



Evaporative air cooling & ventilation



BK AIR

FRESH AIR SOLUTION FOR LIFE



THE LEADER IN INDUSTRIAL AIR COOLING SYSTEMS

Our Air Washers Are the Innovative Solutions

Air washers are evaporative type cooling systems.

BKAIR air washers are one of the most reliable and efficient cooling systems. Air Washer utilize the natural process of water evaporation.

When the outside air enters into the unit through the cooling pads, it gets cooled by evaporation and is circulated in the department through G.I. ducts and Grills with the help of a blower. Air washers are most economical and efficient than air conditions, as, Air Washer introduces 100% fresh air, keeps the air moist, increases the cooling capacity as the outside temperature rises and the running cost is 90% less while, air conditions re-circulates the same stale air, reduces the moisture and running cost is very high.

SUITABLE FOR...

MALLS
CALL CENTERS
HOTELS
RESTAURANTS
HOSPITALS
AUTOMOBILE
ENGINEERING INDUSTRIES
CHEMICAL INDUSTRIES
GARMENT INDUSTRIES
AND MANY MORE INDUSTRIAL UNITS...



Air Washer-Double Skin



Air Washer-Single Skin

FEATURES	Single Skin Air Washer	Double Skin Air Washer
Outer Skin	18g G.I (single sheet panel)	24 G.I (double sheet panel)
Panel Supporting Structure	G.I.	Aluminium
Insulation	N/A	Puff insulation 25 mm thick
Type of Vibration Isolator for blower	Cushy Foot Mounting	Cushy Foot Mounting
Inspection doors	Yes	Yes
Material of Hinges	Aluminium	Aluminium
Water Tank	18 Gauge thick Stainless steel (SS-304) sheet	18 Gauge thick Stainless steel (SS-304) sheet
Filter Type	G.I./Aluminium Pre Filters	G.I./Aluminium Pre Filters
Filter thickness	50 mm	50 mm
Blower Type	Centrifugal DIDW Forward Curved/Backward Curved	Centrifugal DIDW Forward Curved/Backward Curved
Humidification Media	Cellulose Pad (imported)	Cellulose Pad (imported)
Thickness of Pad	200 mm	200 mm
Discharge Orientations	Horizontal /Vertical	Horizontal /Vertical
Mounting Arrangement	Foot Mounting/Ceiling Suspended	Foot Mounting/Ceiling Suspended

Main Components Of our Air Washers

CABINET/HOUSING :-The Cabinet/Housing mainly consists of BASE, PANELS & INSPECTION DOORS.

BASE :-

The total unit is mounted on a horizontal base made of heavy G.I. sheets & angles.

PANELS :-

The panels are made of G.I. which are fixed on the rugged frame made of G.I. section in Single Skin Air Washer & of Aluminium section in Double Skin Air Washer.

In Single Skin the panels are made from single GI sheet while in Double Skin,25 mm puff insulation is there between two sheets.

INSPECTION DOORS :-

BKAIR provides hinged service doors in the cabinets, for proper accessibility for maintenance purpose.

WATER TANK :-

The water tank is made of Stainless Steel/Mild Steel(with FRP/EPOXY) coating.

PIPE FITTINGS :-

BKAIR is using only reputed makes of pipes & fittings like Y-stainers gate valve, float valve, unions ,nipples etc.

CENTRIFUGAL BLOWER & MOTOR :-

BKAIR is using Forward & Backward Curved Centrifugal Blowers in Air Washers. The blower impellers are statically & dynamically balanced.BKAIR blowers have low noise level & high efficiencies.The blower & motor are mounted on a base fabricated from MS Angle/Channel with slide rails for easy belt tensioning.

FILTERS :-

We are using pre-filters in our Air Washers,which are made of G.I./Aluminium having 90% down to 20 microns filtration efficiency.

According to the application, Fine filters of various efficiencies can also be provided.

COMPETITIVE PRICES
SHORTER DELIVERIES

VIBRATION PAD :-

The complete blower assembly with motor and base is mounted on vibration isolators for smooth performance.

COOLING MEDIA:-

see details on next page...

DRIVE SET & FLEXIBLE CANVASS CONNECTION :-

BKAIR is using balanced taper bush pulleys with proper sized V-belts. Moisture resistant flexible canvass connection is used to connect the blower to cabinet/housing, to ensure low operating noise & vibration.

ACCESSORIES :-

BKAIR can provide various optional accessories as given below :-

- Fine Filters
- Fan Outlet Dampers
- Eliminators in PVC/Aluminium/G.I. construction
- Intake Louvers with Bird Mesh
- Safety Switches & Indicators
- Control Panels, etc.

