Donaldson
Torit®

RUGGED PLEAT CONTROLLERS AND CONTROL PANELS

Donaldson Rugged Pleat Baghouse Controllers and Control Panels provide the system intelligence necessary to properly start, monitor and shut down the electrical motors used in conjunction with your Rugged Pleat Baghouse dust collector. Donaldson offers three different control options. All three come standard with an HMI touch screen that provides at-a-glance dust collection system monitoring and operation. The three control offerings are:

- RP Control Panel with VFD and Airflow Controller
- RP Control Panel with Soft Start Motors
- RP Controller with NO Motor Starters

RP CONTROL PANEL

The RP Control Panel comes standard with soft start motor starters for the fan, PD pump, cleaning arm and rotary airlock. It also provides the system logic to start and stop all motors in the proper sequence.

To improve system performance, the RP Control Panel can be upgraded to include a variable frequency drive for the fan motor. This upgrade includes an Airflow Controller which adjusts the fan motor speed to keep a constant airflow throughout the life of the filters. The Airflow Controller takes the place of a fan damper to provide automatic airflow control to reduce energy costs.

RP Control Panel

RP Controller

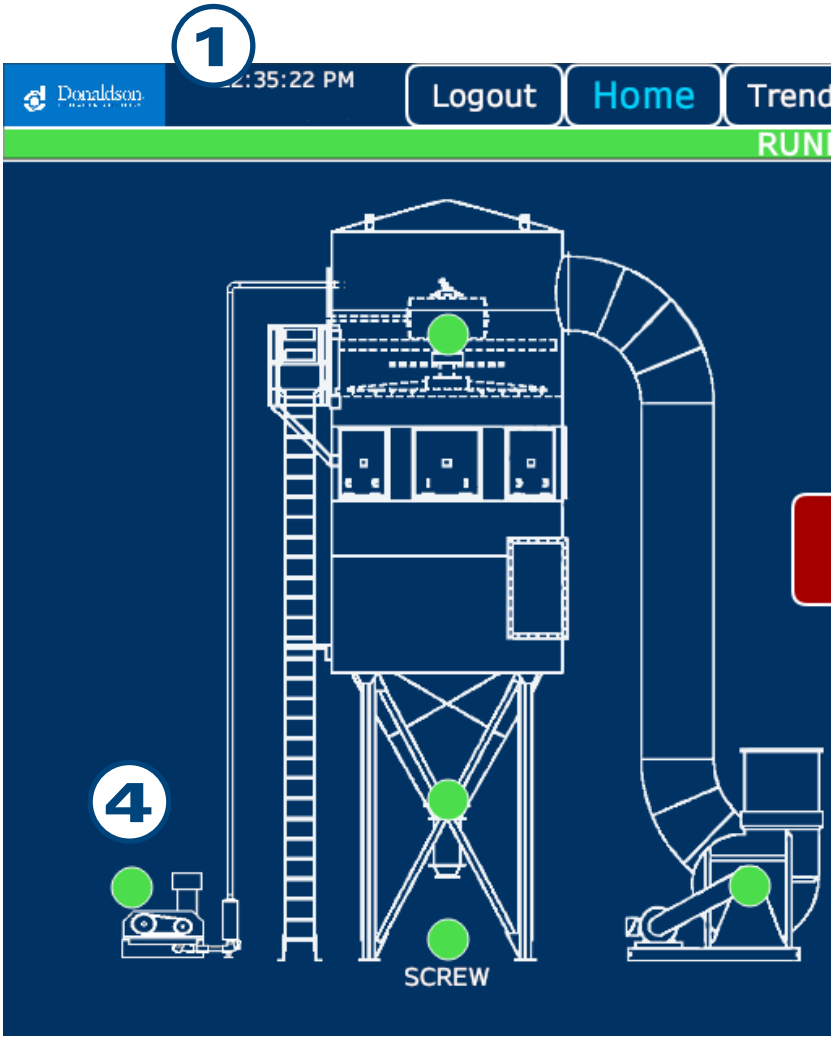
RP CONTROLLER

For customers that have a central control room and have their own motor starters, the RP Controller provides the system logic to send signals to motor starters for proper start-up and shutdown sequencing. It also includes the HMI touchscreen for easy operation and system monitoring.

The RP Controller comes with a 10" HMI touch screen, which provides easy operation and at-a-glance monitoring. Below is a diagram showing how the various screen features operate and what they monitor. The RP controller is available with a remote interface option accessible via mobile device. It also has an alarm screen which allows the user to understand what device is causing the alarm.

