

PREFERRED COMET

COMPACT COMBUSTION FOR LESS



(203) 743-6741



www.preferred-mfg.com

PREFERRED
UTILITIES MFG CORPORATION 

FUEL AVAILABILITY GAS-FIRED

COST SAVINGS

COMET BURNERS ARE ECONOMICAL AND AVAILABLE WITH SHORT LEAD TIMES.

BURNER CONTROLS CHOICES

AVAILABLE WITH BASIC PARALLEL POSITIONING CONTROLS, PREFERRED FLEXFIT, OR PREFERRED BURNERMATE UNIVERSAL CONTROLS

ONE PART OF COMBUSTION JOY

THE COMET BURNER CAN BE SUPPLIED AS JUST PART OF A COMPLETE COMBUSTION SYSTEM THAT CAN INCLUDE DRAFT CONTROL, FEEDWATER CONTROL, MULTIPLE BOILER LEAD/LAG CONTROL, OR PLANT MASTER CONTROL.

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1. FUEL

PCG: Natural Gas
PCL: LPG

2. BURNER HP RATING

050: 50hp
100: 100hp
150: 150hp
200: 200hp
250: 250hp
300: 300hp

3. CONTROL SYSTEM

-F: Flexfit-85
-B: BMU
-S: LMV-3

4. UV SCANNER OPTION:

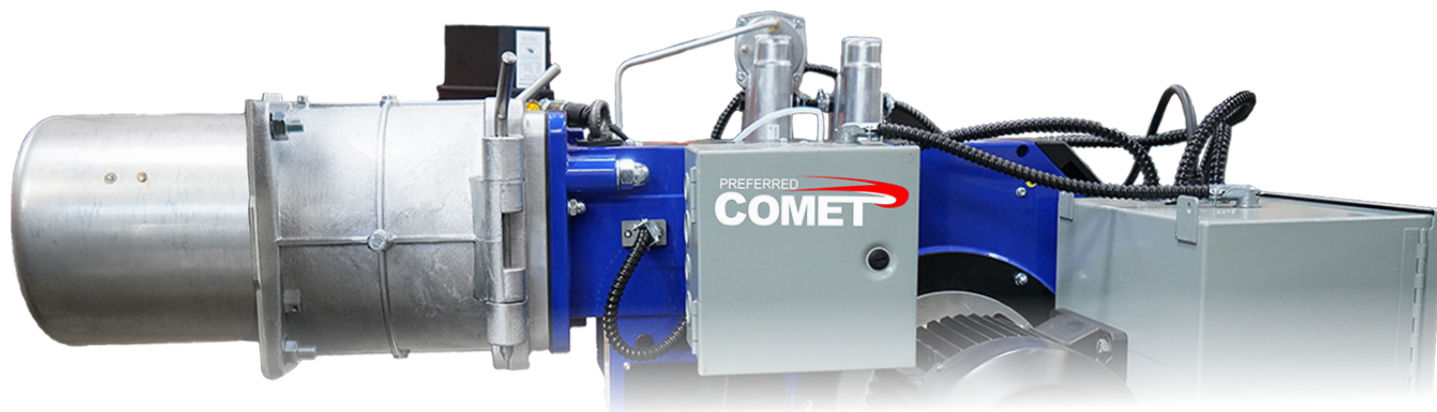
-UV Scanner
Blank: Standard Flame Rod



All Comet options are UL 295 and CSA CGA3.4 listed for natural gas and LPG

Model	Boiler HP	Heat Input MBH	FD Fan Motor HP @3550 RPM kW	Electric Supply V	FD Motor Max current FLA	Natural Gas input SCFH	Piping Train Size NPT	Min Gas Supply Pressure IWC	Max Gas Supply Pressure IWC	Burner Gas dP at rated Firing rate IWC
PCG-050	50	2,300	3/4 (0.6)	120/208 /1-Ph	8.6 / 4.8	2,270	1.5	11.5	190.0	9.0
PCG-100	100	4,600	4 (3)	230/460-208 /3-Ph	10.6 / 5.3	4,540	1.5	18.0	190.0	11.0
PCG-150	150	6,900	5.5 (4)	230/460-208 /3-Ph	14.8 / 7.4	6,811	2.0	23.0	190.0	13.0
PCG-200	200	9,600	7.5 (5.5)	230/460-208 /3-Ph	20.4 / 10.2	9,476	2.0	41.0	190.0	22.0
PCG-250	250	10,300	10 (7.5)	230/460-208 /3-Ph	23.8 / 11.9	10,167	2.0	45.0	190.0	24.0
PCG-300	300	12,700	12.5 (9.2)	230/460-208 /3-Ph	29/14.5	11,451	2.0	69.0	190.0	28.0

Control panel electric supply is 120Vac single-phase and 10A minimum supply current for all combustion controllers. Heat input is based on Natural Gas fire. For LPG and other fuels, please consult factory.



