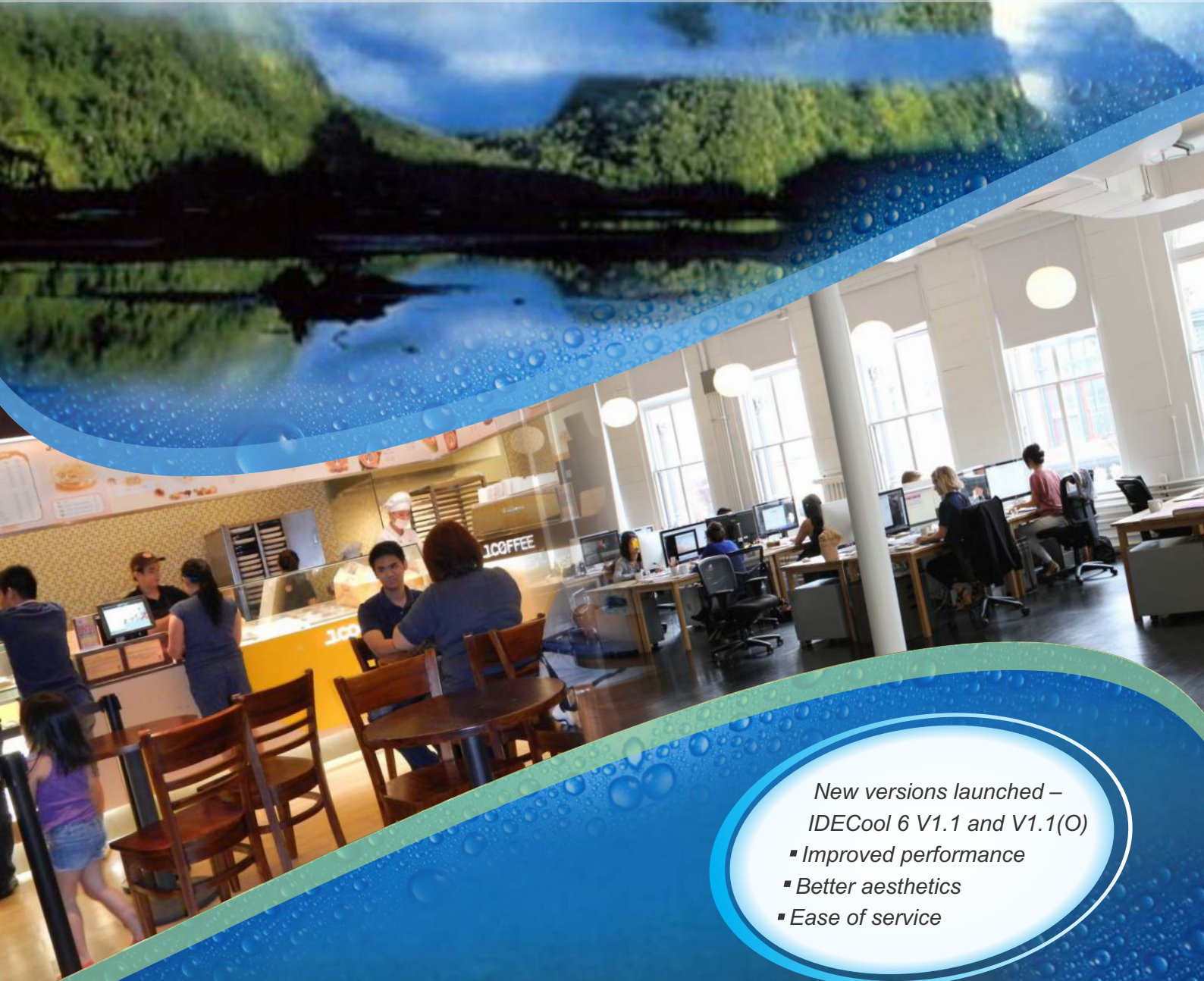


IDECool

Two Stage Evaporative Air-Cooling

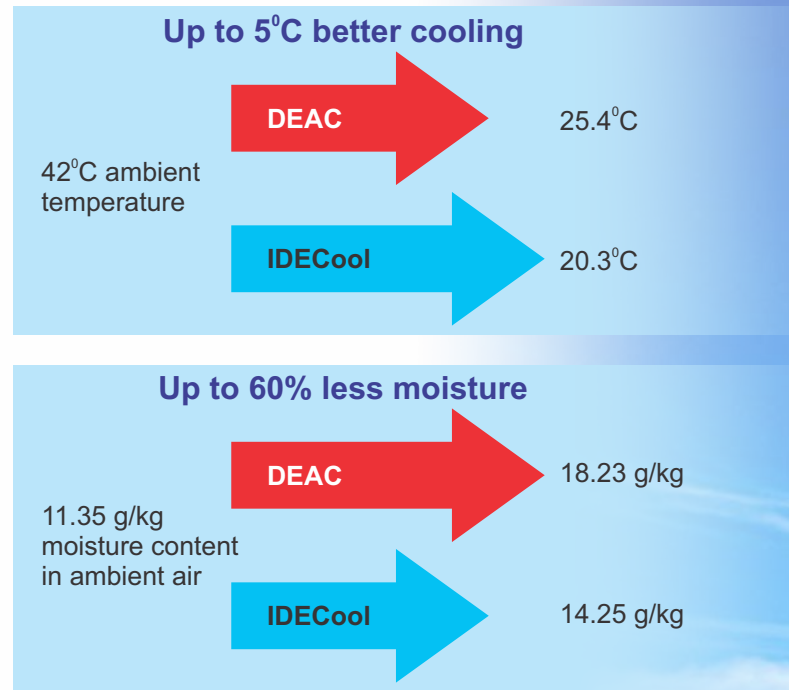
*Breakthrough technology –
taking comfort of evaporative cooling to greater heights*



*New versions launched –
IDECool 6 V1.1 and V1.1(O)*

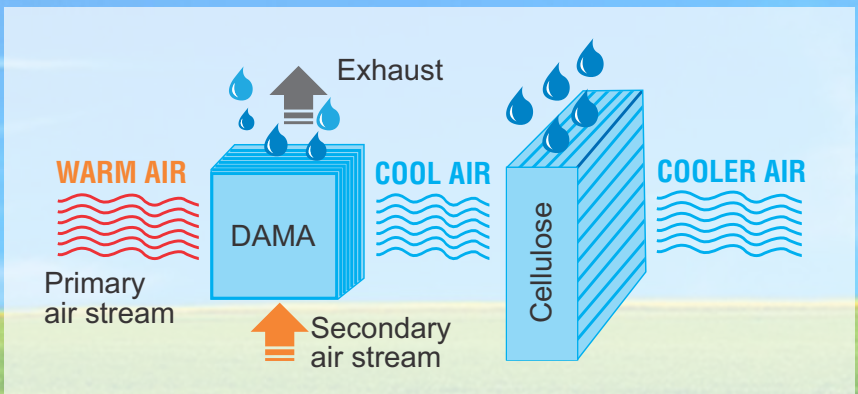
- Improved performance
- Better aesthetics
- Ease of service

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



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



- Consumes considerably less power than air-conditioners
- Three modes of operation*
- Variable-speed blower for high savings*
- Single phase power supply*
- Smooth starting and no inrush current*

*Available with IDECool V1.1(0)

- Proven track record**
HMX has the world's largest installed base in Indirect Evaporative Cooling (IEC) solutions covering more than 7 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**
Now save more with inverter technology
- Ease of operation & maintenance**
Robust yet friendly design for easy operation and maintenance.

Technical specifications

Description	Unit	IDECool 6 V1.1	IDECool 6 V1.1(O)
Air flow machine outlet	CFM/CMH	6000/10140	
Area cooled	sq. ft.	1000 - 1200	
Construction	-	Single skin CRCA powder coated body panels	
