

Constant Pressure Controller



Application

Mechanical draft systems serving gas fireplaces
Supply air systems for gas fireplaces

Function

Integrated with EC-Flow Technology™, the H100 controller is designed to rapidly respond to pressure changes in flue or supply systems

Construction

The NEMA1 housing constructed of polycarbonate plastic to prevent corrosion

Warranty

Two year mechanical warranty

Description

The H100 is a constant pressure controller used for flue and/or supply air systems for gas fireplaces

For flues/chimneys, the H100 maintains a constant pressure for increased efficiency and proper operation.

For supply or make-up air applications, the H100 maintains pressure to insure safe appliance operation throughout operation cycle.

The H100 includes an integrated safety function to verify the system is operating within specifications.

Standard Features & Equipment

Updated EC-Flow Technology™

Adjustable system parameters

High and Low Pressure Alarms

Status relay outputs

Mechanical limit input

RTC with battery backup

Accessories

LP4 - Bi-directional pressure transducer

VP - 316L SS vent probe

SLT - 5' high temperature silicone tubing

ZPS - Outdoor static pressure sensor

GFS - Differential pressure switch

CS75 - Current sensing relay

TT - Tubing Tee

DP - Duct Probe

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KW USA

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Configuration	
Control System	Accessories
H100-F	LP4, SLT, VP
H100-S	LP4, SLT, DP, ZPS, CS75
H100-FS	LP4, GFS, SLT, VP, TT

Dimensional Information	
Power Supply	24V AC/DC, Class 2
Power Consumption	100 mA max @ 12VDC
Relay Output Rating	2A @ 24V AC/DC individual (4A combined)
Operating Temp	-22 - 158°F (-30 - 70°C)
Enclosure	3.2"W x 4.4"H x 1.2"D (81 x 112 x 30.7 mm)

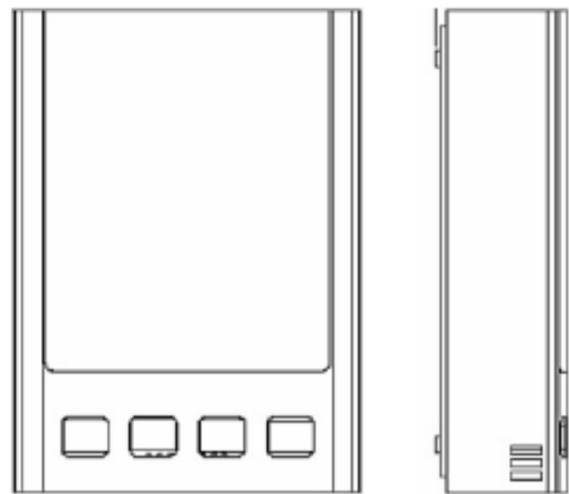
System Descriptions

Flue Control System (FCS)

The Flue Exhaust System (FCS) maintains a constant negative pressure in the fireplace chimney/vent. Designed with EC-Flow Technology™, the FCS takes advantage of US Draft Co. bi-directional pressure transducer and proprietary PID technology to rapidly respond to varying pressures on gas fireplace systems. Utilizing a termination draft inducer, an H100 control and pressure transducer, the system interlocks with the fireplace to maintain the required outlet pressure of the manufacturer. The VCS meets all requirements for the National & International Fuel Gas Codes and the Uniform & International Mechanical Codes.

Supply Air System (SAS)

The Supply Air System (SAS) maintains a constant pressure in the fireplace supply air duct. Designed with EC-Flow Technology™ the SAS takes advantage of US Draft Co. proprietary bi-directional pressure transducer and PID technology to rapidly respond to varying outdoor pressures to maintain a neutral pressure in the fireplace duct when compared to atmosphere. Utilizing an inline or wall mounted supply fan, an H100 controller, pressure transducer and outdoor sensor, the system maintains the required combustion air of the equipment manufacturer. The SAS meets all requirements for the National & International Fuel Gas Codes and the Uniform & International Mechanical Codes.



Flue Exhaust & Supply Air System (FSS)

The Flue Exhaust & Supply Air System (FSS) combines the Flue Exhaust System (FCS) & Supply Air System (SAS) into a single control package to maintain both a constant pressure in the flue exhaust as well as a neutral pressure in the combustion air duct when compared to atmosphere.

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H100

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H100 Rev 0919