ASHBERRY, EQUIPMENT MODELS LISTED BELOW

ACA-10G-1 SINGLE CARBON FILTER SYSTEM Qty (1) 10" Diameter x 54" FRP Pressure Vessels

Non-Code Pressure Vessel, 150 psig Rating 1 ft3 Carbon Filtration Media Washed Gravel Sub-Fill for Media Support 1" Fleck Model 2750 Top-Mounted Control Valves for Automatic Operation Automatic Backwash Flow Controller (6 gpm)

Pentair 3200 12-Day Calendar Clock Controller RO Lockout switch 120V/1Ph/60Hz Electrical Power Rating

Estimated Shipping Weight, Ibs: 165 MAT-45M-1 TWIN ALTERNATING SOFTENER SYSTEM

Qty (2) 10" Diameter x 54" FRP Pressure Vessels

Non-Code Pressure Vessels, 150 psig Rating 1.5 ft³ Softening Resin Per Vessel (45,000 grains Capacity Per Vessel) 1" Fleck Model 9100 Top-Mounted Control Valves for Automatic Operation Pentair 'SXT' digital display electronic timer 120/24 VAC, 60 Hz Electrical Power Rating

Alternating Flow Control Configuration for Continuous Treated Water Supply Qty (1) Fleck Noryl Inline Paddlewheel-Type Flow Sensor(s) for Volume Initiated Regeneration Cycle Qty (1) 18" x 40" Polyethylene Brine Storage Tank Assembly with Salt Shelf and Safety Overflow Valve Water Hardness Testing Kit

## MRO-2500-2.5 SINGLE REVERSE OSMOSIS SYSTEM

Estimated Shipping Weight, Ibs: 265

2,500 gpd Nominal Product Output from the RO Machine (1.75 gpm @ 77° F) Powder-coated steel wall-mount bracket Pump, 0.75 HP, brass, 120 VAC, 1-Ph, 60 Hz

Polypropylene Cartridge Type Sediment Prefilter Housing (5-micron) Polypropylene Cartridge Type Carbon Prefilter Housing Qty (3) FRP Membrane Housings

Qty (3) Thin-Film Composite Low Pressure Membrane Elements (2.5" x 40") Polyethylene interconnecting tubing Panel Mounted RO Permeate, Concentrate and Recycle Flow Meters Panel Mounted Pressure Gauges

Automatic Inlet Feed Valve Low Inlet Pressure Switch with Shut-Down Estimated Shipping Weight, Ibs: 115

Concentrate and Recycle Flow Control Valves

TANK ASSY RO 160 GAL TITAN 3/4HP

26" x 68" Flat Bottomed Polyethylene tank Tank Comes Complete w/Inlet and Outlet Bulkhead Fittings Installed Qty (1) 304SS Single Stage Centrifugal Pump (5 gpm @ 40 psi) 120 VAC, 1 Phase, 60 Hz, 3/4 HP TEFC Motor

Integral Bladder on Pump Qty (2) Single Pull Double Throw Level Switches to Control RO Pump & Transfer Pump Approximate Shipping Weight, Ibs: 96

# DEDUCTIVE ALTERNATE NOTES

(DEDUCTIVE ALTERNATES ARE CASCADING AND MUST BE EXCERCISED IN THE ORDER PRESENTED) FOR A DETAILED DESCRIPTION OF EACH DEDUCTIVE ALTERNATE REFR TO COVER SHEET ON GI000 DEDUCTIVE ALTERNATE #2 : ELIMINATE TUNNEL (EAST LEG). DEDUCTIVE ALTERNATE #6: REDUCE PLATFORM AT CHILLER

## FLASH TANK SPECIFICATION

PROVIDE 12" DIAMTER BY 24" LONG HORIZONTAL FLASH TANK. PRVODIE A 3" VENT OUT, A 2-1/2" PIPE IN, AND 1-1/2" PIPE OUT. REFER TO DETAIL FOR MORE INFORMATION.

