

Hearth Appliances

Designs, Differences & Dilemmas





EDUCATION FOUNDATION



**NATIONAL
FIREPLACE
INSTITUTE®**
A CERTIFICATION AGENCY



Hearth, Patio & Barbecue Association



- HPBA & Affiliates
 - Monitors state laws & regulations
 - Assists in responding to opportunities
 - **Advocates the adoption of NFI by state or local jurisdictions**



- NFI
 - Certifies fundamental level of knowledge
- HPBEF
 - Maintains, operates, & promotes NFI
 - Provides relevant industry knowledge
 - Facilitates continuing education (CEU's)
 - Supports Government Affairs activities



Hearth, Patio & Barbecue

Expo®







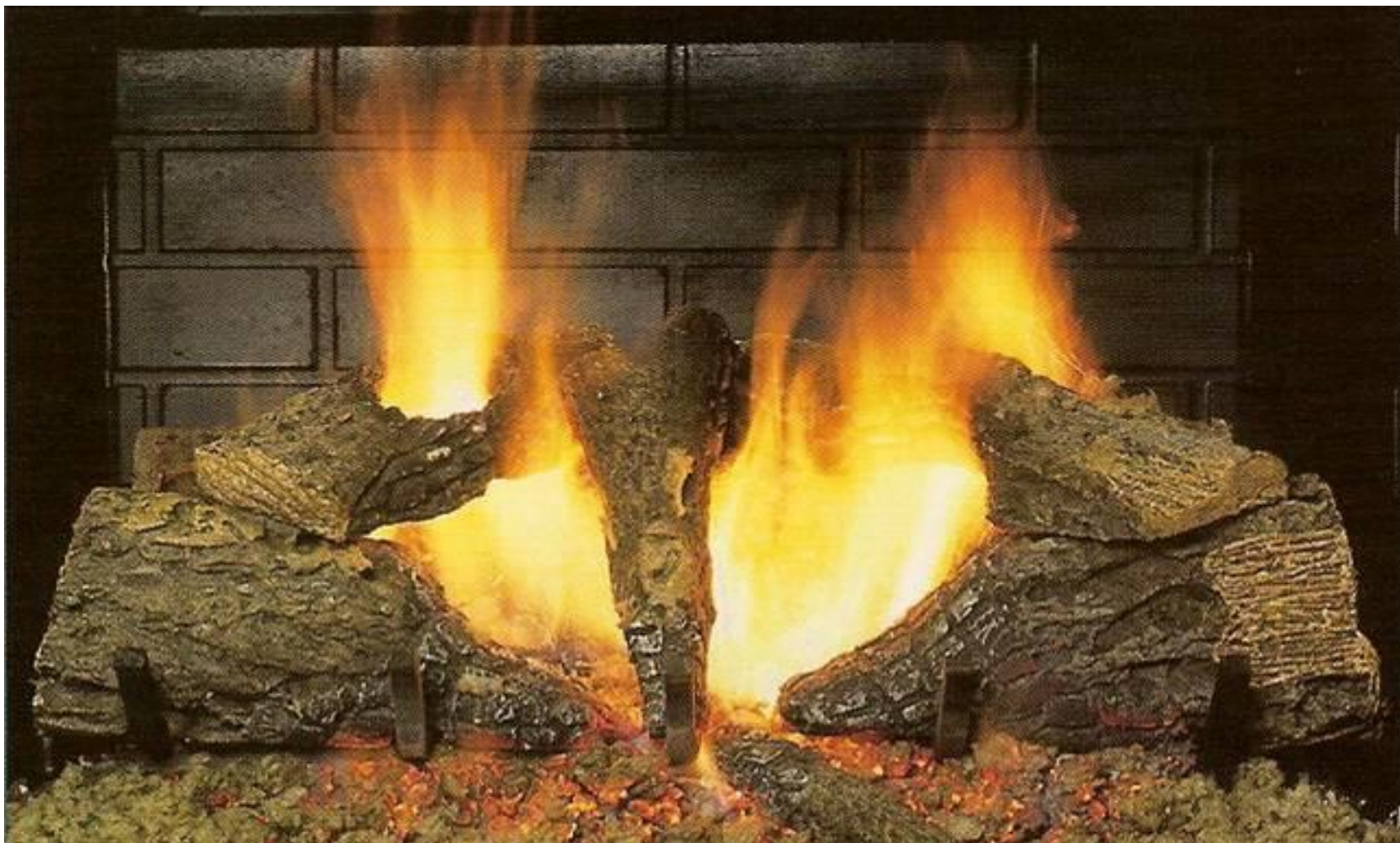
Designs



Factory Built Fireplaces



Gas Logs



Fireplace Inserts



Freestanding Stoves



Outdoor Appliances



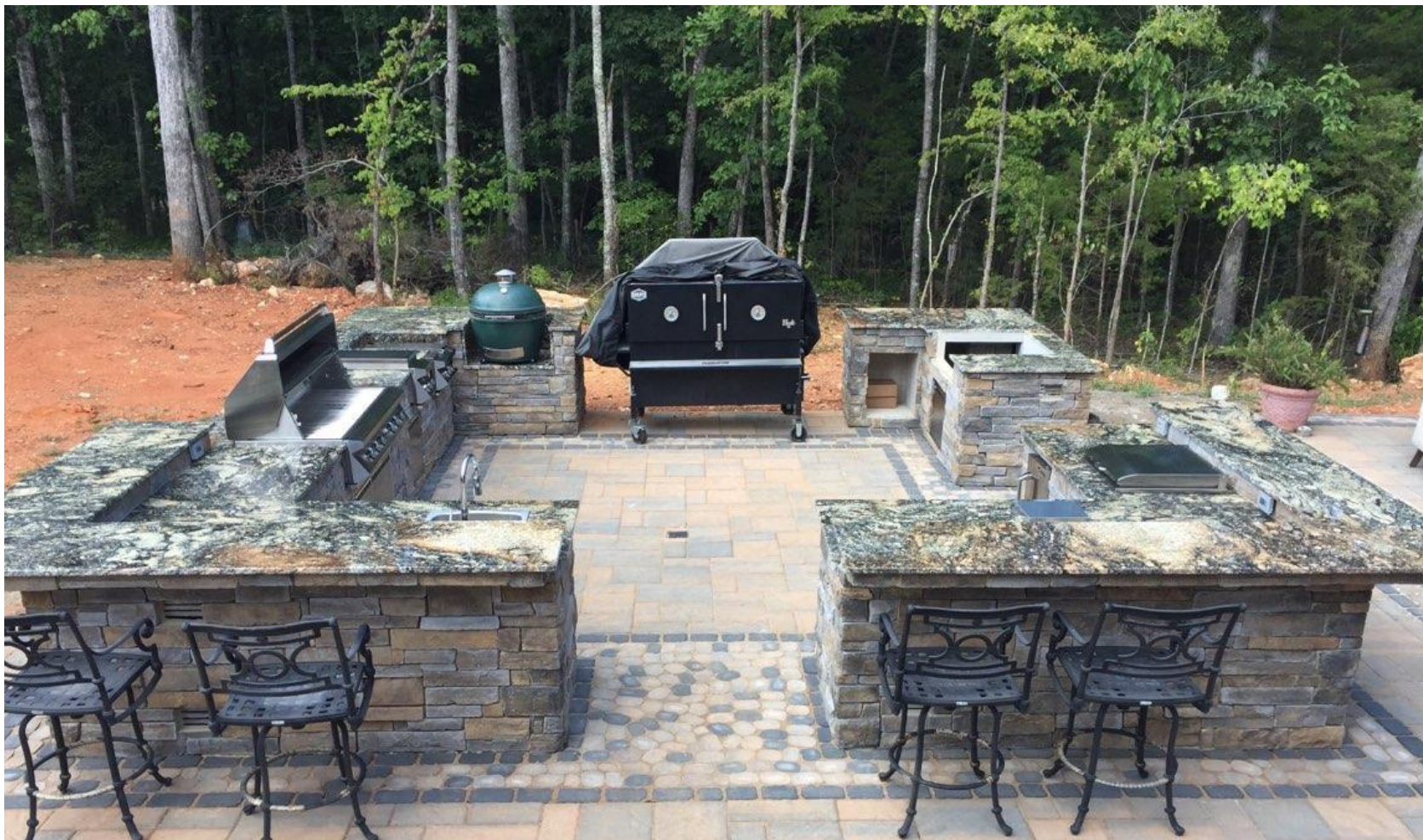
Outdoor Appliances



Outdoor Appliances



Outdoor Appliances



Outdoor Appliances



Outdoor Appliance

ANSI Z21.97

Appliances:

- Fireplaces
- Fire Pits
- Fire Tables

Requirements

- Minimum construction, performance, testing

Restrictions

- Outdoor Use only

Options

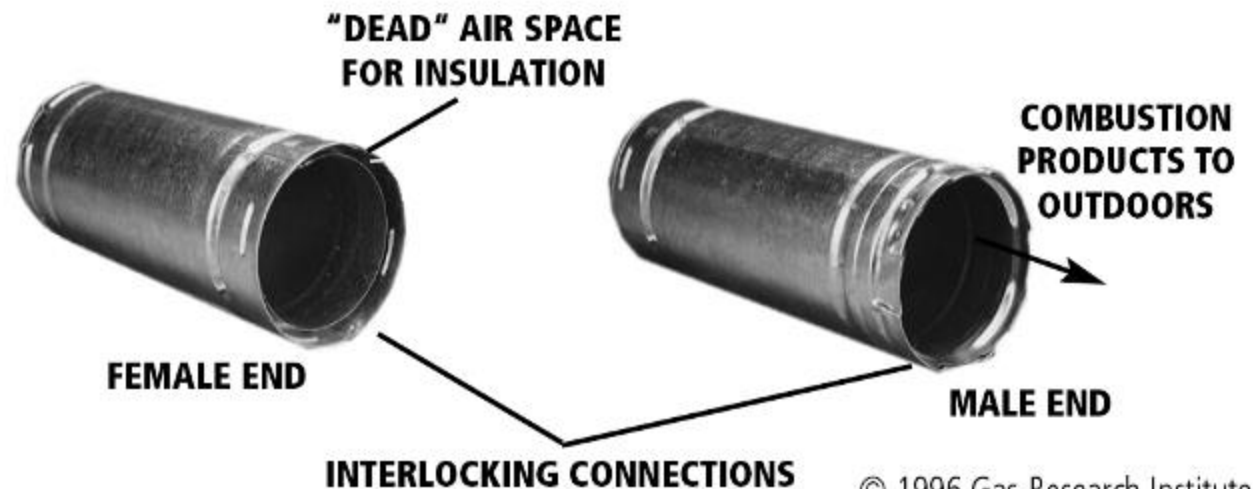
- Propane cylinder enclosures

Outdoor Appliances

- IFGC 2012: Permanently fixed-in-place outdoor decorative appliances be tested to ANSI Z21.97 *Outdoor Decorative Appliances* and installed to manufacturer's instructions

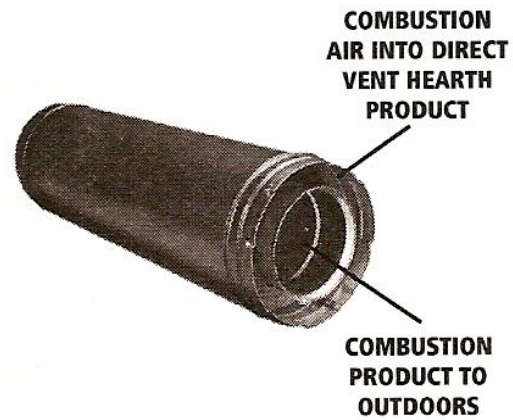
Conventional Type B Vent

- Factory-made, double wall metal pipe
- Air space between walls
 - Close clearance
 - Help maintain draft and reduce condensation