Capacity Starts :-

With Single Blower - 3000 CFM - 40000 CFM

With Double Blower - 45000 CFM - 80000 CFM



COOLING PADS/CELLULOSE PADS

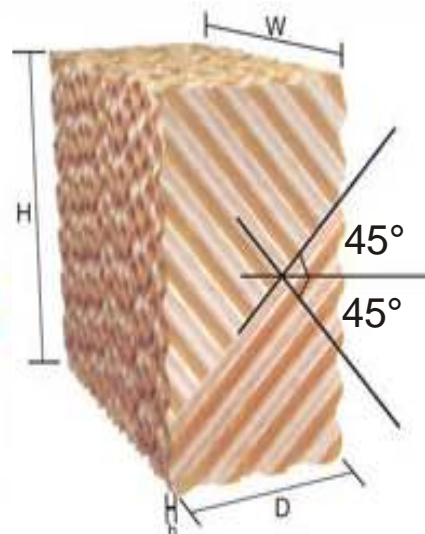
COOLING MEDIA:-

BKAIR is using CELLULOSE PADS as cooling media, which are of imported origin & are designed for maximum saturation efficiencies.

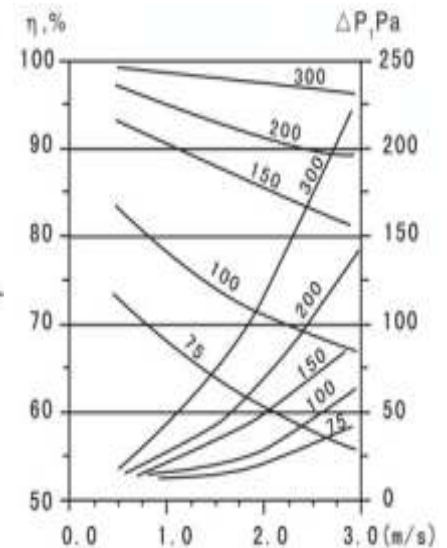
Cooling pad is one kind of specially made of corrugated cellulose paper, and its working theory is: water evaporates and absorbs heat of the natural physical phenomenon, Water drops from the top to the bottom with gravity, it forms water film on the rippling fiber surface of the cooling pad. When the flowing air passes through the cooling pad, water in the water film will absorb a lot of heat from the air and then evaporates, taking away a lot of heat, and make the air's temperature go down, thus the goal of cooling down will be reached.



Pre Filters



Cooling Pad



Performance Curve

Available Sizes

H(mm)	1800	1200	900	600
W(mm)	600	600	600	600
D(mm)	200	200	200	200
h(mm)	7	7	7	7

H: Height of pad
h: Height of tube
W: Width of pad
D: Depth of pad

The four characteristics of cooling pads :-

- High efficiency and energy saving,
- Ventilation In the whole system,
- Enhance the working efficiency,
- Healthy and environment protection.

For Your Aircooling Applications

The Other Salient Features of Our Air Washers :-

- Vibration Free performance
- Introduces 100% Fresh Air
- Windows & Doors left open
- Compact in Shape & Size
- Low Power Consumption
- Quieter Flow
- Low Maintenance
- Easy in Erection
- Large Air Volumes
- Keeps the air moist.
- No Brick/RCC foundation or platform required
- 70% less than the installation costs of Air Conditioning
- Increases cooling capacity as outside temperature rises

WHY CHOOSE BKAIR ?

For top aircooling performance and the best value for money system around, BKAIR is the smart choice.



