

PLATE & FRAME HEAT EXCHANGER SCHEDULE															
TAG	SERVICE	MANUF.	MODEL NO.	HEAT EXCHANGED (MBH)	HOT SIDE (100% H2O)					COLD SIDE (40% PG / 60% H2O)					REMARKS
					FLUID	FLUID FLOW (GPM)	EFT (°F)	LFT (°F)	P.D. (PSI)	FLUID	FLUID FLOW (GPM)	EFT (°F)	LFT (°F)	P.D. (PSI)	
HX-1	BLR-1	TACO	TB10Tx24	120	HW	6	180	140	8	HGW	7	135	175	8	NOTE 1

- NOTES:
1. PROVIDE WITH THE FOLLOWING OPTIONS:
- FLANGED CONNECTIONS
- FLUID:
HGW: 40% PROPYLENE GLYCOL / 60% WATER
HW: 100% WATER

AIR-TO-AIR ENERGY RECOVERY VENTILATOR SCHEDULE																								
TAG	MANUF.	MODEL NO.	AIRFLOWS			FAN EXTERNAL S.P.		COOLING				HOT WATER COIL					HEAT RECOVERY CONDITIONS				ELECTRICAL			REMARKS
			SUPPLY (CFM)	EXHAUST (CFM)	O.A. (CFM)	SUPPLY (IN. W.C.)	EXHAUST (IN. W.C.)	EAT (DB/WB °F)	LAT (DBWB °F)	TOTAL (MBH)	SENSIBLE (MBH)	EAT (DB/WB °F)	LAT (DBWB °F)	FLUID	GPM	TOTAL (MBH)	WINTER		SUMMER		SYSTEM	MCA	MOP	
																	EAT (DB °F)	LAT (DB °F)	EAT (DB/WB °F)	LAT (DB/WB °F)				
ERV-1	AAON	CFA-007-A-A-2-DA00H	2,390	1,300	2,390	1.00	1.00	83.05 / 66.20	57.83 / 56.29	74.72	68.25	24.5 / 21.5	93.3 / 56.6	GHW	7.0	193.8	-7.0	24.54	90.0 / 71.0	83.05 / 66.20	230/3/60	28	45	SEE NOTES

- NOTES:
1. PROVIDE WITH THE FOLLOWING OPTIONS:
- 120V CONVENIENCE OUTLET, GFI, FACTORY WIRED
- HOT GAS RE-HEAT, MODULATING
- OUTDOOR AIR RAIN HOOD
- SINGLE-POINT ELECTRICAL CONNECTION
- FUSIBLE DISCONNECT
- PREMIUM EFFICIENCY MOTORS
- FACTORY MOUNTED ADJUSTABLE SPEED DRIVE (ASD) ON SUPPLY FAN MOTOR AND EXHAUST FAN MOTOR.
- DUAL WALL CONSTRUCTION
- RECIRCULATION/BYPASS DAMPER FOR UNOCCUPIED MODE
- INSULATED BLADE OUTSIDE & EXHAUST AIR DAMPERS
- ENERGY RECOVERY WHEEL
- DIGITAL SCROLL COMPRESSOR ON THE LEAD CIRCUIT
- START/STOP FROST PROTECTION
- 4 STAGE STAINLESS STEEL LP GAS HEAT
- 2-INCH MERV-8 AND 4-INCH MERV-12 FILTERS
- MAKE-UP AIR CONTROLLER
2. W/ VIBRATION ISOLATION SUPPORT RAILS UNDER LONG SIDES OF UNIT.
- GHW: 40% PROPYLENE GLYCOL / 60% WATER

