSE DUCTWORK PENETRATES A DEMISING, WALL, FLOOR, OR CEILING.  
 5. EC MOTOR (ELECTRONICALLY COMMUTATED)

BOILER SCHEDULE - HOT WATER - CONDENSING - GAS																						
UNIT NO.	LOCATION	SERVICE	MINIMUM INPUT MBH	MAXIMUM INPUT MBH	MAXIMUM OUTPUT MBH	TURNDOWN	GAS FIRING RATE (CFH)	MIN. GAS PRESSURE BEFORE REGULATOR	FLUID	ENT. WATER TEMP. (DEG. F)	LVG. WATER TEMP. (DEG. F)	FLOW RATE GPM	DESIGN P.D. (FT. HD)	MAX WORKING PRESSURE (PSI)	RELIEF VALVE SETTING (PSI)	EFF. %	ELECTRICAL			MANUFACTURER & MODEL No.	REMARKS	
																	VOLTS	HZ	PHASE			
B-1	MECH RM	PERIMETER HOT WATER	160	800	752	5:1	200	8	WATER	160	180	74	33	160	50	94	120	60	1	2.7	LOCHINVAR KB-801	1,2,3,4,5,6,7
B-2	MECH RM	PERIMETER HOT WATER	160	800	752	5:1	200	8	WATER	160	180	74	33	160	50	94	120	60	1	2.7	LOCHINVAR KB-801	1,2,3,4,5,6,7
B-3	MECH RM	PERIMETER HOT WATER	160	800	752	5:1	200	8	WATER	160	180	74	33	160	50	94	120	60	1	2.7	LOCHINVAR KB-801	1,2,3,4,5,6,7

- REMARKS:  
 1. PROVIDE WITH OUTDOOR TEMPERATURE SENSOR KIT WITH OUTDOOR RESET CONTROL.  
 2. PROVIDE WITH FLANGE AND VENT TERMINATION KIT.  
 3. PROVIDE WITH CONDENSATE NEUTRALIZER KIT.  
 4. PROVIDE WITH SYSTEM SUPPLY/RETURN SENSORS.  
 5. PROVIDE WITH LOW WATER CUT OFF W/ MANUAL RESET.  
 6. PROVIDE WITH FLOW SWITCH, MANUAL RESET HIGH LIMIT, TEMPERATURE AND PRESSURE GAUGE, STRAINER, AND RELIEF VALVE (FIELD INSTALLED).  
 7. PROVIDE WITH M3 FIRING CODE.

PUMP SCHEDULE																
PUMP NO.	LOCATION	SERVICE	TYPE	PUMP CAPACITY		MOTOR CHARACTERISTICS						FLUID TEMP. (DEG. F)	MIN. PUMP EFF. (%)	MAX. BHP	MANUFACTURER & MODEL No.	REMARKS
				FLOW (GPM)	TOTAL HEAD IN FEET	MAX WWP	RPM	HP	(W)	VOLTS	PHASE					
P-1	MECH RM 101	PERIMETER HOT WATER-BLDG A	INLINE	90	60	175	3209	3	208	3	ASD	180	65.9	2.07	BELL & GOSSETT e-90 1.25AA8	-
P-2	MECH RM 101	PERIMETER HOT WATER-BLDG A	INLINE	90	60	175	3209	3	208	3	ASD	180	65.9	2.07	BELL & GOSSETT e-90 1.25AA8	-
P-3	MECH RM 101	PERIMETER HOT WATER-BLDG B	INLINE	120	55	175	3340	3	208	3	ASD	180	63.6	2.22	BELL & GOSSETT e-90 2AAC	-
P-4	MECH RM 101	PERIMETER HOT WATER-BLDG B	INLINE	120	55	175	3340	3	208	3	ASD	180	63.6	2.22	BELL & GOSSETT e-90 2AAC	-
P-5	MECH RM 101	BLOWER COIL BC-1	INLINE	8.6	15	175	3029	(58.8)	115	1	INTEGRAL ASD	180	85	-	GRUNDFOS MAGNA3 32-60	1,2
BP-1	MECH RM	BOILER B-1	INLINE	74	40	174	3965	(1011)	208	1	INTEGRAL ASD	180	94	-	GRUNDFOS MAGNA3 65-150	1,2
BP-2	MECH RM	BOILER B-2	INLINE	74	40	174	3965	(1011)	208	1	INTEGRAL ASD	180	94	-	GRUNDFOS MAGNA3 65-150	1,2
BP-3	MECH RM	BOILER B-2	INLINE	74	40	174	3965	(1011)	208	1	INTEGRAL ASD	180	94	-	GRUNDFOS MAGNA3 65-150	1,2

