



CULERHome

Flash-Evaporative Air Coolers

About CULER



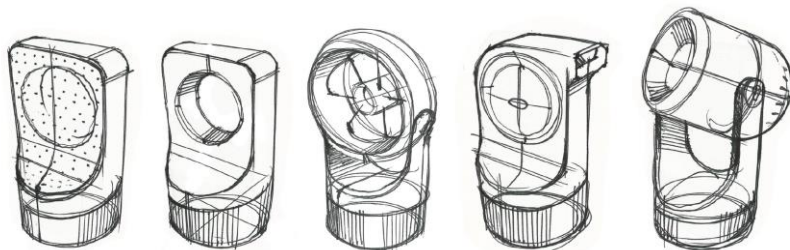
Organized in
2006 as
AURAMIST



More than 75
US &
International
Patents



Headquartered
in Nashville:
Sales,
Marketing,
Distribution



Full in-house product
development capabilities

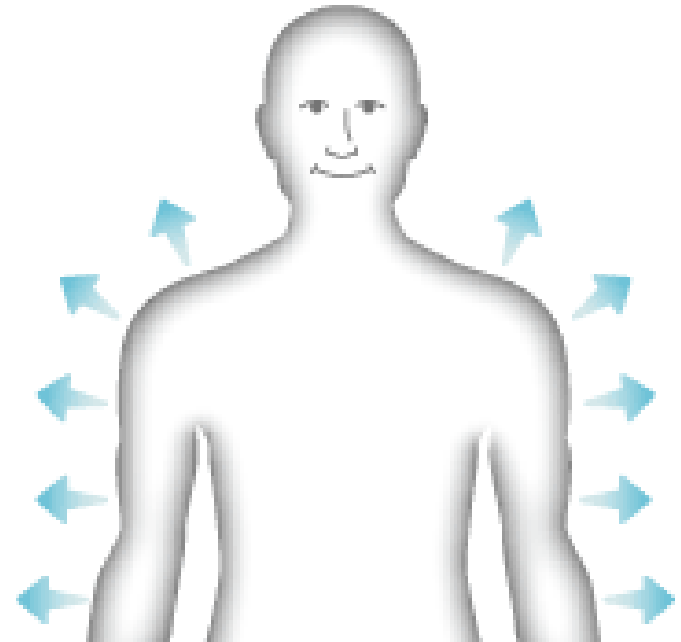
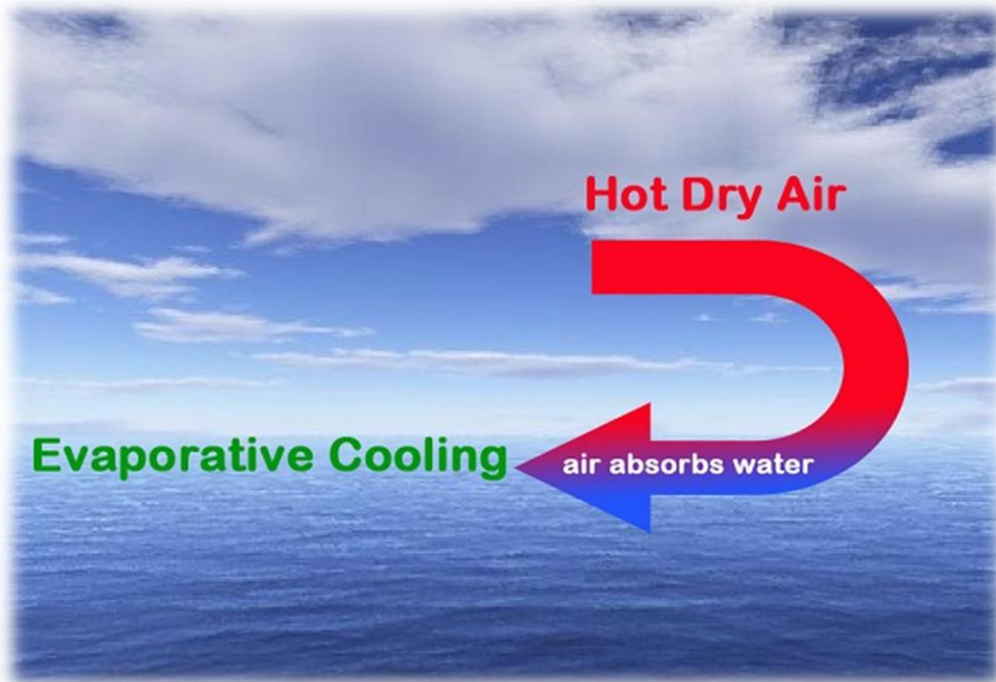


