

# Variable Capacity Industrial Air Conditioner

## Product Description

ARI has developed an air conditioner control which allows very accurate and stable temperature control in industrial enclosures housing electronic controls and temperature sensitive instrumentation. Speed of both evaporator and condenser fans are controlled from 0 to 100%. The controller monitors compressor inlet and outlet temperatures, condenser outlet temperature, evaporator coil temperature and ambient temperature to determine fan speed settings. The air conditioner is controlled and monitored through a PC.



ARI Variable Controller

**“Highly accurate temperature control for industrial enclosures”**



## System Features

- Industrial Air Conditioner with speed control on evaporator and condenser fans
- Enclosure temperature control to  $\pm 1.0^{\circ}\text{F}$  (depending on application)
- System temperatures monitored in multiple locations to determine fan speed settings
- Standard communication with external platforms through RS-232
- Tightly sealed enclosure ensures no air leaks through air conditioner
- Software provided to control and monitor the air conditioner from a PC



The variable speed controller is mounted inside the air conditioner.

## Specifications

Dimensions	10"W x 17"H x 9" D
Capacity	1500 BTU/Hr @ 131F
Enclosure	White enamel paint or stainless steel
Communication	RS-232
Power	115VAC, 3.7 amps @ 95F, 4.3 amps @ 131F
Fan speed control	Evaporator and condenser fans, 0-100% range
Industrial cabinet stability	$\pm 1.0^{\circ}\text{F}$ for temp typical instrument heat loads

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