The ESC-Series evaporative cooling unit is a semi-custom fabricated air handler that can utilize direct (DEC), indirect (IEC) evaporative cooling, or a combination of both indirect/direct (2-Stage) evaporative cooling to meet specific usage and dimensional requirements. Heating options are also available. The evaporative cooling unit uses 100% outside air to provide tempered makeup air and building cooling.

### Industry Applications
- Warehouse/Distribution
- Aviation
- Sports Arenas
- Agricultural
- Call Centers
- Food Processing Plants
- Manufacturing
- Health Care/Labs
- Waste Water Treatment
- Foundries
- Institutions/Prisons
- Schools

### Features

#### Indirect
- Utilizes indirect plate exchanger
- Compact polymer plate exchanger
- Typical efficiencies 60 - 80%
- Low static pressure drop
- Outside air used for vaporizer air
- Energy recovery
- Built to suit applications

#### Indirect/Direct
- Sensible cooling with adiabatic cooling
- Uses plate exchanger with waste air stream and direct evaporative media
- Saturation efficiency up to 120%
- In drier climates can achieve discharge temperatures in the mid to high 50’s
- EER above 30 in high wet bulb areas
- EER near 100 in drier areas
- No mechanical cooling required
Specifications – Base Unit

Airflow Ranges: 2,400 - 56,000 CFM
- ESC4L 2,400 – 4,000 CFM
- ESC6L 3,600 – 6,000 CFM
- ESC4 4,200 – 7,000 CFM
- ESC6 6,300 – 10,500 CFM
- ESC8 8,400 – 14,000 CFM
- ESC10 10,500 – 17,500 CFM
- ESC12 12,600 – 21,000 CFM
- ESC14 14,400 – 24,000 CFM
- ESC2-8 16,800 – 28,000 CFM
- ESC2-10 21,000 – 35,000 CFM
- ESC2-12 25,200 – 42,000 CFM
- ESC2-16 33,600 – 56,000 CFM

Mounting:
- 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
- Single Wall Stainless
- Double Wall Galvanized
- Double Wall Stainless

Paint: 1000 hour salt spray

Available Options/Accessories

Direct Evap Section:
- 12” CELdek
- 18” CELdek
- 12” GLASdek

Indirect Evap Section

Energy Recovery:
- Energy Recovery MUA
- Energy Recovery Economizer

Coil Section:
- 4 Row CW or DX Coil
- 6 Row CW or DX Coil

Hot Water Coil Section:
- 2 Row HW Coil

Gas Heating Section:
- Indirect Fired

Mixing Box:
- O/A & R/A Damper with 2-Pos. Actuator
- O/A & R/A Damper with Modulating Actuator

Curb:
- Flat 14” or Flat 24”

Rail/Stands:
- 14” or 24”

Motor Type:
- ODP
- TEFC

NEMA 3R VFD:
- Without Bypass

Fan Type:
- Forward Curved
- Backward Inclined
- Plenum

Drives:
- 1.2 Fixed
- 1.2 Variable
- 1.5 Fixed
- 1.5 Variable
- Direct Drive

Intake:
- Screen
- Louver
- Hood

Filters:
- 2” Aluminum
- 2” MERV 8
- 12” MERV 13

Remote Control Panel
Programmable Room Thermostat

Insulation:
- 2” thick, 2.8# density, mineral wool insulation providing R8 insulating factor (Insulation directly in the airstream is not acceptable)