



REQUEST FOR INFORMATION FOR

RFI # 1

NAME : VA Mare Island Outpatient Clinic
ADDRESS: 201 Walnut Ave, Vallejo, CA 94592
JOB # : SP-15-121

CONTRACT/ SUPPLIER
OWNER DISTRIBUTION

DRAWING LOCATION : H-601

MAIN OFFICE
X CONTRACTOR

SPEC. SECTION:

X FILE

TO : Department Of Veterans Affairs

ATTN: Jaclyn Williams

TITLE OR DESCRIPTION : Chiller Model Number Clarification

COST EFFECT : TBD

ISSUED BY : Joey Clark

SCHED. EFFECT:

DATE : 2/23/2015

R.F.I. DIRECTION NOTICE :

___ PROCEED WITH WORK PER DIRECTIVE NO. _____

___ DO NOT PROCEED WITH WORK _____

INFORMATION REQUESTED :

On sheet H-601 the Fluid chiller schedule calls out for CH-1 & CH-2 to be Multistack units model number MS5082FC. After contacting the equipment manufacture we believe this number to be incorrect. Please clarify if this is in fact the correct model number and if not please provide the correct chiller model numbers.

DATE RESPONSE REQUESTED BY : 2/25/2015

REPLY :

The manufacturers model number was obtained from the local multistack representative and is correct.

BY : David Hammond, PE

DATE : 2/24/15

A

U

C

D

E

F

A

B

C

D

E

F

FLUID COOLER SCHEDULE

MARK	LOCATION	SERVICE	TOWER TYPE	TOTAL NOMINAL CAPACITY		# CELLS	FLOW RATE EACH CELL		WPD		TEMPERATURE						FAN MOTOR						SPRAY PUMP POWER		SPRAY PUMP FLOW RATE		INTERNAL COIL VOLUME		MAX OPERATING WEIGHT		MAX HEIGHT W/ HANDRAIL		MANUFACTURER	MODEL NO.	REMARKS	
											AMBIENT WB		EWT		LWT		NO	POWER		PHASE	VOLT	RPM														SPEED CONTROL
				TONS	(KW)		GPM	(L/S)	FT	(KPA)	PSIG	(KPA)	*F	(°C)	*F	(°C)		HP	(KW)																	
FC-1	OUTSIDE MECH ROOM	CONDENSER WATER	FLUID COOLER	75	(330)	1	225	(14)	7.2	(22)	71.0	(22)	90	(32)	80	(27)	1	25	(19)	3	460	1,800	VFD	1.5	(1.1)	220	(14)	198	(750)	13,000	(5900)	15	(5)	BAC	VF1-048-41N	-

PUMP SCHEDULE

MARK	LOCATION	AREA AND/OR BLDG SERVED	SYSTEM AND/OR SERVICE	TYPE	CIRCULATING FLUID										MIN. % EFF	ELECTRICAL						MANUFACTURER	MODEL NO.	REMARKS
					FLUID	FLOW		HEAD		NPSH AVAILABLE		TEMPERATURE		SP GR		NOMINAL POWER		PHASE	VOLT	MAX RPM	SPEED CONTROL			
						GPM	(L/S)	FT	(KPA)	FT	(KPA)	*F	(°C)			HP	(KW)							
CWP-1A	MECH ROOM	BUILDING 201	CONDENSER WATER	VERTICAL IN LINE	CONDENSER WATER	450	(28)	110	(329)	CLOSED SYSTEM	N/A	80	(27)	1	75	25	(19)	3	460	3,600	SEE NOTE	ARMSTRONG	4300 IVS 3x3x8	-
CWP-2A	MECH ROOM	BUILDING 201	CONDENSER WATER	VERTICAL IN LINE	CONDENSER WATER	450	(28)	110	(329)	CLOSED SYSTEM	N/A	80	(27)	1	75	25	(19)	3	460	3,600	SEE NOTE	ARMSTRONG	4300 IVS 3x3x8	-
CHP-1	MECH ROOM	BUILDING 201	CHILLED WATER	END SUCTION	CHILLED WATER	265	(16.4)	50	(150)	CLOSED SYSTEM	N/A	44	(6.7)	1		5	(3.7)	3	460	1750		ARMSTRONG	4280 4x3x8	-
CHP-2	MECH ROOM	BUILDING 201	CHILLED WATER	END SUCTION	CHILLED WATER	265	(16.4)	50	(150)	CLOSED SYSTEM	N/A	44	(6.7)	1		5	(3.7)	3	460	1750		ARMSTRONG	4280 4x3x8	-