MAKE-UP AIR UNIT SCHEDULE																		
TAG	MANUF.	MODEL NO.	SUPPLY AIR (CFM)	OUTSIDE AIR (CFM)	E.S.P.	WEIGHT (LBS.)	HOT WATER COIL								ELECTRICAL			REMARKS
							TOTAL (MBH)	SENSIBLE (MBH)	EAT DB (°F)	LAT DB (°F)	EFT (°F)	LFT (°F)	FLUID	FLUID FLOW RATE (GAL/MIN)	MCA	MOP	SYSTEM	
MAU-1	CAPTIVEAIRE	AI-16Z	1,900	1,900	0.5	530	100.7	100.7	6.0	55.0	160.0	152.0	GHW	24.2	7.8	15	208/3/60	SEE NOTES

- NOTES:
1. MOTORIZED BACKDRAFT DAMPER FOR A1-D HOUSING - SHALL MEET AMCA CLASS 1A RATING
2. SEPARATE 120V WIRING PACKAGE (REQUIRED AND USED ONLY FOR DCV OR PREWIRE WITH VFD) - THREE PHASE ONLY.
3. W/ VIBRATION ISOLATION SUPPORT RAILS UNDER LONG SIDES OF UNIT.
4. 2 YEAR PARTS WARRANTY
- GHW: 40% PROPYLENE GLYCOL / 60% WATER

TAG	SERVICE	MANUF.	MODEL NO.	FUEL	FUEL	FLUID	INPUT MBH (MAX.)	OUTPUT MBH (MAX.)	EFFICIENCY	WEIGHT (LBS)	REMARKS
					SUPPLY PRESSURE RANGE (IN W.C.)						
BLR-1	107 MECHANICAL	LOCHINVAR	KBXB0400N	NG	8 - 14	HW	399	387	97%		SEE NOTES
BLR-2	107 MECHANICAL	LOCHINVAR	KBXB0400N	NG	8 - 14	HW	399	387	97%		SEE NOTES

- NOTES:
1. FURNISH WITH THE FOLLOWING OPTIONS:
- SINGLE POINT ELECTRICAL CONNECTION
- MANUF. PROVIDE LOOSE BOILER PUMP (BP-x)
- FLOW SWITCH
- HIGH AND LOW PRESSURE SWITCHES
- LOW WATER CUT-OFF WITH MANUAL RESET AND TEST
- PRESSURE AND TEMPERATURE GAUGES
- HIGH EXHAUST PRESSURE SWITCH
- HIGH LIMIT THERMOSTAT, MANUAL RESET
- FLUID:
HW: 100% WATER

TAG	MANUF.	MODEL NO.	UNIT WIDTH	UNIT HEIGHT	CFM	BTUH	MAX	EAT (°F)	LAT (°F)	MAX	GPM	EFT (°F)	LFT (°F)	ROWS	FPI	REMARKS
							APD (IN. W.C.)			WPD (FT.)						
HWC-1	NORTEK	Z-8-A-2-B-12-12	12"	12"	400 CFM	18,745	0.11	50.0	91.6	0.4	2.2	180.0	160.0	2	8	SEE NOTES

FLUID:
GHW: 40% PROPYLENE GLYCOL / 60% WATER

KITCHEN EXHAUST FAN SCHEDULE											
TAG	MANUF.	MODEL NO.	TYPE	CFM	DRIVE	EXT. SP. (IN)	RPM	WEIGHT (LBS)	ELECTRIC		REMARKS
									HP (MOTOR)	SYSTEM	
KEF-1	CAPTIVEAIRE	DU180HFA	UPBLAST	2,250	DIRECT	1.25	1118	177	1.5	208/3/60	SEE NOTES

PIPE AND EQUIPMENT INSULATION SCHEDULE							
SERVICE	TEMP. RANGE (°F)	LOCATION	TYPE	PIPE SIZE	THICKNESS	JACKET	REMARKS
HWS&R	55	ALL	FG	ALL	1/2"	YES - NOTE 2	SEE NOTES
GHWS&R	55	ALL	FG	ALL	1/2"	YES - NOTE 2	SEE NOTES
COLD CONDENSATE	55	ALL	FG	ALL	1/2"	YES - NOTE 2	SEE NOTES
REFRIGERANT	55	ALL	FG	ALL	1/2"	YES - NOTE 2	SEE NOTES
EXPANSION TANK	55	ALL	FG	ALL	1/2"	YES - NOTE 2	SEE NOTES
AIR SEPARATOR	55	ALL	FG	ALL	1/2"	YES - NOTE 2	SEE NOTES

