



United Air Specialists, Inc.

a CLARCOR company

Controls



Diagnostic Control System

DIFFERENTIAL PRESSURE CONTROL PANELS

Clean air. It's what we do.®

Controls

Simple solutions for pulsing and monitoring cartridge dust collectors.



MONITOR YOUR INVESTMENT

Now that you've chosen a cartridge dust collector to clean the air in your facility, make sure you have the right controls to keep your equipment working efficiently. Whether it's on-demand or continuous pulse cleaning you need, United Air Specialists (UAS) offers three different options—a standard Pulse Control Panel, a Digital Pressure and Pulse Control Panel and the advanced Diagnostic Control System.

PULSE CONTROL PANEL

Most UAS cartridge dust collectors come equipped with a Magnehelic® gage and standard Pulse Control Panel. The gage indicates the dust loading condition of the cartridge filters, while the circuit panel activates continuous pulse cleaning. Users can adjust a switch inside the Pulse Control Panel to activate a

downtime cleaning mode upon system shutdown, as well as program pulse cleaning sequences as required.

For those who prefer on-demand cleaning,

UAS also offers a Photohelic® gage option (above). In addition to continuous and downtime pulse cleaning, on-demand cleaning gives operators the flexibility to manually set the high and low points at which the unit

pulses. This prolongs filter life, maximizes the efficiency of the dust collector and saves money by conserving compressed air.



SELECTION GUIDE

Cleaning Mode	Control Panel
Continuous Pulse Cleaning —Pulses occur continuously at preprogrammed frequency intervals.	<ul style="list-style-type: none"> • Pulse Control Panel with Magnehelic®/Photohelic® options • Digital Pressure and Pulse Control Panel • Diagnostic Control System
Downtime Pulse Cleaning —Upon shutdown, unit goes into downtime cleaning mode with adjustable number of cycles.	<ul style="list-style-type: none"> • Pulse Control Panel with Photohelic® option • Digital Pressure and Pulse Control Panel • Diagnostic Control System
Set Point Cleaning —User sets high/low points at which unit should pulse. When high set point is exceeded, unit goes into pulse mode until low set point is achieved.	<ul style="list-style-type: none"> • Pulse Control Panel with Photohelic® option • Digital Pressure and Pulse Control Panel • Diagnostic Control System
Auto-Tune Cleaning —Replaces high/low Photohelic® set point technology with auto-adjusting pressure differential. Unit adjusts itself to know when to pulse.	<ul style="list-style-type: none"> • Diagnostic Control System

*Photohelic® and Magnehelic® are registered trademarks of Dwyer Instruments, Inc.



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DIGITAL PRESSURE AND PULSE CONTROL PANEL

The Digital Pressure and Pulse Control Panel offers the same functions as the Pulse Control Panel with the Photohelic® gage option. It is capable of initiating continuous, downtime and on-demand pulse cleaning. However, UAS' Pressure and Pulse Control Panel



contains more enhancements than the standard Pulse Control Panel.

Accurate and easy to read, the Digital Pressure and Pulse Control Panel features an LED pressure differential display that is adjustable to accommodate all lighting conditions for all applications. It also offers an adjustable high filter

differential pressure alarm dry contact that can be connected to a remote alarm/light to signal the need to change filters. And most important, upper, lower and alarm set points are located inside the panel enclosure so untrained personnel are unable to make improper adjustments.

UAS offers motor starters with fuse disconnect for all horsepower and voltages. For more information, contact UAS.

DIAGNOSTIC CONTROL SYSTEM

The ultimate UAS differential control panel is the Diagnostic Control System. This advanced system monitors temperature, blower amps and after-filter pressure drop. It also offers four cleaning modes for maximum filter life, the ability to troubleshoot potential problems before they affect performance and total system control.

In addition to the cleaning modes featured on other UAS control panels, the Diagnostic Control System features a convenient auto-tune cleaning option. This "smart" way of cleaning automatically adjusts differential pressure to minimize the number of pulses required, while eliminating the need for constant operator adjustment of the Photohelic® set point and pulse interval. Filter life is extended and compressed air is optimized to save on energy costs.

The Diagnostic Control System also shows a Maintenance Alert Display to flag areas that may need attention, as well as an Alarm View that offers preprogrammed troubleshooting solutions. This enables operators to



address problems before they pose a threat to the factory's clean air environment. By using an access code, users can change the system's programming at any time by following a series of prompts.

SPECIFICATIONS

Control Panel	Downtime Cleaning	Environment	NEMA Rating	Voltage	Power Requirement	Dimensions (inches)	Weight (lbs)
Pulse Control Timer	0-9 cycles	-40° to 130° F	NEMA 4	100-130 V 50/60 Hz	100VA	8 x 10 x 4	8.5
Digital Pressure and Pulse Control Timer	0-9 cycles	-40° to 130° F	NEMA 4	100-130 V 50/60 Hz	150VA	9.25 x 17.5 x 3.25	14
Diagnostic Control System	0-10 cycles	-40° to 130° F	NEMA 12 (NEMA 4 opt.)	100-260 V 50/60 Hz	150VA	14.5 x 16.5 x 6.5	27

WHY CHOOSE UNITED AIR SPECIALISTS?

A world-renowned reputation. For 40 years, we've been the industry leader in air quality technology — a proven track record that speaks for itself.

Commitment to quality products. Measuring our quality against documented expectations, we practice continuous improvement methods to anticipate challenges and implement successful solutions.

Unparalleled customer support. As a customer-driven solutions provider, we earn credibility and establish successful relationships by exceeding expectations for professional service and attitude.

Innovative technical leadership. Always, we keep technology at the forefront — ensuring continuous product advancements through ongoing investments in design and manufacturing.

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