



AIR WASHER

SPECIFICATIONS

Evaporative coolers, often called swamp coolers, the supply airstream is in direct contact with water by means of an evaporative medium or wetted pad (such as fiberglass, fabricated paper, or aspen pad) or a series of spray misters. The supply air steam gains a lot of moisture in this process so cool,moist air must be exhausted from the cooled space and not reused or reconditioned.

- Best Efficiency
- Guaranteed Performance
- Timely Delivery
- Competitive prices

SUITABLE FOR:

- Automobiles
- Heavy / Medium engineering industries
- Pharmaceutical
- Hotels
- Restaurant
- Chemical industries
- Garment units
- Engineering units
- Industrial units

Evaporative Coolers Temperature Drop Chart

Ambient Dry bulbs Temperature	Percentage Relative Humidity								
	10%	20%	30%	40%	50%	60%	70%	80%	90%
10	4.0	4.5	5.5	6.0	7	7.5	8	9	9.5
15	7.5	8.5	9.5	10.5	11	12	13	13.5	14.3
20	11	12	13	14.5	15.5	16.5	17.5	18.5	19
25	14.5	16	17	18.5	20	21	22	23	24
30	17.5	19.5	21	22.5	24	25	26.5	28	29
35	20	23	25	26.5	28.5	30	31.5	32.5	34
40	23	26.5	29	31	32.5	34.5	N/A	N/A	N/A
45	26	29	32.5	35	N/A	N/A	N/A	N/A	N/A
50	29	32.5	36.5	N/A	N/A	N/A	N/A	N/A	N/A

SPECIFICATIONS

Single skin & Double Skin Air Washer



Air Washer	Single skin	Double Skin
Corner	Cast Iron	PVC
Sheet metal	18/16 G.G.I	24 G.I.-P.P. sheet outside 24 G.I inside
Insulation	No insulation	Puf insulation CFC free
Base	75/100 mm c channel or angle	75/100 mm c channel or angle
Tank	MS/SS	MS/SS
Filter frame	G.I. Aluminum	G.I. Aluminum
Vibration isolator	Cushy foot mounting	Cushy foot mounting
Fan	Centrifugal fan forward curved/ backward curved	Centrifugal fan forward curved/ backward curved
Cooling media	Cellouse pad	Cellouse pad
Air discharge	Horizontal/ Vertical	Horizontal/ Vertical
Air Washer	Ceiling suspended/foot	Ceiling suspended/foot
Placement	Mounting	Mounting

Fan Section

Dustech air washer made in single skin or double skin cabinets/housing.

Base:

The total assembly is mounted on a horizontal member of heavy galvanized steel channel with die cast aluminum corners for joining them together with liftingholes on all corners.

The Panels:

We have special software to designing the panels for standard air washer, to suit the site conditions for easy assembly. The panels are fixed to the rugged frame work made of aluminum section /G.I. section with special improvedfasteners/ nut bolts. The cabinet is airtight using self-adhesive tapes and gaskets.

Fan Motor & Drive Set:

We offer fan is forward and backward curved design, statically and dynamically balanced with low noise levels and high efficiency from 300 mm dia to 1250 mm dia, the fan & motors are mounted on MS channel /G.I fabricated slide rails with provision of easy belt tensioning. The complete assembly is mounted on spring/ rubber vibration isolators for smooth performance.

The fan is connected to the main casing, using fire and moisture resistant flexible canvass connection, ensuring low operating noise and vibration. The drive pulleys are taper bushed duly balanced with proper sized 'V' belts.

Wet Section

Water Tank:

The water tank is made of mild steel with anti-corrosive coating(FRP/EPOXY) and is designed for easy access for periodic cleaning.

Cellulose pad:

The dew flow Cellulose pads are made of imported origin and air designed for maximum saturation efficiencies, being having large air.

Filters:

The standard pre-filters are made of G.I/ Aluminum constructions having efficiency 90% down to 15 micro. Depends on application the fine filters of various efficiencies also can be provided.

Pipes & IT's Fitting:

The pipe and others fittings like gate valve, Y-strainers, float valves are of reputed make.

