

PACKAGE AIR COOLED WATER CHILLER SCHEDULE

MARK	NOMINAL TONNAGE	REFRIG. TYPE	IPLV EER	EVAPORATOR DATA						CONDENSER DATA		COMPRESSOR DATA			ELECTRICAL DATA					BASIS OF DESIGN
				FLOW GPM	ENTERING WATER TEMP. °F	LEAVING WATER TEMP. °F	FLUID TYPE	EVAP + STRAINER MAX. WATER PRESS. DROP FT. W.C.	FOULING FACTOR HR-FT ² -°F/BTU	AMB. TEMP. °F db	CONDENSER FANS QUANTITY	COMPRESSOR QUANTITY	NUMBER OF CIRCUITS	MCA	MOCP	VOLTS	PHASE	HERTZ		
ACC-1	60	R-454B	16.2	144	54.8	45	WATER	21.7	0.0001	95.0	6	4	2	129	175	460	3	60	TRANE CGAM	

PACKAGED AIR COOLED CHILLER SCHEDULE NOTES

- EER – ENERGY EFFICIENCY RATIO. POWER INPUTS SHALL INCLUDE ALL COMPRESSORS, CONDENSER FANS AND CONTROL POWER AT FULL LOAD CONDITIONS.
- PROVIDE A SINGLE POINT POWER SOURCE FOR THE COMPRESSORS, FANS, AND CONTROLS AND HEAT TRACING.
- PROVIDE FACTORY MOUNTED DISCONNECT SWITCH AND POWER SUPPLY MONITOR.
- PROVIDE PRESSURE GAUGES FOR CHILLED WATER LINES.
- PROVIDE COIL GUARDS.
- CHILLERS SHALL BE MANUFACTURED BY TRANE.
- PROVIDE WITH MODULE TO DIRECT CONNECT TO DDC CONTROLS SYSTEM.
- PROVIDE WITH FACTORY DIPPED CORROSION RESISTANT CONDENSER COIL COATING.
- PROVIDE WITH EVAPORATOR STRAINER.
- PROVIDE WITH FACTORY INSTALLED FLOW SWITCH.
- PROVIDE WITH VIBRATION ISOLATORS.
- PROVIDE WITH EVAPORATOR INSULATION SUITABLE FOR HUMID ENVIRONMENTS.

GAS HOT WATER BOILER SCHEDULE

MARK	TYPE UNIT	BOILER RATINGS		BURNER DATA						WATER DATA			ELECTRICAL DATA				BASIS OF DESIGN	REMARKS	
		NET OUTPUT MBTU/HR	OPERATING PRESSURE PSIG	FIRING RATE CFH	EFFICIENCY PERCENT	GAS PRESSURE AVAILABLE	TYPE	FUEL	FLUE SIZE	COMBUSTION CONTROL	GPM	°F LVG.	MAX WPD (FT)	BLOWER HP	VOLTS	PHASE			HERTZ
B-1	FORCED DRAFT	641	160	750	88	2" W.C.	FORCED DRAFT	NAT. GAS	8"	MODULATING GAS VALVE	64.1	180	1.6	1.5	460	3	60	RBI FUTERA III	

GAS HOT WATER BOILER SCHEDULE NOTES

- BOILERS AND BURNERS SHALL BE UL LISTED AND FACTORY TESTED. BOILERS SHALL BE APPROVED BY AGA, ASME INSPECTED, AND STAMPED FOR WORKING PRESSURE, COMPLETE WITH MANUFACTURERS DATA REPORT. BOILERS SHALL BE PROVIDED WITH RELIEF VALVES AS REQUIRED BY ASME CODE. SCHEDULED EFFICIENCY IS STEADY STATE AT HIGH FIRE.
- PROVIDE WITH MODULE TO DIRECT CONNECT TO DDC CONTROLS SYSTEM.
- PROVIDE WITH WATER FLOW SWITCH, P&T GAUGE, AND GAS SHUTOFF VALVE.
- ALTERNATIVE MAKE AND MODEL ACCEPTABLE IF SCHEDULED PERFORMANCE DATA IS MET.
- PROVIDE WITH MANUFACTURER SELECTED BOILER CIRCULATOR PUMP. CIRCULATOR PUMP SHALL BE POWERED BY BOILER.

PUMP SCHEDULE

MARK	SERVICE	TYPE	PERFORMANCE DATA				ELECTRICAL DATA					BASIS OF DESIGN
			CAPACITY GPM	HEAD FT. W.C.	MOTOR RPM	MINIMUM EFFICIENCY (%)	MAXIMUM MOTOR H.P.	VOLTS	PHASE	HERTZ	MOTOR CONTROL	
HWP-1	BOILER PUMP	CC-ES	63	95	3450	59.2	7.5	460	3	60	STARTER	FLOFAB 1004-C1215A
CHWP-1	CHILLER PUMP	CC-ES	144	114	3450	59.4	10	460	3	60	STARTER	FLOFAB PSM15-02

PUMP NOTES:

- PUMP SHALL BE NON OVER LOADING THROUGHOUT THE ENTIRE PUMP CURVE.
- PUMP SHALL HAVE NEMA PREMIUM TEFC MOTOR.
- PROVIDE PRESSURE GAGES FOR PUMP WATER LINES
- PROVIDE STAINLESS STEEL DRAIN PANS ON ALL BASE MOUNTED PUMPS. PIPE DRAINS TO FLOOR DRAIN
- FIELD VERIFY HEAD FT, WC PRIOR TO PURCHASING PUMPS
- PUMPS TO BE PROVIDED WITH MECHANICAL SEAL
- CONTRACTOR SHALL COORDINATE ALL ELECTRICAL REQUIREMENTS
- PROVIDE HWP-1 WITH SUCTION DIFFUSER
- PROVIDE INERTIA BASE FOR ALL END SUCTION PUMPS
- PROVIDE ALL PUMPS WITH SPARE MECHANICAL SEAL
- ALTERNATIVE MAKE AND MODEL ACCEPTABLE IF SCHEDULED PERFORMANCE DATA IS MET.

PUMP SCHEDULE LEGEND

CC – CLOSE COUPLED
ES – END SUCTION

35% SUBMITTAL – NOT FOR CONSTRUCTION

REVISION	DATE	DESCRIPTION	BY	APPR'D
BASE CIVIL ENGINEER EGLIN AIR FORCE BASE, FLORIDA				
SABER PROJECT MANAGER		TITLE		
DATE _____ SIGNATURE _____ APPROVED _____ CENM _____ DRAWN BY <u>S. MCCRAW</u> PROJ. ENGR. <u>S. JOHNSON</u>		REPLACE AHU'S, CHILLER, BOILER IN BUILDING 843		
SABER AS-BUILT DRAWING BASED ON 35% DESIGN		CONTENTS MECHANICAL SCHEDULES		
APPROVED _____ 96 CEG/CEN		DATE JUNE 2024		
APPROVED _____ BASE CIVIL ENGINEER		SCALE AS SHOWN		
SPEC. NO.	PROJ. NO. FTFA 23MM04	DRAWING NO.	FILE NO.	SHEET OF .

PETERSON ENGINEERING INC.

(PROF. ENG. # 3600)
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