



**OLYMPIA
BURNER**



**GAS BURNER & OIL BURNER
CATALOGUE**

PT OLYMPIA KOGYU INDONESIA

“Olympia is a pioneer manufacturer of Burner in Japan”

GREETING

We are “Olympia Kogyo Group”, since its inception as a combustion equipment manufacturers, order to meet the diverse needs of customers, technology development, efforts to manufacturing and sales, we have been growing.

In the future is always grasp accurately the customer needs, market and the environment, we will continue developing manufacturing to be the first quality of spirit.

New era, in continue order to carefully use the limited resources, promote the efficient use of energy, be addressed to energy conservation and enviromental protection, we believe that mission imposed on our combustion equipment manufacturer, now also We will continue to play a more social contribution to.

Olympia Kogyo Co.,Ltd. founded in 1965, is one of the leading manufactures of burners in Japan and has manufactured a wide variety of thermal equipments with the burner as the core.

Olympia Kogyo Co.,Ltd. is a pioneer manufacturer of Burner in Japan. Achievement of Japanese No.1 sales result for Gas Burner. Oil Burner is produced over 400,000 units as accumulation of sales result. We have developped oil/gas burners and their applied products with a focus on society’s need for energy-saving and efficient operation.

Olympia is making efforts to continue developing and manufacturing of high quality products meeting customer’s requirements and adapting to changes in the market and environment.

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OLYMPIA GAS BURNER

GOM, GLT, AG, RG, CG Series

“Olympia gas burners” can respond certainly wide needs of the customers based on considerable experience and latest technology providing a main line up AG-Series, RG-Series, CG-Series, those are arranged for the various applications and purpose.

“Olympia gas burners” have the abundant variations from small size house use burners to large size industrial burners. We can offer the most suitable model for the purpose and the condition of a small once-through boiler, a hot water boiler, an absorption chiller, an incinerator, a drying furnace, and others from wide range customers and equipments.

In addition to AG, RG, CG-Series, Olympia has a plan to develop new GOM and GLT-series. And also we have CD-Series hot air generators designed for industrial plant built in type.

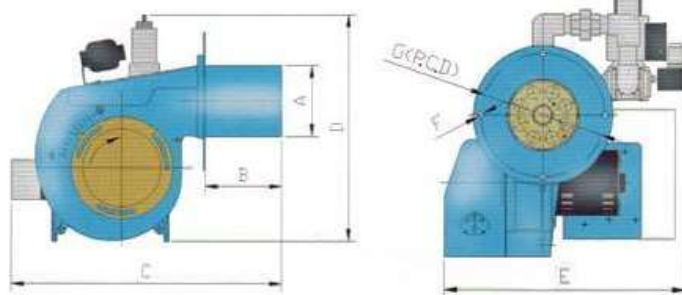
WE GUARANTEE THAT OLYMPIA GAS BURNERS CATER TO DIVERSIFIED CUSTOMER NEEDS WITH THEIR HIGH RELIABILITY AND PERFORMANCE.

GOM Series

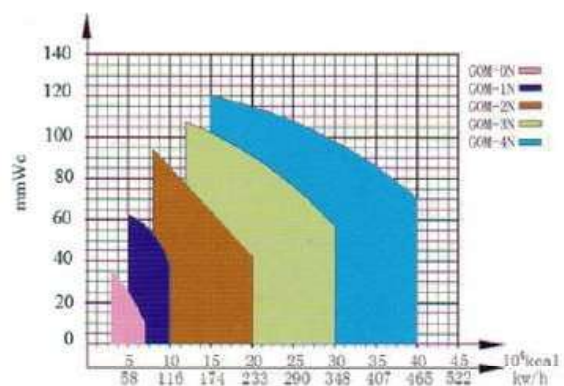


GOM series were specially developed to meet the requirement of more reasonable prices, by applying “direct ignition system”. Their P-Q capacity curves show very high performance as shown next page.

Specification						
Model		GOM-0N	GOM-1N (WM)	GOM-2N (WM)	GOM-3N (WM)	GOM-4N (WM)
Output	10 ⁴ kcal/h	3 - 5	5 - 10	10 - 20	15 - 30	20 - 40
	kW/h	35 - 58	58 - 116	116 - 233	174 - 349	233 - 465
Motor	kW	0.1	0.15	0.25	0.4	
Power	Motor	AC 220V/1ϕ/50(60)Hz			AC 380V/3ϕ/50(60)Hz	
	Control				AC 220V/1ϕ/50(60)Hz	
Control		Standard: ON-OFF, WM: High-Low-Off				
Gas		LPG, LNG				
Temperature		-10 °C - +60 °C				
Inlet	LPG	15A	20A	25A	25A	
	LNG				32A	



Dimension



Capacity Curve

Type	A	B	C	D	E	F	G
GOM - 0N	Φ76	100	325	314	359	8-Φ11	Φ135/Φ150
GOM - 1N	Φ89	100	429	384	358	4-Φ11	Φ150
GOM - 2N	Φ114	120	458	426	404	4-Φ12	Φ190
GOM - 3N	Φ140	150	664	524	468	4-Φ12	Φ240
GOM - 4N	Φ140	150	664	524	468	4-Φ12	Φ240
GOM - 0NWM	Φ76	100	502	351	435	8-Φ11	Φ135/Φ150
GOM - 1NWM	Φ89	100	592	366	450	4-Φ11	Φ150
GOM - 2NWM	Φ114	120	700	425	496	4-Φ12	Φ190
GOM - 3NWM	Φ140	150	700	425	550	4-Φ12	Φ240
GOM - 4NWM	Φ140	150	731	407	550	4-Φ12	Φ240

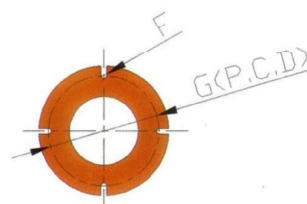
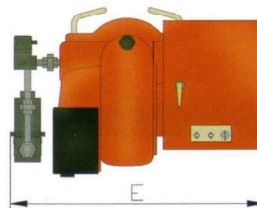
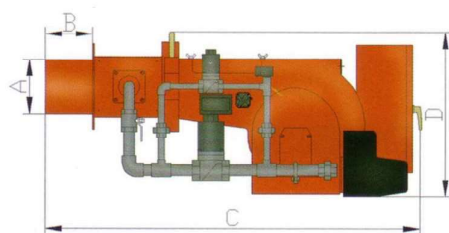
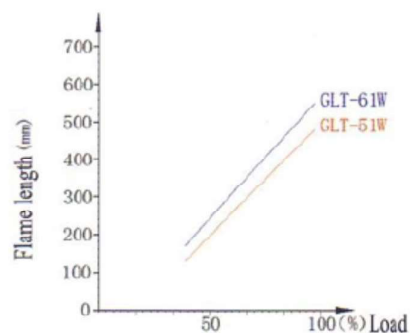
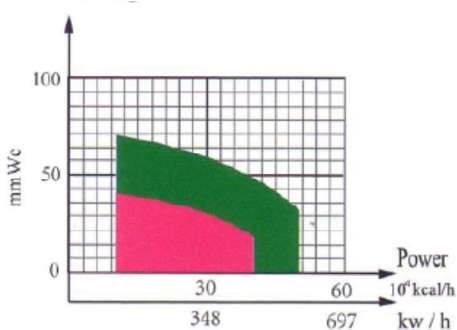


GLT Series



This series comprises of Gun type burners with cast aluminium housing. GLT burners can be pull out and turn on pivot hinge for easy maintenance. Good adaptability and high P-Q feature are characteristic features of these burners.

Specification				
Model	Output (kcal/h)	Output (kW)	Control	Motor Watt / Phase
GLT – 61W	600,000	705	High-Low-Off	750 / 3Φ
GLT – 81W	800,000	941	High-Low-Off	1.000 / 3Φ



Type	A	B	C	D	E	F	G
GLT – 61W	Φ140	150	937	435	522	4-Φ12	Φ230



AG Series



This series has essentially no danger of a backfire as it employs non-premixing combustion method. This ensures stable combustion in a wide range of applications.

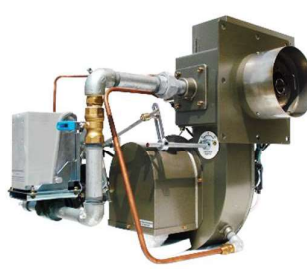
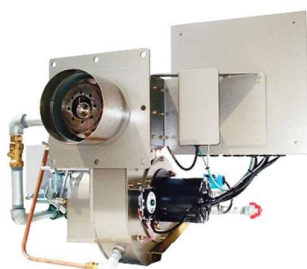
The burner and control are designed in compliance with the safety requirements for the gas appliances and equipment. Well arranged layout of the burner head, fan and control results in a compact construction to enable effective use of a small space.