THE PREFERRED COMET COMBUSTION SYSTEM INCLUDES A CAST ALUMINUM WINDBOX AND FAN HOUSING, FULLY ASSEMBLED FUEL TRAINS, AND THREE CHOICES FOR FLAME SAFEGUARD/COMBUSTION CONTROL.

APPLICATIONS

SIZING

2.3 mmBtu/hr to 12.6 mmBtu/hr Heat Input (50-300 BHP)

FUELS

Natural gas
LPG

EMISSIONS¹

Natural gas: 60 ppmc NO_x
0 ppmc CO

TURNDOWN

8:1

BOILER APPLICATIONS

Single burner firetube, firebox (cast iron sectional), or fired heaters.

BURNER OPTIONS

	FLEXFIT	BMU	LMV-3
10" OIT		✓	
O2 Trim	✓	✓	
Draft Controller	✓	✓	
FW		✓	
VSD	✓	✓	✓
RS485 Modbus	✓	✓	✓
Modbus TCP/IP		✓	
Bacnet IP		✓	

AVAILABLE CONTROLS

PREFERRED FLEXFIT

Provides flame safeguard control and parallel positioning plus FD fan VFD control, oxygen trim control, and draft control.

PREFERRED BURNERMATE UNIVERSAL

Provides flame safeguard with first out annunciation, parallel positioning with oxygen trim, FD fan VFD control, draft control, feedwater control, and 10" color touchscreen with Modbus, Ethernet, and BacNet IP communications.

SIEMENS LMV3

Basic controller provides flame safeguard and parallel positioning control of gas, air damper, and other servos.

