

**New Product
Configurations!**

A Breath of Fresh Air for Oil and Gas Appliances

CAS Combustion
Air Systems



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**The
Field Controls
Company**

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Relief At Last!

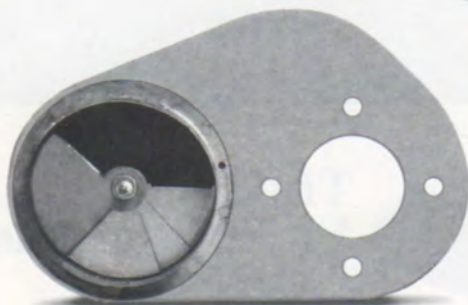


- Provides consistent air flow for optimal combustion efficiency.
- Reduces potential "CO" formation in gas systems.
- Reduces potential for sooting in oil systems.

The New Combustion Air Systems (CAS) are a breath of fresh air for oil and gas appliances that are starved for air due to "too tight" home construction or poor location. The CAS provides controlled amounts of outside air for proper combustion of oil or gas heating appliances.

The Vacuum Relief Valve (VRV) provides safety in case of blockage and tempers the incoming air with inside air.

There are four models designed to work with a variety of gas or oil appliances. Use the descriptions at right to select the model best suited for your needs.



Field AirBoot™



Intake Air Hood

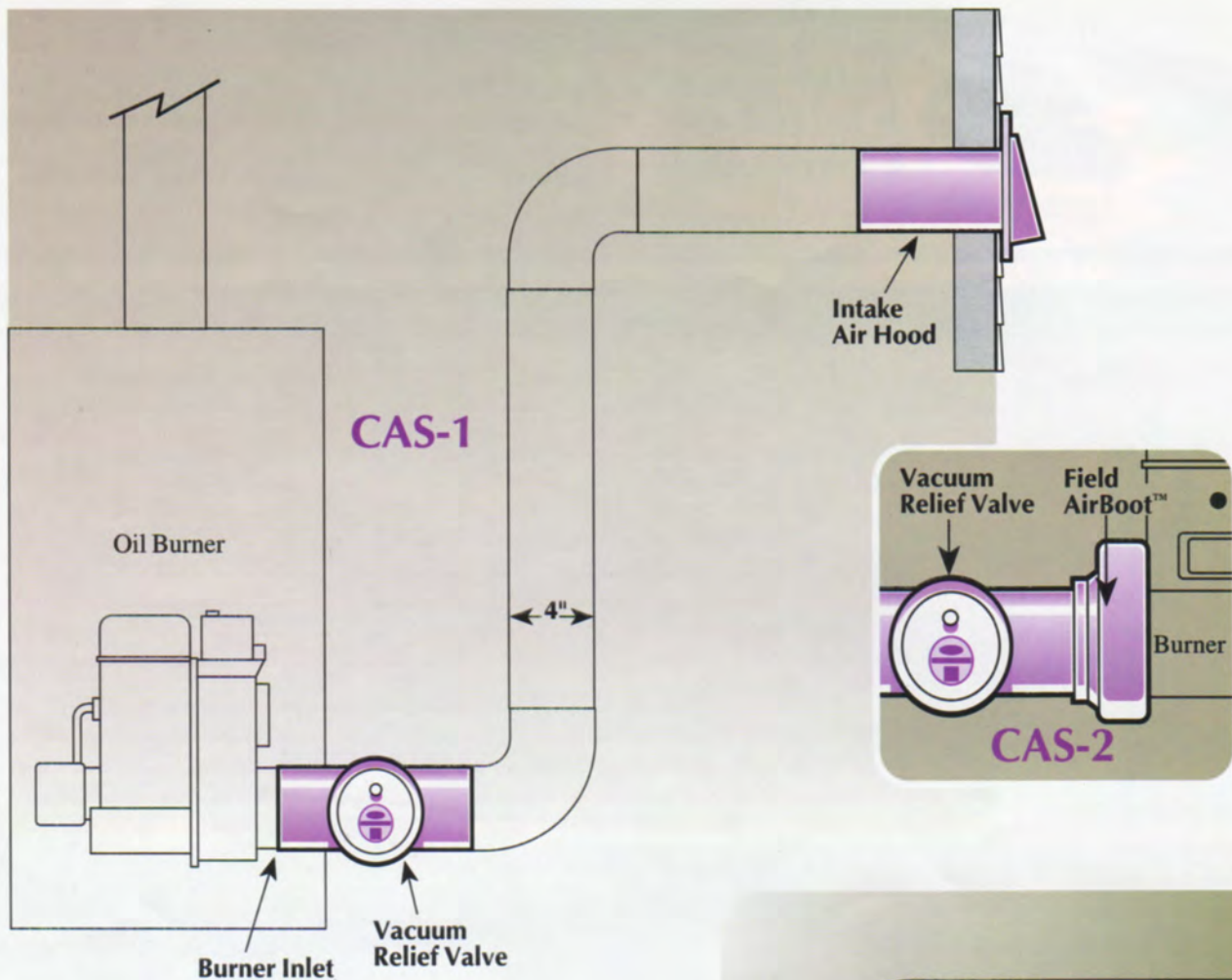


Vacuum Relief Valve (VRV)

(Optional)



