

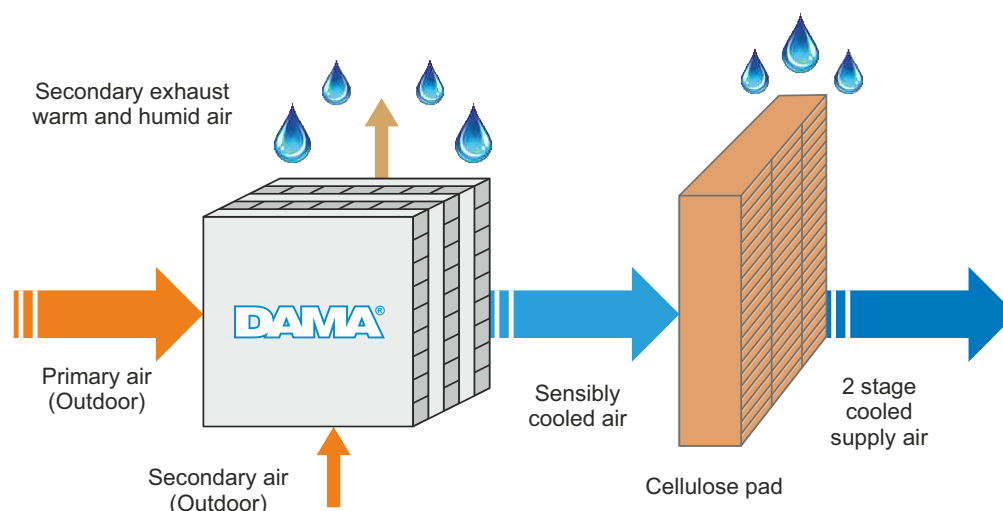


Comfort and health with
100% fresh-clean-cool air



IDECool

IDECool is a versatile **fresh air solution** that provides **excellent cooling for comfort**, and the **many health and productivity benefits of high indoor air quality**. IDECool is based on HMX's patented DAMA® technology - extensively deployed with 90+ million CFM covering 18 million sq. ft. in 10+ countries.



The IDECool advantage



100% fresh, clean, cool air

- Maintains excellent indoor air quality
- Provides healthy environment



Up to 80% less power consumption compared to air-conditioners

- Low operating cost
- Low carbon footprint



High level of filtration

- Supplies clean air
- Keeps indoor areas clean



Positive pressure system

- Prevents ingress of dust
- Drives out harmful contaminants



Non-refrigerant, non-compressor based technology

- No harmful gases used
- Sustainable cooling solution



Blow through design

- Blower doesn't come in contact with moist air
- Zero chance of blower rusting



Experience of over 20 years in the field of Indirect Evaporative Cooling

- Well engineered products
- 500+ happy customers across the globe



3 modes of operation – IDEC, IEC and ventilation

- Modes can be selected based on ambient weather conditions
- All weather cooling solution



Robust and compact design

- The body of the machine doesn't get damaged when exposed to harsh weather conditions
- Long product life



Marketed and serviced by a network of Channel Partners

- Well spread out sales and service network
- Efficient and reliable sales and after sales service support



Better comfort than a ducted evaporative cooler

- Maintains a proper balance between humidity and temperature
- Provides comfortable temperature in all climates