Manufacturing in
North Carolina &
Tennessee



Rebranded in
2015 as
CULER

Evaporative Cooling is *Natural*



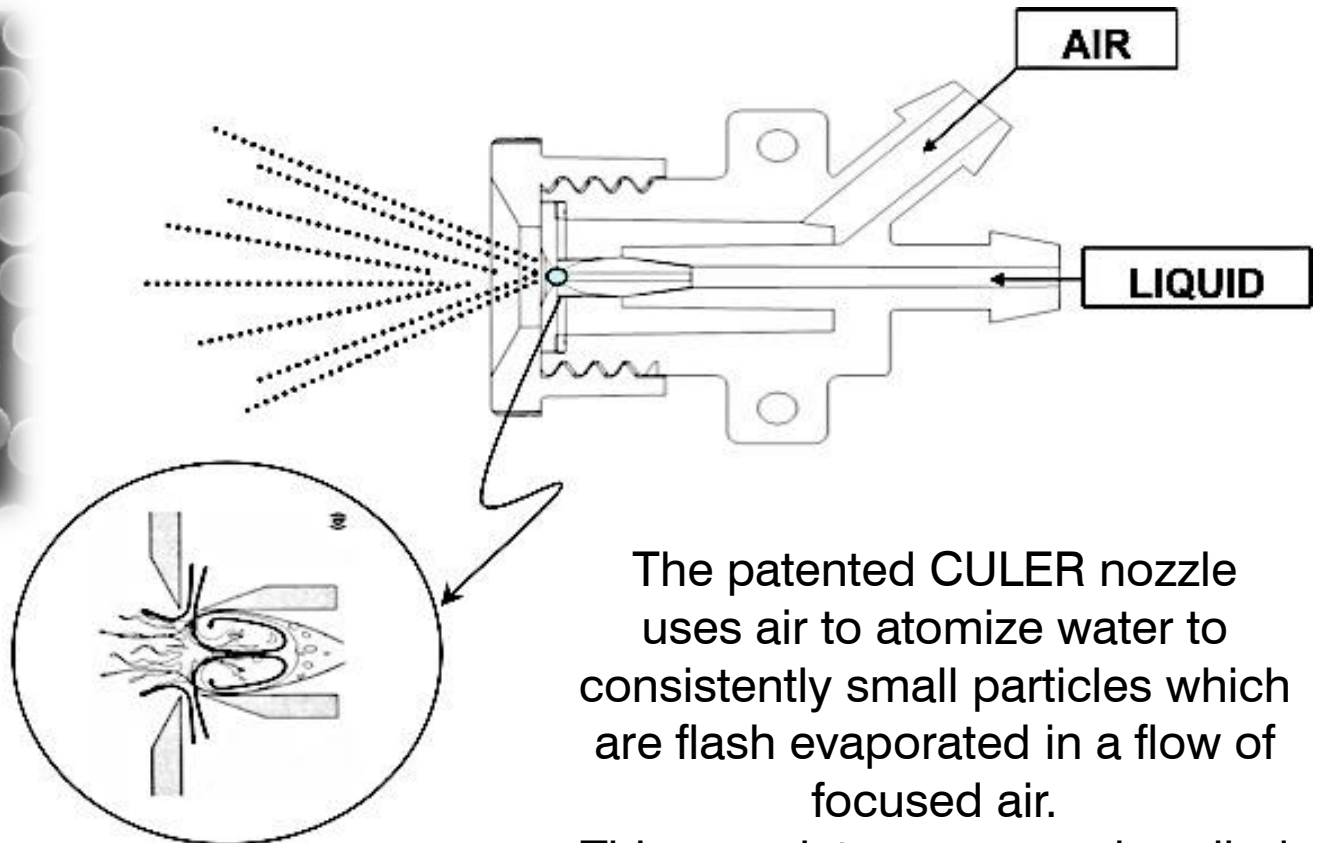
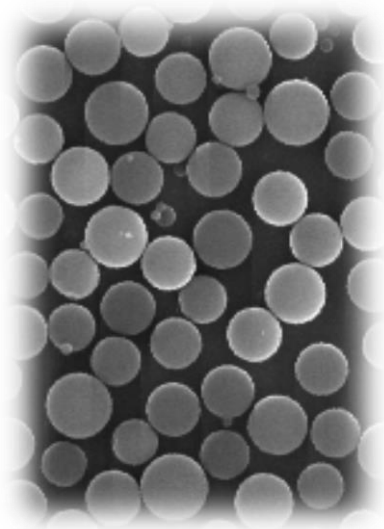


The **COOLEST,**
EASIEST,
MOST PORTABLE
Evaporative Air Coolers



The first
innovation
in the
category
since the
1960's

Patented CULER Technology



Turbulent Mixing Chamber

The patented CULER nozzle uses air to atomize water to consistently small particles which are flash evaporated in a flow of focused air.