Fan-in-a-Can™ Assembly



CAS-1 and CAS-2

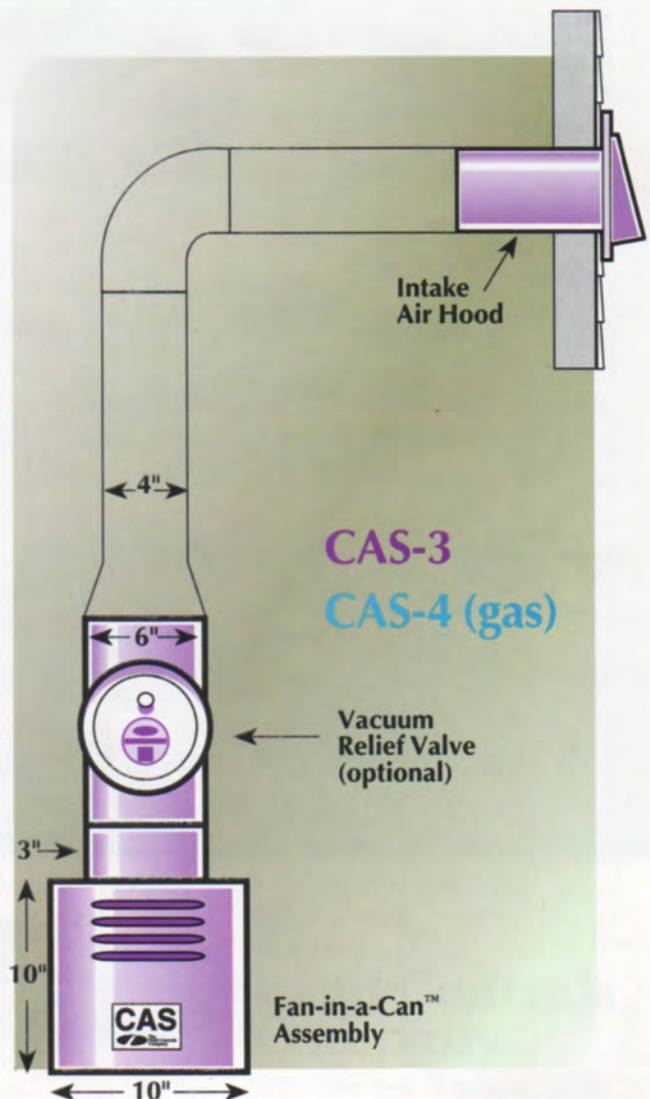
These models connect directly to oil burners. The CAS-1 is designed for use with Beckett AFII burners with input up to 2 gph. The CAS-2 connects via the Field AirBoot™ to Beckett AFG and AF burners or Carlin EZ-1 burners or Wayne MSR burners. The unique shutter air intake control on the Field AirBoot™ provides for calibrated air flow control for optimum efficiency. The AirBoot™ is designed to be mounted in either of two positions so it can be adapted to furnaces as well as boilers.

The Vacuum Relief Valve (VRV) provides additional safety to the CAS-1 & 2. Should the air intake become fully or partially blocked, the VRV will open to provide adequate air for the burner. The VRV also “tempers” the incoming air with warm inside air for optimal efficiency.

CAS-3 and CAS-4

These models are designed for use with systems where direct connection is not possible. The CAS-3 is designed for use with oil appliances up to 2 gph. The CAS-4 is for use with gas appliances with 24 VAC gas valve controls, up to 280,000 btu. Each is designed for optimum safety and includes a proving device that won't allow the burner to engage without incoming air flow.

When the thermostat calls for heat, the Fan-in-a-Can™ engages and begins drawing outside air into the structure. When air flow is established, the CAS allows the burner to activate. The VRV tempers the outside air as it passes through the system, and the Fan-in-a-Can™ diffuses the air into the room near the burner.





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Model	Fuel	Application	Appliance Input	Components
CAS-1	Oil	Appliances with Beckett AF II Burners	Up to 2 gph	4" intake air hood 4" Vacuum Relief Valve
CAS-2 (B,C,W)	Oil	Appliances with Beckett AFG or AF Burners, Carlin EZ-1 and Wayne MSR Burners	Up to 2 gph	4" intake air hood 4" Vacuum Relief Valve Field AirBoot™
CAS-3	Oil	Any oil heating appliance	See chart below	4" intake air hood 6" Vacuum Relief Valve (optional) Fan-in-a-Can™ Assembly 6" to 4" Reducer Restrictor Plate
CAS-4	Gas	Any gas heating appliance with 24 VAC gas valve controls	See chart below	4" intake air hood 6" Vacuum Relief Valve (optional) Fan-in-a-Can™ Assembly 6" to 4" Reducer Restrictor Plate

Total Input of Appliance(s)		Max. Equivalent Feet Of Installation		
CAS-4 GAS (BTU/hr)	CAS-3 OIL (gph)	4" duct & hood w/ restrictor	4" duct & 4" intake air hood	6" duct & *6" intake air hood
50,000		282	273	293
75,000	0.50	233	248	278
100,000	0.75	180	222	262
125,000	0.90	124	194	247
150,000	1.00	67	165	232
175,000	1.25		136	217
200,000	1.35		106	202
225,000	1.55		75	186
250,000	1.75		43	171
300,000	2.00			141
350,000	2.50			110
400,000	2.75			80
450,000	3.25			49

**6" intake air hood is optional.*

The Field Controls Company...Your Number One Draft Choice
Draft Controls ● Draft Inducers ● Power Venters ● Air Boosters

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