

FRONT VIEW

MODEL SDS 1

GENERAL DESCRIPTION

The Industrial Combustion Sequence Draft System is specifically designed to interface with a fully modulating burner flame safeguard control system, regulating furnace draft pressure by safely positioning a stack damper based on a burner operating sequence.

The components are mounted and wired in a remote control cabinet as a totally integrated system facilitating a proper and less costly installation with particular concern for safe operation. A selector switch allows for automatic or open damper operation. In the automatic position, a full open damper must be proven before ignition. The damper position for ignition is adjustable. With the selector switch in the open damper position, the damper will drive to the full open position and will remain there until the automatic position is selected. The stack damper will drive to the full open position if a flame failure should occur.

Furnace draft is continuously monitored by a controller/pressure gauge, and an insufficient draft switch with a time delayed response. The stack damper is positioned by a damper motor and stack temperature is monitored with a digital indicator. Indicating lights for power on, call for heat, high stack temperature, and insufficient draft are mounted in the remote control panel.

Listed by Underwriters Laboratory.

ADVANTAGES

- Lower Total Fuel Costs
- Improved Combustion Efficiency
- Improved Pilot and Main Flame Ignition
- Improved Burner/Boiler Operation Monitoring

STANDARD EQUIPMENT

1. 20" x 16" x 8-5/8" control panel
2. Photohelic controller—compound range
-0.25" to +0.25" W.C. Other ranges
available. (120/1/60 control circuit)
3. Auto/open switch, signal lights
(power on, call for heat and insufficient
draft)
4. Insufficient draft switch

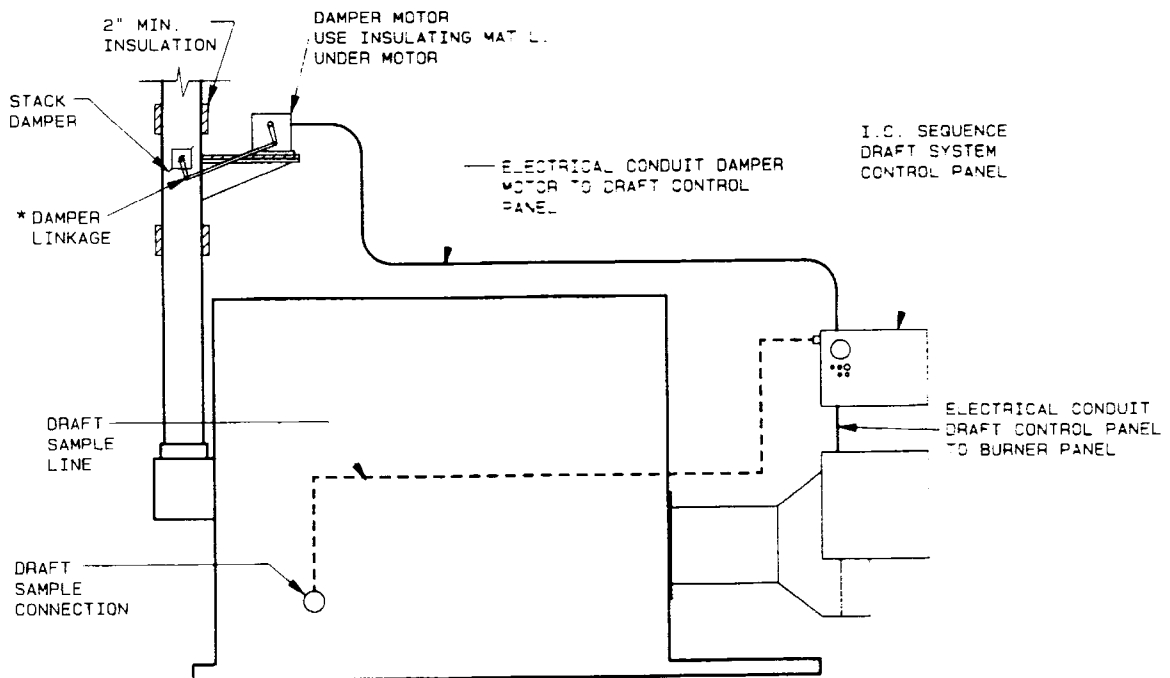
ORDERING INFORMATION

1. Desired draft or pressure operating range
(measure at furnace and breeching)
Standard Range -0.25" to +0.25"W.C.
Optional Ranges -0.50" to +0.50"W.C.
..... -1.00" to +1.00"W.C.
..... -2.00" to +2.00"W.C.
2. Damper shaft diameter
3. Burner model and S/N
4. Boiler stack diameter

OPTIONAL EQUIPMENT

1. Digital stack thermometer 0-1000°F
 - a. Thermocouple wire
 - b. Type J thermocouple assembly
 - c. High stack temp. light
2. Damper motor assembly
 - a. Mounting bracket
 - b. Damper bearings and brackets
 - c. Heavy duty linkage

NOTE: A COUNTER BALANCE WEIGHT SHALL BE RIGIDLY FASTENED TO THE DAMPER SHAFT, POSITIONED TO SWING THE DAMPER FULL OPEN IN THE EVENT OF A LINKAGE FAILURE.



TYPICAL ARRANGEMENT
SEQUENCING DRAFT CONTROL SYSTEM

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