



**FanAir**



**AIR WASHER / KITCHEN SCRUBBER**

## AIR WASHER

( Evaporative Cooling Machine)

Evaporative Cooling Machine utilize the natural process of water evaporation along with an air-moving system to create effective cooling. Outside Ambient air is pulled through filters and it passes through the cellulose pads then it cool the air through water evaporation. A blower impeller circulates the cooled air throughout a department, Industrial Shed, hall etc. by a suitable Ducting System. It is a adiabatic process and works on the principal of heat conversion (sensible to latent). Heat from the incoming air passing through a wet media is used to evaporate the water lowering the “dry bulb” temperature. Evaporative cooled air will follow the same line as the “Wet Bulb” temperature on psychrometric chart.

**Capacity range** 1000 to 80000 CFM

## CONSTRUCTONAL FEATURES

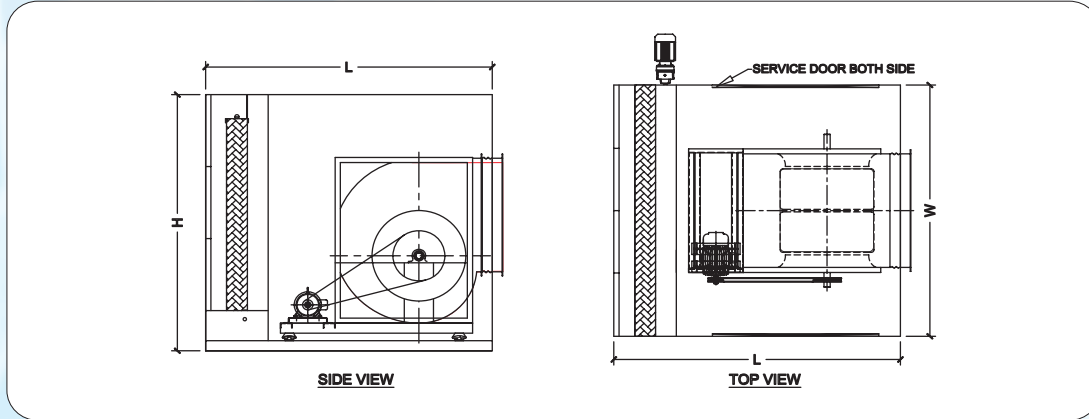
FRAME	: Extruded Aluminum profile.
BASE	: Heavy gauge base fame with cast Al corners
CASING	: 23 ± 2 mm thick, double skin panels made of 0.6 mm sheets with Poly Urethane Foam (PUF) of density 38 ± 2kg/cu.m injected between the two skins
COOLING PADS	: Cellulose paper pad 200 mm thick
FILTERS	: Synthetic/wire mesh pre filters.
BLOWERS	: DIDW centrifugal blowers, Common-rail base for blower-motor Assembly on vibration isolation pads.
MOTORS	: TEFC type, Three phase motors of standard make
MOTOR STAND	: Adjustable motor -mounting fixture
PULLEYS	: Adjustable Taper-Bush Pulleys
PUMPS	: Monoblock / Submersible pumps of standard make
SUMP	: SS 304 tank with socket connections for water in, overflow and drain complete with ball-cock valve etc.
MIST ELEMINATOR	: In PVC/ SS/ G.I.
CANVAS CONNECTION	: Flexibles connection to isolate blower from unit body

## APPLICATIONS

Large spaces such as Industries, Auditoriums, Banquets, Poultry farms, Packing halls, Schools, Residences, heat generation areas such as Production Floors ,Generator Rooms, Commercial Kitchens etc.