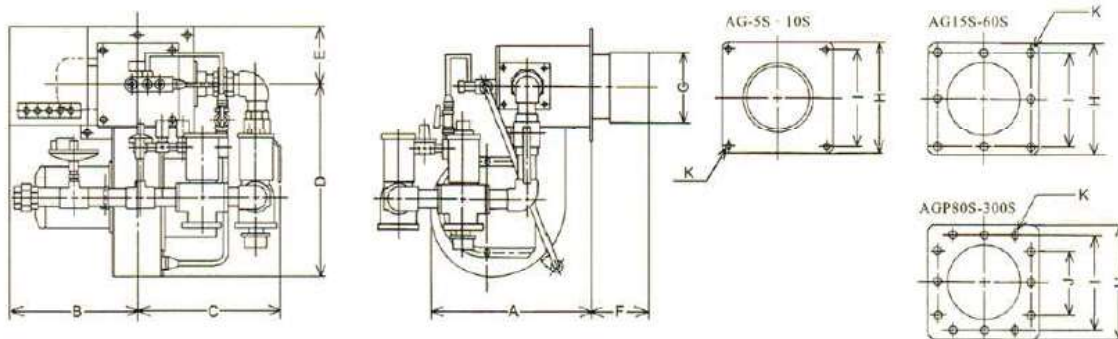
A strong pilot flame ensures a secure ignition of the main gas. Both the main and the pilot burner are so designed as to allow simple removal and reinstallation, thus providing ease of inspection, cleaning and other maintenance.

AG Series (General-Purpose Standard Gas Burner)														
MODEL			MAX. OUTPUT		QUANTITY OF MAX. GAS Nm³/h		KIND OF GAS	POWER SOURCE		MOTOR OUTPUT	CONNECTION LINE SIZE (MAIN COCK)			FLAME DETECTOR
ON- OFF	HIGH- LOW	PROPOR- TIONAL	kW	kcal/h	LPG	LNG	Supply Pressure kPa	Volt	Phase	kW	LPG	LNG	LNG (PROPOR- TIONAL)	
AG-5S	AG-5WS	AGP-5S	58	50,000	2.1	4.6	LNG :2.0 LPG :2.8	-	1	0.04	3/4B	3/4B	3/4B	Flame rod Ultra vision
AG-10S	AG-10WS	AGP-10S	116	100,000	4.2	9.2		-	1	0.15	3/4B	3/4B	3/4B	
AG-15S	AG-15WS	AGP-15S	174	150,000	6.3	13.8		-	1 or 3	0.25	3/4B	1B	1B	
AG-25S	AG-25WS	AGP-25S	291	250,000	10.5	23		-	3	0.4	1B	1B	1B	
AG-30S	AG-30WS	AGP-30S	349	300,000	12.6	27.5		-	3	0.4	1B	1B	11/4B	
AG-40S	AG-40WS	AGP-40S	465	400,000	16.8	36.7		-	3	0.75	1B	11/4B	11/4B	
AG-45S	AG-45WS	AGP-45S	523	450,000	18.9	41.3		-	3	0.75	1B	11/4B	11/2B	
AG-60S	AG-60WS	AGP-60S	698	600,000	25.2	55.1		-	3	1	11/4B	2B	2B	
-	-	AGP-80S	930	800,000	33.6	73.5		-	3	1.5	11/2B	2B	2B	Ultra vision
-	-	AGP-100S	1160	1,000,000	42.1	91.8		-	3	1.5	2B	21/2B	21/2B	
-	-	AGP-150S	1740	1,500,000	63.1	137.7		-	3	2.2	2B	21/2B	21/2B	
-	-	AGP-200S	2330	2,000,000	84.1	183.7		-	3	3.7	21/2B	3B	3B	
-	-	AGP-250S	2910	2,500,000	105.1	229.6		-	3	5.5	21/2B	*2	*2	
-	-	AGP-300S	3490	3,000,000	126.2	275.5		-	3	7.5	3B	*2	*2	

Max. Output, Quantity of Max. Gas is gross calorific value
(LNG:10980 kcal/Nm³, LPG:23780 kcal/Nm³)

*2: It is decided in combination with a lineup of the gas supply pressure.





CLASIFICATION		MODEL	A	B	C	D	E	F	G	H	I	J	K	KIND OF GAS
AG SERIES	ON-OFF SYSTEM	AG-5S	387	255	325	271	135	100	101.6	200	180		4-Φ10	LNG
		AG-10S	417	275	325	293	170	100	114.3	200	180		4-Φ10	LNG
		AG-15S	496	298	312	374	148	100	146	270	240		8-Φ12	LNG
		AG-25S	515	298	335	418	148	100	160	270	240		8-Φ12	LNG
		AG-30S	606	310	363	472	135	120	180	270	240		8-Φ12	LNG
		AG-40S	645	310	395	504	135	120	180	270	240		8-Φ12	LNG
		AG-45S	645	310	395	504	135	120	180	270	240		8-Φ12	LNG
		AG-60S	690	345	487	539	170	120	216	340	310		8-Φ12	LNG
	HIGH-LOW SYSTEM	AG-5WS	442	275	325	328	165	100	101.6	200	180		4-Φ10	LNG
		AG-10WS	447	275	325	365	170	100	114.3	200	180		4-Φ10	LNG
		AG-15WS	526	298	312	400	148	100	146	270	240		8-Φ12	LNG
		AG-25WS	558	298	337	418	148	100	160	270	240		8-Φ12	LNG
		AG-30WS	633	310	362	472	135	120	180	270	240		8-Φ12	LNG
		AG-40WS	656	330	395	504	135	120	180	270	240		8-Φ12	LNG
		AG-45WS	656	330	395	504	135	120	180	270	240		8-Φ12	LNG
		AG-60WS	790	345	487	569	170	120	216	340	310		8-Φ12	LNG
	PROPORTIONAL SYSTEM	AGP-5S	463	335	425	358	255	100	101.6	200	180		4-Φ10	LNG
		AGP-10S	463	335	425	358	255	100	114.3	200	180		4-Φ10	LNG
		AGP-15S	507	358	447	374	238	100	146	270	240		8-Φ12	LNG
		AGP-25S	523	358	467	418	238	100	160	270	240		8-Φ12	LNG
		AGP-30S	597	370	526	472	226	120	180	270	240		8-Φ12	LNG
		AGP-40S	597	370	526	504	226	120	180	270	240		8-Φ12	LNG
		AGP-45S	626	370	549	504	226	120	180	270	240		8-Φ12	LNG
		AGP-60S	624	405	480	539	201	120	216	340	310		8-Φ12	LNG
		AGP-80S	732	470	535	638	230	150	240	380	350	240	12-Φ12	LNG
		AGP-100S	733	483	563	645	217	150	260	400	364	240	12-Φ12	LNG
		AGP-150S	853	500	580	711	225	180	290	450	410	240	12-Φ13	LNG
		AGP-200S	960	520	627	756	245	180	330	490	450	260	12-Φ13	LNG
		AGP-250S	1036	535	675	1020	260	200	360	520	480	280	12-Φ13	LPG
		AGP-300S	1073	570	746	1055	290	200	410	580	544	300	12-Φ13	LPG

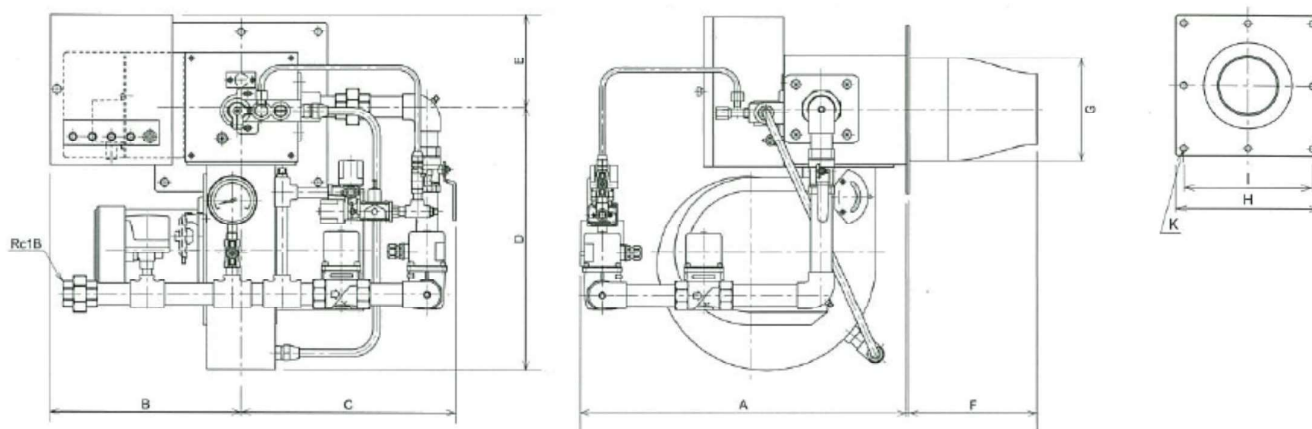
AG Series: Standard model gas burner
(Max. Turndown ratio 5:1)

*This list is burner dimensions of gas kind LNG. In the case of other kind of gas, please confirm it to the person in charge.