- NOTES:
1. SEE SECTION 23 07 19.
- TYPE:
FG - FIBROUS GLASS INSULATION
CCE - ARMAFLEX CLOSED CELL ELASTOMER
PVC - PVC JACKET/COVER
2. ALL EXTERIOR PIPING (INCLUDING IN ROOFTOP MECHANICAL ROOMS) SHALL BE FITTING WITH AN ALUMINUM JACKET (SEE SPECIFICATION FOR DETAILS).

AIR SEPARATOR SCHEDULE									
TAG	SERVICE	MANUF.	MODEL NO.	FLUID	MOUNTING	CONNECTION	PIPE SIZE (IN.)	WEIGHT (LBS)	REMARKS
AS-1	BLR-1	TACO	49-150	HW	IN-LINE	THREADED	1 1/2"	30	NOTE 1
AS-2	BLR-2	TACO	49-150	HW	IN-LINE	THREADED	1 1/2"	30	NOTE 1

- NOTES:
1. WRAP WITH R-12.5 INSULATION
- FLUID:
HGW: 40% PROPYLENE GLYCOL / 60% WATER
HW: 100% WATER

TAG	MANUF.	MODEL NO.	SERVICE	CAPACITY (TONS)	REFRIG.	EER	ELECTRIC		WEIGHT (LBS)	REMARKS
							MCA	SYSTEM		
CU-3	AAON	CFA-003-A-A-8-DA00H	OUTSIDE	36,600	R410A	12	17	208/1/60	397	SEE NOTES

- NOTES:
1. PROVIDE WITH THE FOLLOWING OPTIONS:
- VIBRATION ISOLATION
- 120V CONVENIENCE OUTLET
- STARTER TYPE:
PCU - PACKAGED CONTROL UNIT INTEGRAL TO EQUIPMENT. SINGLE POINT ELECTRICAL CONNECTION.

TAG	SERVICE	MANUF.	MODEL NO.	FLUID	MOUNTING	TANK VOLUME (GAL.)	PRESSURE (PSIG)	WEIGHT (LBS)	REMARKS
ET-1	BLR-1	TACO	CA-300-125	HW	FLOOR	79	125	320	NOTE 1
ET-2	BLR-2	TACO	CX-30-125	HGW	FLOOR	8	125	45	NOTE 1

- NOTES:
1. WRAP WITH R-12.5 INSULATION
- FLUID:
HGW: 40% PROPYLENE GLYCOL / 60% WATER
HW: 100% WATER

HYDRONIC PUMP SCHEDULE												
TAG	SERVICE	MANUF.	MODEL NO.	TYPE	FLUID	GPM	HEAD (FT.)	RPM	VFD	ELECTRIC		REMARKS
										HP	SYSTEM	
BP-1	107 MECHANICAL	TACO	VR15	A	HW	20	20	3,250	YES	2/3	208/1/60	
BP-2	107 MECHANICAL	TACO	VR15	A	HW	20	20	3,250	YES	2/3	208/1/60	
P-1	107 MECHANICAL	TACO	1915	A	GHW	13	35	1,760	NO	3/4	120/1/60	
P-1A	107 MECHANICAL	TACO	VR15	A	HW	25	30	3,250	YES	2/3	208/1/60	
P-1B	107 MECHANICAL	TACO	VR15	A	HW	25	30	3,250	YES	2/3	208/1/60	
P-2A	107 MECHANICAL	TACO	0034 E	A	GHW	7	25	3,250	YES	1/5	120/1/60	
P-2B	107 MECHANICAL	TACO	0034 E	A	GHW	7	25	3,250	YES	1/5	120/1/60	
P-L1	100 APPARATUS BAY	TACO	2420	A	HW	7	25	3,450	NO	1/10	120/1/60	
P-L2	100 APPARATUS BAY	TACO	2410	A	HW	6	20	3,450	NO	1/10	120/1/60	
P-L3	100 APPARATUS BAY	TACO	2410	A	HW	4	20	3,450	NO	1/10	120/1/60	
P-L4	101 VINTAGE BAY	TACO	2410	A	HW	4	20	3,450	NO	1/10	120/1/60	
P-L5	127 LOBBY	TACO	2420	A	HW	7	25	3,450	NO	1/10	120/1/60	
P-L6	100 APPARATUS BAY	TACO	2420	A	HW	7	25	3,450	NO	1/10	120/1/60	