ASPD

630

630

630

630

630

630

630

630

630

MANUFACTURER

PRICE

PRICE

**PRICE** 

PRICE

PRICE

PRICE

PRICE

PRICE

PRICE

PRICE

PRICE

PRICE

**PRICE** 

PRICE

**PRICE** 

PRICE

PRICE

PRICE

PRICE

CD-12

CD-21

CD-22

CD-23

CD-24

EG-12

RG-21

RG-22

RG-23

RG-24

SD-2

SD-4

SD-5

SG-2

SG-3

															Cl	HILLED	) WATER	RAIRH	ANDLER	SCHE	DULE												
				PLENUM SUPP	PLY FAN DA	TA						PREH	IEAT COIL DATA	·A							COOLIN	G COIL DAT	A					HUN	MIDIFIER			AID EII TED	CHIDDING ODERATING
MAR	MODEL	EXPANSION O	IV	DESIGN OA	FSP	TSP	HP	VOLTAGE S	YSTEM	FACE	FACE R	OWS FAT	DB LAT DB	TOTAL GPM CAPACI	FW/T	IWT	SYSTEM	FACE	FACE	ROWS	EAT DB EAT	TWR IAT	DB LAT WB CAR	TAL	SENSIBLE EWT LWT	STEAM	STEAM FLOW				CONDENSATE	AIR FILTER DATA	WEIGHT WEIGHT
		AIRFLOW	'' AIRFLOW	AIRFLOW	Loi	101	(EACH)	VOLTAGE	TYPE	AREA	VELOCITY '	OWS LAT	DD LAI DD	GPM CAPACI	Y	LVVI	TYPE	AREA	VELOCITY	110000	LAI DD LAI	I WB LAI	CAPA	ACITY	CAPACITY EVVI LVVI	PRESSURE	RATE	EAT DB	ENTERING RH	LEAVING RH	FLOW RATE	Britin	WEIGHT
2-AH(	1 CSAA025	12290 CFM	1 12290 CFM	4450 CFM	3.00 in-wg	6.23 in-wg	25 hp	208 V H	ot water	24.74 SF	500 FPM	1 40 °	F 70 °F	44 GPM 401,670 B	u/h 180 °l	F 160 °F	Chilled water	24.74 SF	500 FPM	6	81 °F 66	6 °F 52	°F 52 °F 518,58	0 Btu/h 3	392,201 Btu/h 44 °F 56 °F	15 psig	129.98 lb/hr	60	15%	35%	17.95 lb/hr 4'	4" high eff - 95% eff - MERV 14	3,822 lb 3,961 lb
2-AH(	2 CSAA025	12605 CFM	1 12605 CFM	4180 CFM	3.00 in-wg	6.24 in-wg	25 hp	208 V H	ot water	24.74 SF	500 FPM	1 40°	F 70 °F	44 GPM 402,026 B	u/h 180 °I	F 160 °F	Chilled water	24.74 SF	500 FPM	6	81 °F 66	6 °F 52	°F 52 °F 519,42	0 Btu/h 3	392,839 Btu/h 44 °F 56 °F	15 psig	225.35 lb/hr	60	15%	50%		4" high eff - 95% eff - MERV 14	3,822 lb 3,961 lb

PROVIDE MODULAR, HORIZONTAL DRAW-THROUGH UNIT WITH VERTICAL DISCHARGE. PROVIDE UNIT WITH HINGED ACCESS DOORS. PROVIDE ACCESS SECTION AFTER COOLING COIL FOR COIL CLEANING. PROVIDE MODULATING ELECTRONIC CONTROL VALVE ON RETURN LINE FOR EACH HYDRONIC COIL.

PROVIDE UNIT WITH 6" BASE RAIL FACTORY CONNECTED (LEGS NOT ACCEPTABLE) AND EXTENDING THE ENTIRE LENGTH OF UNIT. ENSURE THAT PROPER RISE IS PROVIDED FOR CONDENSATE P-TRAP PROVIDE WITH 2 SETS OF FILTERS. AT PROJECT COMPLETION, INSTALL NEW FILTERS IN UNIT AND PROVIDE ONE EXTRA SET OF FILTERS FOR OWNER. UNITS SHALL NOT BE RUN WITHOUT SCHEDULED FILTERS IN PLACE.

