



Centrally air cool large spaces

with 100% fresh & healthy air

RBK- High Static Cooling Units



Increase your comfort & productivity with



Warehouse



Educational Institutes



Banquet Hall



Textile Industry



Hospital

Why RBK Aircooling ?

Cooling Large & open spaces has always been a challenge. But with RBK high static ducted units, these areas can be cooled economically, effectively and in most energy efficient way.

- * Upto 80% less running cost than Mechanical Air Conditioning
- * Eco Friendly
- * No Harmful Gas Emission



Compact- Low Foot Print



Energy Efficient- Low Operating Cost



40 % More Pad Area- Better Cooling



Removable Pad Panels- Easy Maintenance



Long Distance Air Delivery- More Area Coverage



Deliver a temperature drop of 15-18 C in Hot & Dry Climates



Improve Productivity in industries through 100 % fresh ,Clean & Cool air.



Quick Payback Period- Less than 1 year



Highly Efficient RBK Air Cooling..



Industrial Grade Controller

FEATURES:

- ★ Overload Protection
- ★ Short Circuit Protection
- ★ Single Phasing Protection

Cool Large Areas **ECONOMICALLY**

Range Available Upto 125000 CFM



IDEAL FOR :



Offices



Workshops



Assembly lines



Hospital



Green House



Manufacturing Units



Shopping Malls



Commercial Kitchen



Textile Processing



Generator Rooms



Poultry Farm



Industrial Space



Multi Purpose Halls



Residences



Educational Hub



Religious Places

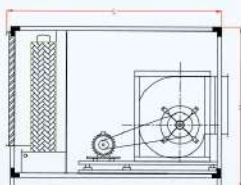
Fan Features:

- ★ The fans are of international standard and are AMCA certified.
- ★ Centrifugal blower forward / backward curved as per static pressure requirements.
- ★ The fans are static and dynamically balanced.

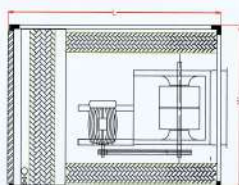
Electric Motors:

- ★ TEFC Squirrel Cage Induction Motor , IP 55 Protected VFD Compatible induction motor of Standard make siemens/CG/Havells / ABB etc.

(single blower)

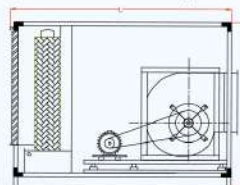


SIDE VIEW

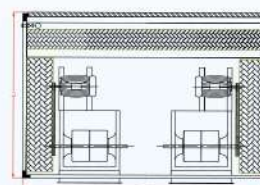


TOP VIEW

(Double blower)



SIDE VIEW



TOP VIEW

COOLING PADS :

High Quality Honey Comb Cooling pads made of cellulose paper of 100 mm thickness & 5 mm flute height are used on multiple sides for delivering better RBK Air Cooling Efficiency.

Filters:

The standard filters are of box type with extruded aluminium frame and non woven washable synthetic media The filter efficiency is 90% down to 10 microns. Depending on application fine filters of customised efficiencies can be provided with additional cost.

Technical Specifications

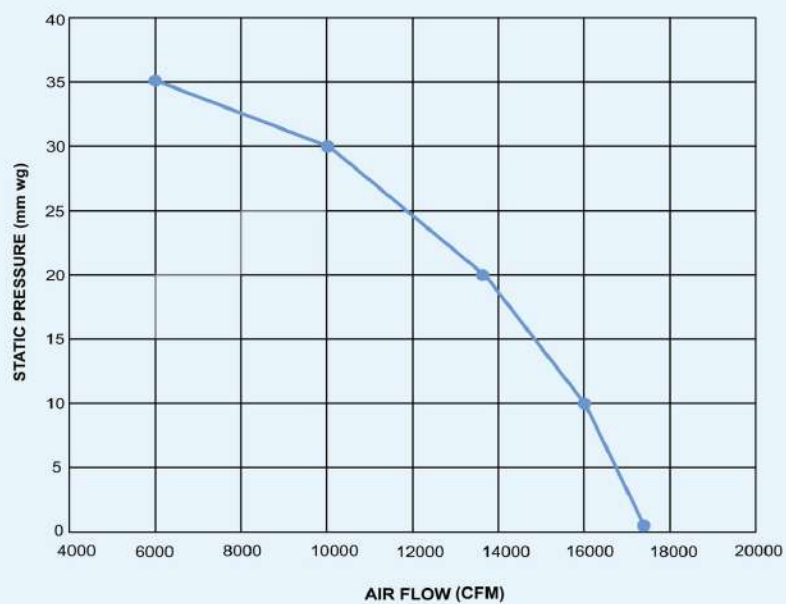
Model/Specification	RBK-170 HS	RBK-210 HS	RBK-250-HS	RBK-290- HS
Discharge Type	Side / Top / Down	Side / Top / Down	Side / Top / Down	Side / Top / Down
Air Flow (CMH / CFM)	17000/10000	21000/12500	25000/15000	29000/17500
Static Pressure (mm Wg)	30	30	35	35
Cooling Area (Sq. Ft.)	Upto 2000	Upto 2500	Upto 3000	Upto 3500
Motor Power (kw)	3.7	3.7	5.5	7.5
Voltage/Frequency (V/Hz)	415 / 50	415 / 50	415 / 50	415 / 50
Fan Type	Centrifugal Blower	Centrifugal Blower	Centrifugal Blower	Centrifugal Blower
Vent Size (LxW)(mm)	650 x 650	710 x 710	800 x 800	800 x 800
Back Pad Size (LxHxW)	540x1140x100 (1 Nos)	600x1200x100 (1 Nos)	650x1240x100(1 Nos)	700x1300x100 (1 Nos)
Side Pad Size (LxWxH)	410x1140x100(4 Nos)	450x1200x100 (4 Nos)	590x1240x100(4 Nos)	650x1300x100 (4 Nos)
Fan Speed	3-Phase/ Single Speed	3-Phase/ Single Speed	3-Phase/ Single Speed	3-Phase/ Single Speed
Noise (dBA)	≤70	≤70	≤70	≤70
Dimensions (LxWxH)(mm)	(1600x1840x1650)±100	(1620x1900x1700)±100	(1650x2000x1750)±100	(1700x2050x1800)±100
Controller Type	Industrial grade Controller	Industrial grade Controller	Industrial grade Controller	Industrial grade Controller
Mist Eliminator	Yes	Yes	Yes	Yes
Pre-Dust Filter	Yes	Yes	Yes	Yes
Tank Capacity (Litre)	150	250	350	500
RBK Air Cooling Efficiency %	85	85	85	85