- REMARKS:  
 1. EC MOTOR (ELECTRONICALLY COMMUTATED)  
 2. INTEGRATED ADJUSTABLE SPEED DRIVE

BLOWER COIL UNIT SCHEDULE - HOT WATER																					
UNIT NO.	SUPPLY FAN				HEATING COIL (HOT WATER)				ELECTRICAL				MANUFACTURER & MODEL No.	REMARKS							
	AIR FLOW (CFM)	EXT. STATIC (IN. WC)	MOTOR HP	STARTER	CAPACITY (MBH)	ENT. AIR TEMP. (DEG. F)	EAT. (DEG. F)	MAX. FACE VEL. (FPM)	WATER FLOW (GPM)	WATER P.D. (FT. HD)	ENT. WATER TEMP. (DEG. F)	LVG. WATER TEMP. (DEG. F)			ROWS	VOLTS	PHASE	FLA	MCA		
BC-1	1000	0.75	(2) 1/3	MANUAL	85.6	-	0	68	234	8.6	2.4	180	160	1	(10 FPI)	208	1	5.6	6.3	ENVIROTEC MODEL HPP1B	1,2

- REMARKS:  
 1. EC MOTOR.  
 2. PROVIDE WITH 2' MERV 13 FILTER.

DUCTLESS SPLIT SYSTEM AIR CONDITIONING UNIT SCHEDULE																				
UNIT NO.	LOCATION			INDOOR UNIT				OUTDOOR UNIT			ELECTRICAL			MANUFACTURER & MODEL No.			REMARKS			
	INDOOR	OUTDOOR	INDOOR	UNIT TYPE	CFM	RATED COOLING CAPACITY (MBH)	RATED MINIMUM CAPACITY (MBH)	EAT (DEG. F)	REFRIGERANT	EAT (DEG. F)	EFFICIENCY (SEER)	VOLTS	PHASE	MCA	INDOOR UNIT	OUTDOOR UNIT				
DSS-1A			LIVING ROOM	ROOF	WALL MOUNTED	307	12.0	4.8	80.0	67.0	R-410A	95.0	75.0	17.9	208	1	15.8	DAIKIN FTXS12LVJU	DAIKIN 2MXS18NVJU	1,2,3,4
DSS-1B	ACCU-1		BEDROOM 1	ROOF	WALL MOUNTED	261	7.0	-	80.0	67.0	R-410A	95.0	75.0	18.9	208	1	15.8	DAIKIN CTS07LVJU	DAIKIN 2MXS18NVJU	1,2,3,4
DSS-2A			LIVING ROOM	ROOF	WALL MOUNTED	307	12.0	4.8	80.0	67.0	R-410A	95.0	75.0	17.9	208	1	15.8	DAIKIN FTXS12LVJU	DAIKIN 2MXS18NVJU	1,2,3,4
DSS-2B	ACCU-2		BEDROOM 1	ROOF	WALL MOUNTED	261	7.0	-	80.0	67.0	R-410A	95.0	75.0	18.9	208	1	15.8	DAIKIN CTS07LVJU	DAIKIN 2MXS18NVJU	1,2,3,4
DSS-3A			LIVING ROOM	ROOF	WALL MOUNTED	307	12.0	4.8	80.0	67.0	R-410A	95.0	75.0	23	208	1	8.8	DAIKIN FTXS12LVJU	DAIKIN RXS12LVJU	1,2,3,4

- REMARKS:  
 1. CONDENSATE PUMP.  
 2. WIND BAFFLE.  
 3. SNOW HOOD.  
 4. REMOTE CONTROL.

