



# Cab Pressurization

**Enginaire** Your complete source for air filtration and cab pressurization, now offers three levels of cab pressurization with multiple options at each level.

## **Constant Flow Pressurization**

**Precleans, Filters, and Maintains**

**Pressure With Constant Airflow**

## **Automatic Pressure Control**

**Precleans, Filters, and Maintains**

**Preset Pressure By Monitoring Pressure And Adjusting Airflow With Motor Speed Control**

## **Intelligent Cab Pressurization**

**Precleans, Filters, and Maintains**

**Preset Pressure By Monitoring Pressure And Adjusting Airflow With Motor Speed Control**

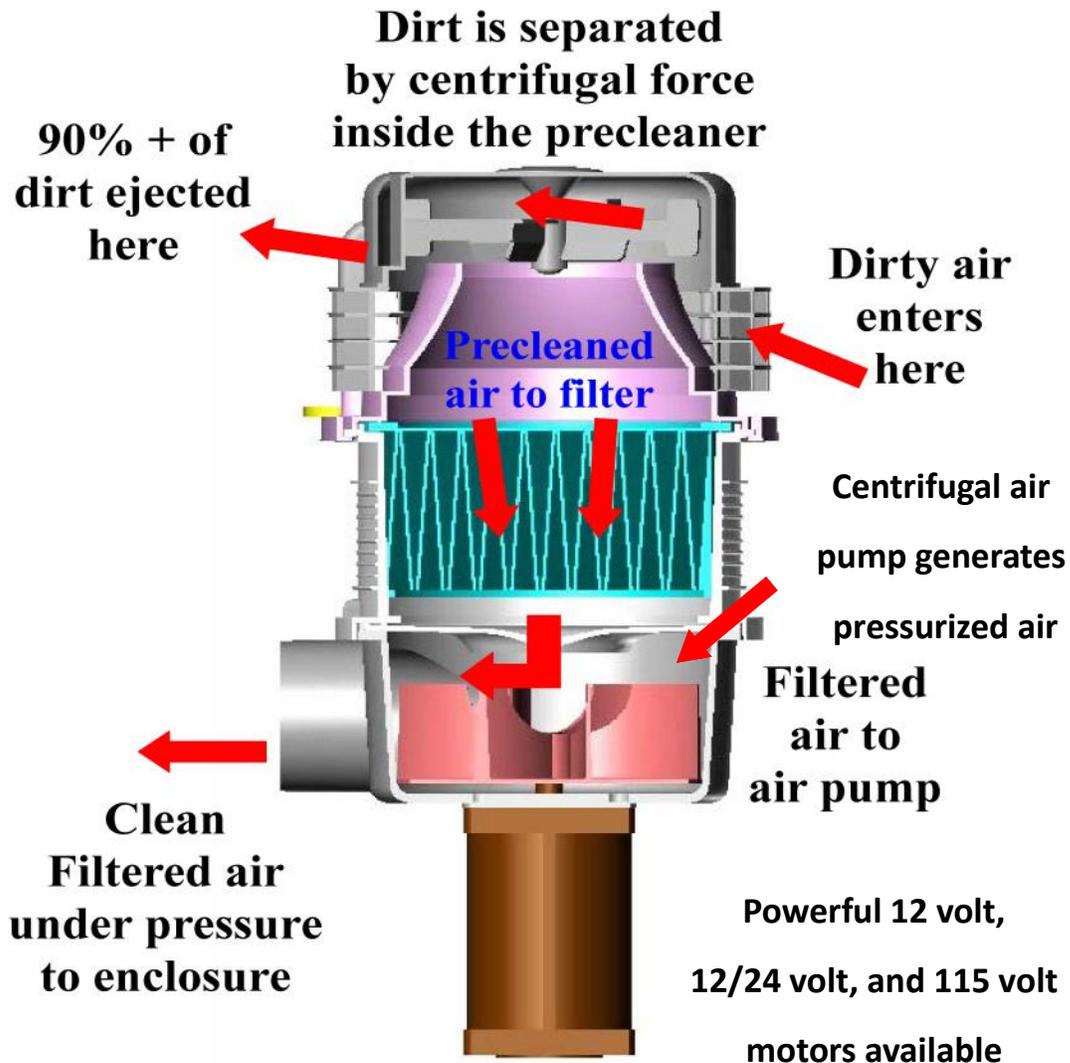
**Includes Data Collection And Low Pressure Alarms**

