

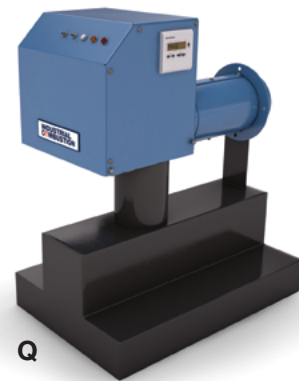
**INDUSTRIAL  
COMBUSTION**



XL



SBR-5



Q

# BURNER SOLUTIONS

## Burner Applications Guide



# Burner and Control Upgrades Are Easier Than Ever.





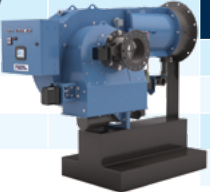

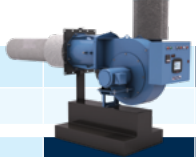


Designed for maximum efficiency and low emissions, Industrial Combustion offers the right burner solution for nearly any boiler room application. With our extensive engineering expertise and vast aftermarket support network, we can help determine which burner is right for you.

## The right burner for virtually any application.


Industrial Combustion engineering team can design a turnkey solution for any boiler and any application. Contact a Industrial Combustion authorized representative to help determine beneficial upgrades to your system.

### Evaluate your burner and controls for an upgrade if:

- Your burner or boiler controls are more than 10 years old
  - Burner controls are not fully integrated with boiler loads
  - You must reduce emissions while maintaining efficiency
- Existing burners are cycling on/off frequently
  - Alternate fuels could provide energy savings and/or reduced emissions

		Boiler Horsepower																	
Fuel Type	NG combustion NOx level	10BHP	20BHP	30BHP	50BHP	60BHP	80BHP	90BHP	100BHP	150BHP	200BHP	250BHP	400BHP	600BHP	800BHP	1000BHP	1200BHP	1500BHP	2200BHP
XL-Series																			
Gas	Uncontrolled															XLG-420	XLG-504	XLG-630	XLG-924
Gas	<30 ppm w/FGR															LNXLG-420	LNXLG-504	LNXLG-630	LNXLG-924
Gas	<9 ppm w/FGR															NTXLG-420	NTXLG-504	NTXLG-630	NTXLG-924
Dual Fuel	Uncontrolled															XLLG-420	XLLG-504	XLLG-630	XLLG-924
Dual Fuel	<30 ppm w/FGR															LNXLG-420	LNXLG-504	LNXLG-630	LNXLG-924
Dual Fuel	<9 ppm w/FGR															NTXLG-420	NTXLG-504	NTXLG-630	NTXLG-924
S1-Series																			
#6 oil	Uncontrolled															S1E-420	S1E-504	S1E-630	
Gas/#6 dual	Uncontrolled															S1EG-420	S1EG-504	S1EG-630	
SBR-30 Series																			
Gas	<30 ppm												SBR30G-168	SBR30G-252	SBR30G-336	SBR30G-420	SBR30G-504		
Dual Fuel	<30 ppm												SBR30LG-168	SBR30LG-252	SBR30LG-336	SBR30LG-420	SBR30LG-504		
SBR-5 Series																			
Gas	<5 ppm w/FGR																		
Dual Fuel	<5 ppm w/FGR											SBR5G-105	SBR5G-168	SBR5G-252	SBR5G-336	SBR5G-420			
												SBR5LG-105	SBR5LG-168	SBR5LG-252	SBR5LG-336	SBR5LG-420			
E-Series																			
Gas	Uncontrolled																		
Gas	<30 ppm w/FGR																		
Dual Fuel	Uncontrolled																		
Dual Fuel	<30 ppm w/FGR												EG-168	EG-252	EG-336	EG-420			
													LNEG-168	LNEG-252	LNEG-336	LNEG-420			
													ELG-168	ELG-252	ELG-336	ELG-420			
													LNELG-168	LNELG-252	LNELG-336	LNELG-420			
D-Series																			
Gas	Uncontrolled																		
Gas	<30 ppm w/FGR																		
Gas	<9 ppm w/FGR																		
Dual Fuel	Uncontrolled																		
Dual Fuel	<30 ppm w/FGR																		
Dual Fuel	<9 ppm w/FGR																		
MTH-Series																			
Gas	<9 ppm					MTH-25	MTH-34	—	MTH-42	MTH-63	MTH-84	MTH-105	MTH-168	MTH-252	MTH-336				
V-Series																			
Gas	Uncontrolled					VG-21	VG-25	VG-34	—	VG-42	VG-63	VG-84	VG-105	VG-168					
Gas	<30 ppm w/FGR					LVNG-21	LVNG-25	LVNG-34	—	LVNG-42	LVNG-63	LVNG-84	LVNG-105	—					
Dual Fuel	Uncontrolled					VLG-21	VLG-25	VLG-34	—	VLG-42	VLG-63	VLG-84	VLG-105	VLG-168					
Dual Fuel	<30 ppm w/FGR					LVNLG-21	LVNLG-25	LVNLG-34	—	LVNLG-42	LVNLG-63	LVNLG-84	LVNLG-105	—					
Q-Series																			
Gas	Uncontrolled		Q6-055	Q6-075	Q6-100	Q8-175	Q8-250	Q8-340	Q8-380										
Gas	<20 ppm		—	—	—	LNQ8-175	LNQ8-210	—	—										

Can be used with a hydrogen blend up to a maximum of 20% H<sub>2</sub>. Wobbe index to be within 10% of NG. Supply pressure and gas valve sizing to be selected accordingly. For more information on hydrogen combustion please connect with Industrial Combustion or your local representative.



HYDROGEN BLEND READY

# Advanced Controls Make the Difference.

Industrial Combustion burners can truly reach their full potential when paired with an appropriate, integrated burner management system. Only through proper controls can the burner constantly fire at peak performance. There are numerous options from several manufacturers that can add significant fuel savings and increased efficiency.

- Parallel Positioning
- Controlling Lead/Lag
- Variable-Speed Drive
- Adjusting Oxygen Trim



**Touchscreen Controls**

Industrial Combustion's advanced burner control systems include a complete burner cabinet featuring feedwater pump controls, water level controls, and a single-point power supply.

Request a Control Systems Comparison from your local representative.

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351 21st Street, Monroe, WI 53566 USA  
608.325.3141 • [info@ind-comb.com](mailto:info@ind-comb.com)  
[ind-comb.com](http://ind-comb.com)

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