

INNOVATIVE EVAPORATIVE COOLING SOLUTIONS

INDIRECT EVAPORATIVE COOLING SYSTEMS



Economical



Environment
Friendly



Energy
Efficient

Natural Air Conditioning.....
Inspired by Mother Nature.....
Powered by Natural Resources...
Following laws of Nature



INNOVATIVE EVAPORATIVE COOLING SOLUTIONS



ARCTIC™ Indirect Evaporative Cooling (IDEC) Systems

Indirect Evaporative Cooling (IDEC) systems provide most Economical Cooling Solutions for :

- ❄ Large Industrial & Commercial Spaces.
- ❄ Utilize natural resources i.e. Air & Water for cooling the air.
- ❄ Higher cooling with less moisture addition in air.

Advantages of IDEC Systems

- ❄ Significant Increase In Productivity.
- ❄ Healthy Spaces.
- ❄ Think Green, Think Fresh

- ☑ Care for Environment.
- ☑ Best Possible Indoor Air Quality.
- ☑ No Harmful Refrigerants.

❄ Think Savings

- ☑ Small Investment.
- ☑ Drastic Reduction in Operational Costs (80%)
Compared to Conventional Air-conditioning.

IDEC Systems are suitable for :

❄ Custom Solution:

- ☑ Providing Cooling Solution for large spaces in Warm & Tropical Weather Conditions.

❄ Smart Operation Modes available for All Year Round Comfort

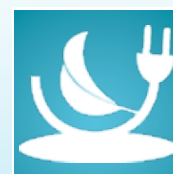
- ☑ Free Cooling.
- ☑ Single Stage Indirect Cooling,