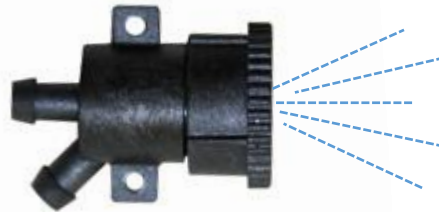
This proprietary process is called ***Flow Blurring***[®].

75+
PATENTS

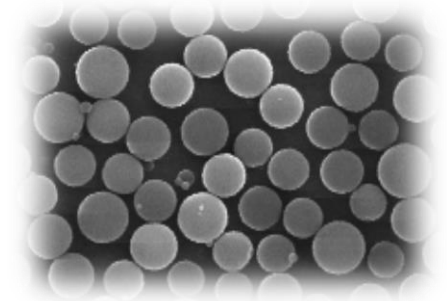
How it Works



LOW
pressure
air & water



Proprietary
Flow Blurring
nozzle



Consistently
small
atomization

- Simple, compact system is very portable and scalable
- Low pressure system is less expensive and very energy efficient
- Delivers consistent particle size for complete flash evaporation
- Mechanically induced turbulence avoids “clogging points”

Independent Testing

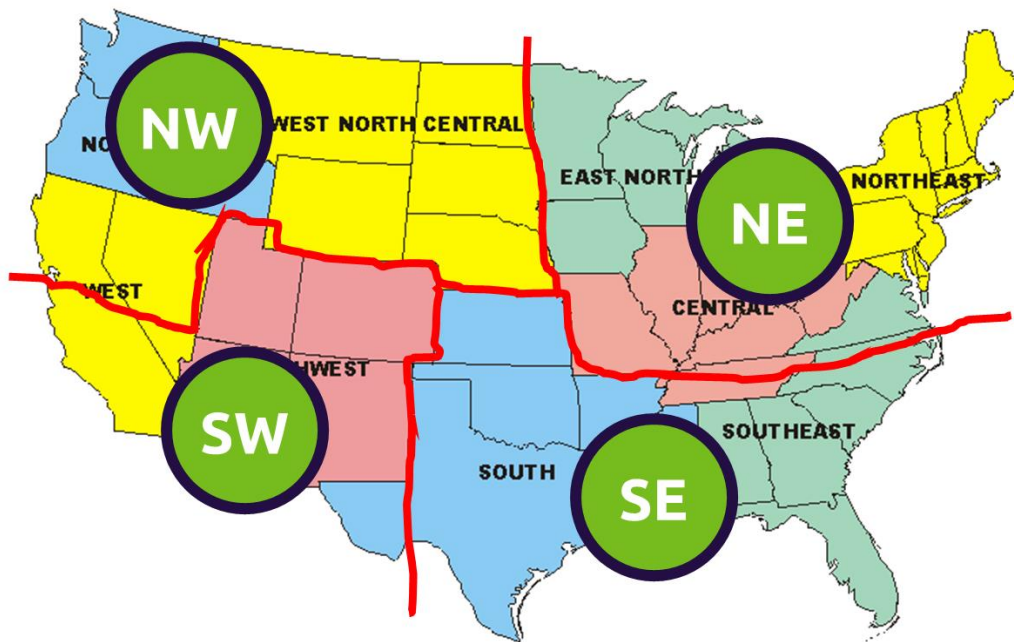
An independent laboratory conducted performance tests on two CULER Home flash-evaporative coolers and two competitive pad-type evaporative coolers.



Formed in 1990
ISO 17025 certified test lab
14 environmental chambers

Selecting Test Conditions

THE NINE REGIONS AS DEFINED BY THE NATIONAL CLIMATIC DATA CENTER (NCDC) AND REGULARLY USED IN CLIMATE SUMMARIES



Region	Avg High Temp Summer (° F)	Avg Relative Humidity Summer (%)
SW	90	25
NW	80	40
NE	90	50
SE	85	70

CLIMATE PREDICTION CENTER, NOAA

Through climate analysis, National Centers for Environmental Information scientists have identified nine climatically consistent regions within the contiguous United States which are useful for putting current climate anomalies into a historical perspective

