

WINNER

POPULAR
SCIENCE
BEST OF
**WHAT'S
NEW**
2009

WINNER



COOLERADO H80 HYBRID ROOFTOP UNIT

The Coolerado H80 equipment utilizes a combination of Coolerado indirect evaporative cooling (no moisture addition to indoor air), and conventional compressor-based cooling. The H80 is nominally rated to provide 5 tons of cooling (8 tons of equivalent make up air cooling), and is designed principally for commercial buildings. The Coolerado H80 has enough cooling capacity to serve up to 3,000 square feet of floor area.



www.coolerado.com



H80

RECOGNITION

DOE

U.S. Department of Energy tested the Coolerado H80 RTU Hybrid—verifying an energy efficiency ratio (EER) of 21.7 at 105°F and an EER of 51.8 at 90°F annual test conditions.

(Test available on coolerado.com)

UC DAVIS

WESTERN COOLING CHALLENGE

The Coolerado H80 RTU Hybrid beat the University of California Davis Western Cooling Challenge EER targets by 44% at the peak test condition, and 170% at the seasonal test condition—according to UC Davis. This translates to an estimated peak savings of 58%, and a seasonal energy savings estimate of 80% compared to 2010 DOE standards.

MORE AWARDS



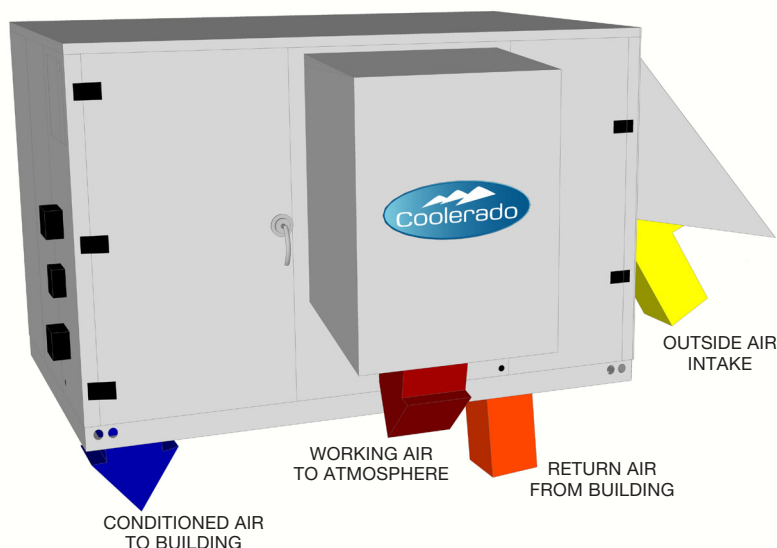
2006 Top-10
Green Building Product
GreenSpec[®] LISTED
www.BuildingGreen.com




Coolerado[®]

FEATURES AND SPECIFICATIONS

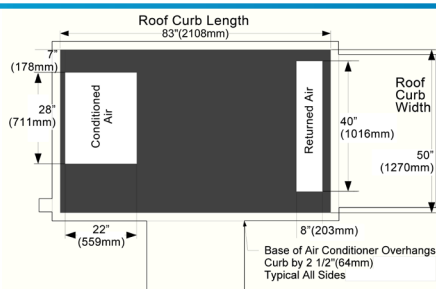
- 5 year limited warranty.
- EER 21+ (Energy Efficiency Ratio)
- Hybrid Coolerado heat and mass exchanger (HMX) and two stage high efficiency compressor with R-410A refrigerant system.
- COP (Coefficient of Performance) 6 to 15.
- Cooling capacity increases as ambient temperature increases.
- Easy maintenance.
- Low water use – water control assembly with pressure gauge included.
- New, patented thermodynamic cycle.
- Electro-galvanized and powder coated steel housing.
- Easy to connect power/control wiring.
- Integrated control module for reliable, economical operation.
- Patented, high technology, polypropylene heat and mass exchanger.
- Biocide integrated into poly mass exchange fibers.
- Removable panels - greater durability, ease of access.
- Environmentally friendly refrigerant.
- More fresh, outside air for better indoor air quality (IAQ).
- Filtered air with reduced dust, pollens and allergens.
- High efficient, electronically commutated motor (ECM).
- Full-featured digital monitoring and control of HVAC and water. BACnet (Ethernet, IP, ARCNET, MS/TP, PTP), LonWorks, ModBus (RTU, ASCII), N2Bus.



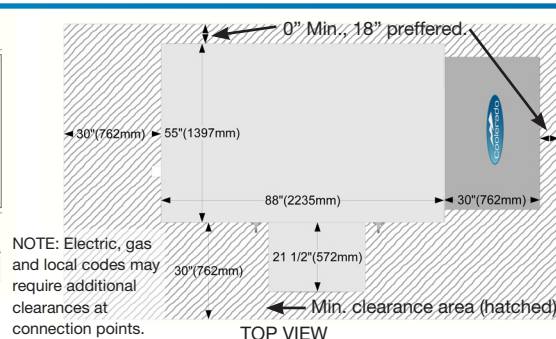
- Optional auto-variable speed thermostat available.
- Extended life, polypropylene HMX.
- Top 100 products of 2004 as selected by R&D 100 committee.
- GreenSpec® Listed as 2006 Top 10 Green Building Products.
- Winner - Popular Science; Best of What's New
- Winner - UC Davis Western Cooling Challenge.
- Smart-grid compatible.
- Galvanized steel and powder-coated cabinet.

CONDITIONED AIR

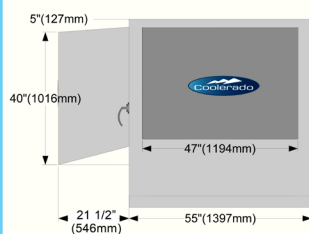
Conditioned air flow at 1,800 CFM (2,700 m³/h) [760 L/s] with 0.7" IWC 174.02 Pa external ducting losses.



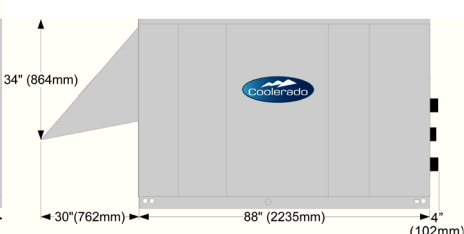
ROOF CURB PLAN VIEW



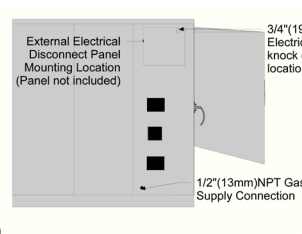
TOP VIEW



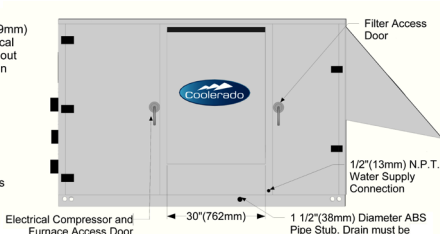
INTAKE AIR SIDE



RIGHT SIDE



CONDITIONED AIR SIDE



LEFT SIDE

POWER

3,000 Watts (max)
220V, 60Hz, 1PH

WATER

3/8" water supply line at
35 PSI (min) (2,40 Bar)

WEIGHT

1,400 lbs (636 kg) dry (shipping)
1,550 lbs. (704 kg) wet (operating)

OPTIONS

- A - Heat pump
- B - Hot water coils
- C - Hand-held control interface

- D - Painted or powder coated cabinet
- E - Transition curb

