

# 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



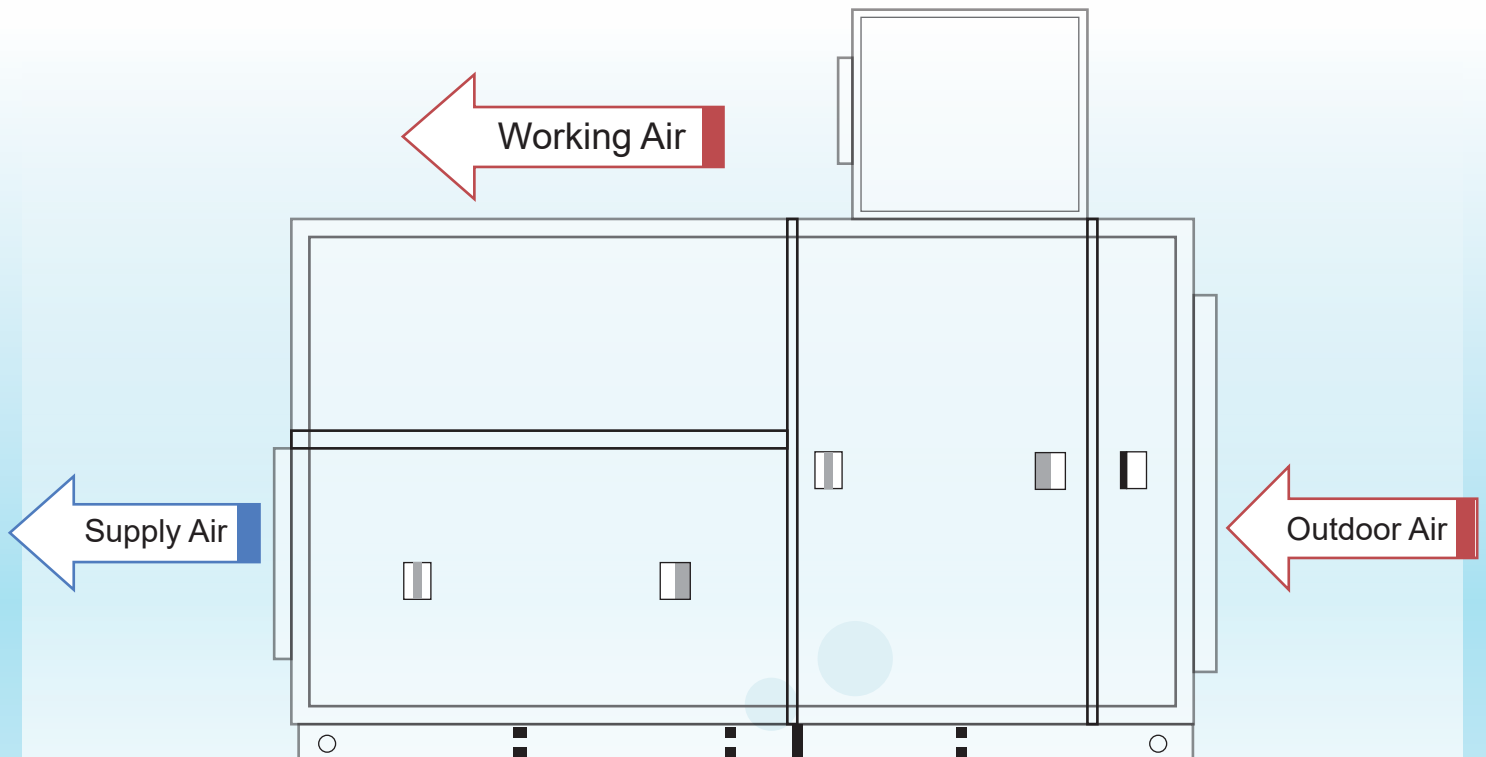
# INNOVATIVE EVAPORATIVE COOLING SOLUTIONS



## 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,
- ☑ 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.



Economical



Environment  
Friendly



Energy  
Efficient



Manufacturing  
Industries



Warehouses



Indoor Stadiums



Training Areas



Stadium Seating  
Areas



Distribution Centers  
of FMCG's.

**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			kW	(pa)	Length	Width	Height	H1
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 PAWA GROUP COMPANY**

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