© 1996 Gas Research Institute

Direct Vent



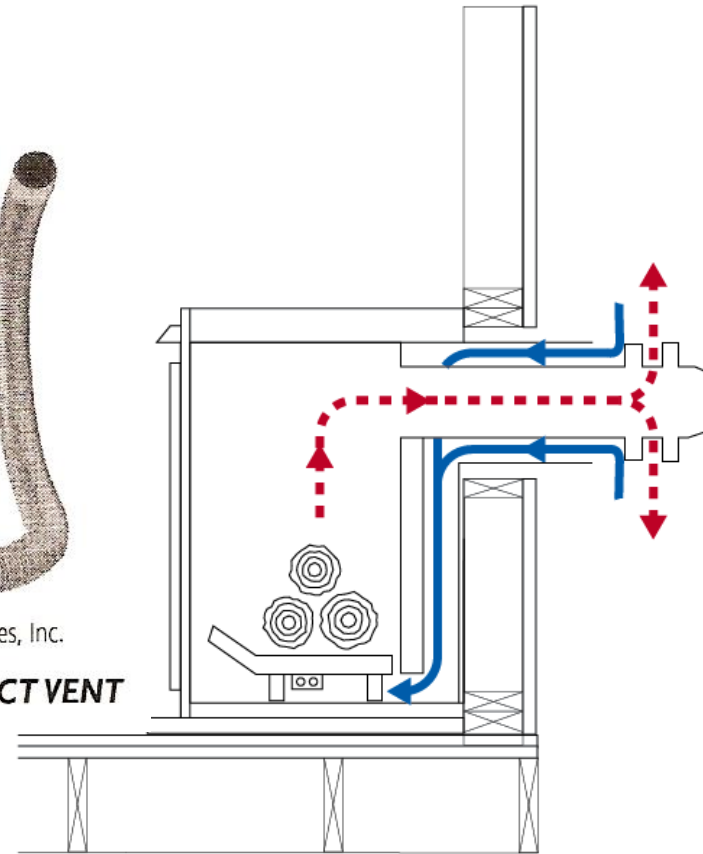
© 1996 Gas Research Institute

RIGID COAXIAL DIRECT VENT

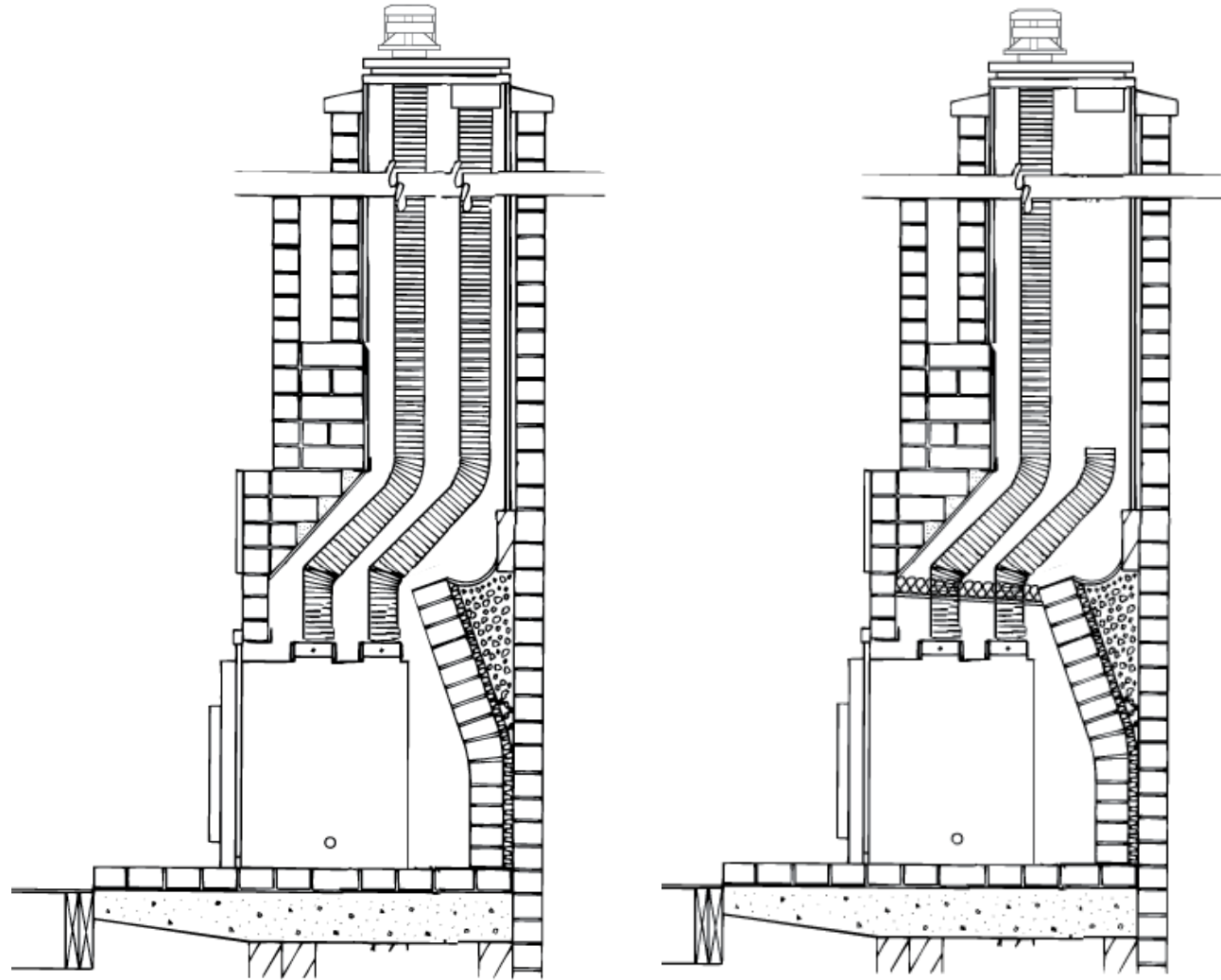


© Travis Industries, Inc.