PROVIDE UNIT-MOUNTED VFD, WITH SOFT START, MANUAL BYPASS SWITCH, SURGE PROTECTION, AND FUSED DISCONNECT. . ALL MOTORS SHALL BE PREMIUM EFFICIENCY, COMPATIBLE WITH VARIABLE FREQUENCY DRIVE OPERATION.

COORDINATE INSTALLATION OF EQUIPMENT TO PROVIDE ACCESS FOR MAINTENANCE AND FILTER REPLACEMENT.

CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF FIELD CONDITIONS AND COORDINATING EQUIPMENT DIMENSIONS AND INSTALLATION WITH FIELD CONDITIONS. FOR ALL SYSTEMS WITH DESIGN SUPPLY AIR GREATER THAN 2000 CFM, PROVIDE A DUCT SMOKE DETECTOR IN THE SUPPLY AIR DUCT, DOWNSTREAM OF THE AIR FILTERS AND AHEAD OF ANY BRANCH CONNECTIONS.

					PAC	KAGED	AIR COC	DLED CHI	LLER SC	HEDULE				
MARK		ELECT	RICAL		FULL LOAD	IPLV	EWT	LWT	PUMPING	PACKAGE	OPER.	BASIS OF DE	ESIGN	SHIP
IVIANN	FREQ.	VOLT.	PHASE	EER	CAP.	IFLV		LVVI	PD	FLOW RATE	WEIGHT	MANUFACTURER	MODEL	WEIGHT
CH-1	60 Hz	208 V	3	10.302	1169640.0 Btu/h	15.192	54 °F	44 °F	5.26 psi	233 GPM	6 lb	Trane	CGAM100	6 lb
CH-2	60 Hz	208 V	3	10.302	1169640.0 Btu/h	15.192	54 °F	44 °F	5.26 psi	233 GPM	6 lb	Trane	CGAM100	6 lb

- 1. PROVIDE WITH 136 GALLON CHILLED WATER BAFFLED STORAGE TANK ACCESSORY WITH ELECTRIC TANK
- HEATERS AND THERMOSTAT CONTROL. 2. PROVIDE WITH FACTORY INSTALLED EVAPORATOR HEATER FREEZE PROTECTION.
- . PROVIDE HEAT TAPE INSULATION ON ALL EXPOSED PIPING.
- PROVIDE WITH SINGLE POINT POWER CONNECTION AND UNIT MOUNTED NON-FUSED DISCONNECT. PROVIDE WITH DIGITAL COMPRESSOR
- PROVIDE WITH ALL NOISE REDUCTION PACKAGES.
- PROVIDE WITH FACTORY VIBRATION ISOLATION PACKAGE. 8. PROVIDE WITH CONTROLS CAPABLE OF STAND ALONE OPERATION AND INTERFACE WITH NIAGARA SYSTEM.

						HYD	RONIC W	ATER PUN	IP SCHED	JLE							
					C	IRCULATING FLUI	D			E	LECTRICAL DATA	1		BASIS OF	DESIGN		1
MARK	LOCATION	AREA SERVED	TYPE	FLUID	GPM	TOTAL HEAD	NPSH AVAILABLE	TEMPERATURE	MOTOR POWER	VOLTAGE	PHASE	RPM	SPEED CONTROL	MANUFACTURE R	MODEL NUMBER	NOTES	
CWP-1	MECHANICAL PENTHOUSE	CLC - BLDG XX	END SUCTION	CHILLED WATER	235 GPM	50 ftH2O	5 ftH2O	56 °F	7.500 hp	208 V	1	1800	VFD	BELL & GOSSETT	2.5 BB	1-5	
CWP-2	MECHANICAL PENTHOUSE	CLC - BLDG XX	END SUCTION	CHILLED WATER	235 GPM	50 ftH2O	5 ftH2O	56 °F	7.500 hp	208 V	1	1800	VFD	BELL & GOSSETT	2.5 BB	1-5	]
HWP-1	MECHANICAL ROOM	CLC - BLDG XX	END SUCTION	HEATING HOT WATER	150 GPM	50 ftH2O	5 ftH2O	160 °F	5.000 hp	208 V	1	1800	VFD	BELL & GOSSETT	2 BD	1-5	

