



Ducted Evaporative Coolers

World's Best Performing Evaporative Air Coolers

- Centrifugal blower
- Highest cooling efficiency
- Highest static and longest throw
- Strongest rust proof metal body



Experts in Air Treatment since 1964...

DRI, a Pahwa group company, is a global provider of components & systems for Energy Recovery, Indoor Air Quality (IAQ), Fresh Air Treatment, Evaporative Cooling, Desiccant Dehumidification, and Green Buildings.

ARCTIC™ is DRI's Evaporative Cooling Range.

At the Pahwa Group, continuous Innovation is the driving philosophy. Operating within a board framework of 'energy and environment', the group comprises of 4 knowledge based technology driven airengineering companies specializing in technologies, products & services "with desiccants at the core, in relation to air".

Bry-Air and **DRI** are the two flag ship companies of the group.

...since 1964 , Bry-Air has been offering dehumidification and complete environmental control solution. DRI has been offering innovative air solutions since 1984.

Evaporative cooling based

Industrial & Commercial Ducted Air Cooling Solutions



Energy Efficient
Lower energy consumption



Cost Effective
Lower initial, running and maintenance cost



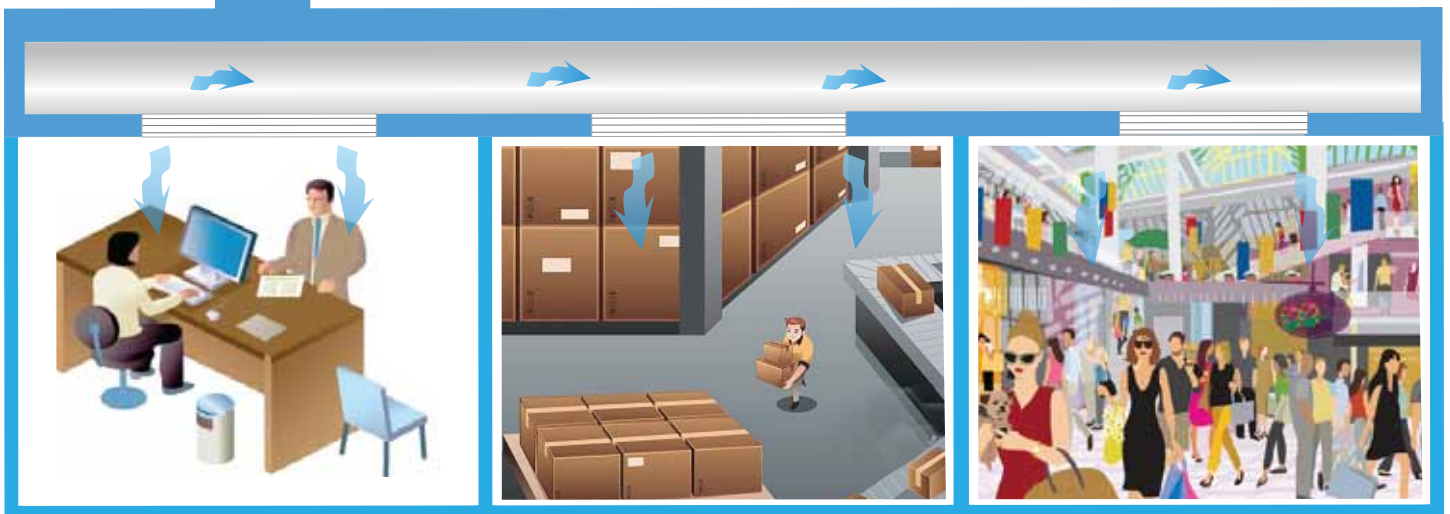
Green Air-Conditioning
Conditions the air by evaporative cooling & not mechanical refrigerant cooling based.

Evaporative cooling uses natural resources - air & water. It brings down the dry bulb temperature through evaporation of water. Evaporative cooling systems are:



Evaporative Cooling with Arctic Evaporative Cooler

- Hot fresh air is taken into the unit through wet EcoCool Cooling Pads.
- This cool humidified air is discharged indoors.



ARCTIC™ + EGGCOOL® ...

