



FILE NO: 100.642
 DATE: Aug. 10, 2010
 SUPERSEDES: 100.642
 DATE: Jun. 10, 2010

Integrated Plant Package

Plant Type 2 Open

SUBMITTAL

JOB: _____ REPRESENTATIVE: _____

ENGINEER: _____ ORDER NO: _____ DATE: _____

CONTRACTOR: _____ SUBMITTED BY: _____ DATE: _____

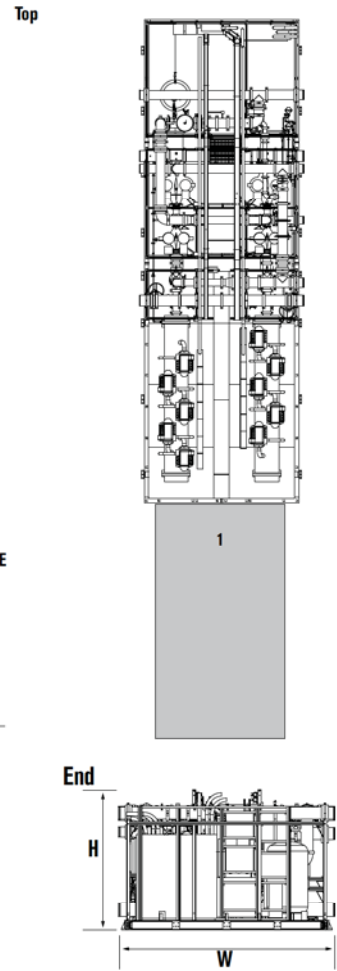
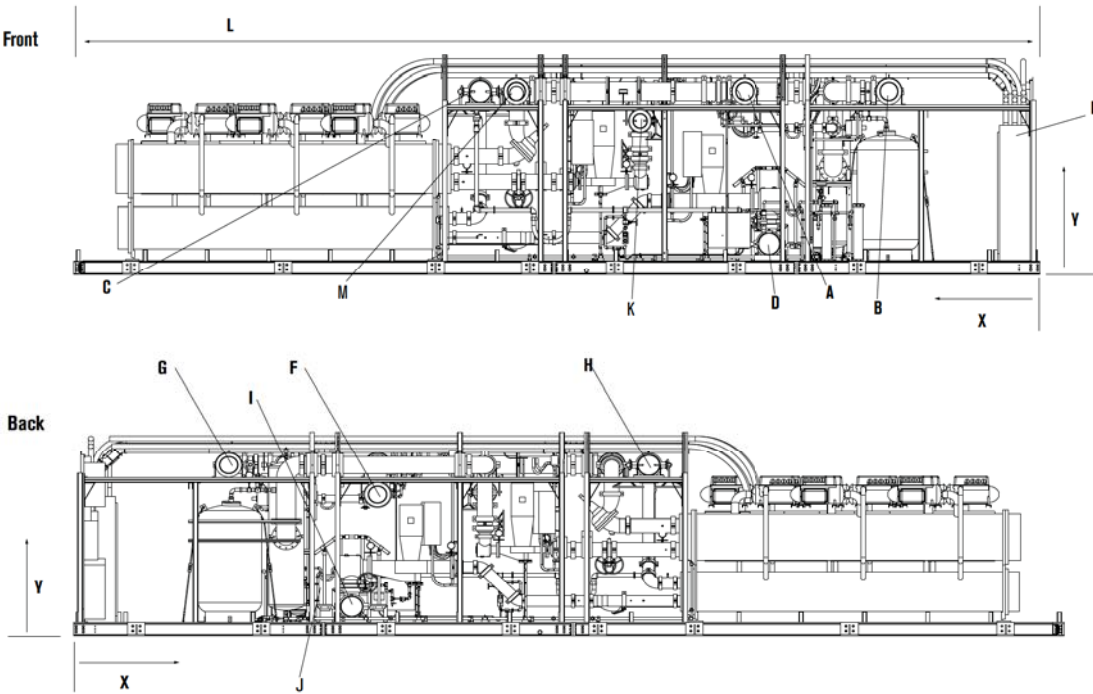
APPROVED BY: _____ DATE: _____