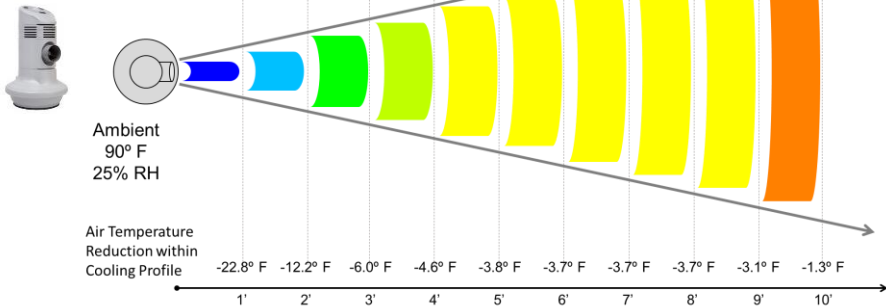


Summer is June, July, August

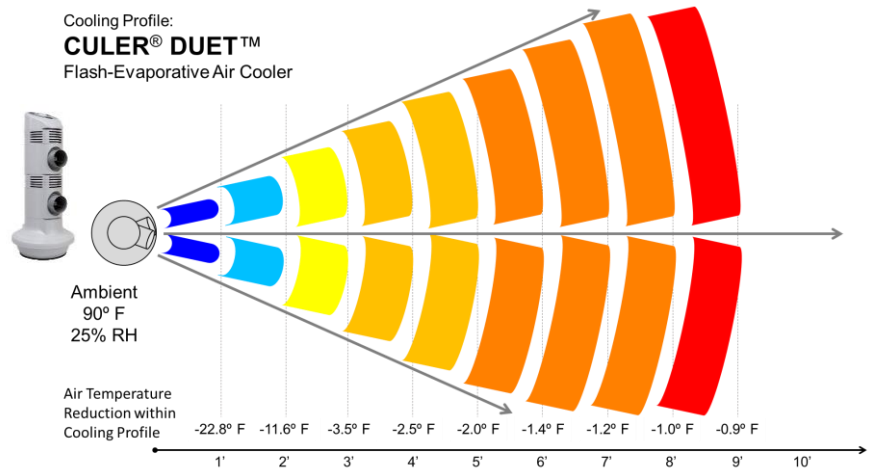


Hot & Dry 90° F, 25% RH

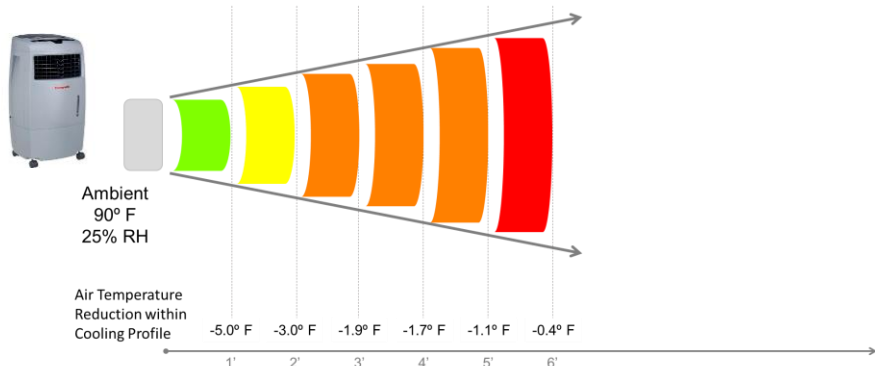
Cooling Profile:
CULER® SOLO™
Flash-Evaporative Air Cooler



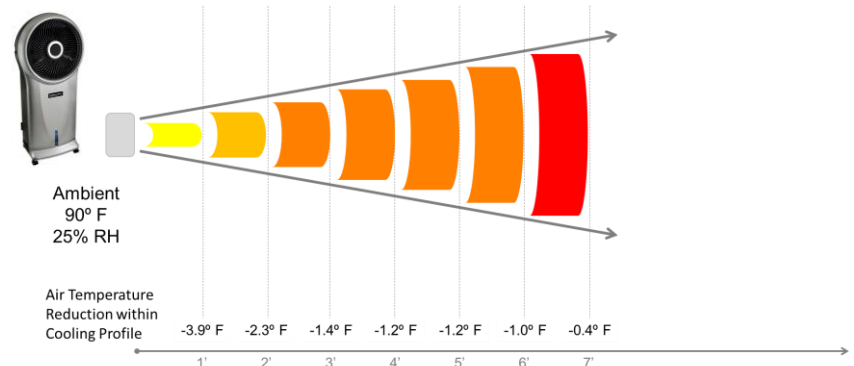
Cooling Profile:
CULER® DUET™
Flash-Evaporative Air Cooler



Cooling Profile:
Honeywell® CO25AE
Evaporative Cooler



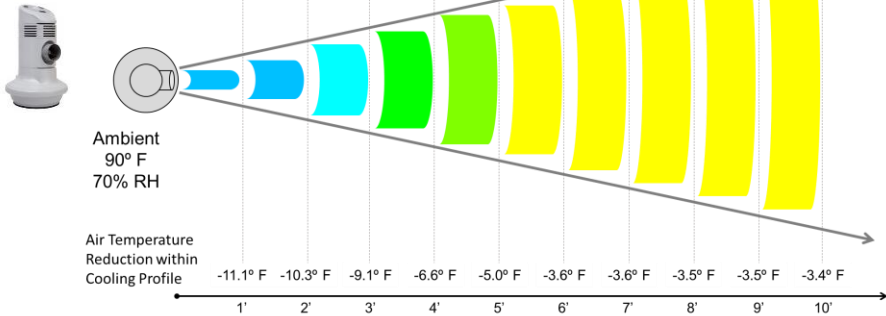
Cooling Profile:
Luma Comfort™ EC110S
Evaporative Cooler