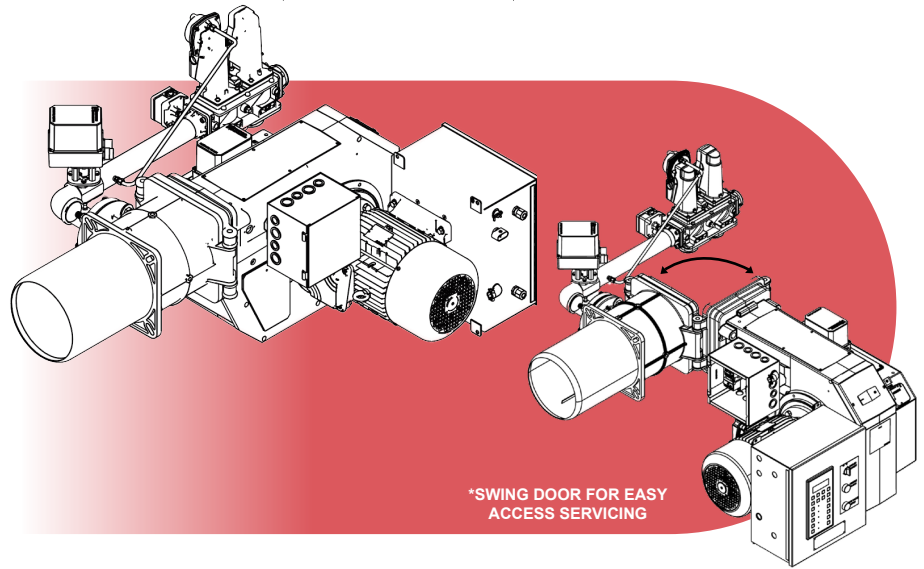
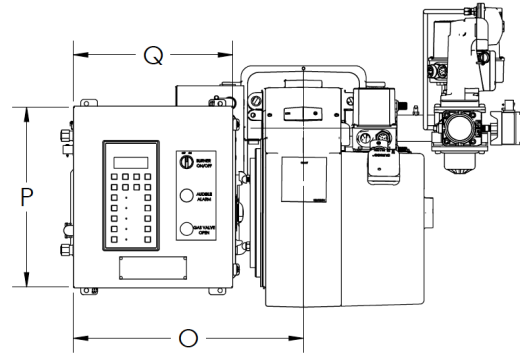
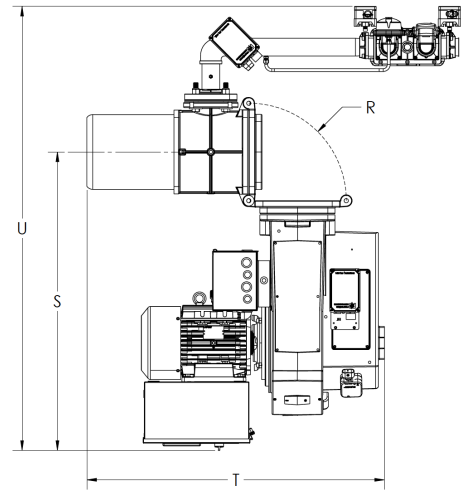
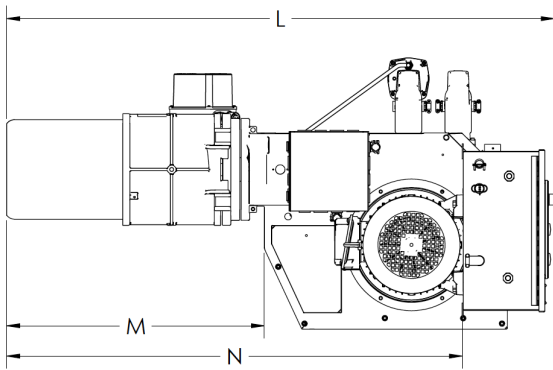
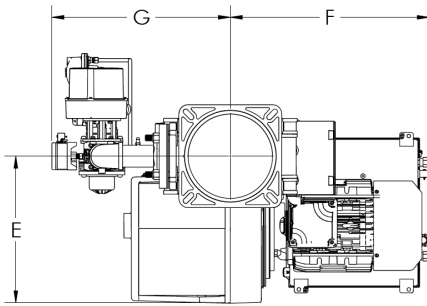
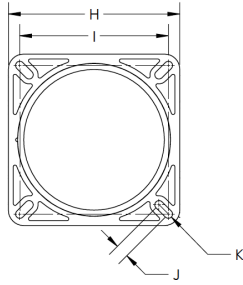
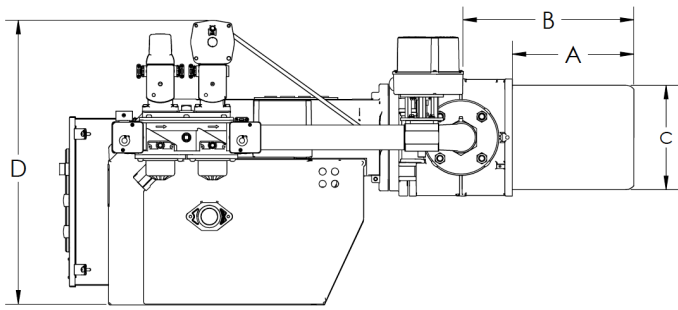
PREFERRED CLOUD REMOTE MONITORING

Remote monitoring via secure cellular network and Amazon Cloud Service.