160 °F

LBS/HR TRAP#

3581 ST-B-4

ST-B-3

1508

SIZE

0' - 0 9/16"

0' - 1 5/8"

CAPACITY

3016

7162

### NOTES:

1. DISCONNECT PROVIDED AND INSTALLED BY MECHANICAL, WIRED BY ELECTRICAL

WATER CONDITIONS

LWT

180 °F

180 °F

CLC - BLDG XX | END SUCTION

2. PROVIDE WITH VFD CONTROL FOR EACH PUMP. . PROVIDE EQUIPMENT PAD WITH VIBRATION ISOLATION.

GPM

150 GPM

50 GPM

4. REFER TO DETAILS FOR MORE INFORMATION. 5. INSTALL VIBRATION ISOLATION BASE PER TO DETAIL 7 ON SHEET M-501.

			LO	OUVER S	SCHE	DULE			
				MAX AIR			BASIS OF DI	ESIGN	
VV	TYPE	AIR FLOW	VELOCITY	PRESSURE DROP	SIZE	FREE AREA	MANUFACTURER	MODEL NUMBER	NOTES
OAL-1	INTAKE	24895 CFM	960 FPM	0.17 in-wg	138x48	26.00 SF	GREENHECK	EVH-501D	1,2
RL-1	EXHAUST	24895 CFM	830 FPM	0.11 in-wg	102x72	30.10 SF	GREENHECK	EVH-501D	1,2
NOTES:					_	_			

PROVIDE WITH BIRDSCREEN, INSECT SCREEN AND ALL OTHER ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION.

PROVIDE WITH BAKED ENAMEL FINISH. COORDINATE WITH ARCHITECT FOR FINAL PAINT COLOR.

# HX-02

1. PROVIDE SKID MOUNTED, PRE-WIRED, DUPLEX PACKAGE SYSTEM COMPLETE WITH ASME 150 PSIG DUAL CARBON STEEL SHELL AND COPPER TUBE HEAT EXCHANGERS, DUPLEX CONTROL PANEL WITH DISCONNECTS.

(PSI)

0.2

15

MAX PD ENT CONTROL

VALVE

30 psi

30 psi

. PROVIDE WITH SKID MOUNTED ACCESSORIES INCLUDING EXPANSION TANK, AIR VENT. 3. INCLUDE ALL INTERCONNECTING PIPING AND ACCESSORIES INCLUDING TRAP, SERVICE AND STOP VALVES, CHECK VALVES, FLEXIBLE CONNECTORS, PRESSURE GAUGES, INLET AND OUTLET THERMOMETERS, AND ALL OTHER RELATED AND REQUIRED

STEAM PRESSURE

ENT HX

30 psi

30 psi

150 GPM

50 ftH2O

STEAM-TO-HOT WATER HEAT EXCHANGER SCHEDULE

CONTROL VALVE

SIZE

FOULING

COMPONENTS FOR A COPMLETE WORKING SYSTEM. PROVIDE MIXING VALVE TO DISCHARGE 140F HOT WATER.

SYSTEM

HYDRONIC

WATER

MECHANICAL HOT WATER TUBE

DOMESTIC SHELL AND

TYPE

SHELL AND

TUBE

REFER TO DETAILS AND CONTROL DIAGRAMS SYSTEM IS TO BE DESIGNED FOR 100% REDUNDANCY.

