

IGNITION

Three ignition arrangements are available:
(For oven applications consult NFPA 86.)

4630-P: for direct spark ignition with provision for flame detector,

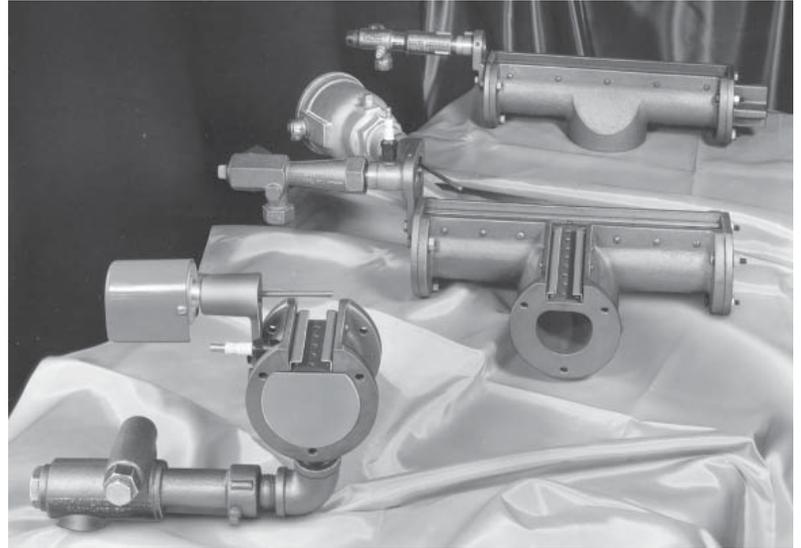
4-2408-3 Pilot and Flame rod Bracket: for
4021-15 or 4021-16 Pilot Tip plus flame rod,

4-0680-1 or 4-0680-2 Pilot Bracket: Pilot tip only (when
remote flame detector is used).

FEATURES

If blower supplies sufficient air through burners for complete combustion, reGen® Burners operate dependably in an inert atmosphere. Burners have machined ends, permitting assembly of various configurations without gaskets.

Stainless steel flame retention strips, which give the burner its stability in high velocity air streams, are fastened so they prevent combustion between the strip and casting, resulting in lower strip and casting temperatures to prolong burner life.



Pictured from front to rear are a 4630-P Pilot Section, 4630-T Tee with 3" bottom inlet, and 4630-B 12" straight with 3" bottom inlet, all displaying various types of ignition and flame detection.

INSTALLATION

reGen Burner assemblies can be used with inspirators, but aspirator mixers are preferred for good turndown and air/fuel ratio control.

Burners can be operated at mixture pressures from 0.35 to 12" w.c., giving 6:1 turndown.

4630 Burner sections are shipped unassembled. No gaskets are used. Be sure to order all appropriate accessories, including flanges, endplates, separator plates, and hardware kits.

When they get hot, line burner assemblies expand unevenly and tend to bow in the center. Short assemblies can be bolted down securely, and flanges will take up the expansion.

For longer lengths with no bottom feed connections (or one bottom feed only at the center), support assembly rigidly at its center, leaving ends free to bow away. When two or more bottom feed connections are used in an assembly, install 4-3159-1 Expansion Ignition Couplings between the bottom inlets.

To order specify: 4630-(appropriate letter)-(capacity rating‡) section description, and 4630HK hardware kits to connect sections.

‡ From Table I at 4" w.c. mixture pressure (eliminate "000").

Example: 4630-T-119 Tee

Burner section designation	quantity	replacement retention strips (with screws)		
		flame retention strips part no.	description	strip mounting screws quantity/section part no.
4630-B, -E, -H	2	4-3086-1		10 R777-0250-SX
4630-L	{ 1 1	4-3137-1 4-3137-2	inside angle outside angle	8 R777-0250-SX
4630-N	2	4-3128-1		8 R777-0250-SX
4630-P	{ 1 1	4-3161-1 4-3139-1	on spark plug side opposite spark plug	4 R777-0250-SX
4630-S Ign. Cplg.	2	4-3139-1		4 R777-0250-SX
	2	4-3139-1		4 R777-0250-SX
4630-T	{ 1 2	4-3086-1 4-3114-1	straight angle	17 R777-0250-SX
	4	4-3114-1		24 R777-0250-SX

WARNING: Situations dangerous to personnel and property may exist with the operation and maintenance of any combustion equipment. The presence of fuels, oxidants, hot and cold combustion products, hot surfaces, electrical power in control and ignition circuits, etc., are inherent with any combustion application. Components in combustion systems may exceed 160°F (71°C) surface temperatures and present hot surface contact hazard. Fives North American Combustion, Inc. suggests the use of combustion systems that are in compliance with all Safety Codes, Standards, Regulations and Directives; and care in operation.



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