



**MAXIMIZE PERFORMANCE**

**ACCU-DRAFT**

**STAND ALONE DRAFT CONTROL**

# Increase Boiler Efficiency

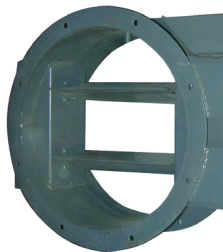
The Cleaver-Brooks Accu-Draft is a stand-alone stack draft control system designed to maintain stack draft on set point throughout the firing range of the boiler. This is achieved by modulating the draft damper in response to the deviation between the measured draft and an operator adjusted set point.

Accu-Draft Control improves flame stability by maintaining optimum furnace pressure as well as improving boiler efficiency by reducing heat loss after boiler shutdown by automatically closing the outlet damper. This control is ideal in systems where multiple boilers share a common stack and outlet ductwork, or in a single boiler application with high natural draft.

## Features

Live data trending
PLC based control
HMI touchscreen interface
Feedback and feedforward option
Adjustable set point and alarm limits
Auto and manual modes
Input and output monitoring
Access to gain and reset timing parameters
USB port for program loading
Password Security
Optional 7" color touchscreen


The draft damper assembly consists of the physical damper, connecting linkage, modulation motor, pressure transmitter and pressure switch.



The HMI provides the operator access to the control screen, alarm history screen, and monitor I/O screen. Secured screens are provided for loop tuning and for initial system setup.

Accu-Draft comes standard with 4" touchscreen. Optional 7" color touchscreen available.

## Menu Screen

		6/22/2021 8:34:57 AM User:	
<b>CB Accu-Draft</b>		HMI Program: 98500757-000 PLC Program: 00000000-000	
Tuning	FF Setup	Trend	Login
Setup	Alarm	I/O Status	Logout

Provides the user access to the stack draft control, system setup, Panelview Configuration and I/O Monitoring.

## Control Screen

INC SP	INC CV	PV: .00 Inches
DEC SP	DEC CV	SP: .00 Inches
MODE	Auto Mode	CV: 0 %
Login	Logout	FF: 0 %
User:		Alarm Ack
		Trend Main Menu

Displays the relationships between stack draft and set point, feedforward variable and damper. Also, controls set point adjustment, select auto or manual mode; and increase/ decrease the output to the outlet damper.

## I/O Monitor Screen

I/O	OFF	Blower Status
I/1	CLOSED	Main Fuel Valves
I/2	NORMAL	Stack Pressure
I/3	CLOSED	Limits
I/4	CLOSED	Damper OPEN Limit Switch
I/5	FALSE	Purge Input
O/O	OFF	Blower Start Permissive

Main Menu

Indicates status of all discrete I/O wired to the system for troubleshooting and commissioning support.

## Alarm History

Alarm Message	Ack Status	Alarm Time	Ack Time	Alarm Date	Ack Date	Alarm Ack
Alarm Message	Ack*	Occur*	Occur*	Ack Time	Ack Date	

Main Menu

Shows all acknowledged and unacknowledged alarms with time stamp. Alarms include High Stack Pressure and Stack Damper Not In Purge Position.

