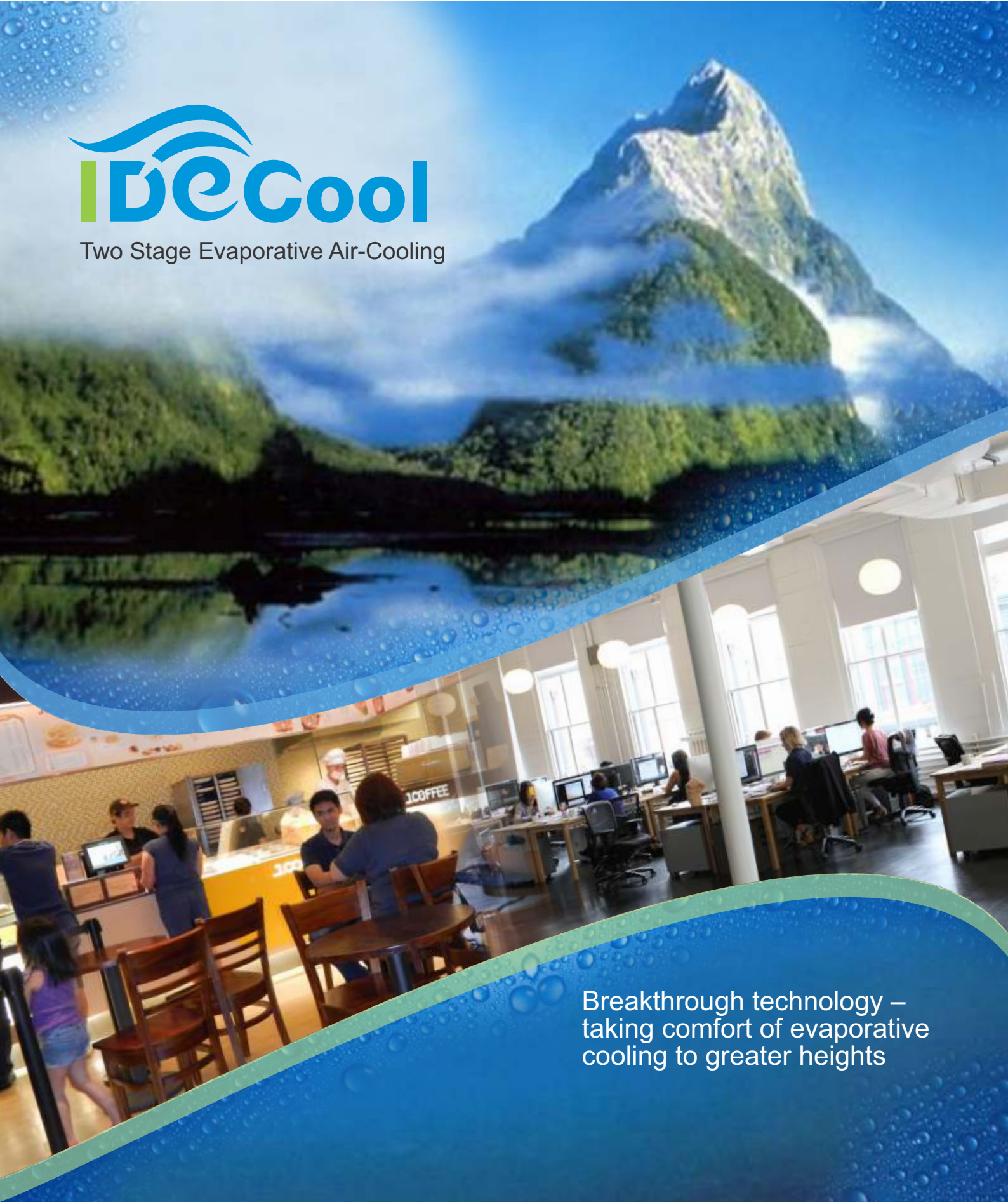




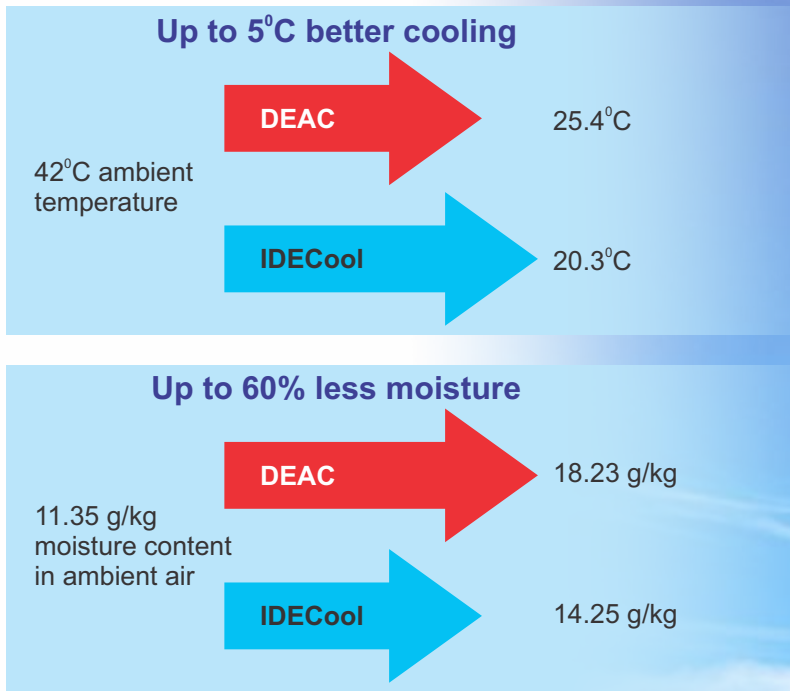
IDE Cool

Two Stage Evaporative Air-Cooling



Breakthrough technology –
taking comfort of evaporative
cooling to greater heights

How the IDECool scores over Ducted Evaporative Air Coolers (DEAC)



Be green

Two Stage Evaporative Air Cooling

Balancing the need for comfort and the cost of providing comfort has always been a challenge. Air-conditioning delivers the maximum comfort, but consumes a lot of energy and reduces air freshness. Air coolers are another conventional way of cooling, but fail to provide the required cooling to ensure comfort in all seasons.

