



FILE NO: 100.641  
 DATE: Aug. 10, 2010  
 SUPERSEDES: 100.641  
 DATE: Jun. 10, 2010

# Integrated Plant Package

# Plant Type 1 Open

# SUBMITTAL

JOB: \_\_\_\_\_ REPRESENTATIVE: \_\_\_\_\_

ENGINEER: \_\_\_\_\_ ORDER NO: \_\_\_\_\_ DATE: \_\_\_\_\_

CONTRACTOR: \_\_\_\_\_ SUBMITTED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

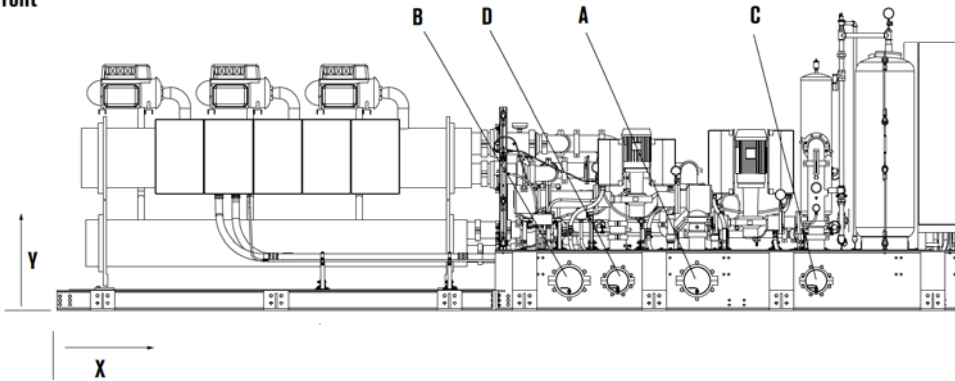
Plant Tons		80	130	168	210	260	360	425	500	
# Chillers		1	1	1	1	1	1	1	1	
Tons per Chiller		80	130	168	210	260	360	425	500	
Tube access area (in.)		52.4	52.4	60.2	123.2	123.2	139.0	158.7	178.4	
Has Enclosure		N	N	N	N	N	N	N	N	
ARI (Chiller - Integrated Part Load Volume)	100% Load	Capacity	80	130	168	210	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									
Current Draw (Amps)	460V	Condenser Water	4"	5"	5"	6"	6"	8"	8"	8"
		Chilled Water	4"	5"	5"	6"	6"	8"	8"	8"
		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)	38'-1"	38'-1"	38'-8"	44'-1"	44'-1"	45'-4"	47'-0"
	Width (W)		7'-6"	7'-6"	7'-6"	7'-6"	7'-6"	7'-6"	7'-6"	7'-6"
	Open Plant Height (HO)		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 Condenser Water Return	X	133	133	133	133	141	141	141	
		Y	8	8	8	8	12	12	12	12
	B. Front Condenser Leaving Water	X	57	57	57	57	60	60	60	60
		Y	8	8	8	8	12	12	12	12
	C. Front Chilled Water Return	X	154	154	154	154	161	161	161	161
		Y	8	8	8	8	12	12	12	12
	D. Front Chilled Water Supply	X	104	104	104	104	109	109	109	109
		Y	8	8	8	8	12	12	12	12
	E. Electrical Connection	X	30'-1"	30'-1"	30'-8"	36'-1"	36'-1"	37'-4"	39'-0"	40'-8"
		Y	100	100	100	100	106	106	106	106
	F. Back Condenser Water Return	X	133	133	133	133	141	141	141	141
		Y	8	8	8	8	12	12	12	12
	G. Back Condenser Leaving Water	X	57	57	57	57	60	60	60	60
		Y	8	8	8	8	12	12	12	12
	H. Back Chilled Water Return	X	154	154	154	154	161	161	161	161
		Y	8	8	8	8	12	12	12	12
	I. Back Chilled Water Supply	X	104	104	104	104	109	109	109	109
		Y	8	8	8	8	12	12	12	12
	J. Water Make-up	X	47.7*	47.7*	45.8*	45.3*	49	49	49	49
		Y	25.8*	25.8*	22.8*	21.1*	28	28	28	28
Total Weight (lbs)		14,850	21,120	22,400	25,060	27,720	32,340	42,500	46,500	

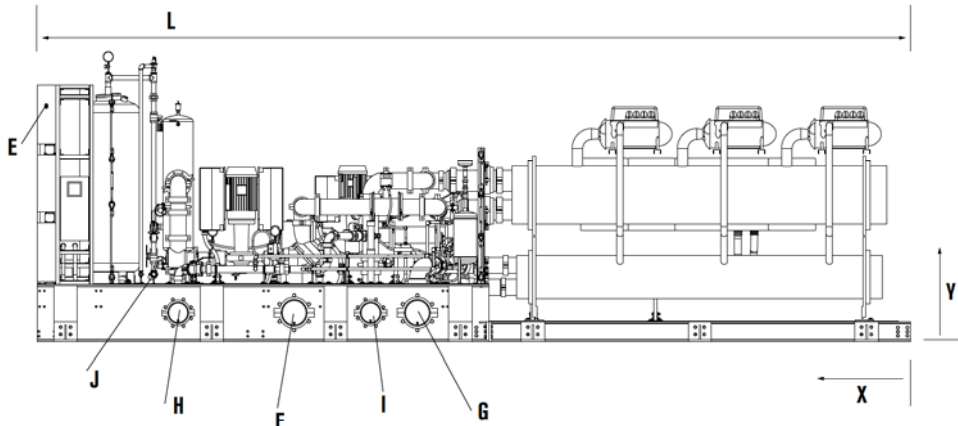
Note 1 Dimensions can vary by +/- 6" depending on unit size  
 Note 2 Weights are estimated

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

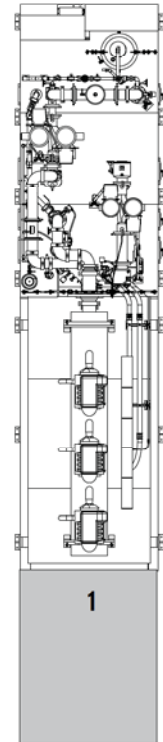
Front



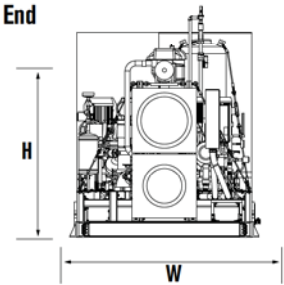
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