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 Alarm MUTE Button Cabin Pressure Monitor and Data Logger When an alarm sounds, press this User Keypad 1/5 1 button to mute. The red check LED wi Used to set up control remain on until the alarm is corrected. unit features such as Cabaire Bright L.E.D. Alarm **Rear Connections** Illuminates when the cabin pressure drops This instrument has rear connections for Power, Window Open, below the pre-set point. Also if a door or Door Open, Normally Open or Normally Closed Volt, Free contacts window opens fro more than a for remote alarm monitoring, RS232 data



Cab Pressurization

Your complete source for air filtration and cab surization with multiple options at each level.

- 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 re-motely mounted in a stand alone case.

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



Watch demo on Youtube



pressurization, now offers three levels of cab pres-

Intelligent Cab Pressurization

Precleans, Filters, and Maintains

Preset Pressure By Monitoring Pressure And Ad-

justing Airflow With Motor Speed Control

Includes Data

Collection And Low Pressure Alarms

CFP - Constant Flow Pressurization

The 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 com-ponents cleaner.



The Cabaire APC utilizes 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 ca-pacity 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 Model APC-S APC-PO Model ICP-S ICP-PO



How Cab Pressurization Works Dirt is separated by centrifugal force inside the precleaner 90% + ofdirt ejected here **Dirty air** enters here ir to filter **Centrifugal air** pump generates pressurized air Filtered air to air pump Clean **Filtered** air Powerful 12 volt, under pressure to enclosure 12/24 volt, and 115 volt

motors available

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APC - Automatic Pressure Control

Model S Model APC-S Model

Model EL Model APC-EL Model ICP-EL

