

ENERGY STORAGE WATER CHILLERS

TECHNICAL INFORMATION

TAE/TWE	Model	M05	M10	015	020	031	051	081	101	121	201	251	301	402	502	602
TAE Refrigeration Capacity (1) Btu/h Total FLA		6200	12300	20400	26250	39500	57200	80000	108000	128000	173000	221000	253000	349475	437689	522645
		8.1	12.9	6.0	7.3	10.2	13.8	19.5	23.7	31.2	38.4	46.6	57.7	62.4	76	98.4
TWE Refrigeration Capacity (2) Btu/h Total FLA		-	-	22300	28700	42000	65000	90000	118000	145000	197000	243000	279000	360000	-	-
		-	-	-	6.9	9.1	12.7	18.1	21.5	29	35.6	42.4	53.5	70.2	-	-
Compressor Quantity		1	1	1	1	1	1	1	1	1	2	2	4	4	4	4
Compressor Absorbed Power (3)kW		0.9	1.7	2.1	2.9	4.4	6.6	9.2	11.9	15.4	18.8	24.3	29.9	35	46.6	58.5
Standard Voltage		230/1/60			460/3/60											
Tank Size	Gal	7	7	16	16	30	30	45	70	70	105	105	105	160	160	160
Standard Pump Nominal Flow Available Head	HP	1/2	1/2	3/4	3/4	1	1	1.5	1.5	3	3	3	3	5.5	7.5	7.5
	GPM	1.2	2.4	4.2	5.5	8.0	12.0	16	22	26	35	44	50	69	87	104
	FT	75	62	98	97	97	96	94	87	81	87	78	64	125	125	125
Standard TAE Axial Fans	Quantity	1	1	1	1	1	1	1	2	2	2	3	3	3	3	3
	Total HP	.15	.15	.2	.2	.5	.5	.75	1	1	1.5	2.25	2.25	6.8	6.8	6.8
	Total CFM	650	1800	1950	1705	3500	3250	4650	6350	6200	9300	12800	12500	35294	32941	30882
Optional Centrifugal Fans	Quantity	-	-	-	-	1	1	2	2	2	3	3	3	3	3	3
	Total HP	-	-	-	-	1.5	1.5	3	3	3	4.5	4.5	4.5	19	19	19
	Avail. ESP (in wg)	-	-	-	-	.51-.54	.62-.95	1.18-1.22	.57-.98	.66-.97	1.08-1.24	.33-.85	.33-.96	.16-.84	.21-.84	.25-.75
Optional TWE Condenser	Flow-GPM @ 85 F	-	-	2.9	4.0	6.4	11.7	19	23	25	37	42	53	-	-	-
	Connections NPT	-	-	1 1/4	1 1/4	1 1/4	1 1/4	1 1/2	1 1/2	1 1/2	2	2	2	-	-	-
Dimensions	Width	29.2	29.2	21.2	21.2	29.3	29.3	29.3	29.3	29.3	33.8	33.8	33.8	49.5	49.5	49.5
	Depth (inches)	21.7	21.7	38.7	38.7	42.9	42.9	64.9	64.9	64.9	87.8	87.8	87.8	141.3	141.3	141.3
	Height	33.9	33.9	41.2	41.2	47.3	47.3	47.3	47.3	47.3	68.9	68.9	68.9	87.0	87.0	87.0
Weight	Lbs.	165	176	280	308	418	473	682	755	803	1573	1650	1695	3029	3150	3804
Chilled Water Connections	NPT	1/2	1/2	3/4	3/4	1	1	1 1/2	1 1/2	1 1/2	2	2	2	2 1/2	2 1/2	2 1/2

NOTES: (1) Chilled water supply 45F, return 55F, ambient 95F (3) Models 201-602 with 50% unloading
 (2) Chilled water supply 45F, return 55F, condenser water inlet 85F

CAPACITY CORRECTION FACTORS (Multiply catalog values by CF1 x CF2 x CF3)							
Chilled Water Temperature F Correction CF1	23	32	40	45	60		
	.63	.77	.93	1.0	1.3		
Ambient Temperature F Correction (TAE only) CF2	85	90	95	100	105		
	1.06	1.03	1.0	.96	.93		
Condenser Water F Correction (TWE only) CF2	75	80	85	90	95	100	105
	1.06	1.03	1.0	.96	.93	.90	.87
Ethylene Glycol Weight % Correction CF3	0	10	20	30	40	50	
	1	.99	.98	.97	.96	.94	

LIMITED WARRANTY: General Air Products, Inc. warrants its products to be free from defects in material and workmanship under normal use and service for 12 months from date of purchase, not to exceed 18 months from date of shipment. Our warranty applies only when such defective parts are returned to us, or our Authorized Service Depot, transportation prepaid, and subject to our inspection approval. Liability is limited to repair or replacement of material found defective, free of charge, FOB our plant. Unauthorized repairs or replacements will not be subject to factory warranty. This warranty is in lieu of all other warranties, expressed or implied.