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CONSTRUCTION PERMIT APPLICATION

Applicant Completes: Sections I, II, III (optional), IV, VI and VII

BUILDING IDENTIFICATION

- Proposed Work-site at: Ocean County Vocational School
- Name of Owner in Fee: Same as above Tel. (____) _____
Address Chambers Bridge Rd
street municipality zip code
- Ownership in Fee: Public ☒ Private _____
- Principal Contractor: Allied Boiler Repair Co. Tel. (201) 341-5907
Address 1501 Industrial Way North Toms River, NJ 08754
License No. OR, if new home, Builder Reg. No. _____ Exp. Date _____
Federal Emp. No. _____ Social Security No. _____
- Architect or Engineer _____ Tel. (____) _____
Address _____
- Responsible Person
In Charge of Work William Boggiano Tel. (341) 5907

V. FEE SUMMARY (for office use only)

		Update	Update
1. Building	\$		
2. Electrical			
3. Plumbing			
4. Fire Protection			
5. Other			
6. Subtotal	\$		
7. Less 20% for State Plan Review			
8. Subtotal	\$		
9. DCA Training Fee			
10. Subtotal	\$		
11. Cert. of Occupancy			
12. Other			
13. TOTAL	\$		

VI. BUILDING/SITE CHARACTERISTICS

	(office use only)
1. Number of Stories	_____
2. Height of Structure	_____ ft.
3. Area—Largest Floor	_____ sq. ft.
4. Building Area—All Floors	_____ sq. ft.
5. Volume of Structure	_____ cu. ft.
6. Construction Classification	_____
7. Total Land Area Disturbed	_____ sq. ft.
8. Flood Hazard Zone	_____
9. Base Flood Elevation	_____ ft.
10. Wetlands yes _____ no _____	_____ sq. ft.
11. Fire Grading	_____
12. Max. Live Load	_____
13. Max. Occupancy Load	_____

II. PROPOSED WORK

- ☐ Minor Work (single trade)
- ☐ Small Job (\$5,000 and no prior approvals)
- ☐ New Building
- ☐ Addition
- ☐ Alteration
- ☐ Fire Protection
- ☒ Plumbing
- ☐ Electrical
- ☐ Asbestos Abatement
- ☐ Demolition

Est. Cost

Gas Line

OPTIONAL (for office use only)

Plans Rec'd By	Date Rec'd	Rejection Date	Approval Date	Re-viewer	Resubmission Dates Approval	Rejection	Re-viewer
<u>[Signature]</u>	<u>8-21-90</u>		<u>8-21-90</u>	<u>[Signature]</u>	<u>8-29-90</u>	<u>[Signature]</u>	<u>[Signature]</u>

TOTAL COSTS

49,500⁰⁰

III. DO YOU WANT: (optional) 1. ☐ Partial Releases 2. ☐ Prototype Processing

IV. DOES OR WILL YOUR BUILDING CONTAIN ANY OF THE FOLLOWING?

- ☐ Elevators/Escalators/Lifts/Dumbwaiters/Moving Walks
- ☐ High Pressure Boilers
- ☐ Pressure Vessels
- ☐ Refrigeration Systems
- ☐ Cross-Connections/Backflow Preventers
- ☐ Hazardous Uses/Places of Assembly
- ☐ Sprinklers
- ☐ Smoke Control Systems in Open Wells
- ☐ Underground Storage Tanks

VII. DESCRIPTION OF BUILDING USE

A. RESIDENTIAL

- ☐ Hotels (R-1)
- ☐ Multi-Family (R-2)
- ☐ Two-Family (R-3) BOCA
- ☐ Two-Family (R-4) CABO
- ☐ One-Family (R-3) BOCA
- ☐ One-Family (R-4) CABO

No of dwelling units:

Before Construction _____

After Construction _____

Net gain or loss _____

B. NON-RESIDENTIAL

1. State Specific Use:

O.C. Voc School

2. Use Group:

3. Change in Use Group, Indicate Former:

LDS BR 10409022

CERTIFICATION IN LIEU OF OATH

I. OWNER SECTION (to be completed if the applicant is the owner in fee)

I hereby certify that I am the owner in fee of the property listed on Page 1.

