



**NOVEO TECHNOLOGIES GROUP INC**

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## Specification Data: NOVEO-AIR™ **Variable Air Exhaust System for Paint Booths**

The **Noveo-AIR™** is a variable air exhaust system that automatically varies air exhaust in new or existing paint booths. This unique system monitors spray paint application and reduces air exhaust to optimize efficiency in any application while dramatically reducing energy costs of heating and power consumption which in turn reduces greenhouse gas emissions. The **Noveo-AIR™** system monitors toxic VOC gas concentrations making sure the work environment is always safe to work in.

### COMPONENTS

- **Noveo-AIR™** Centris micro-controller (1).
- DAPBT (differential air pressure block transmitter) (1).
- Control panel with keypad, LCD display and Hand / Off / Auto switch (1).
- Spray detector sensor (1).
- Volatile gas detector (VOC) sensor (1).
- NEMA 3 control panel (1).

### REQUIREMENTS

- Transformer 24V/AC/75VA
- VFD (variable frequency drive).
- Inverter duty motor

### SPECIFICATIONS

The system shall automatically detects when spraying begins, go out of sleep mode and automatically increases air exhaust to maximum capacity. When spraying ceases the system shall progressively reduce the air exhaust in (4) adjustable levels. Level 1 being 'run' mode, level 2 being 'pause' mode, level 3 being 'safety' mode and level 4 being 'sleep' mode. The system must also monitor VOC (volatile organic compounds) gases within the booth and automatically increase air exhaust if the VOC levels exceed normal safety levels. System shall operate on 24V/AC and have output drive options of 0-5V, 0-10V, 4-20mA and an optional BACnet® communication protocol. The system must have an operation statistics readout for energy management.

### FEATURES

- Fully modulated (0-100%) exhaust according to mode.
- Hand « by-pass » / Off / Auto switch to permit electronic by-pass of **Noveo-AIR™** panel.
- Operation statistics available for energy management.
- Illuminated LCD screen for viewing operational status, program energy control parameters and operating history.
- Operator not required. **Noveo-AIR™** control system is completely autonomous "stand alone".
- The VOC detector constantly measures the volatile organic compounds (VOC) and adjusts the ventilation as needed to maintain a safe environment.



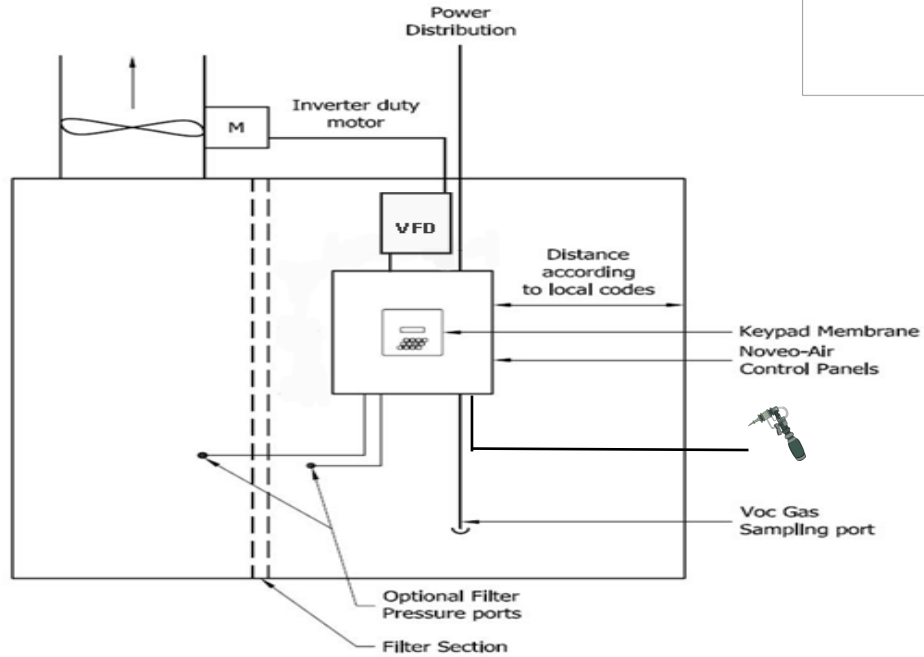
**Noveo-AIR™** Centris  
micro-controller



Keypad ,LCD display



**Physical Description**



**OPTIONAL EQUIPMENT**

- Filter sensor to monitor the filter differential pressure and adjusts air exhaust according to filter saturation.
- **Key switch** for Hand « by-pass » / Off / Auto control.
- NEMA 12 control panel.

**INSTALLATION**

- Install the control panel outside the paint booth and at a distance of at least 5 feet (1.5M) from any opening.
- Install the DAPB (differential air pressure bloc) in line with the pneumatic line supplying the paint booth spray gun(s).
- Connect the pneumatic tubing to the control panel.
- Install the VOC detector at approximately 1 ft from the floor and away from the spraying area.
- Connect the VOC detector control cable to the control panel.
- Connect a control cable from the desired control signal output (0-5V,0-10V, 4-20mA) from the controller to the variable frequency drive (VFD) input.

**WARRANTY**

- 1 year limited warranty on parts.



MODEL	QUANTITY	COMMENTS	PROJECT:	Drawings for: <input type="checkbox"/> Information <input type="checkbox"/> Approval
			Location:	
			Architect:	
			Engineer:	
			Contractor:	
			Date:	