RG Series

RG Series (Long Flame Type Gas Burner)													
MODEL			MAX. OUTPUT		QUANTITY OF MAX. GAS Nm ³ /h		KIND OF GAS	POWER SOURCE		MOTOR OUTPUT	CONNECTION LINE SIZE (MAIN COCK)		FLAME DETECTOR
ON-OFF	HIGH-LOW	PROPORTIONAL	kW	kcal/h	LPG	LNG	Supply Pressure kPa	Voltage	Phase	kW	LPG	LNG	
RG-5	RG-5W	RGP-5	58	50,000	2.1	4.6	LNG : 2.0 LPG : 2.8	-	1	0.04	3/4B	3/4B	Flame rod Ultra vision
RG-10	RG-10W	RGP-10	116	100,000	4.2	9.2		-	1 or 3	0.25	3/4B	3/4B	
RG-15	RG-15W	RGP-15	174	150,000	6.3	13.8		-	1 or 3	0.25	3/4B	3/4B	
RG-25	RG-25W	RGP-25	291	250,000	10.5	23		-	3	0.4	3/4B	1B	
RG-40	RG-40W	RGP-40	465	400,000	16.8	36.7		-	3	0.75	1B	1 1/4B	

Max. Output, Quantity of Max. Gas is gross calorific value (LNG:10980 kcal/Nm³, LPG:23780 kcal/Nm³)



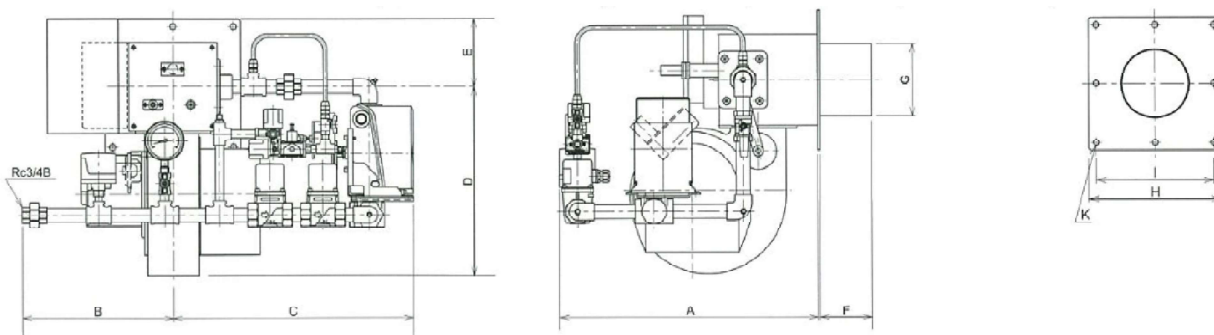
CLASIFICATION		MODEL	A	B	C	D	E	F	G	H	I	J	K	KIND OF GAS
RG SERIES	ON-OFF SYSTEM	RG-5	417	255	325	271	135	160	101.6	200	180		4-Φ10	LNG
		RG-10	417	275	325	293	170	160	114.3	200	180		4-Φ10	LNG
		RG-15	496	298	312	374	148	180	139.8	270	240		8-Φ12	LNG
		RG-25	515	298	335	418	148	200	165.2	270	240		8-Φ12	LNG
		RG-40	645	322	395	504	135	200	165.2	270	240		8-Φ12	LNG
	HIGH-LOW SYSTEM	RG-5W	443	275	325	328	165	160	101.6	200	180		4-Φ10	LNG
		RG-10W	448	275	325	365	170	160	114.3	200	180		4-Φ10	LNG
		RG-15W	526	298	312	400	148	180	139.8	270	240		8-Φ12	LNG
		RG-25W	558	298	337	418	148	200	165.2	270	240		8-Φ12	LNG
		RG-40W	656	331	395	504	135	200	165.2	270	240		8-Φ12	LNG
	PROPORTIONAL SYSTEM	RGP-5	463	335	425	358	255	160	101.6	200	180		4-Φ10	LNG
		RGP-10	463	335	425	358	255	160	114.3	200	180		4-Φ10	LNG
		RGP-15	507	358	447	374	238	180	139.8	270	240		8-Φ12	LNG
		RGP-25	523	358	467	418	238	200	165.2	270	240		8-Φ12	LNG
		RGP-40	597	370	526	504	226	200	165.2	270	240		8-Φ12	LNG

CG Series

MODEL			MAX. OUTPUT		QUANTITY OF MAX. GAS Nm ³ /h		KIND OF GAS	POWER SOURCE		MOTOR OUTPUT	CONNECTION LINE SIZE (MAIN COCK)		FLAME DETECTOR
ON-OFF	HIGH-LOW	PROPORTIONAL	kW	kcal/h	LPG	LNG	Supply Pressure kPa	Voltage	Phase	kW	LPG	LNG	
CG-3	-	-	35	30,000	1.3	2.8	LNG : 2.0 LPG : 2.8	-	1	0.04	1/2B	1/2B	Flame rod Ultra vision
-	-	CGP-5	58	50,000	2.1	4.6		-	1	0.04	3/4B	3/4B	
-	-	CGP-10	116	100,000	4.2	9.2		-	1 or 3	0.15	3/4B	3/4B	
-	-	CGP-15	174	150,000	6.3	13.8		-	1 or 3	0.25	3/4B	3/4B	

Max. Output, Quantity of Max. Gas is gross caloric value (LNG:10980 kcal/Nm³, LPG:23780 kcal/Nm³)

High turndown ratio <1:10> gas burner, but the turndown ratio of CGP-5 is <1:5>



CLASIFICATION		MODEL	A	B	C	D	E	F	G	H	I	J	K	KIND OF GAS
CG SERIES	ON-OFF SYSTEM	CG-3	407	240	263	256	165	50	76.3	130	115		4-Φ8	LNG
	HIGH-LOW SYSTEM	CGP-5	461	335	474	358	255	100	101.6	200	180		4-Φ10	LNG
		CGP-10	461	335	477	358	255	100	114.3	200	180		4-Φ10	LNG
		CGP-15	502	358	477	374	238	100	139.8	270	240		8-Φ12	LNG

CG Series: The gas burner which made the fire long based on a AG series (Max. Turndown ratio 10:1)

*This list is burner dimensions of gas kind LNG. Because content is different, in the case of an LPG or other gas, please confirm it to the person in charge

Gas Flow System of The Gas Burner

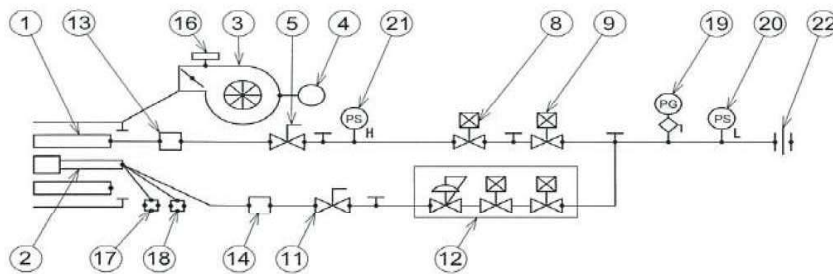
A flow seat example (In the case of low pressure supply)

