

MARK NO.	REFRIG. TYPE	MIN. TONS AIR RATING	UNIT EFFICIENCY		COMPRESSOR DATA					EVAPORATOR DATA				PACKAGED PUMP			CONDENSER/FAN DATA			UNIT ELECTRICAL DATA			DIMENSIONS	WEIGHT (LBS)	BASIS OF DESIGN	REMARKS								
			FULL LOAD EER	IPLV EER	NO.	TYPE	VOLT	PH	HZ	FLUID TEMP. ENT./LV. (DEG. F)	FLUID TYPE	DESIGN FLOW RATE (GPM)	PRESSURE DROP (FT. H2O)	NO. OF PUMPS	EXTERNAL HEAD 30% P.G. (FT. H2O)	MIN. % EFF.	AMB. AIR ENT. COND. (DEG F)	NO.	MIN. CIRC. AMPS	MAX FUSE SIZE	SCCR													
CH-1	R-410A	70.0	10	15.52	4	SCROLL	208	3	60	52/42	30% P.G.	160	11	2	42	84%	95	4	313	350	65000	95"L X89"W X92"H	3,500	DAIKIN AGZ070C	1	2	3	4	5	6	7	8	9	

REMARKS

- AIR COOLED CHILLER UNIT CH-1 SHALL BE COMPONENTS IN A SINGLE PACKAGED CHILLED SYSTEM PROVIDED BY ONE MANUFACTURER
- CHILLER SHALL BE PACKAGED WITH AN INTEGRAL BUFFER TANK. VOLUME SHALL BE LARGE ENOUGH TO ACCOMMODATE 5 MINUTE MINIMUM RUN TIME FOR SCROLL COMPRESSORS
- UNIT CONTROL SYSTEM SHALL DELAY OR EXTEND PERIODS OF COMPRESSOR OPERATION TO STABILIZE HEAD PRESSURE AS REQUIRED BY MANUFACTURER
- PROVIDE UNIT WITH FULL LOUVERED ENCLOSURE TO CONCEAL ALL COMPRESSORS AND PIPING, AND PROVIDE WITH SOUND REDUCTION ENCLOSURES AND INSULATION ON COMPRESSORS
- PROVIDE ULTRA LOW SOUND FANS
- UNIT MOUNTED NON-FUSED DISCONNECT
- PUMP PACKAGE TO OPERATE IN LEAD/LAG OPERATION CONTROLLED BY THE MANUFACTURE SUPPLIED CONTROL PANEL.
- PROVIDE WITH BUILT IN EXPANSION TANK SIZED BY MANUFACTURER.
- OR APPROVED EQUAL

MARK NO.	SERVES	LOCATION	TYPE	FLOW (GPM)	HEAD 30%P.G. (FT WAT)	MIN % EFF.	MOTOR DATA					MANUFACTURER	REMARKS		
							RPM	HP	VOLT	PH	HZ				
CWP-1	CHILLED WATER	BOILER ENCLOSURE	BASE MOUNT	120	80	84.00%	1800	7.5	208	3	60	ARMSTRONG 4380	1	2	
HWP-1	HOT WATER	BOILER ENCLOSURE	BASE MOUNT	65	80	84.00%	1800	5	208	3	60	ARMSTRONG 4380	1	2	3
HWP-2	HOT WATER	BOILER ENCLOSURE	BASE MOUNT	65	80	84.00%	1800	5	208	3	60	ARMSTRONG 4380	1	2	3
CP-1	BOILER CIRC.	BOILER ENCLOSURE	INLINE	65	15	84.00%	1800	3/4	208	3	60	ARMSTRONG 4360	1	2	

REMARKS

- PROVIDE STRAIGHT CONSTRUCTION SCREENS AND FINAL OPERATING SCREENS
- PROVIDE CONTROLS PER SPECIFICATIONS
- VFD OPERATION.