Technical specifications

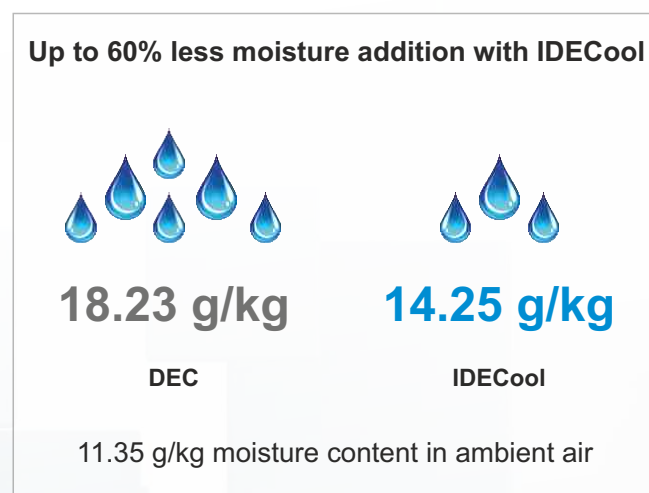
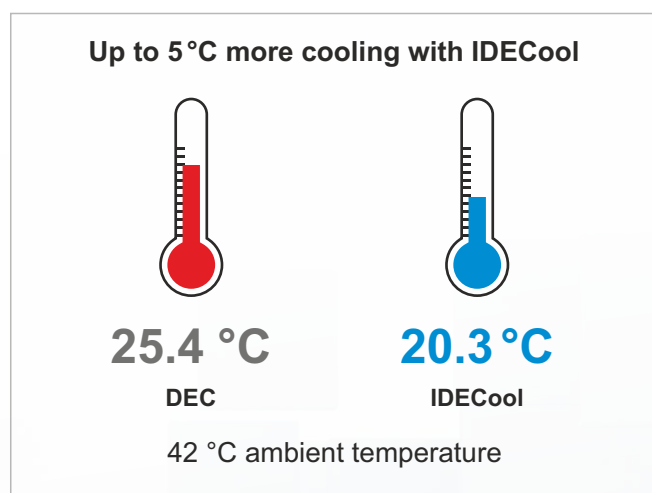
Description	Variants of IDECool		
	IDECool 6	IDECool 10	IDECool 15
Air flow machine outlet - in CFM/CMH	6000/10194	10000/16990	15000/25485
Construction	Single skin AHU box	Double skin AHU box	Double skin AHU box
Type of blower	Backward curve DIDW, dynamically balanced		
Blower motor specifications	IE2, TEFC 4P, Class F insulation, Duty-S1 continuous, IP55 protection		
Type of drive	V-Belt drive, 2SPA	V-Belt drive, 2SPB	V-Belt drive, 2SPB
Make of sensible heat exchanger	HMX - DAMA		
Material of sensible heat exchanger	Engineered polymer cartridges		
Material of adiabatic heat exchanger/make	Treated and impregnated special cellulose material of 100 mm thick, Eco cool or equivalent		
Make/type/size of filters (mm)	HMX/panel filter of 90% efficiency down to 10 microns/610 x 610 x 50		
No. of filters	4	8	9
Power of the pump motor (watt)/quantity/phase	50 / 2 nos. / single	250 / 2 nos. / single	250 / 2 nos. / single
Dimensions W x D x H (mm)	1200 x 2400 x (1730+300)	1850 x 3300 x (1789+300)	2150 x 3700 x (2225+350)
Weight in kg (dynamic)	800	2100	2700
Modes of operation	Ventilation/IEC/IDEC		
Blower speed modes	Fixed speed/variable speed		
Power supply required	Three phase		
Total power in kW	2.6	4.8	8.2
Make and origin	HMX – Sari, Ahmedabad, India		

Outlet temperature chart

The reduction in temperature will depend on both the prevailing Dry Bulb Temperature (DBT) and the Relative Humidity (RH). The table below shows the temperature at the machine outlet for various combinations of DBT and RH.

Ambient Temperature (Dry Bulb)°C	Relative Humidity (RH)										
	10%	15%	20%	25%	30%	35%	40%	45%	50%	55%	60%
32	9.3	11.3	13.2	15.2	16.8	18.3	19.9	21.2	22.4	23.8	24.8
34	10.3	12.4	14.5	16.3	18.3	19.9	21.5	22.9	24.1	25.5	26.6
36	11.3	13.6	15.6	17.7	19.8	21.4	23.1	24.3	25.8	27.2	28.4
38	12.3	14.7	17.0	19.1	21.0	22.0	24.5	26.2	27.6	28.8	30.2
40	13.3	15.9	18.3	20.5	22.5	24.5	26.2	27.9	29.3	30.6	NA
42	14.8	17.1	19.6	21.9	24.0	25.9	27.8	29.4	31.0	NA	NA
44	15.4	18.4	21.0	23.3	25.5	27.5	29.4	31.1	NA	NA	NA
46	16.0	19.3	22.1	24.6	25.1	25.5	31.0	NA	NA	NA	NA
48	17.1	20.5	23.5	24.0	28.4	30.5	NA	NA	NA	NA	NA

How IDECool scores over Direct Evaporative Coolers (DEC)



The result

- **Cooler and drier** air compared to DEC
- **40% less** air quantity is required compared to DEC to maintain the same temperature inside the space
- **Up to 40% less** ducting required
- Designed to **run continuously** in an energy efficient way