COLINEAR DIRECT VENT



Direct Vent Fireplace Inserts



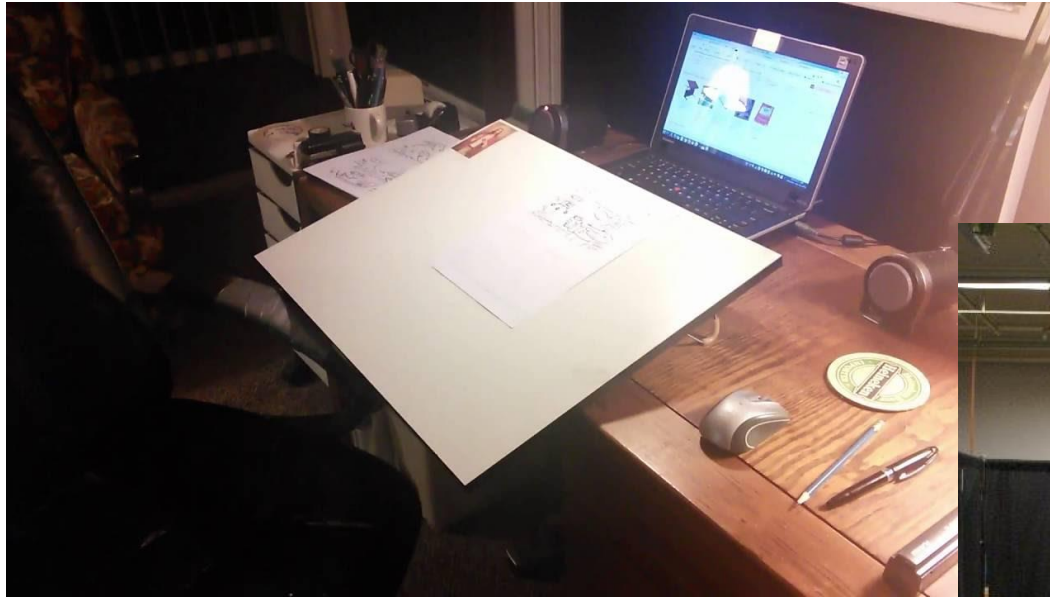
Unvented Appliances



Differences



Where designers work



Where HVAC technicians work



Where hearth technicians work



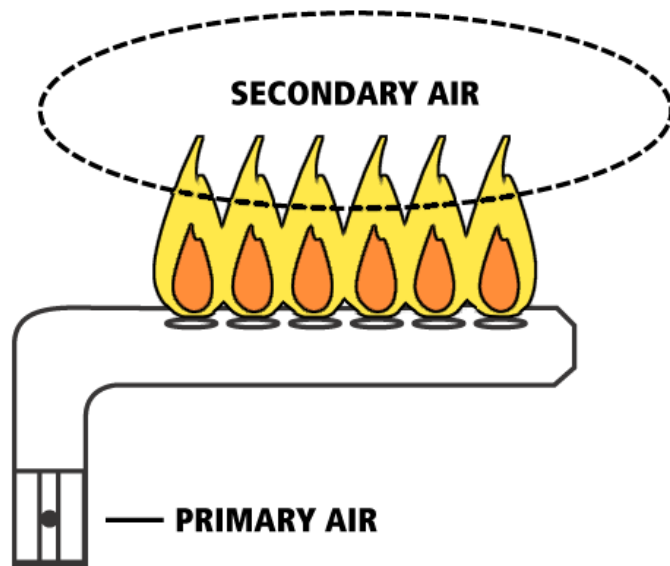
What HVAC appliances look like



What hearth appliances look like



Yellow Flame Combustion



Primary & Secondary Air

- HVAC industry
 - Yellow flame = inefficiency
- Hearth industry
 - Reduce primary air intake
 - Use secondary air to achieve:
 - Combustion efficiency
 - Flame aesthetics

Dilemmas



Access to Components



Access to Components




Access to Components



Access to Components



Access to Components

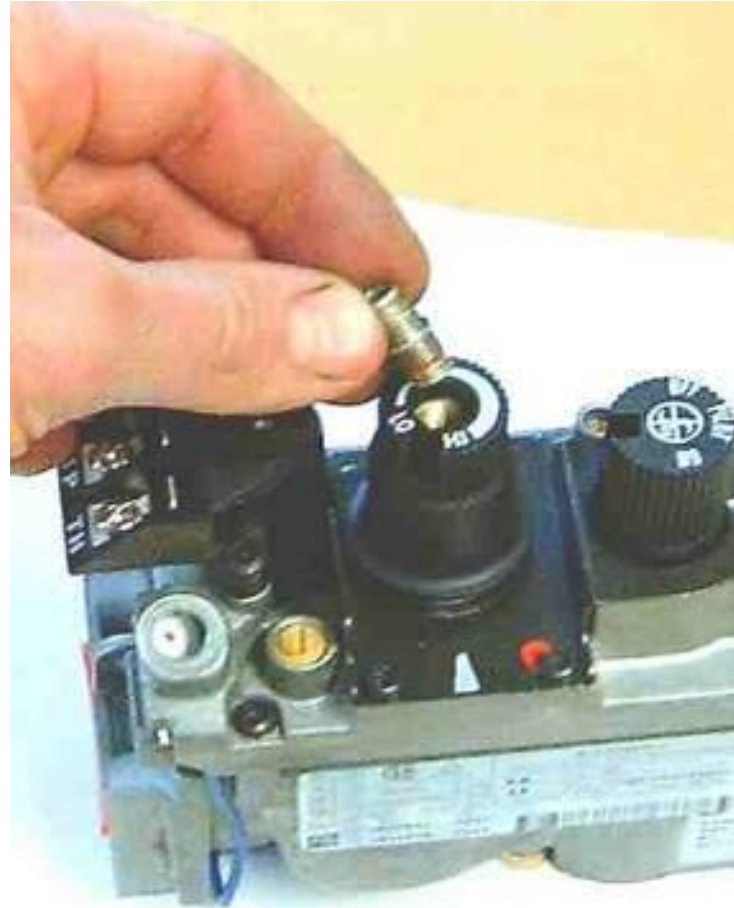
Thermocouple change out, clean up and tune. Had to make it a quick one, could've spent hours with this one.  valve gives you about 1/4" of access to install the Tc. Grr. 🔥