LOCATION

MECHANICAL

7. PROVIDE WITH INTEGRAL STEAM TRAPS. 8. LWT SHOWN IS NORMAL OPERATING TEMPERATURE. UNIT SHALL BE CAPABLE OF PROVIDING 180 DEG F LWT FOR THERMAL ERADICATION PURPOSES

47 °F

	EQUIPMENT		EQUIPMEI CONDI	NT STEAM ITIONS			STEAM TR	AP		
MARK	EQUIPMENT SERVED	LOCATION (AREA)	DEMAND (#/HR)	PRESSURE (PSI)	CAPACITY (#/HR)	MINIMUM DIFFERENTIAL PRESSURE	MAXIMUM DIFFERENTIAL PRESSURE	PIPE CONNECTION SIZE	STEAM TRAP TYPE	NOTES
ST-B-1	60 PSI STEAM MAIN SUPPLY	BASEMENT	98	60	294	2	60	3/4"	THERMODYNAMIC	1,2
ST-B-2	60 PSI SIDE PRESSURE REDCING STATION	BASEMENT	6	60	17	2	60	3/4"	THERMODYNAMIC	1,2
ST-B-3	HEATING HOT WATER HX	BASEMENT	1508	30	3016	2	30	2"	FLOAT AND THERMOSTATIC	1,2
ST-B-4	DOMESTIC WATER HX	BASEMENT	3581	30	7162	2	30	2-1/2"	FLOAT AND THERMOSTATIC	1,2
ST-B-5	30 PSI SIDE PRESSURE REDCING STATION	BASEMENT	4	60	13	2	30	3/4"	THERMODYNAMIC	1,2
ST-B-6	30 PSI STEAM MAIN SUPPLY	BASEMENT	8	30	24	2	60	3/4"	THERMODYNAMIC	1,2
ST-B-7	PRESSURE REDCING STATION	BASEMENT	3	30	9	2	30	3/4"	THERMODYNAMIC	1,2
ST-B-8	FLASH TANK	BASEMENT	4772	30	14317	2	30	2-1/2"	THERMODYNAMIC	1,2
ST-P-1	CLEAN STEAM GENERATOR (PLANT SIDE)	PENTHOUSE	504	30	1512	2	30	3/4"	FLOAT AND THERMOSTATIC	1,2
ST-P-2	2-AHU02 HUMIDIFIER	PENTHOUSE	18	15	54	2	15	3/4"	FLOAT AND THERMOSTATIC	1,2
ST-P-3	2-AHU01 HUMIDIFIER	PENTHOUSE	18	15	54	2	15	3/4"	FLOAT AND THERMOSTATIC	1,2
ST-P-4	15 PSI STEAM MAIN	PENTHOUSE	4	15	12	2	15	3/4"	THERMODYNAMIC	1,2

1. PROVIDE ALL REQUIRED FITTINGS AND ACCESSORIES FOR A PROPERLY OPERATING SYSTEM. 2. PROVIDE WITH CYPRESS ENVIROSYSTEMS WIRELESS STEAM TRAP MONITOR (WSTM-100) AND TIE-IN TO EXISTING CYPRESS WIRELESS STEAM TRAP MONITORING

		ST	EAM CC	NDENS	ATE PUI	MP SCHEE	DULE			
MARK	LOCATION	SYSTEM SERVED	TYPE	GPM EACH PUMP	DISCHARGE PRESSURE	MAIN RECEIVER SIZE	HP EACH	MOTOR VOLTAGE	PHASE	REMARKS
CRU-1	BASEMENT	HEAT EXCHANGERS, MAIN, PRESSURE REDUCING STATION	DUPLEX	75 GPM	20.00 psi	65.0 gal	1.50 hp	208 V	3	1-7
CRU-2	PENTHOUSE	CLEAN STEAM GENERATOR PLANT SIDE CONDENSATE	DUPLEX	3 GPM	10.00 psi	15.0 gal	0.34 hp	208 V	3	1-7
CRU-3	PENTHOUSE	CLEAN STEAM GENERATOR PLANT SIDE CONDENSATE	DUPLEX	3 GPM	10.00 psi	15.0 gal	0.34 hp	208 V	3	1-7

1. PROVIDE WITH UL LISTED CONTROL PANEL MOUNTED AND WIRED WITH LIQUID TIGHT CONDUIT. PANEL TO INCLUDE 2 FUSED DISCONNECT AND COVER, INTERLOCK WITH EACH MOTOR, HOA SELECTOR, NUMBERED TERMINAL STRIP, TWO PUMP RUNNING PILOT LIGHTS, CONTROL POWER SWITCHING RELAY.