Gas supply pressure

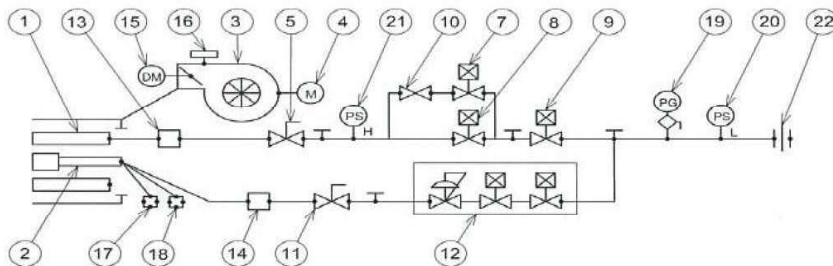
LPG 2.8 kPa

LNG 2.0 kPa

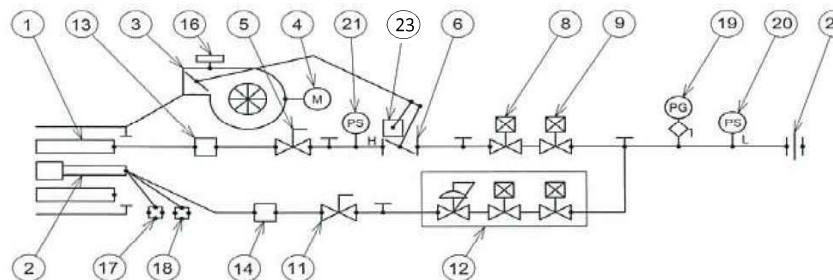
<ON-OFF SYSTEM>



<HIGH-LOW SYSTEM>



<PROPORTIONAL SYSTEM>



1. Main burner
2. Pilot burner
3. Blower
4. Motor
5. Main cock
6. Butterfly valve
7. 2nd Shut-off valve (low combustion)
8. 3rd Shut-off valve (high combustion)
9. 1st Shut-off valve (safety valve)
10. Gas flow control cock
11. Pilot cock
12. Pilot governor
13. Main orifice
14. Pilot orifice, Needle valve
15. Damper control motor
16. Air pressure switch
17. Ignition transformer
18. Flame detector
19. Gas pressure gauge
20. Gas pressure switch (low)
21. Gas pressure switch (high)
22. Plumbing joint (union, flange)
23. Modutrol motor

Model Constitution of the Olympia Gas Burner

RATED OUTPUT		GOM SERIES		GLT SERIES
kW	kcal/h	ON-OFF	HIGH-LOW	HIGH-LOW
35 - 58	30,000 - 50,000	GOM-0N	-	-
58 - 116	50,000 - 100,000	GOM-1N	GOM-1NWM	-
116 - 233	100,000 - 200,000	GOM-2N	GOM-2NWM	-
174 - 349	150,000 - 300,000	GOM-3N	GOM-3NWM	-
233 - 465	200,000 - 400,000	GOM-4N	GOM-4NWM	-
588	500,000	-	-	GLT-51W
705	600,000	-	-	GLT-61W
941	800,000	-	-	GLT-81W

RATED OUTPUT		AG SERIES			RG SERIES			CG SERIES		
kW	kcal/h	ON-OFF	HIGH-LOW	PROPOR-TIONAL	ON-OFF	HIGH-LOW	PROPOR-TIONAL	ON-OFF	HIGH-LOW	PROPOR-TIONAL
35	30,000	-	-	-	-	-	-	CG-3	-	-
58	50,000	AG-5S	AG-5WS	AGP-5S	RG-5	RG-5W	RGP-5	-	-	CG-5
116	100,000	AG-10S	AG-10WS	AGP-10S	RG-10	RG-10W	RGP-10	-	-	CG-10
174	150,000	AG-15S	AG-15WS	AGP-15S	RG-15	RG-15W	RGP-15	-	-	CG-15
291	250,000	AG-25S	AG-25WS	AGP-25S	RG-25	RG-25W	RGP-25	-	-	-
349	300,000	AG-30S	AG-30WS	AGP-30S	-	-	-	-	-	-
465	400,000	AG-40S	AG-40WS	AGP-40S	RG-40	RG-40W	RGP-40	-	-	-
523	450,000	AG-45S	AG-45WS	AGP-45S	-	-	-	-	-	-
698	600,000	AG-60S	AG-60WS	AGP-60S	-	-	-	-	-	-
930	800,000	-	-	AGP-80S	-	-	-	-	-	-
1160	1,000,000	-	-	AGP-100S	-	-	-	-	-	-
1740	1,500,000	-	-	AGP-150S	-	-	-	-	-	-
2330	2,000,000	-	-	AGP-200S	-	-	-	-	-	-
2910	2,500,000	-	-	AGP-250S	-	-	-	-	-	-
3490	3,000,000	-	-	AGP-300S	-	-	-	-	-	-

Heat Conversion Table			
MJ	kJ	kcal	kw h
1	1,000	238.9	0.2778
0.001	1	0.2389	0.0002778
0.004186	4.186	1	0.001163
3.6	3,600	860	1

Receiving many favorable comments by customers because of its high reliability and stable flame forming function without backfire.

1. Safety Design

“Olympia gas burners” are safety-first designed in accordance with the safety requirements for the gas appliances and equipment.

- (1) We employ pilot burner ignition system so that can keep combustion safely.*CG-series burners have no pilot burner as the direct ignition models.
- (2) Burners have essentially no danger of backfire as providing a so-called non-premixing (diffusion) combustion method.
- (3) The safety devise and controller are consist of a sure flame sensor, a gas pressure switch and an air pressure switch.
- (4) We selected world-proven parts for a safety devise and shutoff valve to control gas flow ratio to hold their reliability.

2. Compact Construction

Well-arranged layout of the burner head, fan, and controller result entirely compact construction to enable effective use of small space.

3. Simple Operation

Olympia burners have fully automatic function with all built in safety devise and combustion controller, so that the operator can operate the burner by single action.

4. Ease of Maintenance

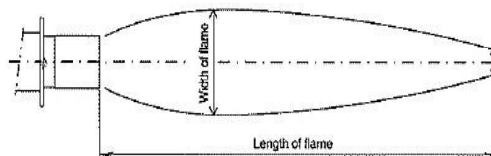
Both the main and pilot burner are so designed as to removal and reinstallation, thus providing ease of inspection, cleaning and other maintenance.

Flame Comparison of the gas burner

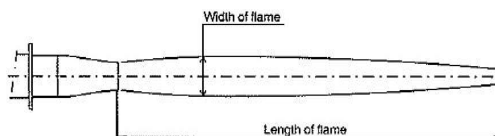
Unit: mm

AG Model (Standard Gas Burner)			RG Model (Long Flame Type Gas Burner)			Difference in Flame Shape	
Model	Length of Flame	Width of Flame	Model	Length of Flame	Width of Flame	Length of Flame	Width of Flame
AG-5	400	200	RG-5	700	110	300	90
AG-10	500	230	RG-10	900	120	400	110
AG-15	650	290	RG-15	1100	140	450	150
AG-25	700	320	RG-25	1200	160	500	160
AG-30	800	350	-	-	-	-	-
AG-40	850	360	RG-40	1400	170	550	190
AG-45	900	360					
AG-60	1000	430					
AGP-80	1150	480					
AGP-100	1300	520					
AGP-150	1500	580					
AGP-200	1800	660					
AGP-250	2200	720					
AGP-300	2500	820					

AG MODEL gas burner flame shape



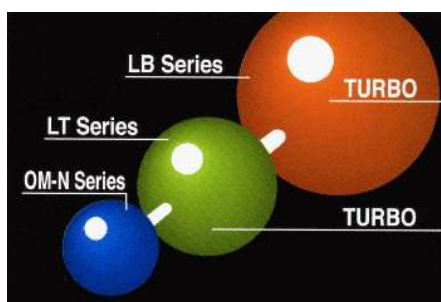
RG MODEL gas burner flame shape



OLYMPIA OIL BURNER

OM, LT, LB, LT/LB Turbo Fan Series

BACKED BY LONG YEAR OF RICH EXPERIENCES AS WELL AS BY ADVANCED TECHNICAL KNOW-HOW, WE WILL INTRODUCE PRODUCTS OF EXCELLENT QUALITY TO MEET EXTENSIVE CUSTOMER NEEDS.



WIDE VARIETY

The olympia oil burner comes in a diversified assortment of models to meet different use and condition. Over a wide range of small household heaters to large industrial ones, the most suitable burner can be chosen according to the characteristics of the heater to be equipped with it and to the kind of fuel to be used.