Mark the following applicable boxes:

- A. () I further certify that a new home (private residence) will be constructed on this property for my own use and occupancy. This dwelling is to be occupied by myself and is not to be used for any purpose other than single family residential use. I attest that all construction, plumbing, or electrical work will be done, in whole or in part, by me or by subcontractors under my supervision, in accordance with all applicable laws; and, I further acknowledge that said new home is not covered under the New Home Warranty and Builders Registration Act (N.J.S.A. 46:3B-1 et seq.) and that such fact shall be disclosed to any person purchasing this property within ten years of the date of issuance of a certificate of occupancy.

I UNDERSTAND THAT IN MARKING BOX A, I ACKNOWLEDGE THAT I AM ASSUMING RESPONSIBILITY FOR THE WORK DONE ON SAID PROPERTY, THE CONDITION OF THE PROPERTY PRIOR TO, DURING, AND AFTER ANY WORK PERFORMED, AND FOR THE PERFORMANCE OF THE SUBCONTRACTORS I HIRE, EMPLOY, OR OTHERWISE CONTRACT OR WITH WHOM I MAKE AGREEMENTS TO PERFORM WORK. I AM VOLUNTARILY AND KNOWINGLY ASSUMING THIS RESPONSIBILITY.

- B. () I further certify the following as required by the New Jersey Uniform Construction Code, N.J.A.C. 5:23-2.15(e)1.vii:

I personally prepared the plans submitted for: 1) the new home referred to in A.; or, 2) an addition, alteration, renovation, or repair to an existing single family residence owned and occupied by myself and located on the property listed on Page 1; or, 3) a new structure that will be physically separate from, but that will be deemed part of, an existing single family residence that is owned and occupied by myself and located on the property listed on Page 1.

- C. () I further certify that I will perform or supervise the following work:

C.1. () Building C.2. () Fire Protection

I further certify that I will perform the following work:

C.3. () Electrical C.4. () Plumbing

- D. () I agree to advise all contractors on this project that they are required to be registered with the New Jersey Division of Taxation and to comply with all New Jersey tax laws.

I further certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(a)5: All required State, county, and local prior approvals have been given, including such certification as the construction official may require.

I understand that if any of the above statements are willfully false, I am subject to punishment.

Signature _____ Date _____

II. AGENT SECTION

(to be completed if the applicant is not the owner in fee)

I hereby certify the following as required by the New Jersey Uniform Construction Code, N.J.A.C. 5:32-2.15(d): the proposed work is authorized by the owner in fee; and I have been authorized by the owner in fee to make this application as his agent.

I further certify the following as required by the Uniform Construction Code, N.J.A.C. 5:23-2.15(a)5: All required State, county, and local prior approvals have been given, including such certification as the construction official may require.

I agree to advise all contractors on this project that they are required to be registered with the New Jersey Division of Taxation and to comply with all New Jersey tax laws.

I understand that if any of the above statements are willfully false, I am subject to punishment.

(X) Check if contractor.

Agent Name Allied Boiler Repair Co.

Address 1501 Industrial Way North P.O. Box 1891

Toms River, N.J. 08754-1891

Telephone (201) 341-5907

Signature William Boggs Date 8-20-90

OFFICE DATE RECEIVED: _____

VIII. PRIOR APPROVALS CHECKLIST (office use only)	LOCAL APPROVAL		COUNTY APPROVAL		REGIONAL APPROVAL		STATE APPROVAL		COMMENTS
	Prelimin. Initial	Final Date	Prelimin. Initial	Final Date	Prelimin. Initial	Final Date	Prelimin. Initial	Final Date	
☐ Planning Board									
☐ Zoning Board									
☐ Sewer Authority									
☐ Water Authority									
☐ Fire Department									
☐ Police Department									
☐ Health Department									
☐ Soil Conservation									
☐ N.J. Dept. of Community Affairs									
☐ N.J. Department of Transportation									
☐ N.J. Dept. of Environmental Protection									
☐ Utility Dig No.									
☐ Other									
☐									
☐									

IX. SUBCODES AND SPECIAL REGULATIONS APPLICABLE (office use only—optional)

Name of Code & Edition	Name of Code & Edition	Other
Building _____	Energy _____	_____
Electrical _____	Barrier Free _____	_____
Plumbing _____	Flood Hazard _____	_____
Fire Protection _____	As Built Elevation Cert. _____	_____
Mechanical _____	Other _____	_____

X. CERTIFICATES ISSUED	(office use only)	DATE EXPIRED
☐ Temporary Certificate of Occupancy	No. _____	_____
☐ Temporary Certificate of Occupancy	No. _____	_____
☐ Continued Certificate of Occupancy	No. _____	_____
☐ Certificate of Occupancy	No. _____	_____
☐ Certificate of Approval	No. _____	_____
☐ None		