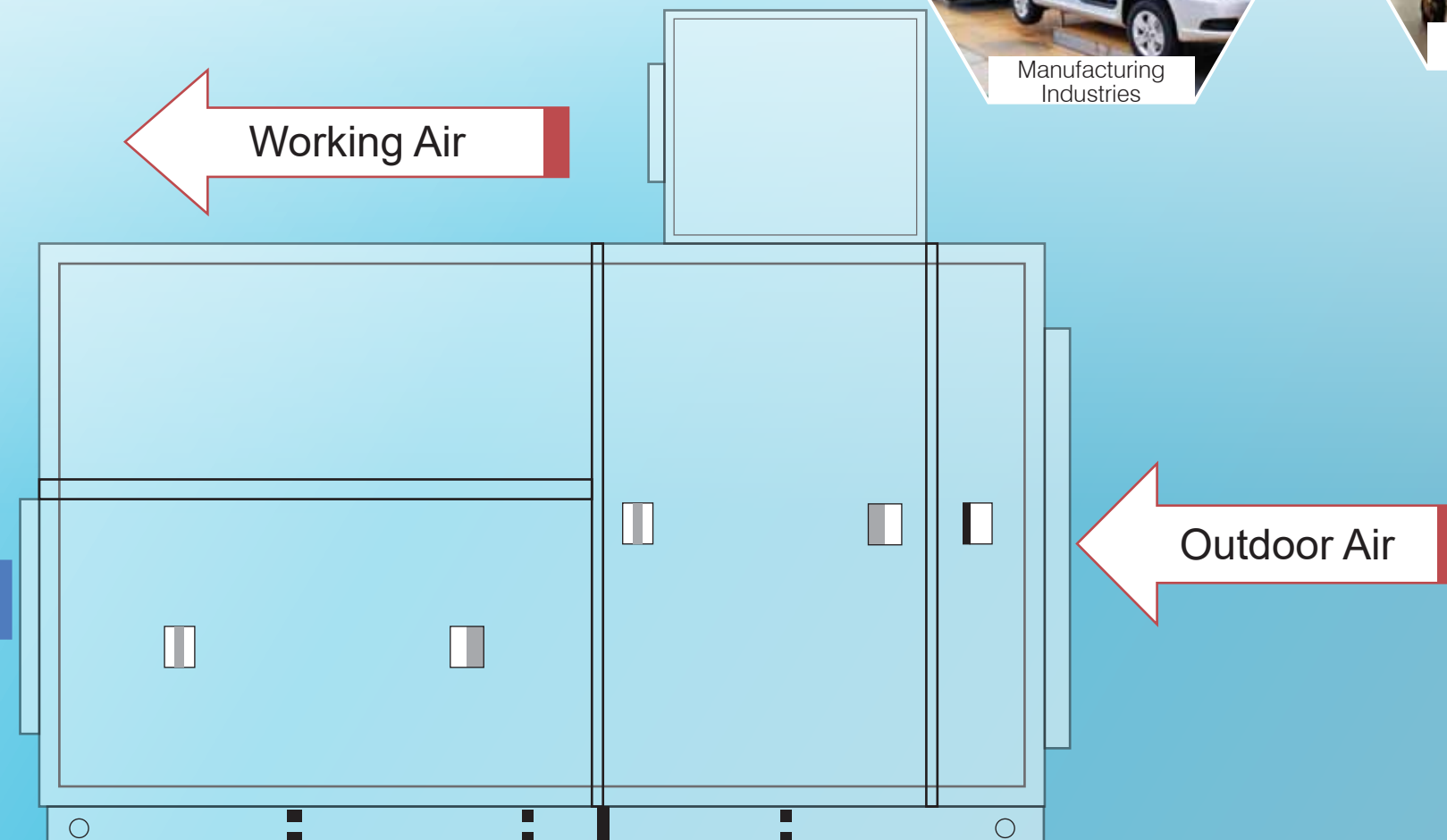
Economical



Environment
Friendly



Energy
Efficient



Manufacturing
Industries



Warehouses



Indoor Stadiums



Distribution Centers
of FMCG's.



Training Areas



Stadium Seating
Areas

- ☑ Two Stage Indirect + Direct Cooling.
- ❄ Smart Controls:
 - ☑ Temperature & RH Sensors.
 - ☑ TDS Sensors for maintaining water quality.
 - ☑ Optional VFD to modulate supply working fan speed & air quantity.

INNOVATIVE EVAPORATIVE COOLING SOLUTIONS

Technical Specification

IDEC Indirect Direct Evaporative Cooling Unit **SIZES 30-400**

Indirect Direct Evaporative Cooling Unit (**IDEC**) cabinet type single tier system comes with the following outstanding features :

- ❖ Made of Extruded Aluminium Profiled Frame.
- ❖ Double Skin Casing-outer and Inner Casing made of PPGI Sheet.
- ❖ Casing/panels Insulated With Fiber Glass Insulation (48 Kg/m³).
- ❖ Panels will be 25/50mm thick.
- ❖ The Casing meets the Provision of tightness class as per International Standard.
- ❖ Unit consist of Filter, Heat Exchanger, Evaporative Cooling Pads and Fans (Primary & Secondary).
- ❖ Available in 10 sizes, with air flow range of 3000 to 40000 CFM.
- ❖ DIDW high efficiency centrifugal dynamically balanced fans (Plug fan option also available).
- ❖ The Heat Exchanger is Indirect, Air to Air type.
- ❖ Duct Connection Frame.
- ❖ CNC manufactured Stainless Steel Water Tank.
- ❖ No Chemical Refrigerants or Ozone Depleting Chemicals.
- ❖ High Efficiency (90% +) Long Life EcoCool Evaporative Cooling Pads.
- ❖ Provided with water intake and drain Water Pipe Lines.
- ❖ High Technology, **DRI** Cooling Module.
- ❖ Option of running as Direct & Indirect Evaporating Cooling Mode.

MODEL	AIR FLOW CAPACITY		SUPPLY AIR MOTOR	WORKING AIR MOTOR	PUMP	ESP	OVER ALL DIMENSIONS					
	CMH	CFM	kW	kW		(pa)	Length	Width	Height	H1	Operating Weight	Shipping Weight
ID-L3-30	5098	3000	2.2	0.75	0.36	250	2440	1350	1850	600	690	860
ID-L3-50	8500	5000	3.7	1.1	0.75	250	2890	1555	1850	750	1070	1240
ID-L3-75	12700	7500	5.5	1.1	0.75	250	2890	2100	1850	750	1450	1620
ID-L3-100	17000	10000	7.5	1.5	0.75	250	3350	2710	1850	860	1670	1840
ID-L3-150	25500	15000	9.3	2.2	1.0	250	3625	2400	2950	1045	2250	2420
ID-L3-200	34000	20000	15	3.7	1.0	250	3775	2710	2950	1045	2640	2810
ID-L3-250	42500	25000	18.5	3.7	1.0	250	3925	3270	3050	1150	3050	3220
ID-L3-300	50977	30000	18.5	5.5	1.0	250	4075	3765	3100	1390	3500	3670
ID-L3-350	59500	35000	22	3.7 X 2	1.5	250	4075	4360	3200	1045	3930	4100
ID-L3-400	68000	40000	15 X 2	3.7 X 2	1.5	250	3775	4970	3200	1045	4210	4380

Note : (1) Because of our policy of continuous product improvements, specifications are subject to change without notice. (2) Please contact DRI for extra Details & Foot Prints.

A **Bry-Air** **PAHWA** GROUP COMPANY

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