Ventilation using 100% Fresh Air for Healthy and Comfortable spaces

Ducted Evaporative Cooler Range



ADC-25K



ADC-25K



ADC-45K



ADC-L-85K



ADC-L-100K











ADC-L-125K

Advantages

- Unique 3 side air intake and low face velocity design.
- EcoCool pads of 5mm flute structure and high saturation efficiency.
- Sturdy design with heavy duty skid base for rooftop or side wall installations.
- Proven rust-proof pre-coated steel sheet metal body, nuts and bolts of stainless steel (SS).
- Specially designed leak proof industrial water tank.
- Highest quality components like motor, blower and water pumps.
- 100% water tested prior to packaging and dispatch.
- No outsourcing. In-house factory integrated manufacturing with *3D designing, CNC, powder coating* and *test labs*.
- Complete cooler with starter panel and controls. *Plug and Play*.
- Centrifugal blower for high static pressure, long duct lengths and throw.
- *Duct layout design, installations services and spare parts available.*
- Customised solutions available. *Largest range in the world.*

Snap on filtration is available.

Advantages with EcoCool Evaporative Cooling Pads

- | | |
|--|---|
|  Structural Strength |  Competitive Price |
|  No Edge Build-up |  Fast Deliveries |
|  Strong Adhesion |  Technical Support |
|  High Efficiency |  Easy to Replace |



City Wise Temperature Drop with Direct Evaporative Cooler (Example)

Description Location	Outdoor Design Conditions		Cooler Outlet Conditions		Temperature Drop
	DBT °C	WBT °C	DBT °C	WBT °C	°C
Ahmedabad	42.1	23.00	24.9	23.0	17.2
Bhopal	41.8	21.6	23.6	21.6	18.2
Hyderabad	40.2	21.8	23.6	21.8	16.6
Jaipur	42.5	21.3	23.4	21.3	19.1
Mumbai	35.9	22.7	24.0	22.7	11.9
Nagpur	43.9	22.5	24.6	22.5	19.3
New Delhi	42.2	22.7	24.7	22.7	17.6
Pune	38.1	19.7	21.5	19.7	16.6
Raipur	43.6	23.3	25.3	23.3	18.3
Indore	40.8	19.7	21.8	19.7	19.0
Surat	37.8	22.5	24.0	22.5	13.8
Riyadh	44.7	19.3	21.8	19.3	22.9
Dubai	46.0	30.0	31.6	30.0	14.4

Design Condition based on Cooling 0.4% of ISHRAE & ASHRAE Handbook 2017

Free Flow (Spot) Evaporative Coolers (AEC - 20)

- High efficiency long life 60mm four side pads
- CNC fabricated high quality 16G powder coated / painted casing
- Quick and easy removal of cooling pad
- High efficiency fan
- Designed for low RPM to ensure low noise levels & trouble free operation
- High quality submersible pump for longer life
- Over flow, and auto cut arrangement provided for make-up water
- Caster wheels provided for rotation and direction change



Say NO to Plastic ❌

Disadvantages of Plastic Coolers:

- Deformed and lower life span
- Low water tank capacity and lower cooling efficiency
- Cheap & low-quality cooling pads used
- Much lesser air throw
- Not environmental friendly
- Axial fans have lower static pressure & low airflow compared to centrifugal blowers

Industry Applications



Kitchen & Restaurant Cooling



Factory Shop Floors & Assembly Lines



Automobile Industry



Cinemas and Banquet Halls



Religious Places



Schools



Warehouses



Green House / Tea Industry



Textile Industry

Duct Layout Designs and Installation Services are available.

Technical Specification

Description	UOM	ADC-20K	ADC-25K	ADC-32K	ADC-38K
Body material		Pre coated galvanised steel	Pre coated galvanised steel	Pre coated galvanised steel	Pre coated galvanised steel
Minimum Evaporation Efficiency	%	80	90	90	90
Pad Surface Area	m2	1.35	2.17	3.74	4.19
Pad Thickness	mm	75	100	100	100
Connection Load	kw	0.79	1.55	2.39	3.89
Overall Dimensions (L x W x H)	mm	950x950x800	1100x1100x1100	1250x1500x1400	1300x1600x1500
Connection Size	mm	400x400	500x500	650x650	750x750
Fan Type		Centrifugal	Centrifugal	Centrifugal	Centrifugal
Tank Capacity	Litre	60	110	175	200
Dry Weight	Kgs	125	200	280	350

