Coolerado®

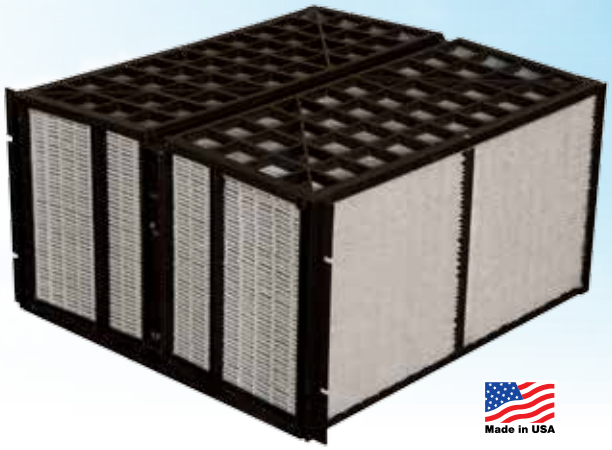
Coolerado HMX

HMX Specifications

- Polyethylene, infused with a biocide
- Integrated watering system
- Modular, easy-to-install cassette
- Class 2, UL 900, smoke and fire rating
- 21.19”(538mm) (L) x 18.75”(476mm) (W) (Flange is 20.23” (514mm wide) x 11.38”(289mm) (H) (Stacked Height is 11.00”(279mm)
- Contains 1/3 mile of channels in the HMX or about .53 kilometers

Coolerado air conditioners offer customers dramatic reductions in their cooling consumption, energy spend and carbon footprint – all without the use of refrigerants and compressors. At the core of these innovative and award-winning products is an ingenious cooling technology, called the Coolerado HMX (Heat and Mass Exchanger). The Coolerado HMX uses a thermodynamic cycle – known as the Maisotsenko Cycle – to produce unprecedented air temperature reductions.

What makes Coolerado patented HMX technology so special?



- Exceptional cooling energy savings – up to 80% (depending on application).
- Provides healthier indoor atmosphere by incorporating 100% fresh air.
- Ideal for customers with high heat loads.
- Cools without the use of refrigerants or energy- gorging compressors.
- Capacity increases along with ambient temperature.
- Requires minimal maintenance.
- 120% wet bulb effectiveness.

Scalable and adaptable design

- Is capable of cooling a small server room or a large manufacturing facility.
- Delivers cool, fresh air in the most efficient way possible.
- Has a modular design that allows for multiple HMX units to be stacked next to each other to increase cooling capacity.
- Is mounted in a polypropylene, reinforced cassette and can be set on top of one another and snapped together to form a stable, self-supporting unit.

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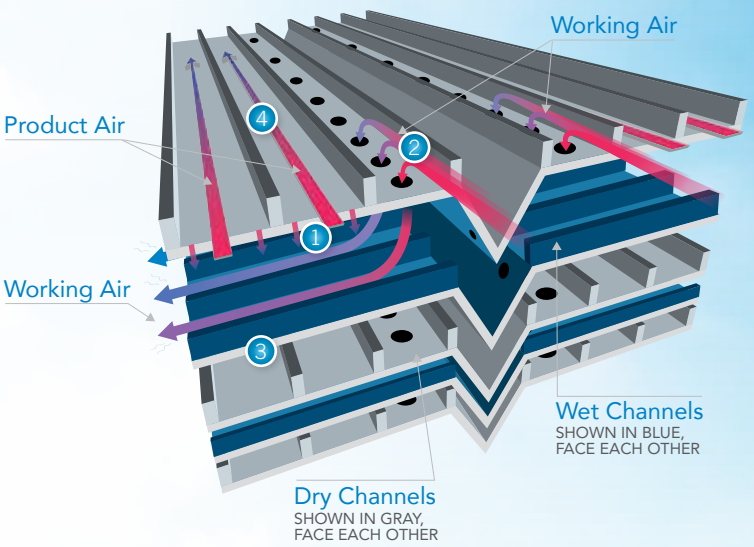
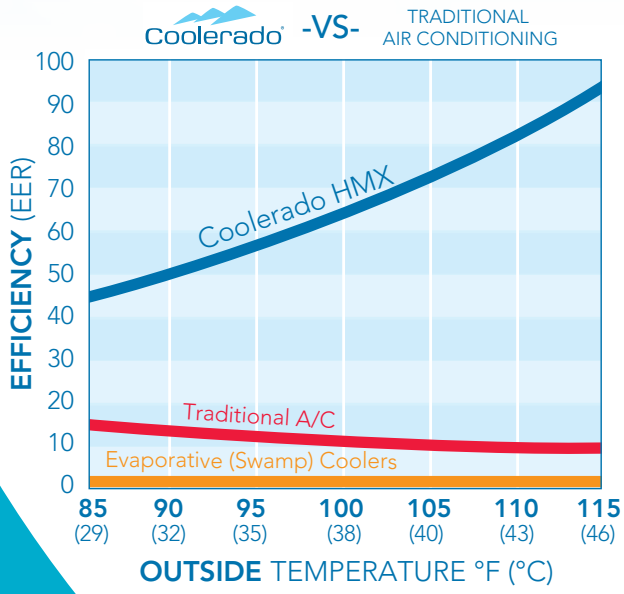
A Guideline of HMX per CFM (LPS) Needs

Supply CFM (LPS)	6,500 (3,057)	15,000 (7,055)	20,000 (9,407)	30,000 (14,110)	65,000 (30,572)
Coolerado HMXs	25	55	75	110	240

Coolerado HMX

1. Product air and working air enter the dry side of the HMX.
2. Cooled working air is fractioned off into wet channels throughout the exchanger.
3. Heat from the product air is transferred into the working air through evaporation and is rejected as exhaust.
4. The product air travels the length of the dry channels, while transferring its heat to the working air in the wet channels above and below. As a result, the product air cools down and remains dry as it enters the building.





Case Studies of Coolerado HMX cooling

Application	Customer	Location	Performance
Data Center	NSIDC	Colorado	95% annual energy savings
Industrial	Ram Grinding	Colorado	90% peak consumption reduction
Food Processing/ Compressor Room	Kellogg's	Mexico	Energy reduction of 88% during peak cooling
Commercial	Office Supply Retailer	California	53% reductions in compressor run time.

To learn more about Coolerado HMX technology and how it can solve your cooling needs, log on to Coolerado.com/hmx.

Another quality product by

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coolerado.com

CL0006b REV A 0516 US Information was correct at the time of preparation. E & OE