



FILE NO: 100.643  
 DATE: Aug. 10, 2010  
 SUPERSEDES: 100.643  
 DATE: Jun. 10, 2010

**Integrated Plant Package**

**Plant Type 2 Enclosed**

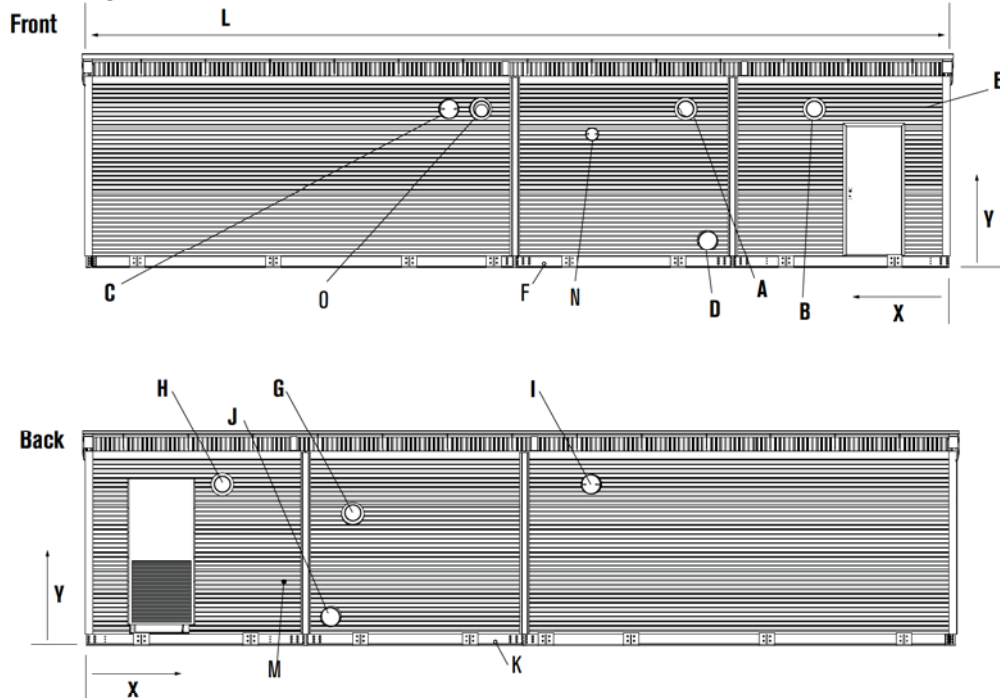
**SUBMITTAL**

JOB: \_\_\_\_\_ REPRESENTATIVE: \_\_\_\_\_  
 \_\_\_\_\_  
 ENGINEER: \_\_\_\_\_ ORDER NO: \_\_\_\_\_ DATE: \_\_\_\_\_  
 \_\_\_\_\_ SUBMITTED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CONTRACTOR: \_\_\_\_\_ APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