- NOTES:
A. INLINE
- VFD FURNISHED INTEGRAL TO PUMP

HOSE REEL EXHAUST SCHEDULE									
TAG	MANUF.	MODEL NO.	TRUCK LENGTH	HOSE LENGTH	HOSE DIAMETER	NOZZLE SIZE	EXHAUST RATING		REMARKS
							TEMP RATING	RATE (CFM)	
HR-1	NEDERMAN	89299258	20-FEET	16-FEET	6"ø	6"ø	-40°F TO 400°F	500	SEE NOTES
HR-2	NEDERMAN	89299258	20-FEET	16-FEET	6"ø	6"ø	-40°F TO 400°F	500	SEE NOTES
HR-3	NEDERMAN	89299258	20-FEET	16-FEET	6"ø	6"ø	-40°F TO 400°F	500	SEE NOTES
HR-4	NEDERMAN	89299258	20-FEET	16-FEET	6"ø	6"ø	-40°F TO 400°F	500	SEE NOTES
HR-5	NEDERMAN	89299258	20-FEET	16-FEET	6"ø	6"ø	-40°F TO 400°F	500	SEE NOTES
HR-6	NEDERMAN	89299258	20-FEET	16-FEET	6"ø	6"ø	-40°F TO 400°F	500	SEE NOTES

- NOTES:
1. PRIOR TO ANY ORDER, CONFIRM: FIRE TRUCKS REQUIRE LOW LEVEL, 6"ø EXHAUSTS.
2. PROVIDE W/ 6" TAIL PIPE ADAPTER AND CLAMP.
3. PROVIDE W/ CONTROLLER AS FOLLOWS:
a. W/ AUTO STOP/START
b. W/ PRESSURE SWITCH WIRE DIRECTLY TO CONTROL PANEL AND TRANSMITTER.
c. W/ RADIO TRANSMITTER AND RECEIVER.

CHEMICAL BAG FILTER SCHEDULE									
TAG	SERVICE	MANUF.	MODEL NO.	FLUID	DIAMETER	HEIGHT	FILTER	WEIGHT (LBS)	REMARKS
BF-1	BLR-1	ROSEDALE	NC08-30-2P-1-1/2P-150-S-B-PB	HW	8-5/8"	45"	BAG		NOTE 1

- NOTES:
1. EACH BAG FILTER:
- PROVIDE WITH (20) TWENTY POLYPROPYLENE BAG FILTERS, 5-MICRON (MODEL: PO-S-G2RPO).
- FLUID:
HW: 100% WATER

06/21/2023

DATE: 06/21/2023

AOS

DRAWN BY: AOS

N.T.S.

SCALE: N.T.S.

TJH

REVIEWED BY: TJH

20-2006

PROJECT NO.: 20-2006

FILE:



REVISIONS

NO.	DATE	DESCRIPTION

PORT EWEN FIRE
DEPARTMENT, ULSTER, NEW
YORK

MECHANICAL SCHEDULES

BID PLANS

SHEET:

M002

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