PROVIDE WATER LEVEL GAUGE WITH SHUTOFF VALVE. 3. PROVIDE CAST IRON RECEIVER WARRANTED FOR 20 YEARS.

4. PROVIDE HIGH LEVEL ALARM WITH SILENCING RELAY. 5. PROVIDE WITH EQUIPMENT PAD IF NEEDED.

6. REFER TO DETAILS FOR ADDITIONAL REQUIREMENTS AND INFORMATION. PROVIDE WITH CONTROLS CAPABLE OF STAND ALONE OPERATION AND INTERFACE WITH FACILITY NIAGARA AND BACNET SYSTEMS.

	S	STEAM PRE	SSURE	REDUCING	STATIO	N	
MARK	LOCATION	SYSTEM SERVED	VALVE SIZE	REQUIRED CAPACITY (lb/hr)	PRESSURE IN	PRESSURE OUT	REMARKS
PRV-1	BASEMENT	HEAT EXCHANGERS & CLEAN STEAM GENERATOR	1 1/2"	5595	60.00 psi	30.00 psi	-

			D	UCTLES	S SPL	_IT SYS	TEM S	CHED	ULE					
		MODEL		TOTAL			EI	LECTRICAL	DATA		CONDENSATE	REFRIGERANT	UNIT	
MARK	MANUFACTURER	NUMBER	TYPE	COOLING CAPACITY *	SEER*	AIR FLOW	VOLTAGE	PHASE	MCA	МОСР	DRAIN SIZE	TYPE	WEIGHT	REMARKS
DSSI-01	MITSUBISHI	FE12NA	INDOOR UNIT; WALL MOUNTED	12,000 Btu/h	0	350 CFM	208 V	1	0 A	0 A	1 1/2"	R-410A	27 lb	1-8
DSSO-01	MITSUBISHI	MUZ-FE12NA	OUTDOOR UNIT; HEAT PUMP	12,000 Btu/h	24.6	0 CFM	0 V	1	9 A	15 A	0"	R-410A	80 lb	1,2,3,4,8
* COOLING PI	ERFORMANCE AT A	HRI RATING CO	NDITIONS OF 95 °Fd	b OUTSIDE AIR,	80 °Fdb / 6	7 °Fwb ENTERI	NG AIR TEMI	PERATURE						

**ELECTRICAL INFO** 

120 V

CONNECTIONS VOLTAGE PHASE MCA MOCP MANUFACTURER MODEL

4 A | 15 A |

1 4 A 15 A CEMLINE

BASIS OF DESIGN

CEMLINE

HTP848EX-S-D

-SKID

10SEH1030-D

1,2,3,5,6,7

1. REFRIGERANT PIPING SHALL BE SIZED BY MANUFACTURER. PROVIDE ALL ASSOCIATED COMPONENTS AND ACCESSORIES RECOMMENDED BY MANUFACTURER. 2. COORDINATE INSTALLATION OF EQUIPMENT TO PROVIDE REQUIRED CLEARANCES.

3. PROVIDE ALL REQUIRED INTERFACES, THERMOSTAT, SUB-COMPONENTS, AND SENSORS FOR A COMPLETE INSTALLATION AND INTERFACE WITH BUILDING AUTOMATION SYSTEM. 4. INDOOR UNIT RECEIVES POWER FROM OUTDOOR UNIT.

5. PROVIDE UNIT WITH WASHABLE FILTER. 6. PROVIDE WITH CONDENSATE PUMP, RESERVOIR, AND DRAIN PAN LEVEL SENSOR WITH CONTROL TO SHUT UNIT OFF PRIOR TO DRAIN PAN OVERFLOW. PROVIDE CHECK VALVE AT CONDENSATE

7. PROVIDE BACKLIT, WIRED, WALL-MOUNT REMOTE CONTROLLER. 8. DISCONNECT TO BE PROVIDED BY MECHANICAL CONTRACTOR AND WIRED BY ELECTRICAL CONTRACTOR.