BOILER SCHEDULE	
MARK NO.	B-1
TYPE	CONDENSING
FUEL	NAT GAS
OUTPUT BTU/HR	986,000
INPUT BTU/HR	1,050,000
MIN BTU/HR OUTPUT	197,190
ENTERING/LEAVING WATER TEMPERATURE (F)	120 / 150
MAX GPM	65
MIN GPM	18.6
TURNDOWN	5:1
EFF%	94%
ELECTRICAL DATA	VOLTAGE/PHASE/AMPS 120/1PH/10A
BOILER HORSEPOWER	29.5
OPERATING WEIGHT LBS	580
MIN/MAX INLET GAS PRESSURE	3.5/14 IN WC
OVERALL SIZE (PLAN)	53"x29"
HEIGHT	60"
LOCATION	MECHANICAL ROOM
REMARKS	INLET GASKET VICT.
BASIS OF DESIGN	PATTERSON KELLY MACH C1050

REMARKS

- INLET & OUTLET CONN. SIZE 2" M.P.T.
- DIRECT VENTING, CATEGORY IV POSITIVE PRESSURE 8"&
- IRI GAS TRAIN
- LOW WATER CUT-OFF OPTION
- REMOTE MODULATING CONTROL OPTION (0-10V INPUT)
- OUTDOOR AIR RESET
- BOILER INLET STRAINER
- GAS PRESSURE REGULATOR
- VERTICAL COMBUSTION AIR INTAKE AND VENTING, 316L STAINLESS STEEL
- NEUTRALIZATION TANK (S)
- INSTALL BOILER ON CONCRETE HOUSEKEEPING PAD.
- OR APPROVED EQUAL

MISCELLANEOUS MECHANICAL EQUIPMENT SCHEDULE							
MARK NO.	TYPE	SERVICE	LOCATION	OPERATING CONDITIONS	CAPACITY AND SIZE	BASIS OF DESIGN	
						NOTES	
AS-1	AIR SEPARATOR	CHILLED WATER	EXTERIOR MECH	WORKING PRESSURE=125 PSI	160 GPM 4" CONN.	TACO AC04	1
AS-2	AIR SEPARATOR	HOT WATER	EXTERIOR MECH	WORKING PRESSURE=125 PSI	60 GPM 2.5" CONN.	TACO AC02	1
ET-1	EXPANSION TANK	HOT WATER	EXTERIOR MECH	WORKING PRESSURE=125 PSI	34 GAL VOLUME	TACO CBX130	1

NOTES

- OR APPROVED EQUAL
- INSTALL ALL FLOOR MOUNTED EQUIPMENT ON HOUSEKEEPING...

DIFFUSER SCHEDULE					
MARK NO.	TYPE	MOUNTING	NECK SIZE	SIZE	BASIS OF DESIGN
SA-1	SUPPLY AIR	LAY-IN	SEE NOTE 1	24"X24"	TITUS OMNI
SA-2	SUPPLY AIR	SURFACE	SEE NOTE 1	6"X48"	TITUS DL-30
RA-1	RETURN AIR	LAY-IN	SEE NOTE 1	24"X24"	TITUS PAR
RA-2	RETURN AIR	SURFACE	SEE NOTE 1	AS SHOWN	TITUS 23RL
EA-1	EXHAUST AIR	LAY-IN	SEE NOTE 1	24"X24"	TITUS PAR
TG-1	TRANSFER AIR	LAY-IN	SEE NOTE 1	24"X24"	TITUS PAR

NOTES

SCHEDULE DOES NOT INDICATE QUANTITIES. FOR QUANTITIES OF EACH ITEM SEE PLANS

- NECK SIZE SHALL BE AS FOLLOWS
 - 6" DIA NECK FOR CFM RANGE (0 CFM-100 CFM)
 - 8" DIA NECK FOR CFM RANGE (101 CFM-200 CFM)
 - 10" DIA NECK FOR CFM RANGE (201 CFM-400 CFM)
 - 12" DIA NECK FOR CFM RANGE (401 CFM-500 CFM)
 - 14" DIA NECK FOR CFM RANGE (501 CFM-600 CFM)
- OR APPROVED EQUAL


DATE	DESCRIPTION	MARK

DESIGNED BY: D. SPENCER
 DRAWN BY: M. WAHLEN
 CHECKED BY: M. WAHLEN
 SUBMITTED BY: M. WAHLEN

ISSUE DATE: 07/07/2022
 SOLICITATION NO.: W911SD21D0006
 CONTRACT NO.: W911SD21D0006

SIZE: ANSID

Henningson, Durham & Richardson
 Architecture and Engineering, P.C.
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 White Plains, NY 10604-3650



140 BUCKNER LOOP, WEST POINT, NY
 LEE CHILD DEVELOPMENT CENTER BLDG, 140 HVAC SYSTEM & DRAINAGE DESIGN
 10324688

HVAC SCHEDULES



SHEET

M-601