

Job Information

VA Fresno

Cooling Tower Definition

Manufacturer	Marley	Fan Motor Speed	1200 rpm
Product	MD	Fan Motor Capacity per cell	30.00 BHp
Model	MD5018SCF2L	Fan Motor Output per cell	30.00 BHp
Cells	2	Fan Motor Output total	60.00 BHp
CTI Certified	Yes	Air Flow per cell	121800 cfm
Fan	11.00 ft, 4 Blades	Air Flow total	243600 cfm
Fan Speed	233 rpm, 8051.9 fpm	Static Lift	12.36 ft
Fans per cell	1	Distribution Head Loss	5.36 ft
		ASHRAE 90.1 Performance	72.0 gpm/Hp

Model Group Inline Ultra Quiet Fan (C)
Sound Pressure Level 65 dBA (All Cells), 55.00 ft from Air Inlet Side. See sound report for details.

Conditions

Tower Water Flow	3600 gpm	Air Density In	0.07154 lb/ft ³
Hot Water Temperature	95.00 °F	Air Density Out	0.07073 lb/ft ³
Range	10.00 °F	Humidity Ratio In	0.01507
Cold Water Temperature	85.00 °F	Humidity Ratio Out	0.03198
Approach	10.30 °F	Wet-Bulb Temp. Out	90.76 °F
Wet-Bulb Temperature	74.70 °F	Estimated Evaporation	34 gpm
Relative Humidity	50.0 %	Total Heat Rejection	17937000 Btu/h
Capacity	121.6 %		

- This selection satisfies your design conditions.

Weights & Dimensions

	Per Cell	Total
Shipping Weight	11840 lb	23690 lb
Heaviest Section	8000 lb	
Max Operating Weight	20420 lb	40840 lb
Width	11.83 ft	11.83 ft
Length	17.98 ft	36.17 ft
Height	20.67 ft	

Minimum Enclosure Clearance

Clearance required on air inlet sides of tower without altering performance. Assumes no air from below tower.

Solid Wall	6.93 ft
50 % Open Wall	3.66 ft

Weights and dimensions do not include options; refer to sales drawings. For CAD layouts refer to file 18F2&3H2.dxf

Cold Weather Operation

Heater Sizing (to prevent freezing in the collection basin during periods of shutdown)

Heater kW/Cell	18.0	15.0	12.0	9.0	7.5	6.0	4.5
Ambient Temperature °F	-20.04	-9.28	1.47	12.22	17.60	22.97	28.35