THE LEADER IN INDUSTRIAL BLOWERS

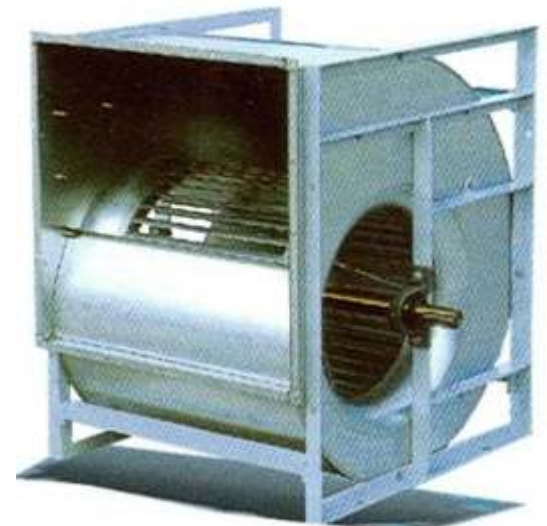
BKAIR - CENTRIFUGAL BLOWERS



Centrifugal Blower Backward Curved

Capacity ranges - 1000 CFM - 40000 CFM

Pressure ranges - 10 mmWG - 100 mmWG



Centrifugal Blower Forward Curved

Capacity ranges - 2000 CFM - 80000 CFM

Pressure ranges - 10 mmWG - 200 mmWG

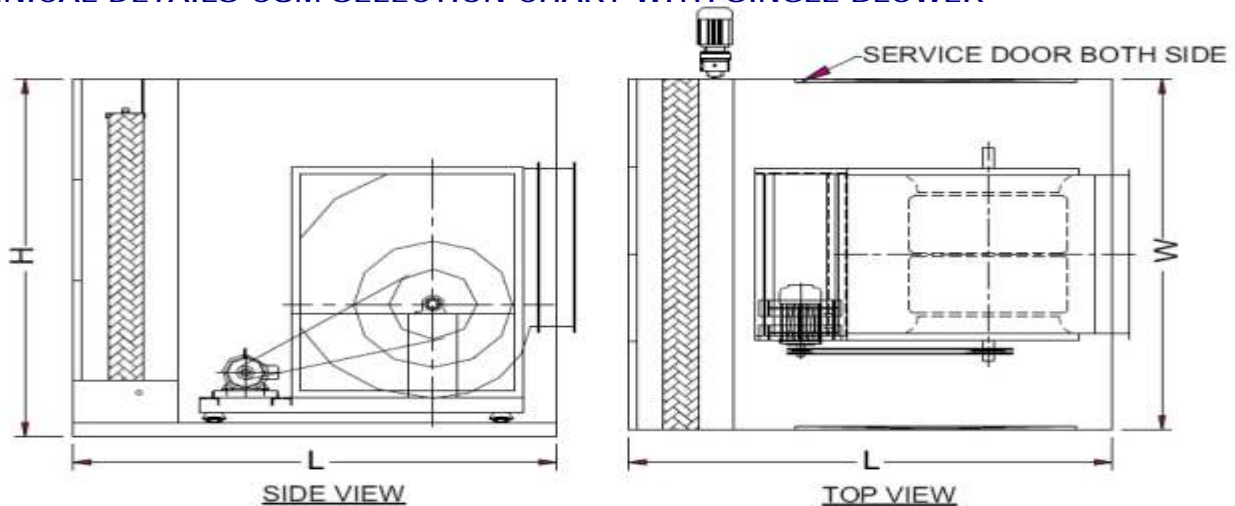
BKAIR offers different type of centrifugal blowers depending upon the application. BKAIR has a team of trained engineers and is capable in designing, supply, erection and commissioning of HVAC (Humidification, Ventilation and Air Conditioning) systems.

BKAIR centrifugal blowers are highly efficient and heavy duty, therefore BKAIR centrifugal blowers are in great demand. BKAIR centrifugal blowers have a wide range of applications in different type of industries such as automotive, foundries, power plants, chemical plants etc.

We are manufacturing blowers with best quality raw material. The impellers are statically and dynamically balanced.