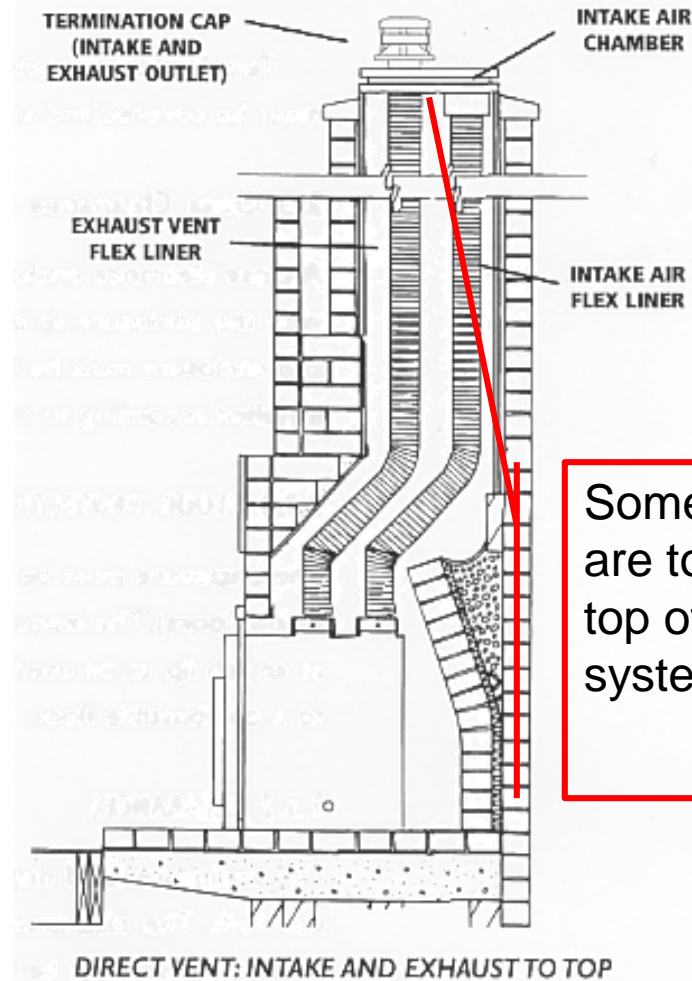
Access to Components



Access to Components

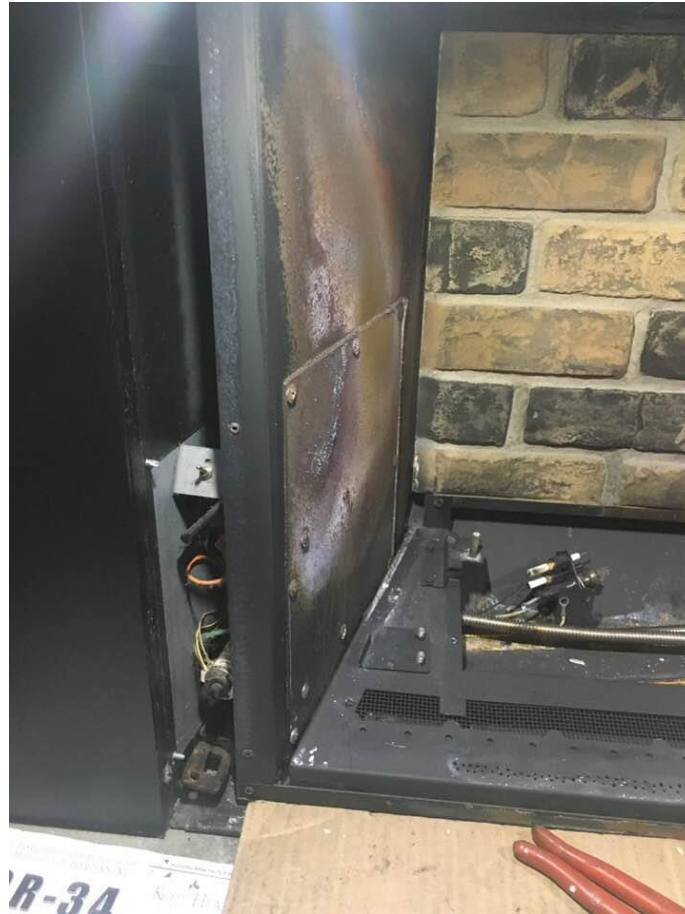


Access to Components



Some restrictor plates are to be installed at the top of the venting system.

Condition of Components



Condition of Components



Comments from the Field

- The controls and connections on many new linear fireplaces are buried beneath the finished wall.
- Putting completely different numbers on the rating plates than what is in manual.