PREFERRED CATALOG

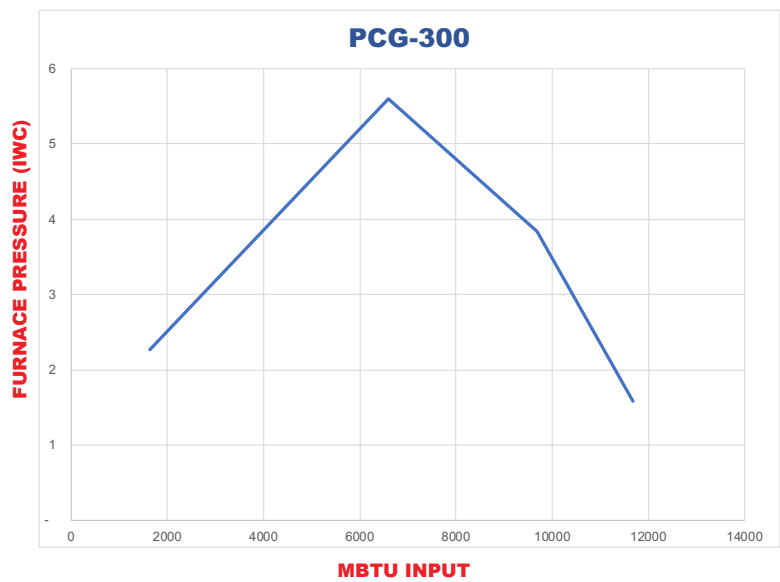
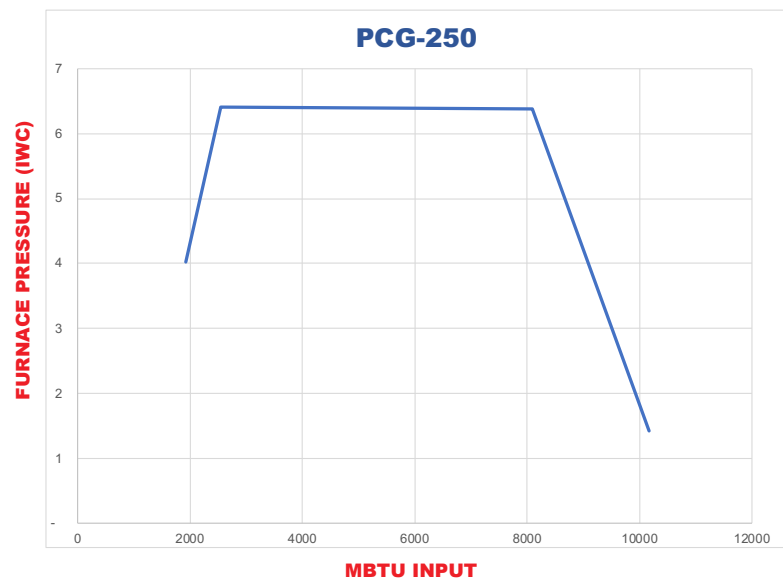
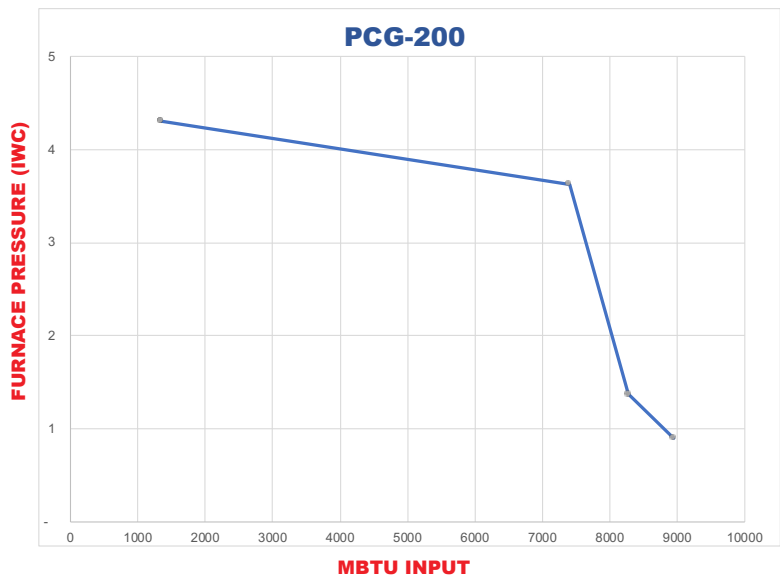
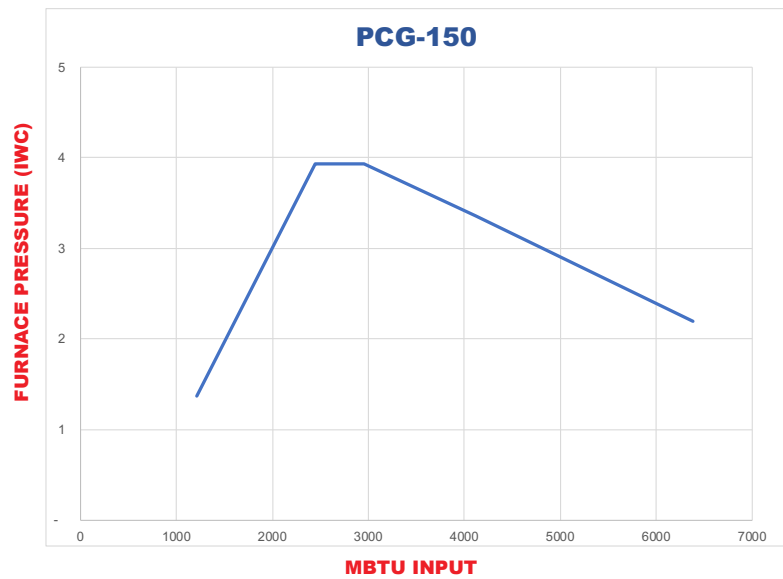
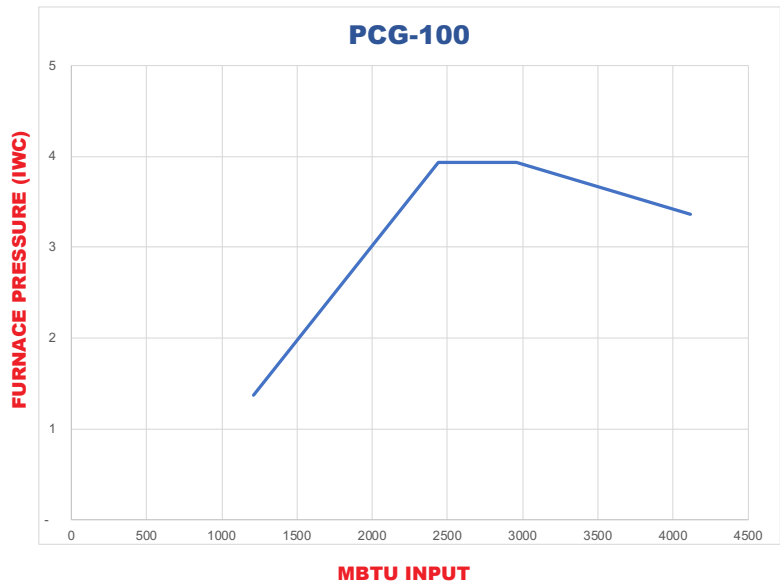
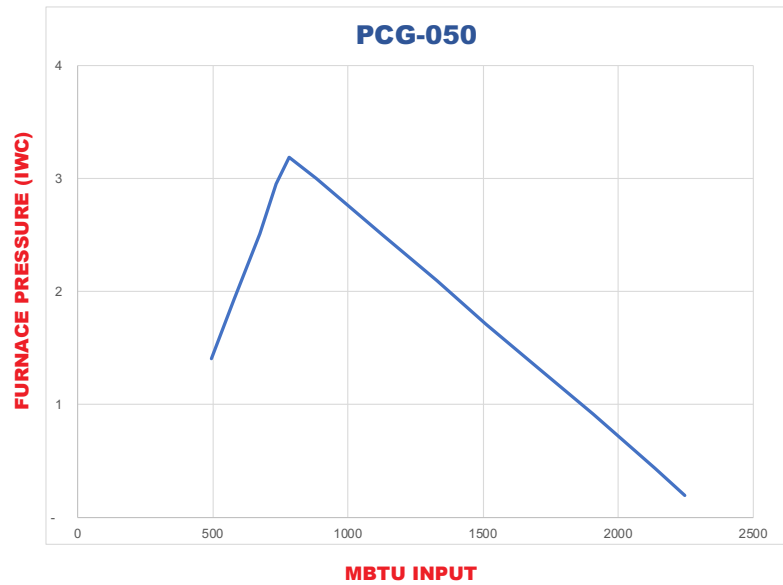
The Preferred Comet burner can be integrated with anything in the Preferred catalog by in-house engineers who are experts at Preferred products and boiler room applications. Most catalog parts are in stock for quick delivery.