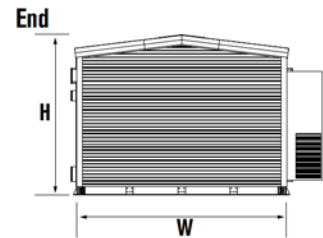
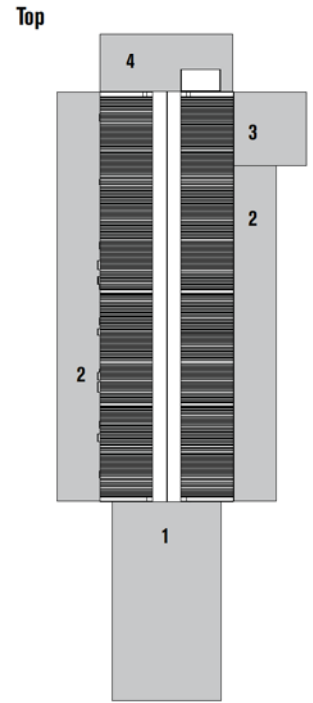
Plant Tons		80	130	168	210	260	360	425	500	
# Chillers		1	1	1	1	1	1	1	1	
Tons per Chiller		80	130	168	210	260	360	425	500	
Tube access area (in.)		52.4	52.4	60.2	123.2	123.2	139.0	158.7	178.4	
Has Enclosure		Y	Y	Y	Y	Y	Y	Y	Y	
ARI (Chiller - Integrated Part Load Volume)	100% Load	Capacity	80	130	168	210	270	360	425	500
		kW In	49.5	76.6	105.1	127.1	161.5	207.5	266.8	312.7
		Performance (kW/ton)	0.619	0.59	0.626	0.605	0.598	0.576	0.628	0.625
	75% Load	Capacity	60	97.5	126	157.5	202.5	270	318.8	375
		kW In	27.7	40.9	58.7	72.2	85.6	112.2	148.9	174.9
		Performance (kW/ton)	0.462	0.419	0.466	0.458	0.423	0.415	0.467	0.466
	50% Load	Capacity	40	65	84	105	135	180	212.5	250
		kW In	12.6	18.3	26.5	33.4	38.1	57.2	67.1	79.1
		Performance (kW/ton)	0.315	0.282	0.316	0.318	0.282	0.318	0.316	0.316
	25% Load	Capacity	20	32.5	42	52.5	67.5	90	106.3	125
		kW In	6.7	8.7	12.3	16.1	18.1	25.2	31.1	36.6
		Performance (kW/ton)	0.336	0.269	0.293	0.306	0.269	0.28	0.292	0.293
Max Flow (USGPM)	Condenser (USGPM)	240	390	504	630	810	1080	1275	1500	
	Evaporator (USGPM)	191	310.4	401.1	501.4	644.7	859.6	1014.8	1193.8	
Connection Size	Condenser Water	4"	5"	5"	6"	6"	8"	8"	8"	
	Chilled Water	4"	5"	5"	6"	6"	8"	8"	8"	
Current Draw (Amps)	460V	Chiller	80	120	160	216	240	330	400	480
		CT Fan	7.6	11	14	14	21	68	68	40
		CHWP	42	54	54	68	80	104	104	130
		CWP	22	42	42	42	136	136	80	104
		Others	60	60	60	60	60	60	60	60
		Total	211.6	287	330	400	537	698	712	814
		MCA, (A)	231.6	317	370	454	597	780.5	812	934
	MOP, (A)	311.6	437	530	670	837	1110.5	1212	1414	
	575V	Chiller	64	96	128	172.8	192	264	320	384
		CT Fan	6.1	9	11	11	17	34	34	32
		CHWP	34	44	44	54	64	82	82	104
		CWP	18	34	34	34	68	68	64	82
		Others	48	48	48	48	48	48	48	48
		Total	170.1	231	265	319.8	389	496	548	650
MCA, (A)		186.1	255	297	363	437	562	628	746	
MOP, (A)	250.1	351	425	535.8	629	826	948	1130		
Dimensions	Overall Dimensions	Length (L)	29'-5"	29'-5"	30'-0"	35'-5"	35'-5"	36'-8"	38'-4"	40'-0"
		Width (W)	11'-10"	11'-10"	11'-10"	11'-10"	11'-10"	11'-10"	11'-10"	11'-10"
		Height (H)	11'-6"	11'-6"	11'-6"	11'-6"	11'-6"	11'-6"	11'-6"	11'-6"

Plant Tons		80	130	168	210	260	360	425	500
# Chillers		1	1	1	1	1	1	1	1
Tons per Chiller		80	130	168	210	260	360	425	500
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. Front Drain	X	88	88	88	88	88	88	88
		Y	7	7	7	7	7	7	7
	G. Back Chilled Water Supply	X	695*	695*	695*	695*	695*	695*	695*
		Y	115	115	115	115	115	115	115
	H. Back Chilled Water Return	X	15*	15*	15*	15*	15*	15*	15*
		Y	100*	100*	100*	100*	100*	100*	100*
	I. Back Condenser Leaving Water	X	15*	15*	15*	15*	15*	15*	15*
		Y	27*	27*	27*	27*	27*	27*	27*
	J. Back Condenser Return Water	X	223*	223*	223*	223*	223*	223*	223*
		Y	115	115	115	115	115	115	115
K. Back Drain	X	88	88	88	88	88	88	88	
	Y	7	7	7	7	7	7	7	
M. Water Make-up	X	72	72	72	72	72	72	72	
	Y	32	32	32	32	32	32	32	
N. 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	
O. 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)		24,850	34,120	41,400	46,585	51,770	60,100	73,000	76,010

Note 1\*: Dimensions can vary by +/- 6" depending on unit size  
 Note 2: All pipes extend beyond structure by 6"  
 Note 3: Weights are estimated



Access Clearance Requirement		
1	Chiller tube cleaning or tube replacement:	Chiller Tons
		Access Length (in)
		80
		130
		168
		210
		260
		360
		425
		500
2	Walking access: 42.00	
3	Entry/access door: 72.00	
4	A/C unit servicing: 36.00	



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