CAMBRIDGE ENGINEERING INC

E-SERIES

Direct Evaporative Cooling Technology

Formerly SPEC-AIR

Benefits at a Glance for:

Engineers

- 10 models ranging from 10,000 to 80,000 CFM
- Up to 2.5" Total Static Pressure

Contractors

- Cambridge Factory Start-up
- Ability to win more projects

Building Owners

- Energy Efficient VFD controls
- Provides superior IAQ
- Reduces carbon footprint

ASHRAE 90.1 COMPLIANT

The E-Series direct evaporative cooling (DEC) unit is for commercial and industrial applications where it is engineered to provide cool, fresh, conditioned air for your facility. It will create a more comfortable and productive work environment while using up to 70% less energy than conventional mechanical cooling systems.

Industry Applications

Commercial

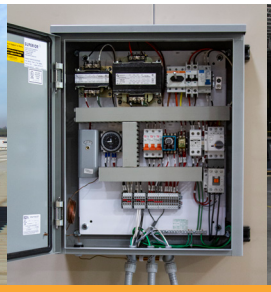
- Warehouse/Distribution
- Aviation
- Sports Arenas
- Greenhouses
- Agriculture
- Municipality

Industrial

- Manufacturing
- Warehouse
- Waste Water Treatment
- Foundries

Performance Features

- Evaporative cooling media is engineered to be self-supporting, impregnated and treated to provide high absorbency
- 12" media depth will provide saturation efficiency of 88% when operated at 500 feet per minute (fpm) face velocity
- 2" extruded aluminum frame provides maximum strength and minimal deflection
- Access doors are provided with hinges and reinforced nylon handles
- Evaporative section is constructed from single wall 304 stainless steel
- Sump is constructed from 304 stainless steel and fully welded
- Premium corrosion-resistant stainless steel cooler pump provides water flow through clog less nozzles
- NEMA 3R control panel with a through the door non-fused disconnect switch
- Air is moved by a double width, double inlet forward curve fan which is statically and dynamically balanced on units through size E120
  (Backward inclined fan provided on size E160)



E-SERIES

Direct Evaporative Cooling Technology

Formerly SPEC-AIR

Specifications – Base Unit

Airflow Ranges: 10,000 - 80,000 CFM

- E30 10K – 16K CFM
- E36 14K – 20K CFM
- E42 17K – 23K CFM
- E48 20K – 26K CFM
- E60 24K – 33K CFM
- E72 26K – 40K CFM
- E84 31K – 46K CFM
- E96 37K – 53K CFM
- E120 50K – 65K CFM
- E160 60K – 80K CFM

Mounting: Outdoor Only
- Roof Top
- Pad Mount

Discharge:
- Down Blast
- Up Blast
- Horizontal Blast

Voltage:
- 460/3/60
- 230/3/60
- 208/3/60

Casing/Finish:
- Single Wall Galvanized
- Powder Coat, 1000 Hour Salt Spray

Direct EVAP Section Paint: Unpainted Stainless

Available Options/Accessories

Intake:
- Screen
- Louver
- Hood

Filters:
- None
- 1" Aluminum
- 2" Aluminum
- 2" MERV 8

Motor Type:
- ODP
- TEFC

VFD

Fill & Drain Kit

Media:
- 12" CELdek
- 12" GLASdek

Piping:
- PVC
- Copper

Redundant Pump

Casing/Finish:
- Single Wall Stainless Steel
- Double Wall Galvanized
- Double Wall Stainless Steel

2-Position Inlet Damper

Remote Control Panel
- Programmable Room Thermostat

Curb:
- Flat 14"
- Flat 24"

Rails/Stands:
- 14" and 24"

Insulation:
- 2" Thick, 2.8# Density Mineral Wool Insulation To Provide R8 Insulating Factor *(Insulation Directly In The Airstream Is Not Acceptable)*

CAMBRIDGE ENGINEERING INC®

Cambridge Engineering, Inc. 760 Long Road Crossing Dr. Chesterfield, MO 63005

800.899.1989 Fax 636.530.6133 www.cambridge-eng.com