1 Screen Header is displayed on all screens to provide system status information and easy navigation.

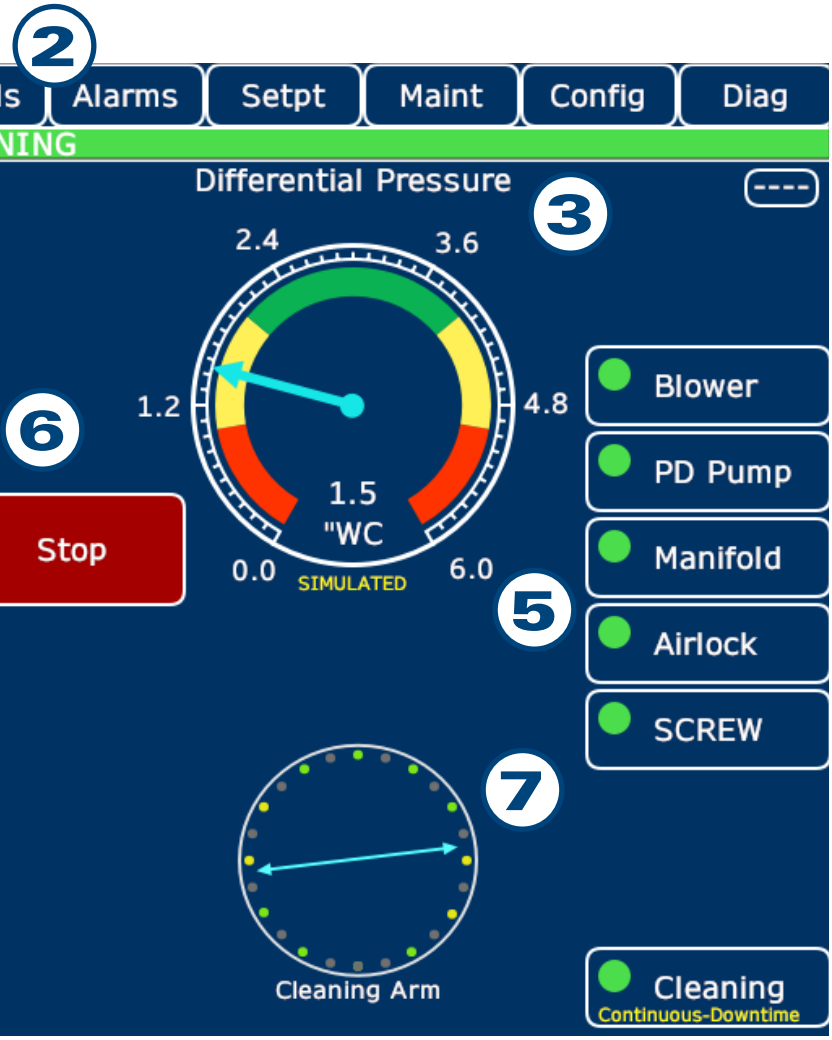
4 Motor Status Circles are located on screen to show approximate physical locations and status of motors.



HMI Touch Screen

Remote Interface

2 Navigation Tabs provide easy access to the home screen, differential and static pressure trends, alarms, and more.



3 Differential Pressure Monitor provides at-a-glance information on pressure level and filter life status.

6 Start/Stop Button initiates or shuts down the system in a sequenced order based on configured set points with one touch.

5 Configured Motors are displayed along the right side of the screen to provide maintenance personnel access to individual motor information and controls.

7 Cleaning Arm rotates during cleaning mode to provide at-a-glance confirmation of proper pulsing and cleaning arm rotation.

Alarm screen example

STANDARD FEATURES

Feature	RP Controller	RP Control Panel Soft Start	RP Control Panel Airflow Controller
10" HMI Touch Screen	X	X	X
Motor start-up and shut-down sequencing	X	X	X
120 VAC PLC outputs to motor starters	X	N/A	N/A
Soft Start Motor Starters	N/A	X	X
VFD/Airflow Controller for main blower	N/A	N/A	X
Remote interface via mobile device	X	X	X
120 VAC terminals to power iCue	X	X	X
Inputs for two basic alarms (dry contact)	X	X	X
Downtime cleaning	X	X	X
Trends screen	X	X	X
Alarm screen	X	X	X
Diagnostics screen	X	X	X

Significantly improve the performance of your collector with genuine Donaldson Torit replacement filters and part