PACKAGED TERMINAL AIR CONDITIONING UNIT SCHEDULE - AIR COOLED DX/HOT WATER																						
UNIT NO.	LOCATION	SERVICE	COOLING CAPACITY				HEATING COIL				ELEC CHARACTERISTICS						EFFICIENCY (EER)	TEST PROCEDURE	MANUFACTURER & MODEL No.	REMARKS		
			AIR FLOW (CFM)	COOLING CAP. (MBH)	EAT (DEG. F)	WB	AMBIENT (DEG. F)	CAPACITY (MBH)	WATER FLOW (GPM)	WATER P.D. (FT. HD)	ENT. WATER TEMP. (DEG. F)	LVG. WATER TEMP. (DEG. F)	FLUID	ENT. AIR TEMP. (DEG. F)	LVG. AIR TEMP. (DEG. F)	VOLTS					PHASE	HZ
PTAC-1	VARIES	VARIES	350	9,500	80	67	95	11300	0.8	0.55	180	106	70	106	230	1	60	4.59	9.01	AHRI 310/380	ISLANDAIRE EZ09	1,2,3,4,5,6,7,8
PTAC-2	VARIES	VARIES	350	12,000	80	67	95	11300	0.8	0.55	180	106	70	106	230	1	60	5.98	8.72	AHRI 310/380	ISLANDAIRE EZ12	1,2,3,4,5,6,7,8

- REMARKS:  
 1. EZRM TOP MOUNT HYDRONIC HEATING COIL ASSEMBLY.  
 2. MOTORIZED ZONE CONTROL VALVE.  
 3. PROVIDE WITH EZRM ENCLOSURE ASSEMBLY.  
 4. PROVIDE WITH EZRM WALL SLEEVE, FIELD VERIFY REQUIRE DDEPTH PRIOR TO ORDERING.  
 5. PROVIDE WITH EZRM LOUVER.  
 6. PROVIDE WITH PROGRAMMABLE THERMOSTAT.  
 7. PROVIDE WITH FILTER.  
 8. LISTED AIRFLOWS BASED ON LOW FAN SPEED.

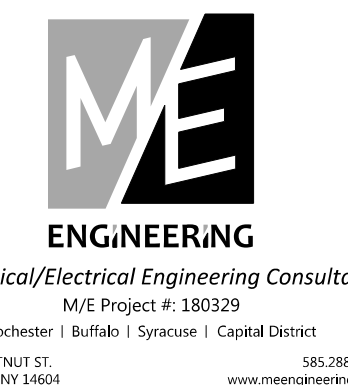
LOUVER SCHEDULE														
UNIT NO.	LOCATION	SERVICE	TYPE	MATERIAL	FINISH	DIMENSIONS (APPROX.)				AIR PERFORMANCE			MANUFACTURER & MODEL No.	REMARKS
						FREE AREA (SQ. FT.)	WIDTH (IN.)	HEIGHT (IN.)	DEPTH (IN.)	AIR FLOW (CFM)	VEL (FPM)	MAX P.D. (IN. WC)		
L-1	MECH RM	BC-1-0A	FIXED LOUVER	ALUMINUM	SEE NOTE	3.43	42	24	6	1000	292	.02	RUSKIN ELF6375DX	1,2

- REMARKS:  
 1. BIRD SCREEN.  
 2. COORDINATE FINISH COLOR WITH ARCHITECT.

**tat**  
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1 7/26/19 CONFORMANCE SET

Architect of Record:

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Key Plan:

Project Name:

**SENCIT APARTMENTS**

ARCTIC AVENUE ATLANTIC CITY, NJ

Sheet Name:

**SCHOOL HOUSE APTS. BUILDING A & B:**

SCHEDULES - HVAC

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