				E	EXHAUS	T/RE	LIEF	FAN	SCH	EDUL	E				
					EXTERNAL	FAN	FAN	MOTOR	FAN	SOUND	ELECTF	RICAL	BASIS O	F DESIGN	
I MA	ARK	TYPE	SERVICE	AIR FLOW	STATIC PRESSURE	SPEED (RPM)		SPEED (RPM)	DRIVE	LEVEL (SONES)	VOLTAGE	PHASE	MANUFACTURER	MODEL NUMBER	REMARKS
EF	<del>-</del> -01	ROOF DOWNBLAST	AH01; GENERAL	2610 CFM	1.00 in-wg	1286	2 hp	1725	DIRECT	16.0	208 V	1	GREENHECK	G-163-VG	1-8
EF	-02	ROOF DOWNBLAST	AH02; GENERAL	2860 CFM	1.00 in-wg	1341	2 hp	1725	DIRECT	17.0	208 V	1	GREENHECK	G-163-VG	1-8
RF-	-2-01	MIXEDFLOW - HORIZONTAL	AH01 - RETURN	8875 CFM	1.00 in-wg	1770	5 hp	1770	DIRECT	31.0	208 V	3	GREENHECK	QEID-22-60	1-2,5,7-8
RF-	-2-02	MIXEDFLOW - HORIZONTAL	AH02 - RETURN	9320 CFM	1.00 in-wg	1770	3 hp	1170	DIRECT	31.0	208 V	3	GREENHECK	QEID-24-75	1-2,5,7-8
NOTE	<u> </u>				_		·		·				_		

PROVIDE WITH PRE-WIRED DISCONNECT SWITCH. PROVIDED BY MECHANICAL, WIRED BY ELECTRICAL. PROVIDE GRAVITY BACKDRAFT DAMPER.

PROVIDE ALUMINUM BIRDSCREEN AT EXTERIOR WALL OR ROOF PENETRATION.

4. PROVIDE WITH VFD. 5. PROVIDE THERMAL OVERLOAD MOTOR PROTECTION. 6. PROVIDE WITH FABRICATED ROOF CURB.

7. PROVIDE WITH SPRING ISOLATOR KIT. 8. INTERLOCK FAN WITH ASSOCIATED AHU

			CL	EAN STEA	M GENE	RATOR SCH	HEDULE					
MADIZ	LOCATION	evetem served	INLET WATER FLOW RATE (GPM)	PLANT STEAM SUPPLY PRESSURE	STEAM INLET	CLEAN STEAM OUTPUT RATE (lb/hr)	STEAM PRESSURE	PLANT STEAM FLOW RATE	STEAM TRAP NUMBER		WER PHASE	NOTES
MARK	LOCATION	SYSTEM SERVED	(GFIVI)	PRESSURE	DIAWATER	OUTPUT RATE (IB/III)	PRESSURE	(lb/hr)	NUMBER	VOLTS	PHASE	NOTES
2-CSG01	PENTHOUSE	AHU HUMIDIFIERS	3.5	30 psi	1 1/2"	360	15 psi	504	ST-P-1	120	1	1-5
NOTES:												

PROVIDE WITH UL LISTED CONTROL PANEL MOUNTED AND WIRED WITH LIQUID TIGHT CONDUIT.

PROVIDE WITH EQUIPMENT PAD. PROVIDE WITH CONTROLS CAPABLE OF STAND ALONE OPERATION AND INTERFACE WITH NIAGARA AND BACNET SYSTEMS.

4. PROVIDE WITH POINT-OF-USE REVERSE OSMOSIS FILTER STATION CAPABLE OF SUPPLYING 1400 GALLONS OF TREATED WATER PER DAY. REFER TO CSG WATER TREATMENT NOTES ON THIS

SHEET FOR MORE INFORMATION. 5. PROVIDE WITH CLEAN STEAM SIDE CONDESATE COOLER.