SIMPLE CONSTRUCTION AND EXCELLENT COMBUSTION CHARACTERISTICS

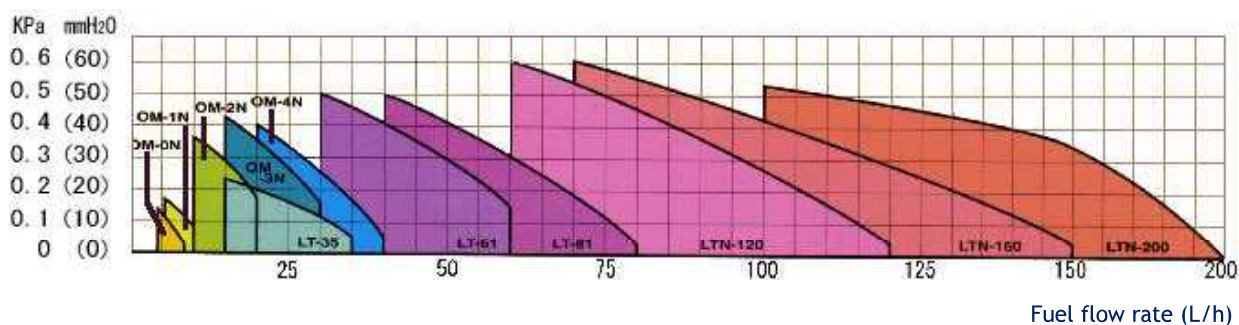
For easy handling and maintenance, the Olympia oil burner is designed to be of simplest possible construction. In addition, our burner is based on a stringent design concept in ignition and combustion characteristics including stable flames, backed up by a thorough test before release on the market; Thus, it should satisfy need of the customer.

GREAT ECONOMY

Each and every component of the Olympia oil burner is elaborated to match the characteristics of an individual model so that the burner can contribute to overall energy economy with the resultant high cost performance.

CHARACTERISTICS

The graph shows the relationship between the combustion chamber pressure and the volume of fuel capacity of combustion with regard to some typical models.



OM-N Series



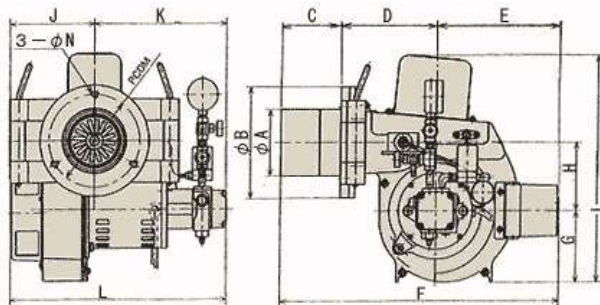
Olympia OM-N Series burners are small to medium size models. These new OM-N series employ a tandem drive motor for a fan and a fuel pump to improve performance and considering high maintenance ability.

OM-N (New OM) Series <Middle-Small size frequent use burner>

Burner Installati -on	Type			Oil Feed System	Rated Output		Fuel Consumption (L/h)	Power Source	Phase	Motor (W)	Fuel	Dumper Control
	On-Off	High-Low	Propor- tional		kW	kcal/h						
FIXED FLANGE TYPE	OM-0NS	-	-	Solenoid Pump	58	50,000	3-6	-	1	20	Kerosene	-
	OM-0NSL	-	-		81	70,000	4-8	-	1	40		-
	OM-0N	-	-	Gear Pump Type	81	70,000	4-8	-	1	100	Kerosene Light Oil Heavy Oil	-
	OM-1N	OM-1NW	-		116	100,000	6-12	-	1 or 3	150		•
	OM-2N	OM-2NW	-		198	170,000	10-20	-	1 or 3	250		•
	OM-3N	OM-3NW	-		302	260,000	15-30	-	1 or 3	250		•
	OM-4N	OM-4NW	-		407	350,000	20-40	-	3	400		•
	OM-1NH	OM-1NHW	-	Gear Pump Type	116	100,000	6-12	-	1 or 3	150		•
	OM-2NH	OM-2NHW	-		198	170,000	10-20	-	1 or 3	250		•
HINGE TYPE	OM-3NH	OM-3NHW	-		302	260,000	15-30	-	1 or 3	250		•
	OM-4NH	OM-4NHW	-		407	350,000	20-40	-	3	400		•

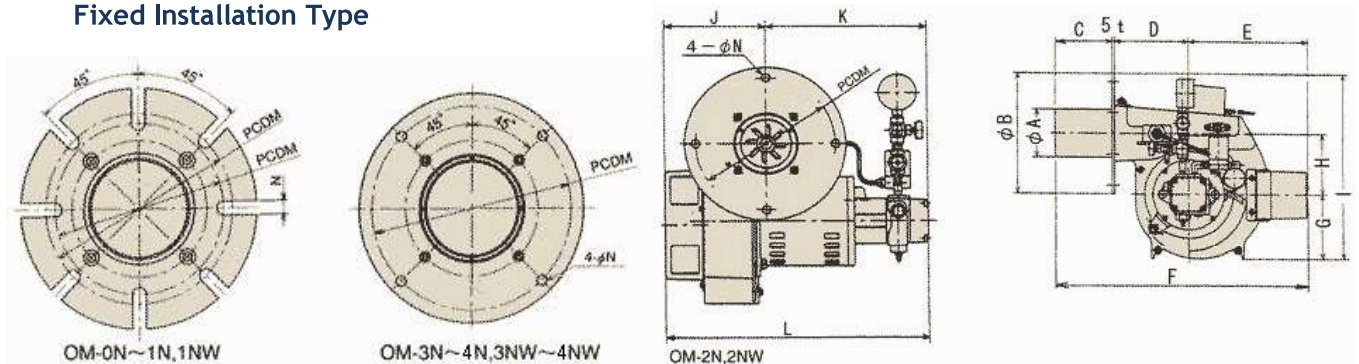


OM -N Series Hinge Installation Type



Type	A	B	C	D	E	F	G	H	I	J	K	L	M	N
OM-1NH	108	180	100	157	209	466	116	111	367	140	222	362	150	9
OM-2NH	127	200	115	177	224	516	128	114	389	155	238	393	165	9
OM-3NH	127	200	115	187	236	538	144	131	425	191	269	460	165	9
OM-4NH	127	200	115	187	194	496	144	131	425	191	255	446	165	9
OM-1NHW	108	180	100	157	263	520	116	111	367	178	222	400	150	9
OM-2NHW	127	200	115	177	240	532	128	114	389	187	238	425	165	9
OM-3NHW	127	200	115	187	243	545	144	131	425	203	269	472	165	9
OM-4NHW	127	200	115	187	243	545	144	131	425	203	255	458	165	9

OM -N Series Fixed Installation Type



Type	A	B	C	D	E	F	G	H	I	J	K	L	M	N
OM-0N	88	190	100	120	100	325	86	73	300	143	239	382	135/150	11
OM-1N	88	190	100	130	209	444	116	111	367	137	222	359	135/150	11
OM-2N	114	220	120	150	224	499	128	114	389	155	238	393	190	12
OM-3N	127	270	150	160	236	551	144	131	425	191	269	460	240	12
OM-4N	140	270	150	160	194	509	144	131	425	191	255	446	240	12
OM-1NW	88	190	100	130	240	475	116	111	367	172	222	394	135/150	11
OM-2NW	114	220	120	150	240	515	128	114	389	187	238	425	190	12
OM-3NW	127	270	150	160	243	558	144	131	425	203	269	472	240	12
OM-4NW	140	270	150	160	243	558	144	131	425	203	255	458	240	12

LT Series



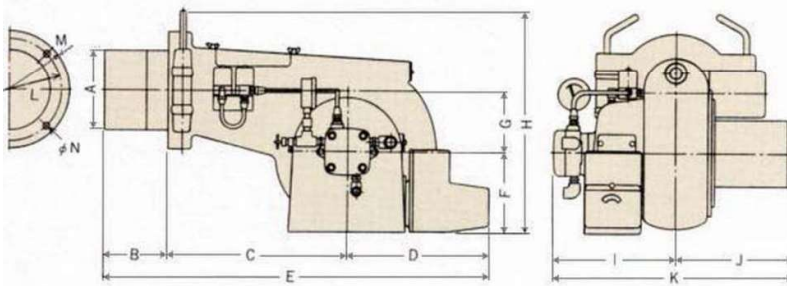
LT series are standards long sale series as medium to large models. This series burners have big accumulate production number used for heating, drying, incinerator and wider applications with their economical excellent combustion performance. LT burners can be pull out and turn on pivot hinge for easy inspection, cleaning, and the other maintenance.