Technical Specifications

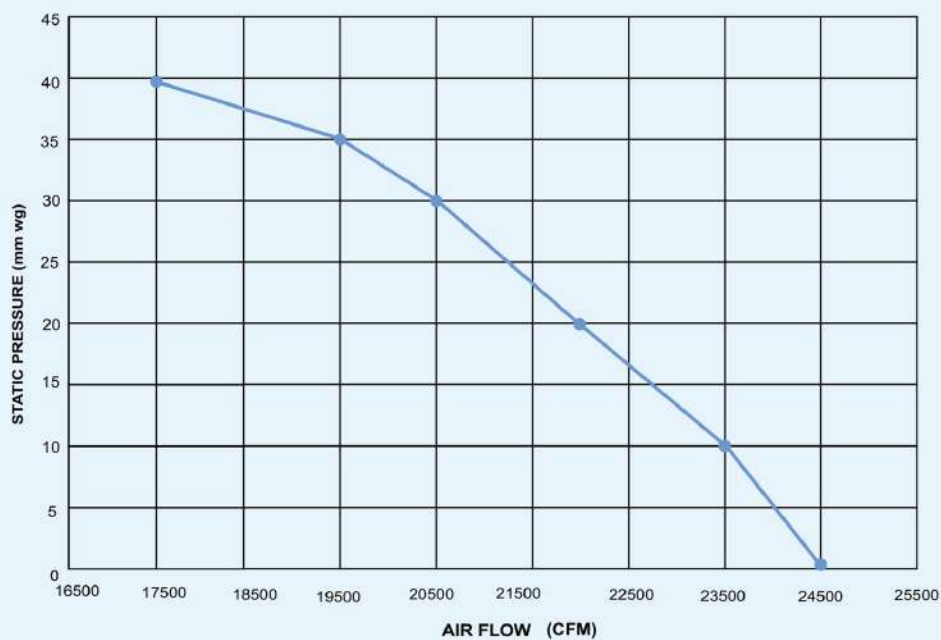
Model/Specification	RBK - 340-HS	RBK-430-HS	RBK-500 HS	RBK-670 HS
Discharge Type	Side / Top / Down	Side / Top / Down	Side / Top / Down	Side / Top / Down
Air Flow (CMH / CFM)	34000/20000	43000/25000	50000/30000	67000/40000
Static Pressure (mm Wg)	40	40	40	40
Cooling Area (Sq. Ft.)	Upto 4000	Upto 5000	Upto 6000	Upto 8000
Motor Power (kw)	9.3	9.3	11	15
Voltage/Frequency (V/Hz)	415 / 50	415 / 50	415 / 50	415 / 50
Fan Type	Centrifugal Blower	Centrifugal Blower	Centrifugal Blower	Centrifugal Blower
Vent Size (WxH)(mm)	900 x 900	900 x 900	1010 x 1010	1120 x 1120
Back Pad Size (WxHxT)	580x1500x100 (2 Nos)	700x1530x100 (2 Nos)	800x1690x100 (1 Nos)	830x1750x100 (2 Nos)
Side Pad Size (WxHxT)	730x1500x100 (4 Nos)	730x1530x100 (4 Nos)	700x1690x100 (4 Nos)	800x1750x100 (4 Nos)
Fan Speed	3-Phase/ Single Speed	3-Phase/ Single Speed	3-Phase/ Single Speed	3-Phase/ Single Speed
Noise (dBA)	≤70	≤70	≤70	≤70
Dimensions (LxWxH)(mm)	(2000x2100x1880)±100	(2100x2150x2000)±100	(2150x2200x2270)±100	(2780x2780x2200)±100
Controller Type	Industrial grade controller	Industrial grade controller	Industrial grade controller	Industrial grade controller
Mist Eliminator	Optional	Optional	Optional	Optional
Pre-Dust Filter	Yes	Yes	Yes	Yes
Tank Capacity (Litre)	500	550	600	650
RBK Air Cooling Efficiency %	85	85	85	85