Comments from the Field

- Manufacturers that bury the gas valves so the pressure test ports are completely inaccessible, while training us to *always* record supply and manifold pressure readings when commissioning new appliances.

Comments from the Field

- Stop running the flexible appliance connector through the insert body instead of putting the connection ON the body. Changing the appliance connector lengths requires removing the whole gas valve! I've also had inspectors fail the flex pass-through and make me use hard pipe to outside the body.

Comments from the Field

- Inaccessible valves
- Valves oriented so access is difficult
- Valves mounted so that we can't read the valve labels
- Access to blowers without disassembling the whole firebox or gas supply
- Air adjustment components accessible while the fireplace is going

NFI Advocates

**NATIONAL
FIREPLACE
INSTITUTE®**



CERTIFIED

www.nficertified.org

We recommend that our gas hearth products be installed and serviced by professionals who are certified in the U.S. by the National Fireplace Institute® (NFI) as NFI Gas Specialists.

You never know what you'll find!





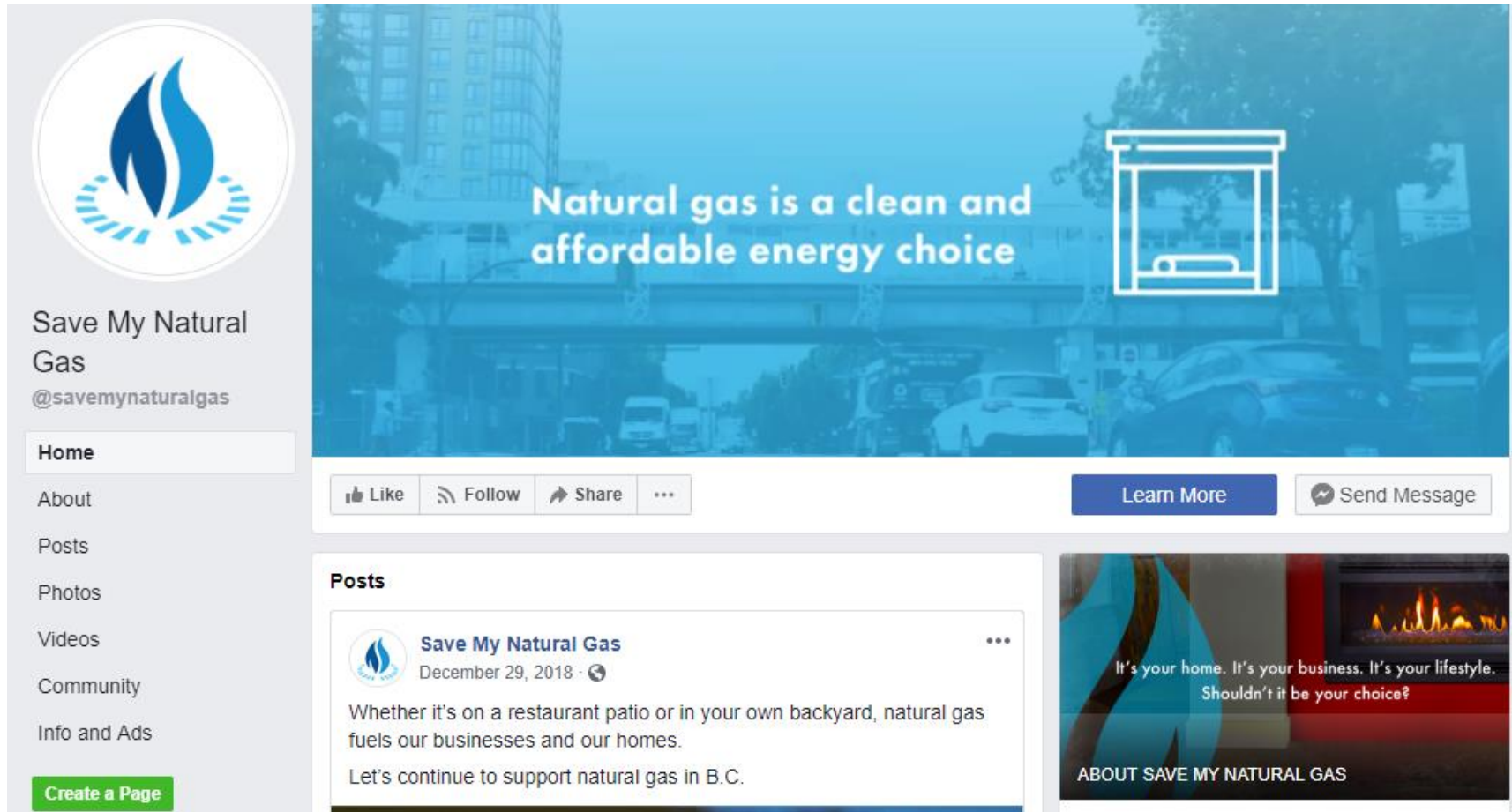
PUSHBACK TO AN ALL-ELECTRIC FUTURE
The Heath BBQ/Industry &
savemynaturalgas.com

