



# Engine Air Control System

## Evolution of Conditioning Engine Air

CFR Engines Inc. offers the Engine Air Control System (EACS) for precise management of engine intake air and auxiliary cooling.

Users can rely on the factory design and performance of a complete octane test package, when the Engine Air Control System is paired with a CFR® F1/F2 unit and CFR recommended exhaust components.

### COMPLIANCE

The Engine Air Control System is compliant to all procedures of the current ASTM® Methods:

D2699 – Research Octane Number

D2700 – Motor Octane Number

D2885 – Online Test Method

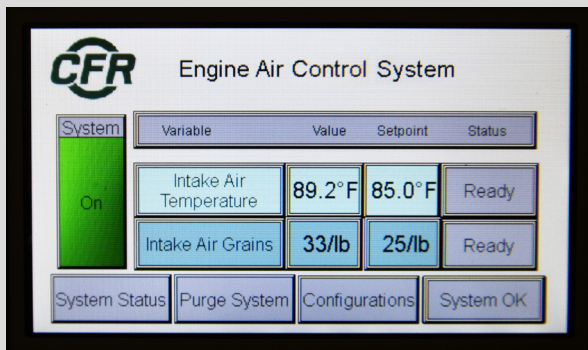
### RELIABILITY

Highly engineered systems and well-designed construction result in performance that will consistently meet engine air specifications for many trouble-free years.

### ACCURACY

Precise control of engine intake air temperature and humidity are critical to meeting the precision that a documented and defensible Octane Number test requires.

- High capacity design to accommodate a broad range of ambient temperatures and relative humidity's.
- Operates seamlessly with XCP® Technology or as a stand-alone system.
- Industrial grade components and construction for extended life.
- Built in on-board system diagnostics as well as data recording capability when paired with XCP Technology.



## Complete System Offerings by CFR

An Engine Air Control System by CFR Engines Inc. delivers precise management of intake air temperature and humidity; easily integrated with CFR F1/F2 Units to form an overall package for producing the most reliable Octane Number.

Like all CFR Engines Inc. products, the Engine Air Control System embodies industrial grade design. Whether it be the pumps, metal work, controls, or temperature/humidity management systems, you can trust that the product has been designed to provide years of reliable and consistent service.

The Engine Air Control System is available as a CFR Genuine Service Part or with any new unit and offered in two configurations – with or without engine air humidification.

### CONFIGURATIONS

Add-on service part:

**p/n G-840-1:** without humidification

**p/n G-840-2:** with humidification

With new unit orders:

**Package C:** without humidification

**Package D:** with humidification

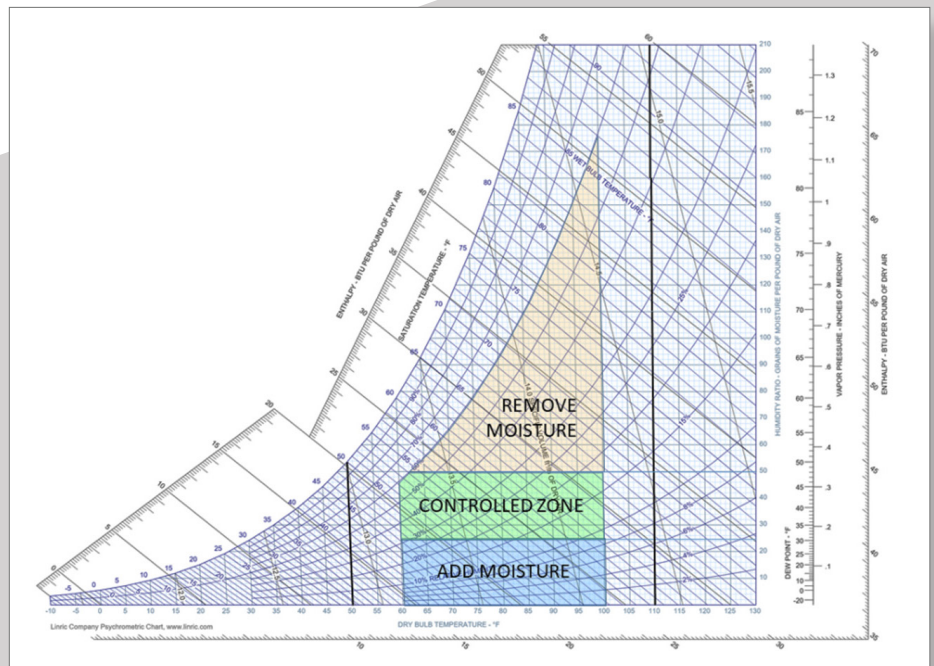
### SMART PLC CONTROL

- Leverages XCP Technology
- Built-in system diagnostics
- Touch screen digital panel
- Data collection for XCP report

### SPECIFICATIONS

- Power Supply = 220V, 1 Ph, 50/60 Hz
- Water Supply = 1/4 inch NPT (for G-840-2 only)
- Condensate Drain = 1/4 inch NPT (both models)
- Approximate H x W x D (both models):  
152 cm (60 in) x 64 cm (25 in) x 53 cm (21 in)
- Carburetor Coolant Temp. = 33-50°F (0.6-10°C)

With a nominal design operating range of 60-100°F (16-38°C) and 10-60% relative humidity, the system can support most global environments without any modification or reliability concerns.



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