IDECool is extensively used in a wide variety of settings



VFD panel rooms



Electrical panel rooms



Workshops



Packing areas



Assembly lines



Moulding areas



Body shops



Food production areas



Fruit packaging areas



Manufacturing facilities



Poly houses



Warehouses



Temples



Atriums



Gymnasiums



Auditoriums



Sports complexes



Banquet halls



Offices



Classrooms



Restaurants



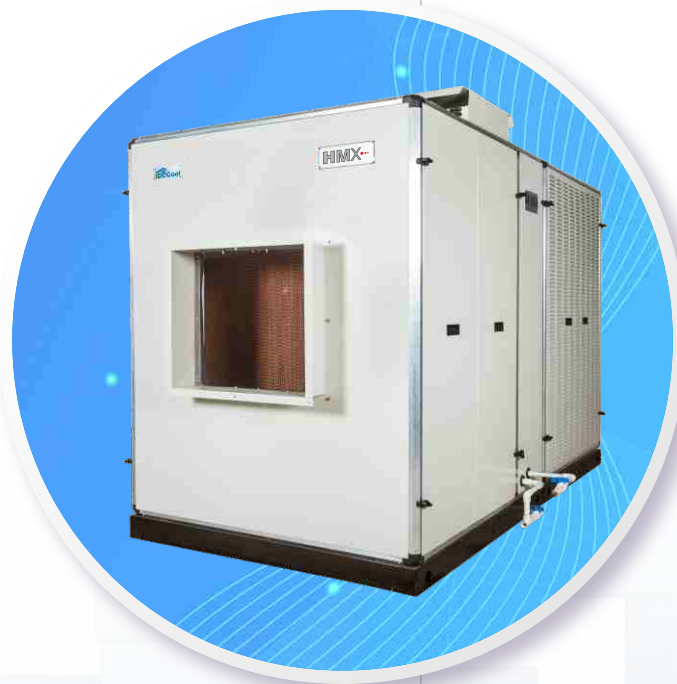
Retail outlets



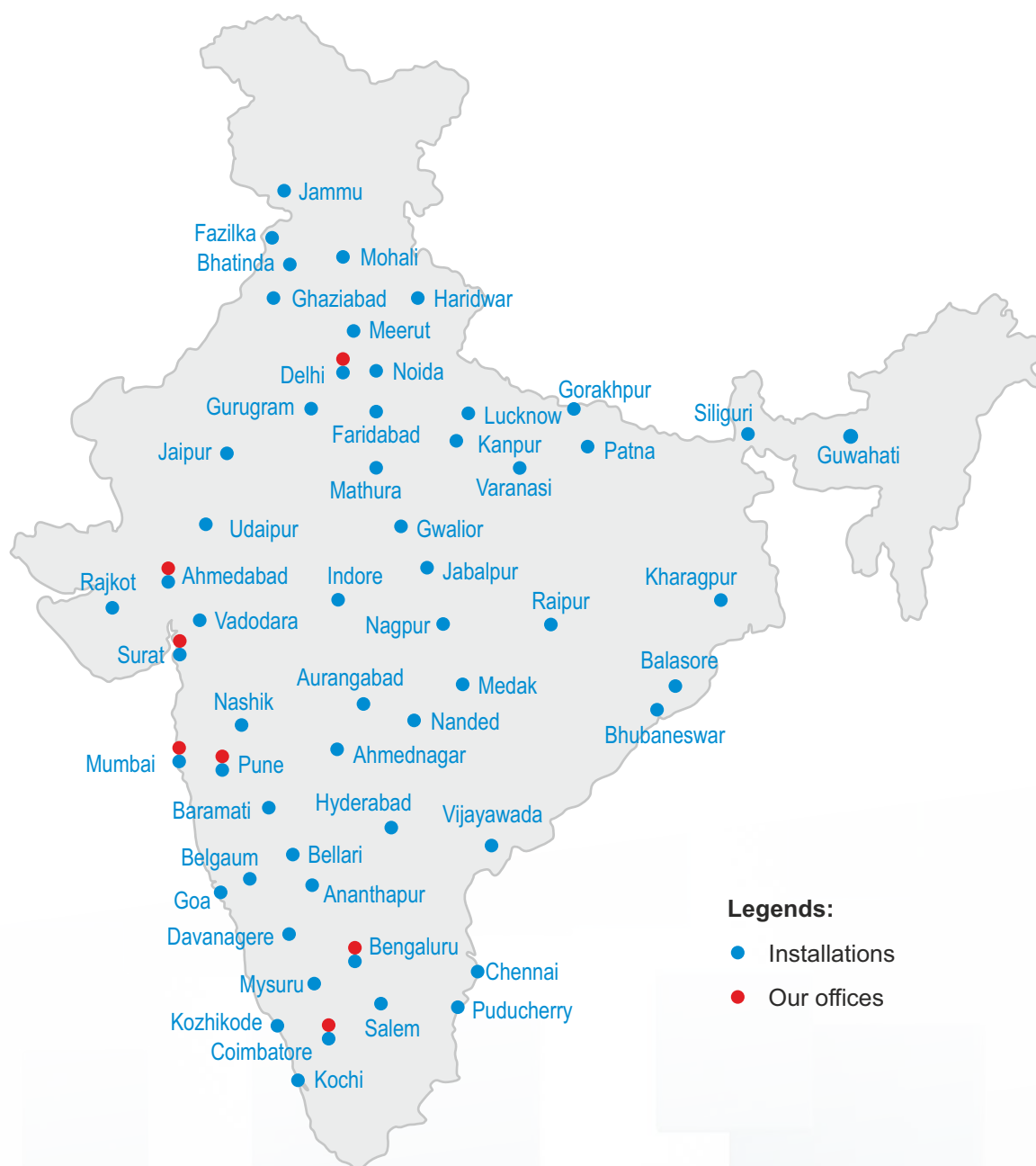
Kitchens



Green buildings



Deployed in all climate zones across the country



About HMX

HMX — a part of the A.T.E. Group — designs and manufactures energy efficient, environment-friendly cooling and solar thermal solutions for the industrial and commercial sectors. Our low carbon technologies are suitable for several applications and for most geographical locations across the globe.

A.T.E. ENTERPRISES PRIVATE LIMITED

(Business Unit: HMX)

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