LT Series <Middle-Large size frequent use burner>

Burner Installation	Type			Oil Feed System	Rated Output		L/h High - Low	L/h Proportional	Power Source	Phase	Motor kW	Fuel	Dumper Control
	On-Off	High-Low	Proportional		kW	kcal/h							
Hinge Type	LT-35	LT-35W	LTP-35	Gear Pump Type	337	290,000	15-35	10-35	-	1 or 3	0,25	Kerosene	-
	LT-61	LT-61W	LTP-61		581	500,000	30-60	20-60	-	3	0,75		-
	-	LT-81	LTP-81		779	670,000	40-80	27-80	-	3	1	Kerosene Light Oil Heavy Oil	-
	-	LTN-120	LTP-120		1163	1,000,000	60-120	40-120	-	3	1,5		•
	-	LTN-150	LTP-150		1453	1,250,000	70-150	50-150	-	3	2,2		•
	-	LTN-200	LTP-200		1942	1,670,000	100-200	60-200	-	3	3,7		•
	-	LTN-250	LTP-250		2430	2,090,000	120-250	80-250	-	3	3,7		•
	-	LTN-350	LTP-350		2907	2,500,000	150-300	100-300	-	3	5,5		•

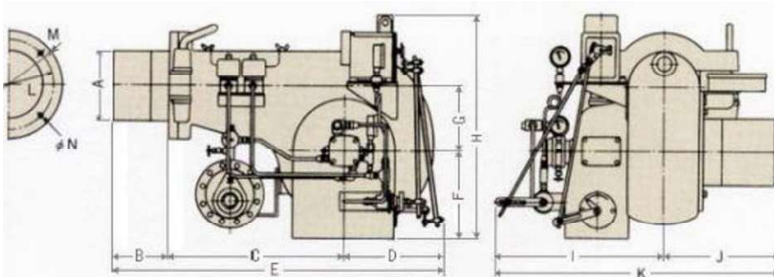


LT Series On-Off and High-Low Type



Type	A	B	C	D	E	F	G	H	I	J	K	L	M	N
LT-35	152	120	310	160	590	150	115	422	230	205	435	195	222	11
LT-61	152	120	335	162	617	155	115	422	238	254	492	195	224	11.5
LT-61W	152	120	335	291	746	155	115	422	238	254	492	195	224	11.5
LT-81	152	120	360	287	767	173	136	464	271	260	531	210	240	14
LTN-120	162	150	405	287	842	200	158	530	317	380	697	210	250	14
LTN-150	190	150	477	305	932	240	176	582	345	380	734	240	290	14
LTN-200	190	150	477	305	932	240	176	582	354	446	800	240	290	14
LT-250	215	190	565	313	1068	280	180	650	365	485	850	305	345	14
LT-350	215	190	565	313	1068	280	180	650	365	495	860	305	345	14

LT Series Proportional Type



Type	A	B	C	D	E	F	G	H	I	J	K	L	M	N
LTP-61	152	120	335	205	660	155	115	480	375	254	629	195	224	11.5
LTP-81	152	120	360	225	705	173	136	530	385	260	645	210	240	14
LTP-120	162	150	405	238	793	200	158	550	414	380	794	210	250	14
LTP-150	190	150	477	238	865	240	176	580	450	380	830	240	290	14
LTP-200	190	150	477	238	865	240	176	580	450	446	896	240	290	14
LTP-250	215	190	565	313	1068	280	180	650	500	485	985	305	345	14
LTP-350	215	190	565	313	1068	280	180	650	500	495	995	305	345	14

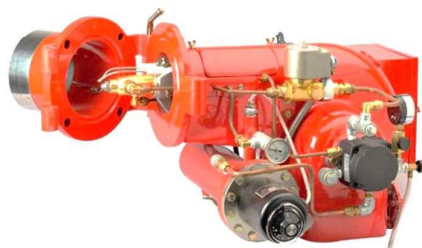
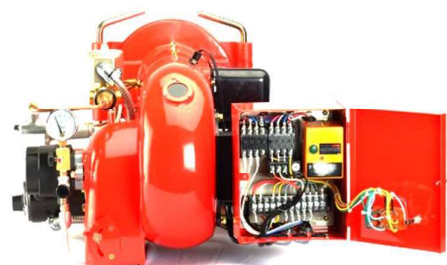
LB Series



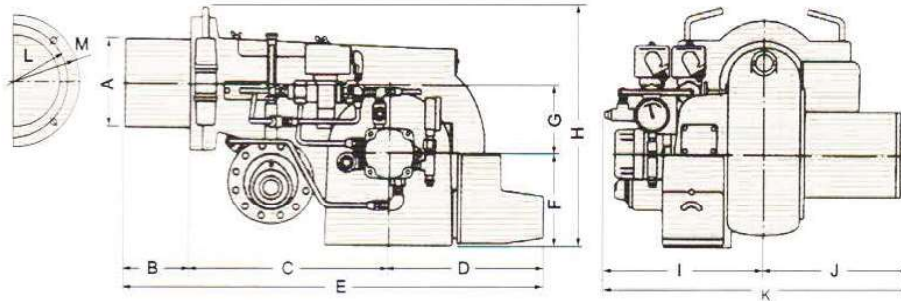
This series includes burners of a medium to large size suitable for heavy oil. The fuel is heated while being circulated to the nozzle, thus can provide excellent ignition and stable combustion.

Type No.	Fuel	Control	Damper Controller	Oil Heater
LB-35, 61	Heavy Oil B	On-Off	-	•
LB-61W	Heavy Oil B	High-Low	•	•
LB-81	Heavy Oil B	High-Low	•	•
LBN-120, 150, 200	Heavy Oil B	High-Low	•	•
LB-250, 350	Heavy Oil B	High-Low	•	•

Type No.	Fuel	Control	Control Motor	Oil Heater
LBP-61, 81	Heavy Oil B	Proportional	•	•
LBP-120, 150, 200	Heavy Oil B	Proportional	•	•
LBP-250, 350	Heavy Oil B	Proportional	•	•

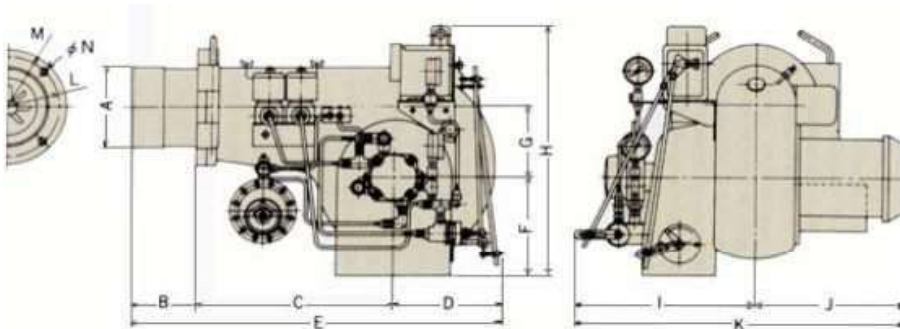


LB Series On-Off and High-Low Type



Model	A	B	C	D	E	F	G	H	I	J	K	L	M
LB-35	152	120	310	160	590	150	115	422	230	205	435	195	222
LB-61(W)	152	120	335	162	617	155	115	422	254	254	508	195	224
LB-81	152	120	360	287	767	173	136	464	300	260	560	210	240
LBN-120	162	150	405	287	842	200	158	530	350	380	730	210	250
LBN-150	190	150	477	305	932	240	176	582	460	380	840	240	290
LBN-200	190	150	477	305	932	240	176	582	460	446	906	240	290
LB-250	215	190	565	313	1068	280	180	650	500	485	985	305	345
LB-350	215	190	565	313	1068	280	180	650	500	495	995	305	345