# CFP - Constant Flow Pressurization

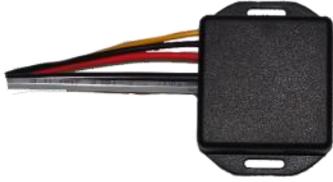
The **Engineire Cabaire**<sup>®</sup> air pressurizer precleans and filters air going into machinery cabins and other enclosures like electronics compartments.

**Positive pressure in the operators environment will force dirt out of the enclosure keeping the operator healthier and all the components cleaner.**

## How Cab Pressurization Works



# APC - Automatic Pressure Control



**The Cabaire APC utilizes Engineaire's long proven precleaner and filtration technology. Add to that a 10,000 hour brushless motor and our “smart box” pressure sensitive motor control and you have state of the art cab pressurization.**

**The APC will monitor the air inside the cab and either speed up or slow down the high capacity air pump to maintain the preset (50 Pascal) pressure. When the machine first starts up the Cabaire will push up to 200 CFM of clean filtered air into the cab. When it senses that the pressure is reached, it slows down and runs whisper quiet while maintaining the preset pressure.**

**Cabaire pressurizers are available with paper, HEPA or activated charcoal elements (PO models have no elements).**

**Constant flow units available 12/24 v DC or 115 v AC**

**APC and ICP units available either 12 v or 24 v DC**

**Model EL**

**Model APC-EL**

**Model ICP-EL**

**Model S**

**Model APC-S**

**Model ICP-S**

**Model PO**

**Model APC-PO**

**Model ICP-PO**



# ICP - Intelligent Cab Pressurization

16 x 2 Alphanumeric LCD Display L.E.D. Back Lit

Displays actual cabin pressure in Pascals on the top line and time and date or any alarms present on the bottom line

Alarm MUTE Button

When an alarm sounds, press this button to mute. The red check LED will remain on until the alarm is corrected.



User Keypad

Used to set up control unit features such as pressure, time, date,

Bright L.E.D. Alarm

Illuminates when the cabin pressure drops below the pre-set point. Also if a door or window opens for more than a pre-set time period.

Rear Connections

This instrument has rear connections for Power, Window Open, Door Open, Normally Open or Normally Closed Volt, Free contacts for remote alarm monitoring, RS232 data logger downloading, and pressure sensor.

- **The Cabaire Intelligent Cab Pressurization (ICP) control is a rugged industrial controller designed specifically to monitor and maintain the air pressure inside a vehicle's cabin so that external harmful dusts and toxic fumes are expelled rather than ingested into the cab and exposing the operator.**
- **The Cabaire ICP controller has a built-in 14 bit digital pressure sensor that can accurately measure pressure between  $-250.0$  and  $+250.0$  Pascals with repeatable accuracy and will display a corresponding alarm if the monitored pressure falls below a user defined set point.**
- **The Cabaire ICP has a 12 bit DAC (Digital to Analogue Converter) output to automatically control the air pump speed to maintain the preset pressure in the cab.**
- **An alarm will light and/or sound if the pressure falls below the preset point. The alarm set point can be set via the user keypad between the range of  $0.0$  and  $100.0$  Pascals.**
- **The data logger will record running pressures as well as any events or alarms that occur during operation. This data will be stored for up to one year and can be uploaded for further evaluation.**
- **The control is conveniently mounted in the vehicle's dash using a standard size radio cutout or remotely mounted in a stand alone case.**



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