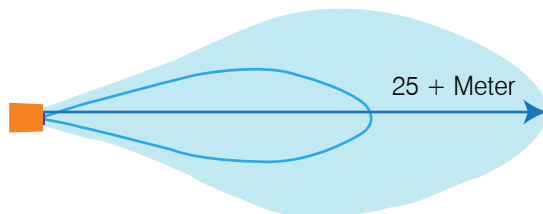
Design Guide- SI Units

Air Flow at below ESP	m3/h	8000	11000	22000	30000
Static Pressure	mmWC	19	24	24	22
External Static Pressure	mmWC	5	10	10	10
Air Flow at below ESP	m3/h	5100	6800	12750	17000
Static Pressure	mmWC	22.5	32	32	40
External Static Pressure	mmWC	10	20	20	30

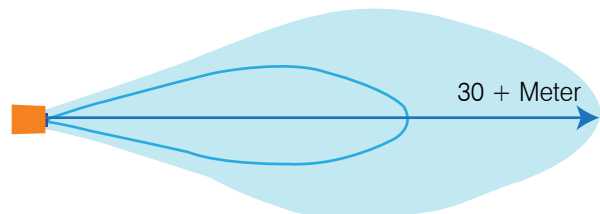
Disclaimer :

- Dimensions and weight may vary in few models.
- Because of our policy of continuous product improvements, specifications are subject to change without notice.

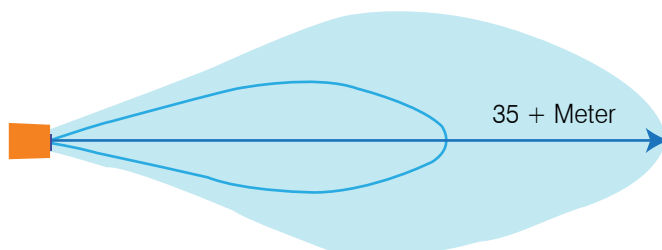
Free Flow Mode...



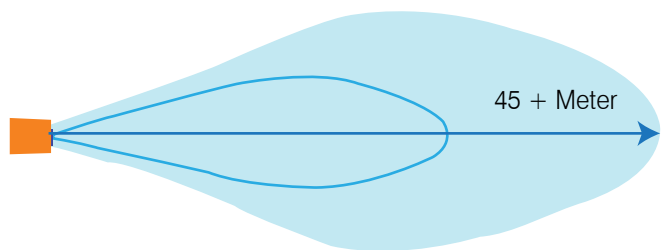
ADC-20K



ADC-25K



ADC-32K



ADC-38K

Technical Specification

Description	UOM	ADC-45K	ADC-L-85K	ADC-L-100K	ADC-L-125K
Body material		Pre coated galvanised steel	Pre coated galvanised steel	Pre coated galvanised steel	Pre coated galvanised steel
Minimum Evaporation Efficiency	%	90	90	90	90
Pad Surface Area	m2	6.06	9.08	13.88	13.88
Pad Thickness	mm	100	100	100	100
Connection Load	kw	5.87	9.67	11.75	15.75
Overall Dimensions (L x W x H)	mm	1750x2150x1650	2300x2400x1850	2300x3300x2400	2300x3300x2400
Connection Size	mm	900x900	1100x1100	1250x1250	1400x1400
Fan Type		Centrifugal	Centrifugal	Centrifugal	Centrifugal
Tank Capacity	Litre	475	715	1000	1000
Dry Weight	Kgs	465	790	910	1010

Design Guide- SI Units

Air Flow at below ESP	m3/h	45000	75000	90000	120000
Static Pressure	mmWC	22	22	22	22
External Static Pressure	mmWC	10	10	10	10
Air Flow at below ESP	m3/h	25500	42500	51000	68000
Static Pressure	mmWC	40	40	40	40
External Static Pressure	mmWC	30	30	30	30

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ADC-L-125K



Thousands of satisfied customers across Industries and Applications ...

- Malls
- Offices
- Factories
- Stores
- Health Care
- Schools
- Hotels
- Canteen
- Villas
- Cinema Halls
- Shop Floors
- Kitchen Ventilation
- Religious Places
- Wedding Halls
- Tea Fermentation
- Food Industry
- Warehouses
- Government Buildings
- Railway Stations
- Print & Packaging Industry
- Textile Industry
- Automobile Industry
- Restaurants
- Retail
- Assembly Line
- Showrooms
- Panel Room
- Gym
- Poultry
- Laundry
- Green House
- and many more...

Some of our Customers



Fully Integrated World Class Manufacturing & Testing Facilities