CONSTRUCTION PERMIT

Date Issued

Control #

Permit #

8/23/90
1655-90IDENTIFICATION Block 725 Lot 1Work Site Location C.C. Vocational SchoolContractor Allied Boiler Repair

Address _____

Owner In Fee _____

Address _____

Tele. (____) _____

Lic. No. or Bldrs. Reg. No. _____

Exp. Date _____

Tele. (____) _____

Federal Emp. No. _____

or Social Security No. _____

is hereby granted permission to perform the following work:

☐ BUILDING ☒ PLUMBING ☐ OTHER _____
☐ ELECTRICAL ☐ FIRE PROTECTION

DESCRIPTION OF WORK:

Gas Line

NOTE: If construction does not commence within one (1) year of date of issuance, or if construction ceases for a period of six (6) months, this permit is void.

Estimated Cost of Work \$ 49500A. J. Cerrito

PAYMENTS (Office Use Only)

Building _____

Plumbing XElectrical XFire Protection X

Other _____

Other _____

DCA Training Fee _____

Cert. of Occ. _____

Other _____

Total _____

Check No. _____

Cash _____

Collected By: _____

PLUMBING SUBCODE TECHNICAL SECTION



Date Received
Date Issued
Control #
Permit #

8/23/90
1655-90

A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION, WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 7225 Lot 1
Work Site Location Ocean Co. Jo-Tech Chambersbridge Rd.
Brick

Owner in Fee _____
Address _____

Tele. (201) 341-5907
Contractor Allied Boiler Repair Co
Address 1501 Industrial Way North, P.O. Box 1891
Toms River, N.J. 08754-1891
Lic. No. 2473
Federal Emp. No. _____ or Social Security N _____

B. PLUMBING CHARACTERISTICS

Use Group Present X Proposed _____
Building Sewer Size _____
Water Service Size _____
Estimated Cost of Plumbing Work \$ 49,500.00

JOB SUMMARY (Office Use Only)

PLAN REVIEW:	INSPECTIONS:	Dates (Month/Day)
Joint Plan Review Required:	Type:	Failure Failure Approval Initial
☐ No Plans Required	Slab	
☐ Bldg. ☐ Elec. ☐ Fire	Rough	
☒ Plumb. Plans Approved	Water	
Date: <u>8-21-90</u>	Sewer	
Approved by: <u>[Signature]</u>	Fixtures	
	Gas Equipment	
	Gas Final	
SUBCODE APPROVAL:	Solar	
☐ CO ☐ CCO ☒ CA	TCO	
Approved by: <u>[Signature]</u>		
Date: <u>8-29-90</u>		

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of record and am authorized to make this application and perform the work listed on this application.

☐ Licensed Plumbing Contractor ☐ Exempt Applicant

[Signature]
Signature-Contractor Seal

D. TECHNICAL SITE DATA (List all fixtures.)

NO.	FIXTURE/EQUIPMENT	FEE (Office Use Only)
	Water Closet	
	Urinal/Bidet	
	Bath Tub	
	Lavatory	
	Shower	
	Floor Drain	
	Sink	
	Dishwasher	
	Drinking Fountain	
	Washing Machine	
	Hose Bibb	
	Gas Piping	<u>15-</u>
	Fuel Oil Piping	
	Water Heater	
	Steam Boiler	
	Hot Water Boiler	
	Sewer Pump	
	Interceptor/Separator	
	Backflow Preventer	
	Greasetrapp	
	Water Cooled A/C	
	or Refrigeration Unit	
	Sewer Connection	
	Water Service Connection	
	Gas Service Connection	
	Active Solar System	
	Other	<u>10-</u>

Administrative Surcharge \$ _____
Paid ☐ Check # _____ Minimum Fee \$ _____
Collected by: _____ TOTAL \$ 25-



PLUMBING
SUBCODE
TECHNICAL SECTION



Date Received
Date Issued
Control #
Permit #

8/23/90
1655-90

A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION, WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block 725 Lot 1
Work Site Location Ocean Co. 10-Tech Chambersbridge Rd.
Owner in Fee
Address

Tele. ()
Contractor Allied Boiler Repair Co
Address 1501 Industrial Way North, P.O. Box 1891
Toms River, N.J. 08054-1891
Tele. (801) 241-5907
Lic. No. 24473
Federal Emp. No. or Social Security No. [REDACTED]