TECHNICAL DATA

S.No.	Capacity C.F.M.	Dimension			Fan Size	St. Pressure		RPM-BHP/HP		Pumps Rating
		L	W	H		25 MM	40 MM	50 MM	65 MM	
1	3000	1700	900	1200	315	805	1039	1177	1356	0.25 HP
						1.04/1.5	1.63/2	2.08/3	2.79/3	
2	4000	1800	1200	1200	355	689	886	1017	1209	0.25 HP
						1.23/1.5	1.89/2	2.44/3	3.5/5	
3	5000	1900	1500	1200	400	627	792	905	1059	0.25 HP
						1.53/2.00	2.29/3.0	2.93/5.0	4.02/5.0	
4	6000	1950	1200	1500	450	550	696	792	917	0.25 HP
						1.75/2	2.65/3	3.39/5	4.52/5	
5	7000	2050	1500	1500	450	561	692	775	899	0.5 HP
						2.24/3	3.16/5	3.87/5	5.11/7.5	
6	8000	2100	1200	1800	500	527	654	731	844	0.5 HP
						2.45/3	3.58/5	4.41/5	5.90/7.5	
7	10000	2200	1500	1800	560	462	573	645	747	0.5 HP
						2.91/5.0	4.24/7.5	5.31/7.5	7.12/10	
8	11000	2200	1650	1800	560	469	575	641	739	0.5 HP
						3.39/5	4.79/7.5	5.81/7.5	7.65/10	
9	12000	2300	1800	1800	630	416	516	577	670	0.5 HP
						3.57/5	5.85/7.5	5.53/7.5	8.80/10	
10	13000	2300	2100	1800	630	420	518	576	660	0.5 HP
						4.04/5	5.85/7.5	7.14/10	9.24/10	
11	15000	2450	1800	2100	710	365	456	512	601	1.0HP
						4.24/7.5	6.21/7.5	7.81/10	10.61/12.5	
12	18000	2500	2250	2100	710	378	459	510	581	1.0HP
						5.82/7.5	7.94/10	9.51/12.5	12.08/15	
13	20000	2700	2400	2100	800	316	394	441	509	1.0HP
						6.06/7.5	8.81/10	10.85/15	14.16/20	
14	22000	2700	2250	2400	800	321	398	441	504	1.0HP
						7.14/10	10.12/12.5	12.06/15	15.48/20	
15	25000	2900	2550	2400	900	283	353	396	458	1.0HP
						7.66/10	10.99/12.5	13.87/20	18.51/25	
16	27000	2900	2700	2400	900	287	353	395	454	1.0HP
						8.68/10	12.16/15	14.80/20	19.70/25	
17	30000	3000	3000	2400	1000	254	318	359	423	1.0HP
						8.64/10	13.02/15	16.65/20	23.30/30	
18	35000	3000	3000	2700	1000	260	318	355	408	1.0HP
						11.07/15	15.55/20	18.99/25	25.06/30	
19	40000	3000	3000	2850	1000	268	324	357	404	1.0HP
						14.14/20	18.97/20	22.41/25	28.21/30	
20	45000	4200	4200	2500	800/2	321	399	441	503	7.5 HP
						7.38/10	10.46/12.5	12.41/15	15.86/20	
21	50000	4400	4650	2500	900/2	283	353	396	458	7.5 HP
						7.14/10	10.12/12.5	12.06/15	15.48/20	
22	55000	4400	5100	2500	900/2	288	353	395	453	10HP
						8395/10	12.49/15	15.08/20	20.0/25	
23	60000	4700	4800	2800	1000/2	254	318	359	423	10 HP
						8364/10	13.02/15	16.65/20	23.30/30	



Five Stars



Stability



Safety



Easy Maintenance



Power Saving



Cost Effective



Artistic



Convenience



Intelligence



Performance

OUR OTHER EQUIPMENTS:

- ‡ Centrifugal Blower
- ‡ Axial Flow Fan
- ‡ Bag Filter
- ‡ Cyclone

- ‡ Wet Scrubber
- ‡ Dry Scrubber
- ‡ Spiral-Round Duct
- ‡ Rectangular Ducting

- ‡ Air Washer
- ‡ ESP Fume Collection Unit
- ‡ ESP Oil Collection Unit
- ‡ Flat-Oval Ducting



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