Tank material	-	Non-corrosive	
Colour	-	Off-white	
Available external static pressure	mm of Wg	10	
Type of blower	-	Backward curve belt driven fan	
Motor	-	EEF2/IE2 motor	
Blower motor consumption load	kW	2.1	
Blower speed	-	Single speed blower	Variable-speed blower
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	1200 x 2200 x (1800 + 150)	
Unit operating weight	kg	500	
Power supply	-	Three phase power supply	Single phase power supply
Mode of operation	-	Two modes of operation – IEC and IDEC	Three modes of operation – ventilation, IEC, and IDEC

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	11.2	14.2	15.6	16.9	18.1	19.3	20.4	21.4
30	8.7	12.4	15.6	17.1	18.4	19.7	20.9	22.1	23.2
32	9.6	13.6	17.1	18.6	20.0	21.4	22.6	23.8	24.9
34	10.6	14.9	18.5	20.1	21.6	23.0	24.3	25.5	26.7
36	11.5	16.1	19.9	21.6	23.2	24.6	26.0	27.3	28.5
38	12.5	17.4	21.4	23.1	24.8	26.3	27.7	29.0	30.3
40	13.4	18.6	22.9	24.7	26.4	28.0	29.4	30.8	32.1
42	14.4	19.9	24.3	26.2	28.0	29.6	31.1	32.5	33.9
44	15.4	21.2	25.8	27.8	29.6	31.3	32.9	NA	NA
46	16.4	22.5	27.3	29.4	31.3	33.0	34.6	NA	NA
48	17.4	23.8	28.8	31.0	32.9	34.7	36.3	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.

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