AIR SEPERATOR SCHEDULE

MARK	LOCATION	SYSTEM AND/OR SERVICE	TYPE	AIR SEPERATOR										MANUFACTURER	MODEL NO.	REMARKS
				SIZE IN		FLOW		WPD		WATER TEMP.	BUILT IN STRAINER	DIAMTER x HEIGHT	WEIGHT			
				IN	(MM)	GPM	(L/S)	FT	(KPA)	*F		IN	LBS			
AS-1	MECH ROOM	CONDENSER WATER	VORTEX	8	(150)	450	(28)	0.9	(3)	80	NO	16x32	265	ARMSTRONG	VA-6	-

EXPANSION TANK SCHEDULE

MARK	LOCATION	SYSTEM AND/OR SERVICE	TYPE	APPROX. SYSTEM VOLUME		SYSTEM TEMPERATURE RANGE				INITIAL PRESSURE IN TANK		MAX OPERATING PRESSURE		FILL PRESSURE AT TANK				MIN VOLUME TANK		MIN BLADDER VOLUME		PIPE SIZE TO TANK		COLD WATER FILL SIZE		MANUFACTURER	MODEL NO.	REMARKS
						MIN		MAX						RELIEF VALVE		AT TANK												
				GAL	(L)	*F	(°C)	*F	(°C)	PSIG	(KPA)	PSIG	(KPA)	PSIG	(KPA)	PSIG	(KPA)	GAL	(L)	GAL	(L)	IN	(MM)	IN	(MM)			
ET-1	MECHANICAL ROOM	CONDENSER WATER	VERTICAL BLADDER	6,500	(25000)	40	(4)	100	(38)	12	(83)	125	(860)	92.7	(640)	12	(83)	80	(300)	80	(300)	1.5	(38)	1.5	(38)	ARMSTRONG	A300-L-CAL S G	-

CHILLER SCHEDULE

UNIT	LOCATION	NO. MODULE	MIN. TOTAL TONS	MAX. IPLV	COMPRESSOR MOTOR		EVAPORATOR					CONDENSER					OPERATING WEIGHT LBS.	MANUFACTURER AND MODEL NO.	REMARKS
					KW INPUT	V/ø/HZ	GPM	EWT °F	LWT °F	HD. FT.	PASSES NO.	GPM	EWT °F	LWT °F	HD. FT.	PASSES NO.			
CH-1	MECH ROOM	1	75	.365	46.5	460/3/60	130	60	44	11	4	225	80	90	6.6	2	5430	MULTISTACK MS5082FC	1, 2, 3, 4, 5, 6 & 7
CH-2	MECH ROOM	1	75	.365	46.5	460/3/60	130	60	44	11	4	225	80	90	6.6	2	5430	MULTISTACK MS5082FC	1, 2, 3, 4, 5, 6 & 7

1. COMPRESSOR TO BE OIL A CENTRIFUGAL OIL FREE MAGNETIC BEARING TYPE.
2. PROVIDE NON FUSED MAIN POWER DISCONNECT.
3. PROVIDE REFRIGERANT LEAK DETECTION, CONNECT TO (E) JOHNSON CONTROLS BUILDING MANAGEMENT SYSTEM (BMS) AND ALERT WHEN ALARMED.
4. PROVIDE FLOW SWITCH FOR CONDENSER WATER AND CHILLED WATER.
5. CHILLER SHALL TIE INTO THE EXISTING JOHNSON CONTROLS BUILDING MANAGEMENT SYSTEM (BMS). CHILLED WATER SET POINT SHALL BE ADJUSTABLE BY THE BMS. MONITOR CONDENSER WATER SUPPLY AND RETURN TEMP, CHILLED WATER SUPPLY AND RETURN TEMP, CHILLER FAULT INDICATION TO ALARM.
6. MAXIMUM SHELL LENGTH 6 FEET.
7. MULTI-STACK OR APPROVED EQUIVALENT

Are these model numbers correct?

SCOPE OF WORK

CONSULTANTS:

KEY PLAN

STAMP

ARCHITECT/ENGINEERS:

Drawing Title
MECHANICAL SCHEDULES

Project Title
VA MARE ISLAND
OUTPATIENT CLINIC
CHILLER INSTALLATION

Project Number
612-14-035
Building Number
201

Office of
Facilities
Management

Department of
Veterans Affairs

Approved: Project Director

Location
VALLEJO, CA

Date
11/11/2014

Checked
D. HAMMOND

Drawn
J. ROTHMEN

Drawing Number
H-601