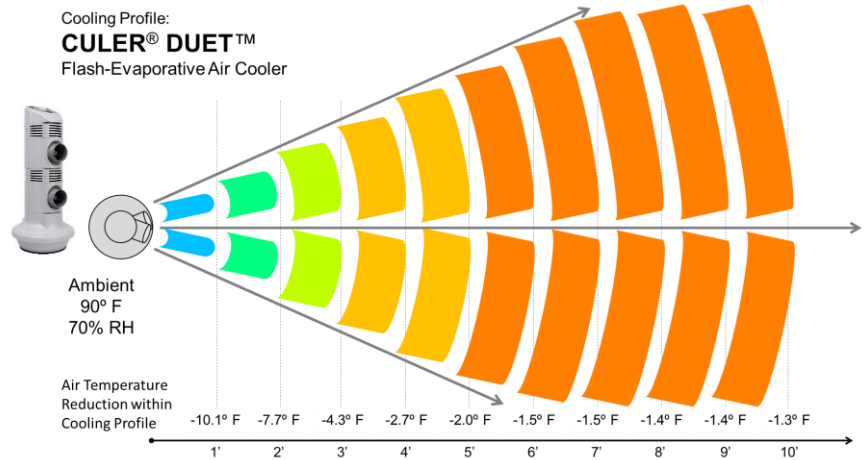


Hot & Humid 90° F, 70% RH

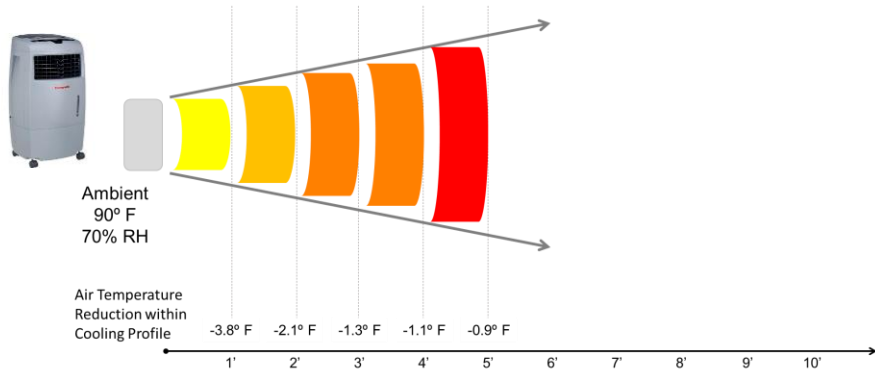
Cooling Profile:
CULER® SOLO™
Flash-Evaporative Air Cooler



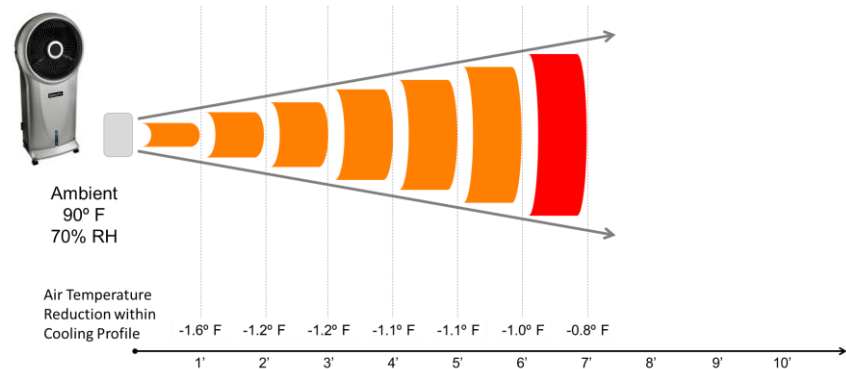
Cooling Profile:
CULER® DUET™
Flash-Evaporative Air Cooler



Cooling Profile:
Honeywell® CO25AE
Pad-Type Evaporative Cooler



Cooling Profile:
Pad-Type, 500 CFM
Evaporative Cooler





Coollest

CULER**Home** flash-evaporative air coolers ***produce cooler air*** than competitive pad-type evaporative coolers

CULER**Home** flash-evaporative air coolers produce cool air ***in nearly any climate***