Plant Tons		160	260	336	420	520	720	850	
# Chillers		2	2	2	2	2	2	2	
Tons per Chiller		80	130	168	210	260	360	425	
Tube access area (in.)		52.4	52.4	60.2	123.2	123.2	139.0	158.7	
Has Enclosure		N	N	N	N	N	N	N	
ARI (Chiller - Integrated Part Load Volume)	100% Load	Capacity	160	260	336	420	540	720	850
		kW In	99	153.2	210.2	254.2	323	415	533.6
		Performance (kW/ton)	0.619	0.619	0.619	0.619	0.619	0.619	0.619
	75% Load	Capacity	120	195	252	315	405	540	637.6
		kW In	55.4	81.8	117.4	144.4	171.2	224.4	297.8
		Performance (kW/ton)	0.462	0.462	0.462	0.462	0.462	0.462	0.462
	50% Load	Capacity	80	130	168	210	270	360	425
		kW In	25.2	36.6	53	66.8	76.2	114.4	134.2
		Performance (kW/ton)	0.315	0.315	0.315	0.315	0.315	0.315	0.315
	25% Load	Capacity	40	65	84	105	135	180	212.6
		kW In	13.4	17.4	24.6	32.2	36.2	50.4	62.2
		Performance (kW/ton)	0.336	0.336	0.336	0.336	0.336	0.336	0.336
Max Flow (USGPM)	Condenser (USGPM)	480	780	1008	1260	1620	2160	2550	
	Evaporator (USGPM)	382	620.8	802.2	1002.8	1289.4	1719.2	2029.6	
	Connection Size								
Current Draw (Amps)	460V	Condenser Water	5"	8"	8"	8"	10"	10"	12"
		Chilled Water	5"	6"	8"	8"	8"	10"	10"
		Chiller	160	240	320	432	480	660	800
		CT Fan	14	40	52	52	52	77	77
		CHWP	84	108	108	136	160	208	208
		CWP	44	84	84	84	272	272	160
	575V	Others	60	60	60	60	60	60	60
		Total	362	532	624	764	1024	1277	1305
		MCA, (A)	402	592	704	872	1144	1442	1505
		MOP, (A)	562	832	1024	1304	1624	2102	2305
		Chiller	128	192	256	345.6	384	528	640
		CT Fan	11	19.2	19.2	47.4	57.4	19.2	19.2
		CHWP	68	88	88	108	128	164	164
		CWP	36	68	68	68	136	136	128
		Others	48	48	48	48	48	48	48
		Total	291	415.2	479.2	617	753.4	895.2	999.2
		MCA, (A)	323	463.2	543.2	703.4	849.4	1027.2	1159.2
		MOP, (A)	451	655.2	799.2	1049	1233.4	1555.2	1799.2
Dimensions	Overall Dimensions	Length (L)	29'-5"	29'-5"	30'-0"	35'-5"	35'-5"	36'-8"	38'-4"
		Width (W)	11'-10"	11'-10"	11'-10"	11'-10"	11'-10"	11'-10"	11'-10"
		Open Plant Height (HO)	11'-6"	11'-6"	11'-6"	11'-6"	11'-6"	11'-6"	11'-6"

Plant Tons		160	260	336	420	520	720	850	
# Chillers		2	2	2	2	2	2	2	
Tons per Chiller		80	130	168	210	260	360	425	
Dimensions	A. Front Chilled Water Supply	X	695*	695*	695*	695*	695*	695*	695*
		Y	115	115	115	115	115	115	115
	B. Front Chilled Water Return	X	15*	15*	15*	15*	15*	15*	15*
		Y	115	115	115	115	115	115	115
	C. Front Condenser Leaving Water	X	15*	15*	15*	15*	15*	15*	15*
		Y	27*	27*	27*	27*	27*	27*	27*
	D. Front Condenser Return Water	X	223*	223*	223*	223*	223*	223*	223*
		Y	115	115	115	115	115	115	115
	E. Electrical Connection	X	411*	411*	411*	411*	411*	411*	411*
		Y	108	108	108	108	108	108	108
	F. Back Chilled Water Supply	X	695*	695*	695*	695*	695*	695*	695*
		Y	115	115	115	115	115	115	115
	G. Back Chilled Water Return	X	15*	15*	15*	15*	15*	15*	15*
		Y	100*	100*	100*	100*	100*	100*	100*
	H. Back Condenser Leaving Water	X	15*	15*	15*	15*	15*	15*	15*
		Y	27*	27*	27*	27*	27*	27*	27*
	I. Back Condenser Return Water	X	223*	223*	223*	223*	223*	223*	223*
		Y	115	115	115	115	115	115	115
J. Water Make-up	X	72	72	72	72	72	72	72	
	Y	32	32	32	32	32	32	32	
K. Auxiliary Chilled Water Supply (from main chiller to back up unit)	X	199*	199*	199*	199*	199*	199*	199*	
	Y	115	115	115	115	115	115	115	
M. Auxiliary Chilled Water Return (from back up to main chiller)	X	127*	127*	127*	127*	127*	127*	127*	
	Y	102*	102*	102*	102*	102*	102*	102*	
Total Weight (lbs)		19,800	29,040	29,920	34,320	36,960	43,120	49,280	

Note 1*: Dimensions can vary by +/- 6" depending on unit size
 Note 2: Weights are estimated

Access Clearance Requirement		
1	Chiller tube cleaning or tube replacement:	
	Chiller Tons	Access Length (in)
	80	52.40
	130	52.40
	168	60.20
	210	123.20
	260	123.20
	360	139.00
	425	158.70
	500	178.40



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