LB Series Proportional Type

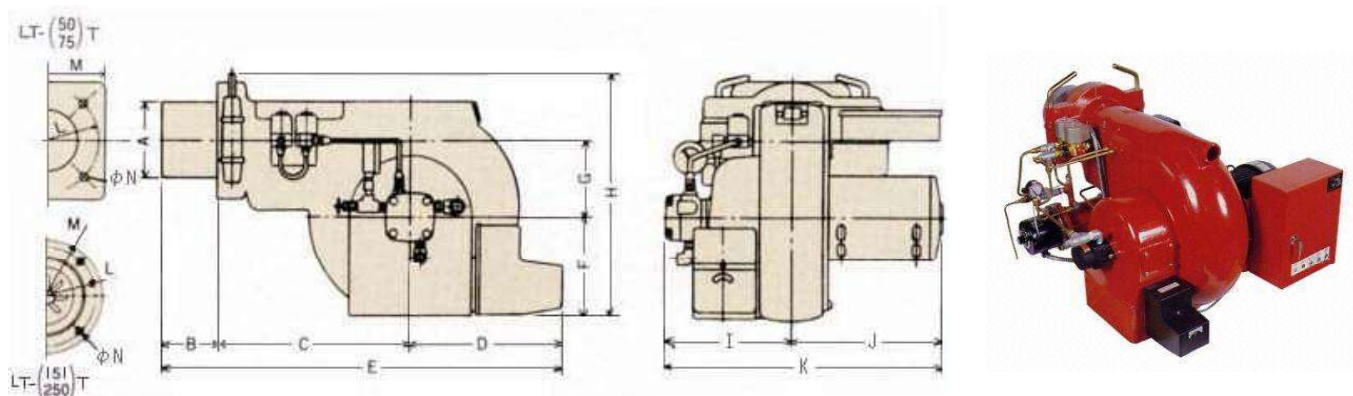


Model	A	B	C	D	E	F	G	H	I	J	K	L	M
LBP-61	152	120	335	205	660	155	115	480	375	254	629	195	224
LBP-81	152	120	360	225	735	173	136	530	385	260	645	210	240
LBP-120	162	150	405	238	867	200	158	550	414	380	794	210	250
LBP-150	190	150	477	238	895	240	176	580	450	380	830	240	290
LBP-200	190	150	477	238	895	240	176	580	450	446	896	240	290
LBP-250	215	190	565	313	972	280	180	650	500	485	985	305	345
LBP-350	215	190	565	313	972	280	180	650	500	495	995	305	345

LT/LB Turbo Fan Series

This series consisting of models of a medium to large size are equipped with a turbo fan to serve purpose under a high combustion chamber pressure.

Type No.	Fuel	Control	Damper Controller	Oil Heater
LT-151T, 250T	Kerosene/Light Oil	High-Low	●	-
LTP-151T, 250T	Kerosene/Light Oil	Proportional	Control Motor	-
LT-151TA, 250TA	Heavy Oil A	High-Low	●	●
LTP-151TA, 250TA	Heavy Oil A	Proportional	Control Motor	●
LB-151T, 250T	Heavy Oil B	High-Low	●	●
LBP-151T, 250T	Heavy Oil B	Proportional	Control Motor	●



Type	A	B	C	D	E	F	G	H	I	J	K	L	M
LT—151T(A)	162	150	425	302	877	266	176	650	343	393	736	220	250
LT—250T(A)	190	150	477	315	942	266	222	655	357	465	822	240	290

NOTE 1 :

LTP-151T(A), 250T(A)

LBP-151T, 250T

Each of the above models has different dimensions according to its intended use. These dimensions will thus be determined when each specification is confirmed.

NOTE 2 :

Subsequent models larger than a 250T(A) in this catalog are available in the LT/LB Turbo fan series; such as LT/LB 301T, 401T, 600T and 1000T. These models are capable of supporting steam boilers with a maximum evaporation amount of 10 T/H.

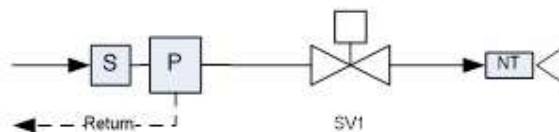
Oil Flow System of The Oil Burner

We employ suitable oil flow system for Olympia oil burner, considering of the control method, kind of fuel oil, type of pressurizes fuel pump and purpose of the installation.

<Representative System>

(1) On-Off System

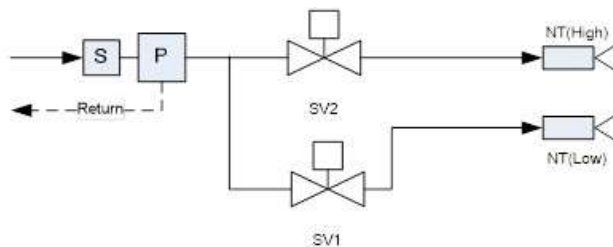
Most simple control system, used for small burners mainly



S : Strainer
P : Pump
SV1 : Solenoid Valve
NT : Nozzle Tip

(2) High-Low System (Three position control, 2 stages)

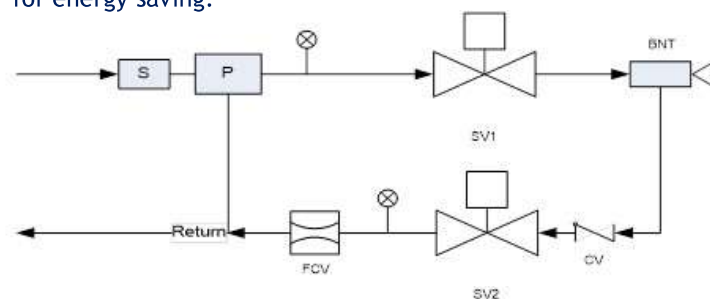
Provides responsibility to heat capacity fluctuation than On-Off mode, used for medium and large size burners mainly, effective for energy saving than On-Off mode.



SV1 : Solenoid Valve
SV2 : Solenoid Valve

(3) Proportional System

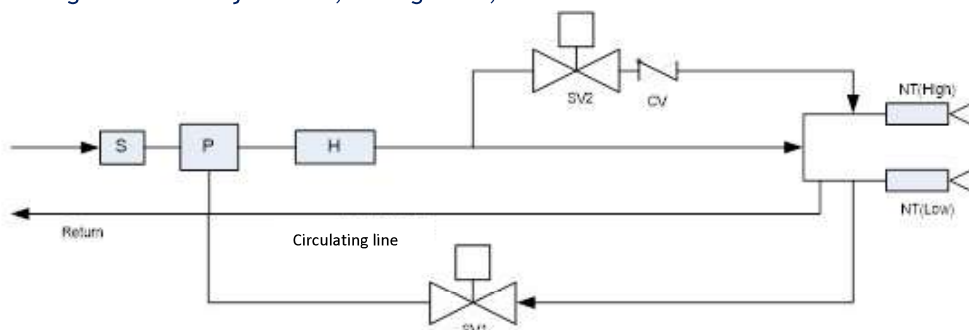
Proportional control system is used for high accuracy fuel flow control system on the medium size burner or large model. The fuel flow controlled following heat load level, so it is suitable for energy saving.



SV : Solenoid Valve
BNT : Proportional Nozzle
FCV : Flow Control Valve
CV : Non-Return Valve

(4) High-Low System (Three position control, 2 stages) for Heavy Oil (B)

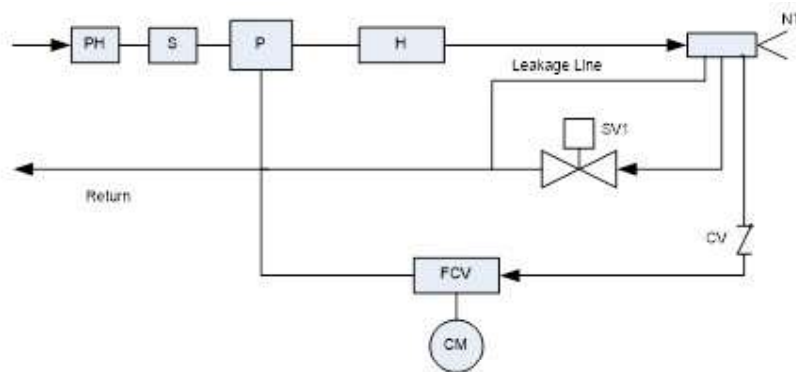
This system is suited for burners of a medium to larger size using heavy oil high viscosity. It has a circulating passage through which the flowing fuel is heated. It also enables the same control of High-Low fuel adjustment, Low ignition, etc.



H : Heater

(5) Proportional System for Heavy Oil (B)

This system adopted in burners of a medium to larger size which uses heavy oil of high viscosity and thus requires delicate control. As in the diagram, the oil is heated while being circulated, and after injection the combustion volume is controlled by the flow control valve in the nozzle tip return line (the combustion air flow rate being also controlled by the control motor and linkage mechanism).