B. PLUMBING CHARACTERISTICS

Use Group Present X Proposed
Building Sewer Size
Water Service Size
Estimated Cost of Plumbing Work \$ 49,500.00

JOB SUMMARY (Office Use Only)

PLAN REVIEW:	INSPECTIONS:	Dates (Month/Day)
	Type:	Failure Failure Approval Initial
☐ No Plans Required	Slab	
☐ Joint Plan Review Required:	Rough	
☐ Bldg. ☐ Elec. ☐ Fire	Water	
☒ Plumb. Plans Approved	Sewer	
Date: <u>8-21-90</u>	Fixtures	
Approved by: <u>[Signature]</u>	Gas Equipment	
	Gas Final	
	Solar	
	TCO	
SUBCODE APPROVAL:		
☐ CO ☐ CCO ☐ CA		
Approved by:		
Date:		

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of record and am authorized to make this application and perform the work listed on this application.

☐ Licensed Plumbing Contractor ☐ Exempt Applicant

[Signature]
Signature-Contractor Seal

D. TECHNICAL SITE DATA (List all fixtures.)

NO.	FIXTURE/EQUIPMENT	FEE (Office Use Only)
	Water Closet	
	Urinal/Bidet	
	Bath Tub	
	Lavatory	
	Shower	
	Floor Drain	
	Sink	
	Dishwasher	
	Drinking Fountain	
	Washing Machine	
	Hose Bibb	
	Gas Piping	<u>15-</u>
	Fuel Oil Piping	
	Water Heater	
	Steam Boiler	
	Hot Water Boiler	
	Sewer Pump	
	Interceptor/Separator	
	Backflow Preventer	
	Greasetrap	
	Water Cooled A/C	
	or Refrigeration Unit	
	Sewer Connection	
	Water Service Connection	
	Gas Service Connection	
	Active Solar System	
	Other	<u>10-</u>

Paid ☐ Check #	Administrative Surcharge	\$
Collected by: TOTAL	Minimum Fee	\$ <u>25-</u>

Rockwell House Reg.
1 PSI - 3" w.c.

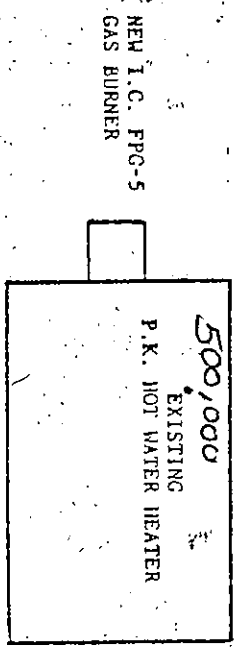
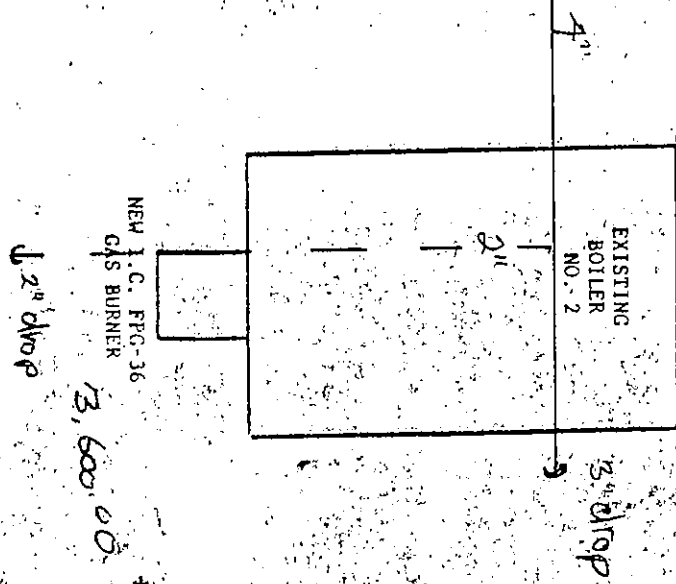
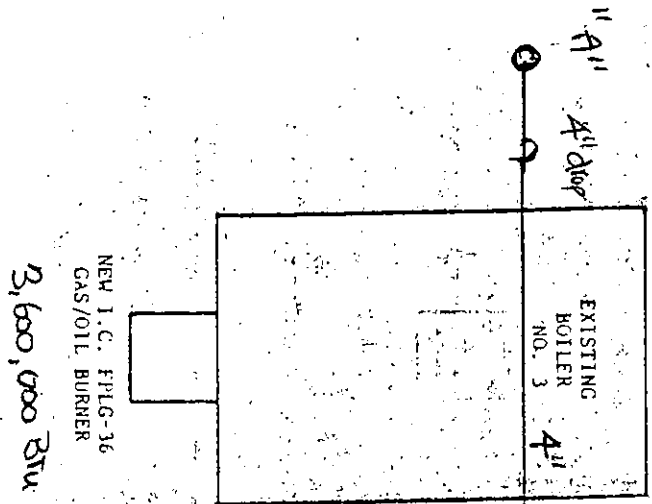
4" w.c.

