



## H80 HYBRID ROOFTOP UNIT

### ADAPTABLE AND AWARD WINNING

Meet our most celebrated cooling champion. Our H80 brings you eight full tons of cooling power for rooms up to 3,000 square feet. It also offers the capability to heat, and it provides the cross function of a conventional air conditioner in more humid applications. This cooling champ can dramatically reduce your energy bill (and carbon footprint) for a quick return on your investment.

#### COOLERADO H80

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.



RECOGNITION

WINNER



#### 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.

#### 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)

### COOLERADO IS GREEN<sup>3</sup>

#### Green for your pocketbook



Coolerado Air Conditioners use up to 90% less energy than conventional systems, saving you a lot of green on your energy bill.

#### Green for the planet



Coolerado Air Conditioners are an environmentally responsible choice, because 90% less energy means 90% less carbon emissions.

#### Green for you



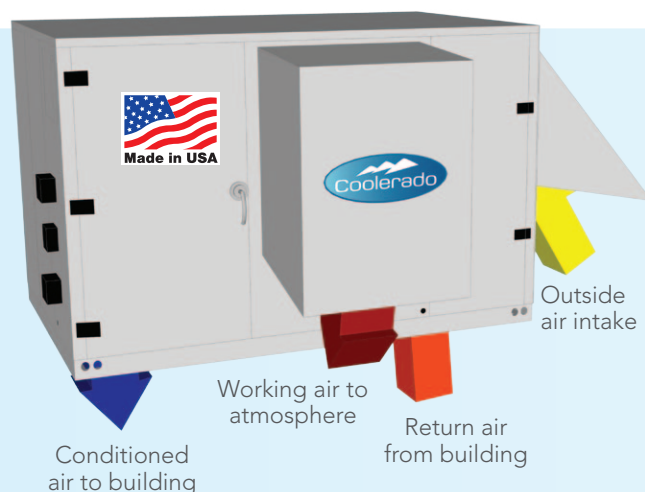
Coolerado Air Conditioners provide 100% fresh, filtered air, dramatically improving indoor air quality while removing dust, pollens and allergens.

Refreshingly Efficient

coolerado.com 1.855.854.COOL

## H80 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.



### Power

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

### Water

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

### Weight

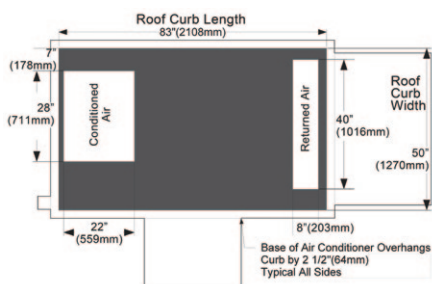
1,400 lbs (636 kg) dry (shipping)  
1,550 lbs. (704 kg) wet (operating)

### Options

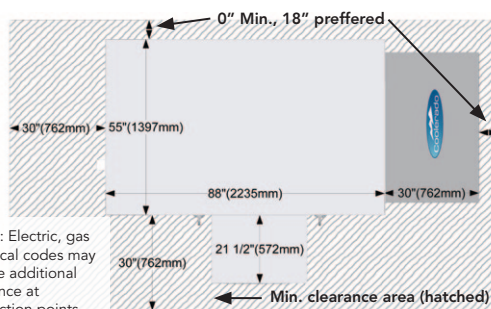
- A** Heat pump
- B** Hot water coils
- C** Hand-held control interface
- D** Painted or powder coated cabinet
- E** Transition curb

## CONDITIONED AIR

Conditioned air flow at 1,800 CFM (2.700 m<sup>3</sup>/h) [760 L/s] with 0.7" IWC  
174.02 Pa external ducting losses.

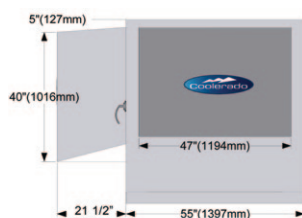


ROOF CURB PLAN VIEW

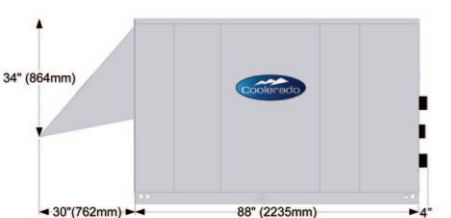


TOP VIEW

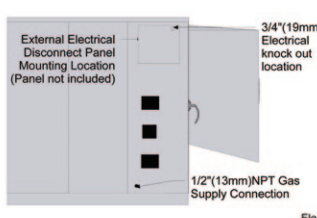
NOTE: Electric, gas and local codes may require additional clearance at connection points.



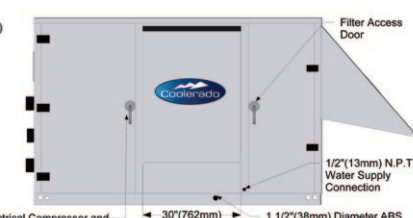
INTAKE AIR SIDE



RIGHT SIDE



CONDITIONED AIR SIDE



LEFT SIDE