APGA –Policy and Technology Conference

January 2019

John Crouch, HPBA

Save My Natural Gas Facebook



The image shows a screenshot of the Facebook page for 'Save My Natural Gas'. The page features a blue header with a white flame logo and the text 'Natural gas is a clean and affordable energy choice'. Below the header, there are navigation links for Home, About, Posts, Photos, Videos, Community, and Info and Ads. A green button labeled 'Create a Page' is visible at the bottom left. The main content area displays a post from December 29, 2018, with the text: 'Whether it's on a restaurant patio or in your own backyard, natural gas fuels our businesses and our homes. Let's continue to support natural gas in B.C.' To the right of the post, there is a video thumbnail with the text: 'It's your home. It's your business. It's your lifestyle. Shouldn't it be your choice? ABOUT SAVE MY NATURAL GAS'.

Save My Natural Gas
@savemynaturalgas

Home

About
Posts
Photos
Videos
Community
Info and Ads

Create a Page

Natural gas is a clean and affordable energy choice

Like Follow Share ...

Learn More Send Message

Posts

Save My Natural Gas
December 29, 2018 · 🌐

Whether it's on a restaurant patio or in your own backyard, natural gas fuels our businesses and our homes.
Let's continue to support natural gas in B.C.

It's your home. It's your business. It's your lifestyle.
Shouldn't it be your choice?
ABOUT SAVE MY NATURAL GAS

Save My Natural Gas

Savemynaturalgas.com

SIGN UP TO LEARN WHAT YOU CAN DO TO #SAVEMYNATURALGAS

#SaveMyNaturalGas



[what's at stake](#) [timeline](#)

**It's your home. It's your
business. It's your lifestyle.
Shouldn't it be your
choice?**

- Messaging specific to the benefits of natural gas and increased energy options:



natural gas.

good for our communities.

good for BC.



Natural gas is a **clean and affordable** energy choice.

More **energy choices** means more affordable housing options.

It's your home. It's your business. It's your lifestyle.

Shouldn't it be your choice?

- The campaign has achieved substantial growth and impact since the start of the campaign:



Facebook Ads
Reach



Facebook Ads
Impressions



Video Views



Video Minutes
Watched

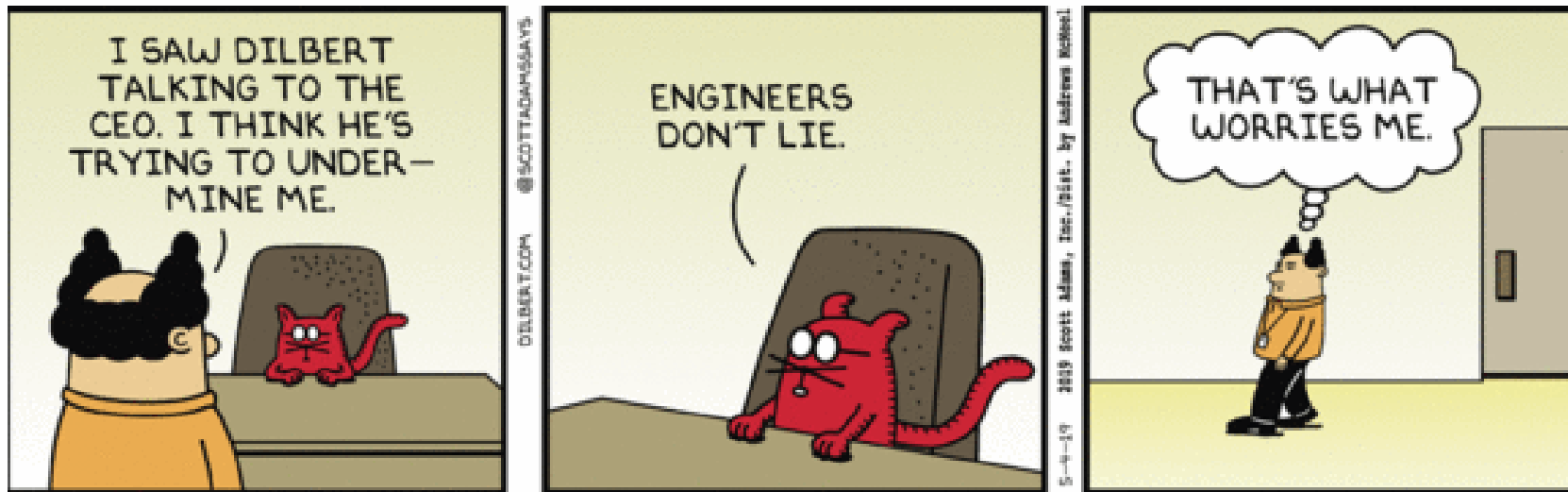


Website Visitors



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Thank You!



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