The HMX-IDECool is an upgrade over conventional air-coolers using HMX's patented Indirect Direct Evaporative Cooling technology (also known as two-stage evaporative air cooling). This cooling solution consumes considerably less power than air-conditioners and provides better comfort than ducted evaporative coolers, bringing evaporative air cooling technology a step closer to air-conditioning.

The result: advantage user

- 40% less air quantity required to cool the same space
- 40% reduction in ducting quantity
- Considerably lesser moisture addition leading to enhanced comfort levels
- Optimal power consumption

Wide ranging applications



Be cool



Consumes considerably less power than air-conditioners



Proven track record

HMX has the world's largest installed base in Indirect Evaporative Cooling (IEC) solutions covering more than 4.5 million sq. ft.



Patented technology

HMX's patented technology combines Indirect Evaporative Cooling (IEC) with Direct Evaporative Cooling (DEC) for enhanced comfort.



100% fresh, clean, cool air

HMX-IDECool delivers 100% fresh filtered air from your environment for maximum health benefits.



Save as you cool

Optimal capital and operating expenditure. Also, less air quantity means less ducts through your space.



Ease of operation & maintenance

Robust yet friendly design for easy operation and maintenance.



Extensive service network

HMX's highly trained service engineers are just a phone call away.

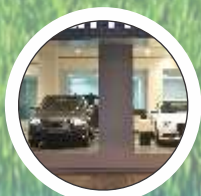
If you wish to contact an engineer, call on our toll free number: 1800-123-2830



Sports Arenas



Workshops



Showrooms



Small & Medium
Factories

Technical specifications

Description	Unit	IDECool 4	IDECool 6
Air flow machine outlet	CFM/CMH	4000/6760	6000/10140
Area cooled	sq. ft.	800 - 1000	1000 - 1200
Construction	-	Single skin 4 mm thick aluminum composite panels (ACP), framed in a 30 x 30 mm extruded aluminum structure and GI base frame	
Colour	-	Off-white (RAL 9002)	
Available external static pressure	mm of Wg	5	10
Type of blower	-	Backward curve belt driven fan	
Blower motor consumption load	kW	1.37	2.1
Filtration	-	HDPE mesh of 60 microns behind the louvers	
Pump	-	2 nos. submersible, 50 W single phase pump	
Dimensions W x L x H	mm	1100 x 1900 x (1450 + 150)	1200 x 2200 x (1800 + 150)
Unit operating weight	kg	350	500
Power supply	-	Three phase 415 V, 50 Hz. with connected load of 1.6 kW	Three phase 415 V, 50 Hz. with connected load of 2.3 kW
Additional features (available on request)	-	Single phase power supply, variable frequency drive, auto drain system, differential pressure for air filters, auto bleed-off facility, UV unit for tank water	

Outlet temperature chart

The reduction in temperature possible will depend on coincidental Dry Bulb Temperature (DBT) and Relative Humidity (RH). The chart below indicates the temperature at machine outlet against various combinations of DBT and RH.

Ambient Temperature DBT (°C)	Relative Humidity (RH)								
	10%	20%	30%	35%	40%	45%	50%	55%	60%
28	7.7	11.5	14.6	16.0	17.2	18.4	19.6	20.7	21.7
30	8.7	12.7	16.0	17.5	18.8	20.0	21.3	22.4	23.5
32	9.7	13.6	17.3	18.9	20.3	21.7	23.0	24.1	25.3
34	10.8	14.8	18.7	20.4	21.9	23.3	24.7	25.9	27.0
36	11.8	16.2	20.2	22.0	23.5	25.0	26.5	27.6	28.8
38	12.9	17.5	21.6	23.3	25.0	26.6	28.0	29.4	30.5
40	13.9	18.7	23.1	24.8	26.7	28.3	29.7	31.2	32.3
42	14.9	20.0	24.3	26.4	28.1	29.7	31.4	32.7	34.1
44	16.0	21.4	25.9	27.8	29.8	31.5	33.1	NA	NA
46	17.0	22.8	27.4	29.3	31.4	33.3	34.8	NA	NA
48	18.1	24.2	28.9	30.9	33.0	34.9	36.5	NA	NA

About HMX

HMX is a business unit of the 75+ years old A.T.E. Group. HMX has been in the business of providing eco-friendly cooling solutions based on Indirect Evaporative Cooling (IEC) since 1998 and it designs and manufactures innovative, next generation products for space and process cooling.

At the heart of every HMX product is DAMA - HMX's proprietary cross flow plate type sensible heat exchanger optimally designed for efficient Indirect Evaporative Cooling.

HMX's commitment to quality is unequivocal: it is certified under ISO 9001:2015 for all its processes, and its manufacturing practices ensure that HMX's products are of high quality and meet specific customer requirements and industry standards.

HMX... **A.T.E. ENTERPRISES PRIVATE LIMITED**

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