* Expected emissions are based on natural gas high fire.



COMET DIMENSIONS GIVEN IN INCHES

MODEL	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
PCG-050	8.96	10.51	6.19	21.06	9.85	18.59	18.22	9.50	8.58	1.38	0.57	37.15	13.62	28.06	17.28	16	14	-	-	-	-
PCG-100	10.47	14.61	8.23	23.90	12.68	18.59	19.70	9.45	8.21	0.89	0.42	47.24	20.80	38.08	17.28	16	14	10.55	54.38	34.68	31.86
PCG-150	11.65	16.58	10	26.96	15.95	20.67	19.47	11.22	9.74	0.87	0.55	53.77	25.91	44.61	19.46	16	14	13.03	58.1	38.63	39.78
PCG-200	11.65	16.58	10	27.27	16.04	21.04	19.47	11.22	9.74	0.87	0.55	54.23	25.91	45.10	19.91	16	14	13.03	58.57	39.09	39.78
PCG-250	11.65	16.58	10	27.27	16.04	21.04	19.47	11.22	9.74	0.87	0.55	54.23	25.91	45.10	19.73	16	14	13.03	58.57	39.09	39.78
PCG-300	16.38	20.66	10	27.18	16.00	21.71	19.47	11.22	9.74	0.87	0.55	55.02	25.89	45.78	20.55	16	14	13.03	59.36	39.89	39.78



Listed Fan Capacities are based on Natural Gas Fuel.



**Renewable Fuel Burners
Low NOx Burners
Boiler Control Systems
Remote Cloud Monitoring
Fuel Oil Handling Systems**

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People. Products. Results.



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