Most Water Efficient

100%
evaporation

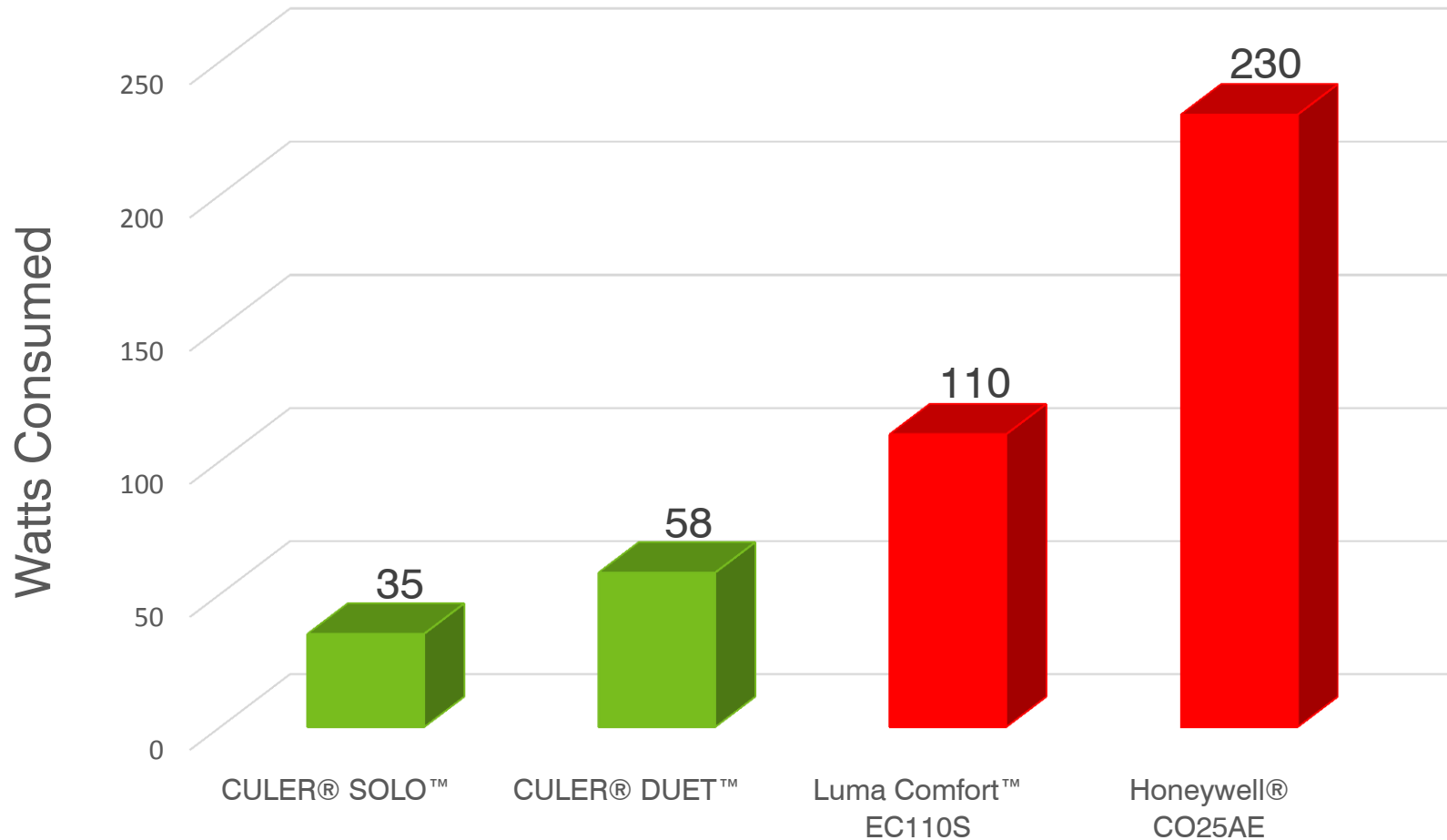
&



no water
recirculation



Most Energy Efficient



Easiest



Simple user interface



No pads to clean



Tilt & turn adjustment



No pads to replace

Most Portable



Lightweight



Fully enclosed design



Built in handle



Compatible with home AC or vehicle DC power sources

Most Portable



Year-Round | Indoor & Outdoor



Quality



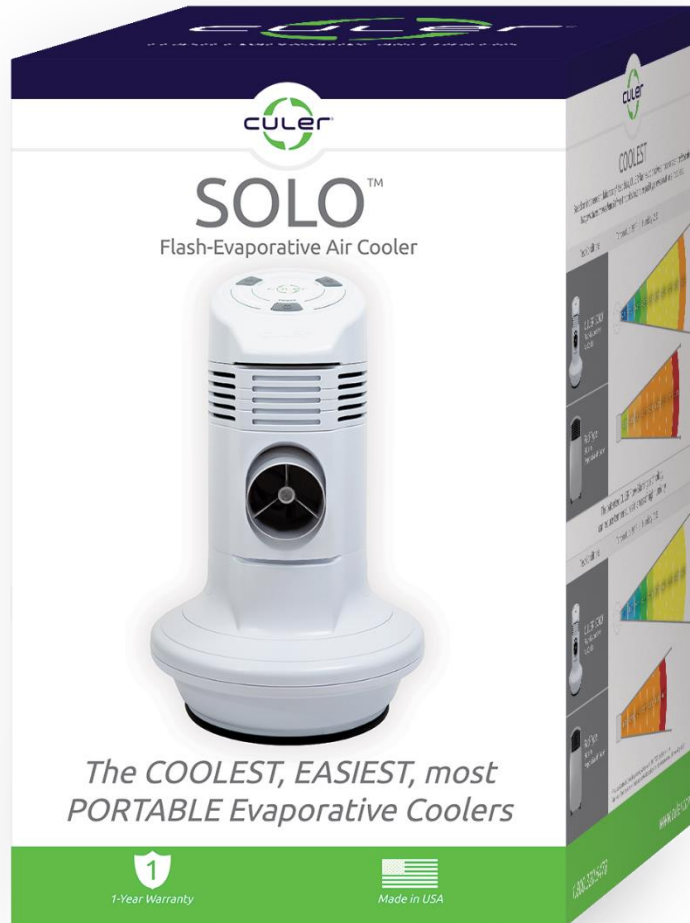
Proudly Made in USA



One Year Warranty



Retail Packaging





Retail Packaging





CULERHome Retail Pricing

2016

Item

MSRP

MAP

CS10 SOLO

\$239.99

\$199.00

Item

MSRP

MAP

CD20 DUET

\$299.99

\$249.00



CULERHome Video

<https://culer.egnyte.com/dl/RhKe5UVtXr>



Specifications

SOLO



Model #	CS10
Cooling Ports	1
Port Tilt	Level to 15° Up
Port Rotation	90° Left & 90° Right
Fan Speeds	3
Air Velocity* (L/M/H)	799 / 1003 / 1122 fpm
Sound Level (L/M/H)	56 / 58 / 60 dBA

Tank Capacity	1 Gallon
Cooling Time	10+ hours