Ocean County Vocational - Technical School
Chambersbridge Rd.
Brick Town, N.J.

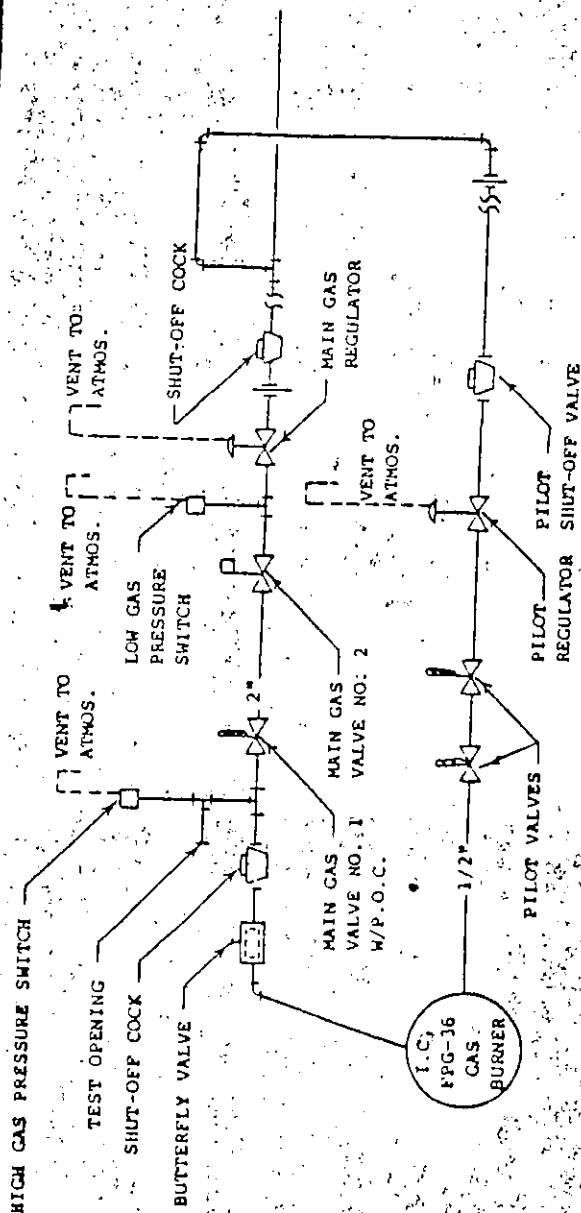
4"

down through
roof
4"

