

Puff Switch Guide

Puff Switch (Mounted to front of yellow jacket)

Puff Switches are wired with **normally closed** contacts in series with the cad cell on oil burners and with the gas valves on gas burners. Contacts open when draft is insufficient (i.e. positive over fire).

- **All Boilers (Except EK-3 and Riello)** **02-0305B / ANA-125-194**
- **EK-3 (All EK-3's, gas and oil)** **02-0305D / ANA-125-307**
- **Riello (And older EZ gas burners with 120v gas valve)** **02-0305C / ANA-125-195**

Blocked Air Inlet (Mounted inside air box)

Blocked Air Inlet Switches are wired with **normally closed** contacts and are wired in series with the Puff Switches. These switches are mounted to the front jacket and inside the air box. They have two ports, the "low" or front port references the inside of the air box, the "high" or rear port references the room via a copper tube that extends down through a grommet in the air frame. Contacts open when inlet air is restricted (i.e. blocked air inlet piping).

- **Frontier (power vented gas only)** **02-0305E / ANA-125-322**
- **Resolute (All 90+ Resolute, gas and oil)** **02-0305F / ANA-125-445**

Fan Prover (Mounted on back of junction box)

A Fan Prover is only used on 90+ Resolute boilers and is wired in series through **normally open** contacts with the burner motor. This is a two port switch where the "low" or front port references the inlet to the inducer and the "high" or rear port references the discharge of the inducer. There must be vent pipe connected to the boiler and the inducer must be running in order to close the contacts and supply power to the burner motor.

- **90+ Resolute (All, gas and oil)** **02-0305E / ANA-125-322**

Energy Kinetics has five different Puff Switches

10 Number

EK Part Number

Vendor Part Number

10-0680

02-0305B

ANA-125-194

Set at +0.10"wc +/-0.02", Single port, Screw terminals exposed, used on low voltage applications only.

10-0681

02-0305C

ANA-125-195

Set at +0.10"wc +/-0.02", Single port, Has a junction box that covers screw terminals, used on line voltage applications (Riello and older EZ-Gas burners).

10-0683

02-0305D

ANA-125-307

Set at +0.25"wc +/-0.02", Single port, Has a junction box and is used for EK3's only, both gas and oil.

10-0682

02-0305E

ANA-125-322

Set at -0.55"wc +/-0.02", Dual port, Has a junction box and is used for blocked air inlet on power vented Frontier gas boilers and for the fan prover on all 90+ Resolute boilers.

10-0684

02-0305F

ANA-125-445

Set at -1.0"wc +/-0.02", Dual port, Has a junction box and is only used for blocked air inlet on all 90+ Resolute boilers.