Product Dimensions	21" H x 13" W x 13" D
Required Power Source	Standard 3-Prong Receptacle
Power Consumption	35 Watts
Power Cord Length	6 Feet
Weight	10.3 lbs empty / 18.7 lbs full

DUET



Model #	CD20
Cooling Ports	2
Port Tilt	Level to 15° Up
Port Rotation	90° Left & 90° Right (independent)
Fan Speeds	3
Air Velocity* (L/M/H)	799 / 1003 / 1122 fpm per port
Sound Level (L/M/H)	57 / 59 / 61 dBA

Tank Capacity	1 Gallon
Cooling Time	6+ hours
Product Dimensions	29" H x 13" W x 13" D
Required Power Source	Standard 3-Prong Receptacle
Power Consumption (L/M/H)	58 Watts
Power Cord Length	6 Feet
Weight	13.6 lbs empty / 22 lbs full

*Measured 12" from face of port



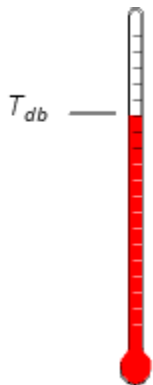
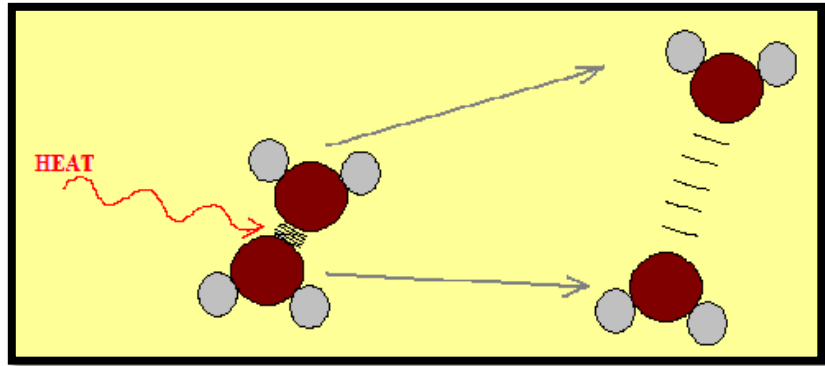
Addendum

Evaporative Cooling 101

Evaporation is a cooling process

As the liquid turns to a gas, the phase change absorbs heat.

The energy needed to evaporate the water is taken from the air in the form of sensible heat, which reduces the temperature of the air.