	20x14 10x6
1 DDICE 620 SUDEACE OCEM OCEM NA 4	10x6
-1 PRICE 630 SURFACE 0 CFM 0 CFM NA 1	. 6716
BASIS OF DESIGN EQUIPMENT WITH REQUIRED PERFORMANCE CHARACTERISTICS IS SCHEDULED. OTHER MANUFACTURERS ARE ACCEPTABLE; HOWEVER EQUIPMENT NOT MEETING EQUIVALENT CRITERIA CANNOT BE CONSIDERED.  NECK SIZE AS INDICATED. RUNOUT BRANCH DUCTS SHALL BE THE SAME SIZE AS INDICATED NECK SIZE. PROVIDE TRANSITION IF NECESSARY.  PROVIDE VOLUME DAMPER INSTALLED IN BRANCH DUCT SERVING EACH DIFFUSER.  PROVIDE ALL REQUIRED ACCESSORIES FOR A COMPLETE INSTALLATION.  PROVIDE EXHAUST GRILLES LOCATED IN HARD CEILINGS WITH BALANCING DAMPER ADJUSTABLE AFACE OF GRILLE.	CK
COI	NSULTA
	A Y X Y

AIR DEVICE SCHEDULE

PLAQUE FACE

PLAQUE FACE

PLAQUE FACE

PLAQUE FACE

PLAQUE FACE

PLAQUE FACE

EXHAUST GRILLE LOUVERED, FIXED FACE

EXHAUST GRILLE

EXHAUST GRILLE

LOUVERED, FIXED FACE

LOUVERED, FIXED FACE

RETURN GRILLE

RETURN GRILLE OUVERED, FIXED FACE

RETURN GRILLE

RETURN GRILLE

RETURN GRILLE

SURFACE

SURFACE

SURFACE

SURFACE

SURFACE

SURFACE

SURFACE

OUVERED, FIXED FACE

LOUVERED, FIXED FACE

LOUVERED, FIXED FACE

OUVERED, FIXED FACE

MAX.

350 CFM | 475 CFM | 24x24

40 CFM 95 CFM 12x12

100 CFM | 195 CFM | 12x12

100 CFM | 195 CFM | 24x24

40 CFM 95 CFM 24x24

100 CFM | 195 CFM | 24x24

300 CFM | 500 CFM | 24x24

0 CFM 0 CFM N/A

0 CFM

0 CFM 0 CFM

200 CFM | 295 CFM | 24x24 | 10x10

40 CFM 85 CFM

90 CFM | 185 CFM

40 CFM 85 CFM

90 CFM 185 CFM

190 CFM 345 CFM

40 CFM 95 CFM

0 CFM

SIZE (IN.)

12x12

24x24

24x24

24x24

12x12

N/A

N/A

NA

NA

(IN.)

12x12

20x10

10x8

16x8

40x24

Tucson, AZ 85701

(520) 622-9565

Josh Orth., PLA

NORRIS DESIGN

Protective Design Specialist 240 West 35th St. Suite 1004

New York, NY 10001

(212) 967-4890

Corrine Tan, SE

C.S.Davidson,Inc.

315 West James Street, Suite 102

Lancaster, PA 17603

Jason Vannoy, SE, PE

(717) 481-2991

550 North Reo Street, Suite 203

Tampa, FL 33609

Nicholas Stephenson, PE

(813) 289-4700

TRIPLE C - The A/E Group 201 E. Jefferson Street, Suite 200 Syracuse, NY 13202





	_	
NEW LOOP TO STEP LIFE BOOK STEP LIFE	ar	Office of onstruction of the construction of t
SSION	<b>\/</b> \	U.S. Depar

Office of
Construction
and Facilities
Management

e of uction cilities ement	SCHE
Department	

Drawing Title SCHEDULES - HVAC	ISSUED FOR CONSTRUCTION	Project Title NEW COMMUNITY LIVING CENTER			Project Number 620-334  Building Number CLC
Approved:	FULLY SPRINKLERED	Location 2094 Albany Post Road, No Issue Date 05/09/2022	Checked CJF/NPS	548 Drawn NS	Drawing Number  M-002