RBK-750 HS	RBK- 850-HS	RBK- 1000 HS	RBK- 1200 HS	RBK-1700-HS
Side / Top / Down	Side / Top / Down	Side / Top / Down	Side / Top / Down	Side / Top / Down
75000/45000	85000/50000	100000/60000	120000/70000	170000/100000
40	40	40	40	40
Upto 9000	Upto 10000	Upto 12000	Upto 14000	Upto 20000
18.5	9.3 x 2 Nos	11 x 2 Nos	15 x 2 Nos	22 x 2 Nos
415 / 50	415 / 50	415 / 50	415 / 50	415 / 50
Centrifugal Blower	Centrifugal Blower	Centrifugal Blower	Centrifugal Blower	Centrifugal Blower
1260 x 1260	900 x 900- 2 Nos	1010 x 1010- 2 Nos	1120 x 1120-2 Nos	1260 x 1260- 2 Nos
850x1800x100 (2 Nos)	730x1530x100 (2 Nos)	800x1600x100 (4 Nos)	950x1700x100 (4 Nos)	1050x1650x100 (4 Nos)
850x1800x100 (4 Nos)	730x1530x100 (8 Nos)	800x1600x100 (4 Nos)	950x1700x100 (4 Nos)	890x1650x100 (4 Nos)
3-Phase/ Single Speed	3-Phase/ Single Speed	3-Phase/ Single Speed	3-Phase/ Single Speed	3-Phase/ Single Speed
≤70	≤70	≤70	≤70	≤70
(2880x2880x2330)±100	(2200x4500x2200)±100	(2600x5100x2350)±100	(2900x5450x2450)±100	(2890x5810x2330)±100
Industrial grade controller	Industrial grade controller	Industrial grade controller	Industrial grade controller	Industrial grade controller
Optional	Optional	Optional	Optional	Optional
Yes	Yes	Yes	Yes	Yes
700	750	800	850	900
85	85	85	85	85

FAN CURVE



MODEL NO.	AIR FLOW (CFM) (Static Pressure mm wg)				
	0	10	20	30	35
RBK-170 HS	17500	16000	13800	10000	6000



MODEL NO.	AIR FLOW (CFM) (Static Pressure mm wg)					
	0	10	20	30	35	40
RBK-290 HS	24500	23500	22000	20500	19500	17500

CITY WISE DISCHARGE AIR TEMPERATURE CHART

Description	Ambient Design Conditions		Mouth Outlet Conditions		Temperature Drop
Locations	DBT °C	WBT °C	DBT °C	WBT °C	°C
Ahmedabad	43.1	23.0	26.0	23.0	17.0
Bhopal	42.0	21.9	24.9	21.9	17.0
Rajkot	41.4	22.2	25.0	22.2	16.3
Indore	40.8	20.9	23.8	20.9	16.9
Raipur	43.3	22.5	25.6	22.5	17.6
Jaipur	42.7	20.9	24.1	20.9	18.5
Jodhpur	42.8	21.7	24.8	21.7	17.9
Hisar	44.5	23.7	26.8	23.7	17.6
New Delhi	42.3	23.2	26.0	23.2	16.2
Pune	38.5	19.9	22.6	19.9	15.8
Nashik	38.2	19.5	22.3	19.5	15.8
Surat	38.2	22.6	24.9	22.6	13.2
Nagpur	44.2	22.6	25.8	22.6	18.3
Banglore	34.3	20.0	22.1	20.0	12.1
Amritsar	42.2	23.0	25.8	23.0	16.3
Haridwar	37.8	22.1	24.4	22.1	13.3
Lucknow	42.8	23.4	26.3	23.4	16.4
Prayagraj	43.0	23.1	26.0	23.1	16.9
Dubai	43.3	23.6	26.5	23.6	16.7
Kuwait	48.9	21.4	25.5	21.4	23.3

Design Condition as per ISHRAE & ASHRAE Handbook 2021 @ 0.4% occurrence

RETURN ON INVESTMENT

- 60- 80% less running cost than mechanical air conditioning
- Quick investment pay back period
- Low cost of ownership



SITE INSTALLATIONS

Ideal for:



Industry



office



Warehouse



Hospital



School



Hotel



Temple



Home

R.B.K. Air Cooling

Manufacturer & Specialist In

- * Air Cooling * Plant Docketing * Insulation
- * Wholesale A/C Type Grill * Moving Grill * AC Piping
- * Industrial Air Washer Cooling * Blower
- * Kitchen Hood * Wholesale Imported Cellulose Pad

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