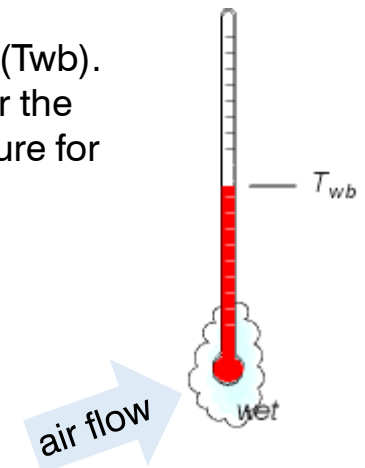


An Evaporative Cooler (EC) works by taking advantage of differences between the dry bulb temperature (T_{db}) and the wet bulb temperature (T_{wb}). This differential is known as the wet bulb depression (wbd). The greater the wet bulb depression, the greater the potential reduction in air temperature for an EC.

The efficiency of an EC is calculated as a percentage of the wet bulb depression the EC is able to achieve under given climatic conditions.

For a demonstration of dry bulb versus wet bulb watch this video:

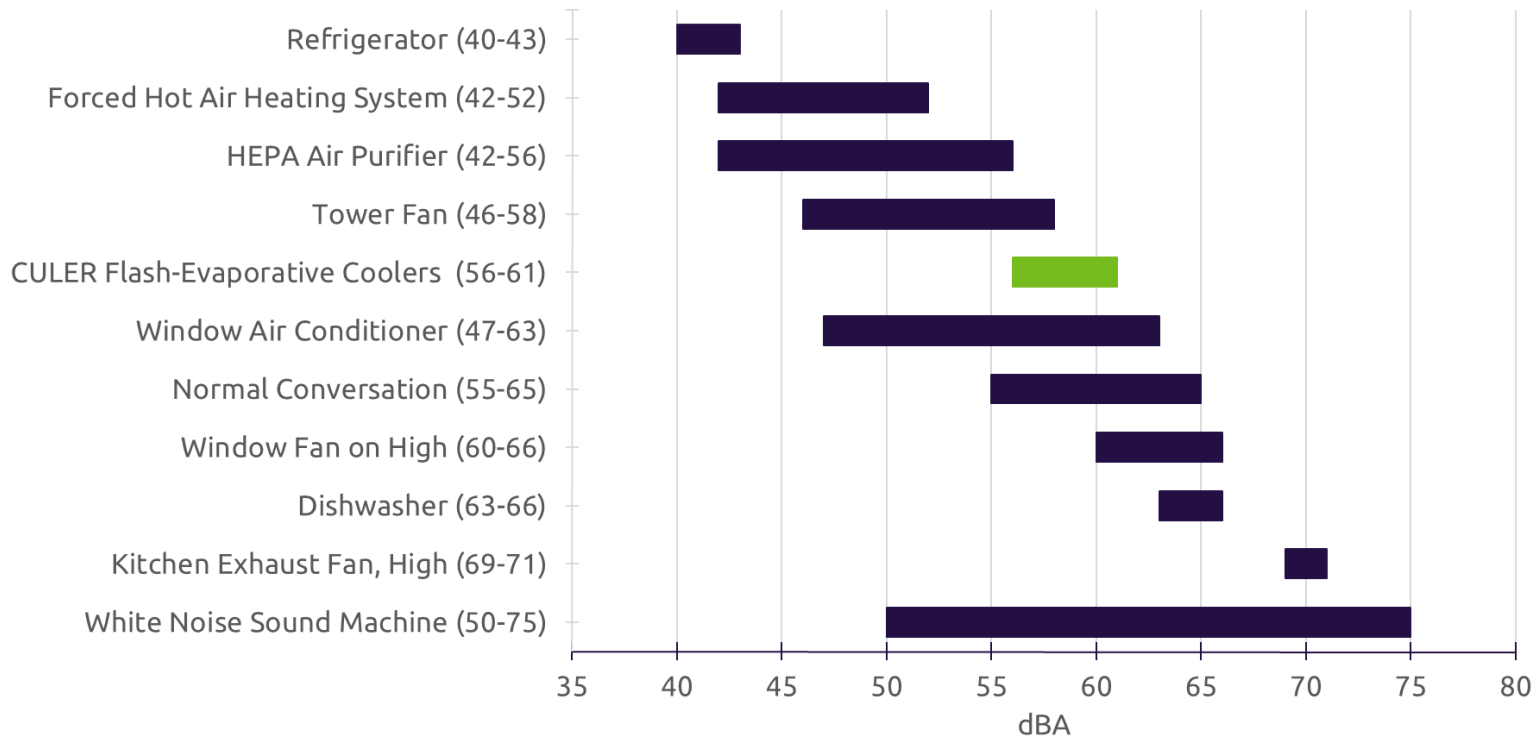
<https://youtu.be/2265UNfIXT4>





CULER Home Sound Levels

Take a look at the noise levels of many common appliances and events around the house. All sounds are measured at the distance that a person would typically be from the source.



<http://www.nonoise.org/library/household/>