SH : Pre Heater
FCV : Flow Control Valve
CM : Control Motor

Model Constitution of the Olympia Oil Burner

Clasifi- cation	RATED OUTPUT		FUEL RATING L/h	HINGE TYPE			FIXED FLANGE TYPE			PUMP MODEL	FUEL
	kW	kcal/h		ON-OFF	HIGH-LOW	PROP- ORTIONAL	ON-OFF	HIGH-LOW	PROP- ORTIONAL		
OM-N Series	58	50.000	6	-	-	-	OM-0NS	-	-	SOLENOID PUMP TYPE	KEROSENE
	81	70.000	8	-	-	-	OM-0NSL	-	-		
	81	70.000	8	-	-	-	OM-0N	-	-		
	116	100.000	12	OM-1NH	OM-1NHW	-	OM-1N	OM-1NW	-	GEAR PUMP TYPE	KEROSENE LIGHT OIL HEAVY OIL
	198	170.000	20	OM-2NH	OM-2NHW	-	OM-2N	OM-2NW	-		
	302	260.000	30	OM-3NH	OM-3NHW	-	OM-3N	OM-3NW	-		
	407	350.000	40	OM-4NH	OM-4NHW	-	OM-4N	OM-4NW	-		
LT Series	337	290.000	35	LT-35	LT-35W	LTP-35	-	-	-		KEROSENE
	488	420.000	50	-	-	-	-	-	-		
	581	500.000	60	LT-61	LT-61W	LTP-61	-	-	-		
	779	670.000	80	-	LT-81	LTP-81	-	-	-		KEROSENE LIGHT OIL HEAVY OIL
	1163	1.000.000	120	-	LTN-120	LTP-120	-	-	-		
	1453	1.250.000	150	-	LTN-150	LTP-150	-	-	-		
	1942	1.670.000	200	-	LTN-200	LTP-200	-	-	-		
	2430	2.090.000	250	-	LT-250	LTP-250	-	-	-		
	2907	2.500.000	300	-	LT-350	LTP-350	-	-	-		

Heat Conversion Table			
MJ	kJ	kcal	kw h
1	1000	238.9	0.2778
0.001	1	0.2389	0.00027778
0.004186	4.186	1	0.001163
3.6	3600	860	1

High Temperature Air Generator (Duct Burner)

The Olympia Kogyo Co., Ltd. offers the duct type high temperature (gas) air generator which we newly developed, based on our research and the latest technology.

Safety Design

- No possibility of a back fire due to adoption of the pre-mixing gas combustion method.
- Safety mechanisms have been designed based on The Technology Requirements for Gas Combustion and Safety of The Japan Gas Association.

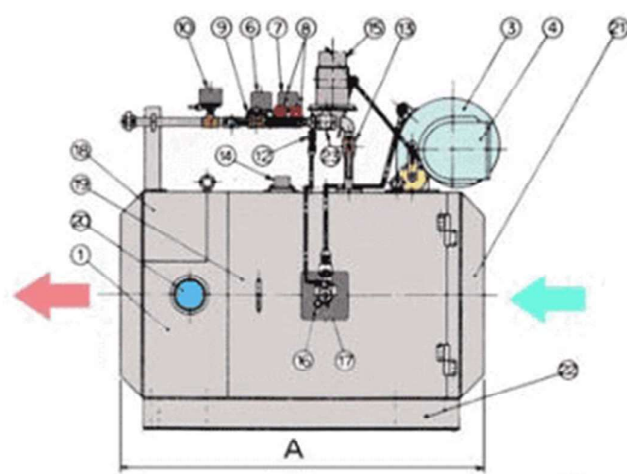
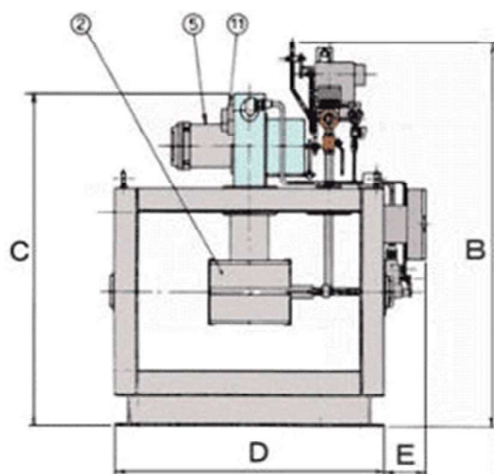
Space-saving and Easy Maintenance

- The combustion blower, and gas piping, etc. are installed on the upper part of the main body, allowing for space-saving.
- A window to observe the combustion conditions and a inspection door has been installed, the latter of hinged type, enabling easy inspection and maintenance of the equipment.

Stable Operation and Temperature Control

- The burner possesses a particular construction that is excellent in the stability of combustion.
- The proportional control method has been adopted for the adjustment of gas combustion, and proper temperature controls are readily available (On-Off and Full-Half-Off or Full- Partial-Off control modes are also available).

Type		CD-50PW	CD-100PW	CD-200PW	CD-300PW	CD-400PW	CD-500PW
The maximum input (kW)		58	116	233	350	464	580
Fuel consumption	LPG	2.1	4.2	8.3	12.5	16.7	20.8
	LNG	4.6	9.1	18.2	27.3	36.4	45.5
	6B gas	10	20	40	60	80	100
	6C gas	11.1	22.2	44.4	66.7	88.9	111.1
Supply pressure (kPa)	LPG	2.8					
	LNG	2.0					
	6B・6C gas	1.0					
Power source		200V 3φ					
Capacity of motor(kW)		0.25	0.25	0.4	0.75	0.75	1.5
Combustion method		Outer-Mixing					
Duct cross section (mm)		500×320	700×500	950×700	1100×900	1300×1000	1500×1100
Connecting pipe diameter (B)	LPG	1/2			3/4	1	1-1/4
	LNG	1/2	3/4	1	1-1/4	1-1/2	
	6B・6C gas	3/4	1	1-1/2	2	2-1/2	3
Turn down ratio		1:3	1:5	1:10			



1. Duct Burner ass'y

2. Burner head

3. Fan casing

4. Air inlet

5. Fan motor

6. First cut-off valve

7. Second cut-off valve

8. Pilot solenoid valve

9. Pilot governer

10. Gas pressure switch

11. Air pressure switch

12. Pilot cock

13. Main cock

14. Ignition transformer

15. Modutrol motor

16. Flame rod

17. Ignition rod

18. Relay terminal box

19. Inspection door

20. Sight window

21. Combination flange

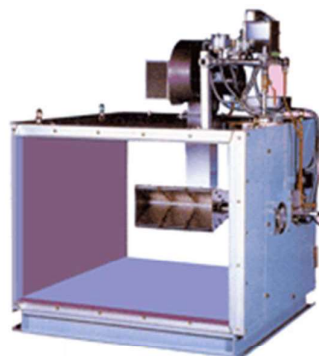
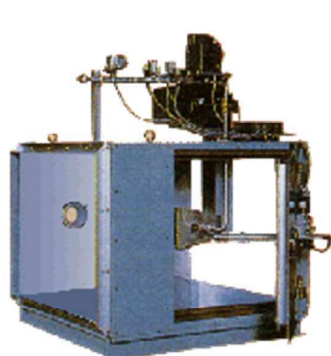
22. Base frame

23. Butterfly valve

Type	The maximum input (kW)	A	B	C	D	E
CD—50PW	58	1150	1020	875	650	130
CD—100PW	116	1150	1200	1055	850	130
CD—200PW	233	1150	1440	1275	1100	130
CD—300PW	350	1350	1650	1530	1250	130
CD—400PW	464	1450	1780	1690	1450	130
CD—500PW	580	1550	1895	1790	1650	130

Please consult about special specifications other than above-mentioned standard ones.

The specifications and the dimensions might be changed without an advanced notice for the improvement.



Fintube

Fintube of The OLYMPIA KOGYO CO., LTD. demonstrates effective use of thermal energy with the benefit of a compact design.

We produce fin tubes in accordance with our customers' specifications.



A serrated type fin tube



A solid type fin tube



Fintube production line

Potential range of solid type manufacture

① Combinations on material (note 1)

Tube	Fin
Carbon steel	Carbon steel
Stainless steel	Stainless steel
Low-alloy steel	Low-alloy steel

② Acceptable dimensions for spiral fin (note 2)

Tube diameter (d)	25.4 ~ 168.3
Thickness of Fin (tf)	0.64 ~ 3.0
Height of fin (H)	9.0 ~ 31.8
Fin pitch (P)	4.2 ~ 25.4

Unit mm