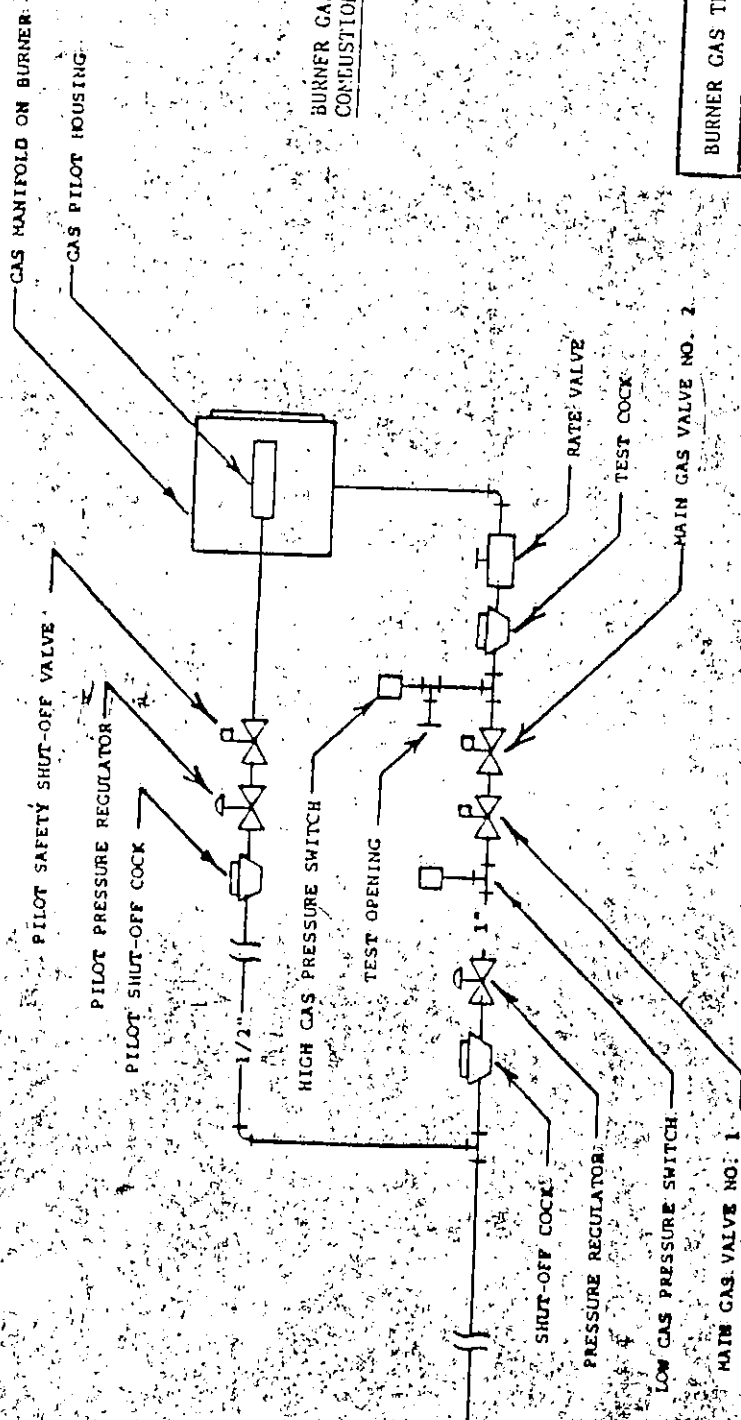
see boiler Room



BOILER LOCATIONS
OCEAN COUNTY VOCATIONAL-TECHNICAL SCHOOL BRICK TOWN, NJ



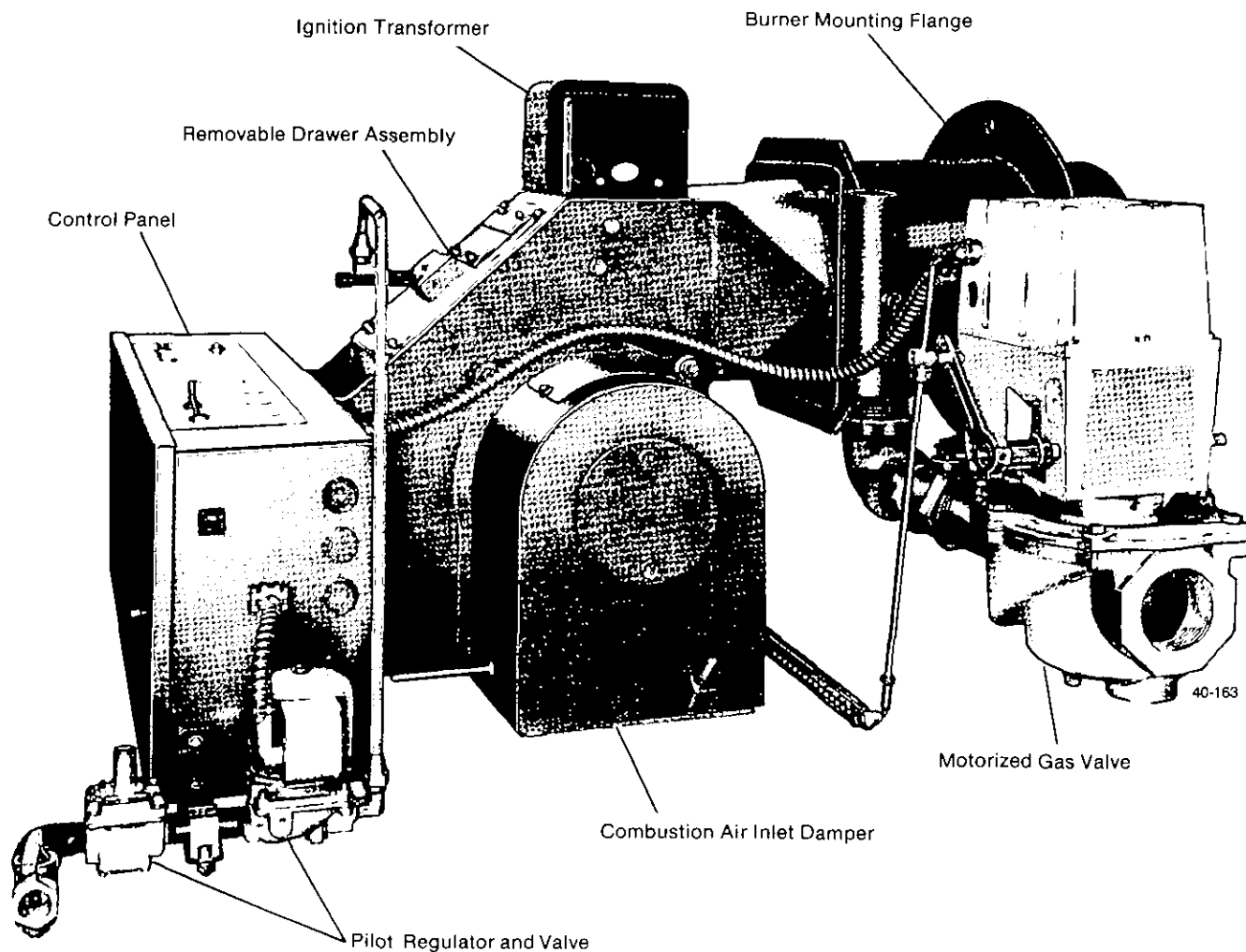
TYPICAL (3) BURNER GAS TRAINS FOR
(3) NEW INDUSTRIAL COMBUSTION MODEL NO.
FPG-36 GAS AND GAS/OIL BURNERS



BURNER GAS TRAIN FOR NEW INDUSTRIAL
COMBUSTION MODEL NO. FPG-5 BURNER

BURNER GAS TRAIN DRAWINGS

OCEAN COUNTY VOCATIONAL-TECHNICAL SCHOOL
BRICK TOWN, NJ



FPG 28

GENERAL DESCRIPTION

FPG series gas burners are designed for forced or natural draft firing and are particularly effective where high heat release is required or where a restricted combustion chamber exists. The burner can be mounted on Scotch, cast iron, or firebox boilers.

FPG gas burners use a two-stage motorized safety shutoff gas valve which controls input. The combustion air damper is mechanically linked to the actuator on the valve. Gas is introduced into the combustion chamber through a circle of gas jets. A flame retention stabilizer intimately mixes the gas and

combustion air resulting in a quiet, efficient, stable operation.