### General Arrangement of Air Washer



### Technical Details of Air Washer

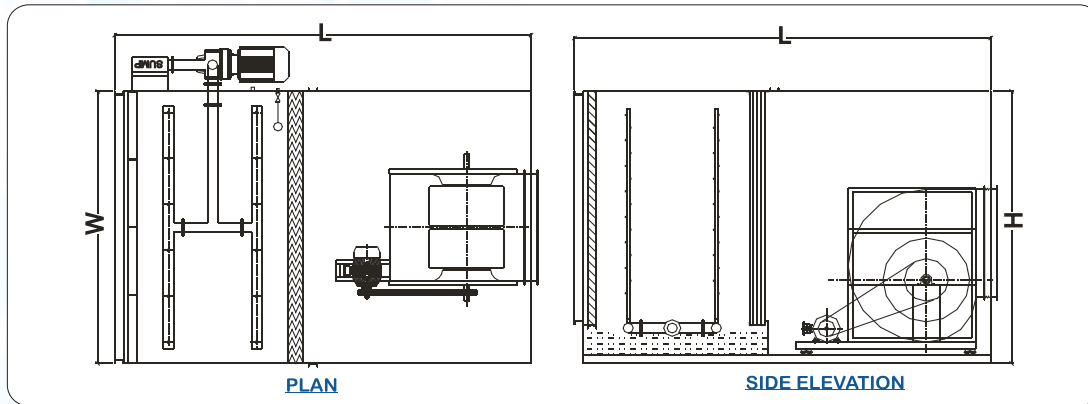
S.No.	CAPACITY C.F.M	DIMENSION			FAN SIZE	ST. PRESSURE		RPM-BHP/HP		PUMP RATING
		L	W	H		25 mm	40 mm	50 mm	65 mm	
1	3000	1700	900	1200	315	805	103	1177	1356	0.25 HP
						1.04 / 1.5	91.63 / 2	2.08 / 3	2.79 / 3	
2.	4000	1800	1200	1200	355	689	886	1017	1209	0.25 HP
						1.23 / 1.5	1.89 / 2	2.44 / 3	3.5 / 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	
9.	12000	2300	1800	1800	630	416	516	577	670	0.5 HP
						3.57 / 5	5.30 / 7.5	6.53 / 7.5	8.80 / 10	
10.	15000	2450	1800	2100	710	365	456	512	601	0.5 HP
						4.24 / 7.5	6.21 / 7.5	7.81 / 10	10.61 / 12.5	
11.	18000	2500	2250	2100	710	378	459	510	581	0.5 HP
						5.82 / 7.5	7.94 / 10	9.51 / 12.5	12.08 / 15	
12	20000	2700	2400	2100	800	316	394	441	509	0.5 HP
						6.06 / 7.5	8.81 / 10	10.85 / 15	14.16 / 20	
13.	25000	2900	2550	2400	900	283	353	396	458	1.0 HP
						7.66 / 10	10.99 / 12.5	13.87 / 20	18.51 / 25	
14.	30000	3000	3000	2400	1000	254	318	359	423	1.0 HP
						8.64 / 10	13.02 / 15	16.65 / 20	23.30 / 30	
15.	35000	3000	3000	2700	1000	260	318	355	408	1.0 HP
						11.07 / 15	15.55 / 20	18.99 / 25	25.06 / 30	
16.	40000	3000	3300	2850	1000	268	324	357	404	1.0 HP

### KITCHEN SCRUBBER

As the name suggest Kitchen Scrubber is a device which is used in a kitchen to scrub the fumes generated from the coking process. Kitchen Scrubber draws fumes from the kitchen through the hoods. These fumes will be scrubbed by high pressure water jets due to which all the contaminants such as oil, grease etc. are trapped and cleaned air will be exhausted to the environment. Fanair kitchen scrubber is highly efficient, very low pressure drop and hence maximum scrubbing efficiency.

Fanair manufactures wet type kitchen scrubbers, which are available in single skin metallic housing, accommodating aluminum/GI pre metallic filter, intake louvers, double bank GI spray headers with brass/PVC spray nozzles and PVC water eliminator. The unit is further complimented by SISW/DIDW centrifugal fan (fan section) to draw fumes through the scrubber and letting out relatively clean air. The water is re circulated by a pump through sump strainer. The scrubber internals can also be fixed in the masonry housings along with centrifugal/axial fans.

### General Arrangement Of Kitchen Scrubber



Technical Details Of Spray Type Scrubber

S.No.	CAPACITY C.F.M.	DIMENSION			FAN SIZE	ST. PRESSURE			RPM- BHP/HP	PUMP RATING
		L	W	H		40 MM	50 MM	65 MM		
1.	3000	3300	850	1260	315	1039	1177	1356	1 HP/2P	
						1.63 / 2	2.08 / 3	2.79 / 3		
2	4000	3500	1000	1350	355	886	1017	1209	1.5 HP/1.5P	
						1.89 / 2	2.44 / 3	3.5 / 5		
3	5000	3500	935	1620	400	792	905	1059	1.5 HP/1.5P	
						2.29 / 3.0	2.93 / 5.0	4.02 / 5.0		
4	6000	3550	1100	1620	450	696	792	917	2 HP/2P	
						2.65 / 3	3.39 / 5	4.52 / 5		
5	7000	3550	1150	1620	450	692	775	899	2 HP/2P	
						3.16 / 5	3.87 / 5	5.11 / 7.5		
6	8000	3800	1200	1930	500	654	731	844	2 HP/2P	
						3.58 / 5	4.41 / 5	5.90 / 7.5		
7	10000	3835	1300	1830	560	573	645	747	3 HP/2P	
						4.24 / 7.5	5.31 / 7.5	7.12 / 10		
9	12000	3835	1550	1930	630	516	577	670	3 HP/2P	
						5.30 / 7.5	6.53 / 7.5	8.80 / 10		
11	15000	4100	1650	2200	710	456	512	601	3 HP/2P	
						6.21 / 7.5	7.81 / 10	10.61 / 12.5		
12	18000	4100	1950	2200	710	459	510	581	5 HP/2P	
						7.94 / 10	9.51 / 12.5	12.08 / 15		
13	20000	4200	2200	2200	800	394	441	509	5 HP/2P	
						8.81 / 10	10.85 / 15	14.16 / 20		
14	25000	4400	2300	2525	900	353	396	458	5 HP/2P	
						10.99 / 12.5	13.87 / 20	18.51 / 25		
15	30000	4700	2400	2800	1000	318	359	423	5 HP/2P	
						13.02 / 15	16.65 / 20	23.30 / 30		
16	35000	4700	2800	2800	1000	318	355	408	5 HP/2P	
						15.55 / 20	18.99 / 25	25.06 / 30		
17	40000	4700	3200	2800	1000	324	357	404	7.5 HP/2P	
						18.97 / 20	22.41 / 25	28.21 / 30		



## DYNAMIC ENGINEERINGS

An ISO 9001:2008 Certified Company

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