General Arrangements of our Air Washers

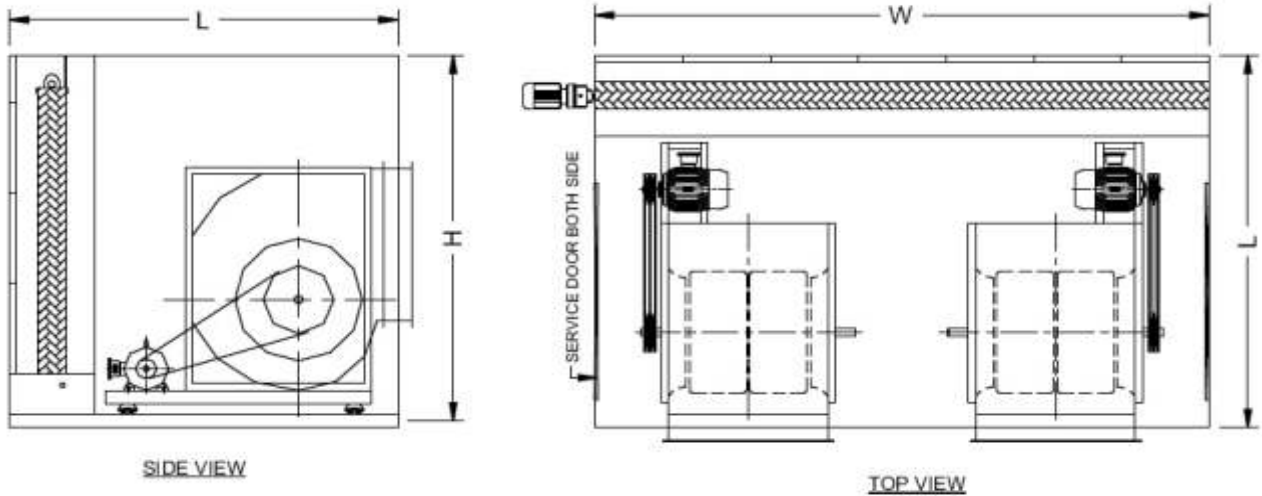
TECHNICAL DETAILS CUM SELECTION CHART WITH SINGLE BLOWER



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	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	5,30 / 7,5	6,53 / 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	1,0 HP
						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	1,0 HP
						5,82 / 7,5	7,94 / 10	9,51 / 12,5	12,08 / 15	
13	20000	2700	2400	2100	800	316	394	441	509	1,0 HP
						6,06 / 7,5	8,81 / 10	10,85 / 15	14,16 / 20	
14	22000	2700	2250	2400	800	321	398	441	504	1,0 HP
						7,14 / 10	10,12 / 12,5	12,06 / 15	15,48 / 20	
15	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	
16	27000	2900	2700	2400	900	287	353	395	454	1,0 HP
						8,88 / 10	12,16 / 15	14,80 / 20	19,70 / 25	
17	30000	3000	3000	2400	1000	254	318	359	423	1,0 HP
						8,64 / 10	13,02 / 15	16,85 / 20	23,30 / 30	
18	35000	3000	3000	2700	1000	260	318	355	408	1,0 HP
						11,07 / 15	15,55 / 20	18,99 / 25	25,06 / 30	
19	40000	3000	3300	2850	1000	268	324	357	404	1,0 HP
						14,14 / 20	18,97 / 20	22,41 / 25	28,21 / 30	

General Arrangements of our Air Washers

TECHNICAL DETAILS CUM SELECTION CHART WITH DOUBLE BLOWER



S. NO.	CAPACITY C.F.M.	DIMENSION			FAN SIZE/QTY.	STATIC PRESSURE		RPM- BHP / HP		PUMP MODEL
		L	W	H		25 MM	40 MM	50 MM	65 MM	
1.	45000	2700	4500	2400	800/2	321 7.38 / 10	399 10.46 / 12.5	441 12.41 / 15	503 15.86 / 20	1.0 HP
2.	50000	2900	5100	2400	900/2	283 7.14 / 10	353 10.12 / 12.5	396 12.06 / 15	458 15.48 / 20	2.0 HP
3.	55000	2900	5400	2400	900/2	288 8.95 / 10	353 12.49 / 15	395 15.08 / 20	453 20.0 / 25	2.0 HP
4.	60000	3000	6000	2400	1000/2	254 8.64 / 10	318 13.02 / 15	359 16.65 / 20	423 23.30 / 30	2.0 HP
5.	65000	3000	5700	2700	1000/2	257 9.78 / 12.5	317 14.16 / 20	356 17.67 / 20	414 24.01 / 30	2.0 HP
6.	70000	3000	6000	2700	1000/2	260 11.07 / 15	318 15.55 / 20	355 18.99 / 25	408 25.06 / 30	2.0 HP
7.	75000	3000	6000	2850	1000/2	264 12.56 / 15	321 17.18 / 20	355 20.56 / 25	405 26.48 / 30	2.0 HP
8.	80000	3000	6600	2850	1000/2	268 14.14 / 20	324 18.97 / 20	357 22.41 / 25	404 28.21 / 30	2.0 HP

a trusted name

- **BKAIR** - A complete solution company with respect to DUST, FUME & VENTILATION SYSTEMS.
- **BKAIR** - Provides turnkey solutions for your DUST, FUME & VENTILATION SYSTEMS.
- **QUALITY POLICY** - BKAIR have a strong faith that customers are the focal point of the business and their expectations and requirement needs to be understood thoroughly and fulfilled in all respect for a prosperous business.

We are committed to achieve customer satisfaction by delivering products of right quality at competitive price and on time delivery.



BKAIR operates a policy of continuous improvement and reserves the right to supply products that may differ from those illustrated and described in this brochure.

B.K.AIRCOOLING AND VENTILATION SYSTEMS

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