The burner housing is fabricated steel on which the blower, motor, control panel and other related components are mounted. The drawer assembly is removable. Flange mounting is standard.

Listed by Underwriters Laboratory. IRI, FM or other regulatory agency control options are available. Every IC burner is completely assembled, wired, and tested at the factory. Some main gas train components are shipped loose.

CAPACITIES AND SPECIFICATIONS

Model	Max. Input	** Output Boiler H.P. @ 80% Eff.	Blower Motor H.P. 3450 RPM	*Gas Pressure	Gas Train Size	Combustion Chamber			Approx. Shipping Weight
	Gas Max. MBH					Length	Width	C.L. Height	
14	1,400	33	3/4	4.0	1-1/2	36	15	8	250
17	1,700	40	3/4	5.0	1-1/2	42	15	8	250
20	2,100	50	3/4	6.5	1-1/2	48	16	8	250
28	2,940	70	1	5.5	2	56	22	10	310
36	3,600	86	2	8.0	2	58	26	11	310
42	4,200	100	3	9.0	2	60	28	12	330

*Gas pressure required at train inlet. Based on zero furnace pressure. For total pressure required, add furnace pressure. See IC-987.

**Boiler overall efficiency of 80% estimated. Firing rates based on altitudes to 2000 ft. above sea level and *0.75" wc furnace pressure. For firing rates at higher altitudes or higher furnace pressures, consult factory.

U.L. STANDARD EQUIPMENT

A. CONTROLS

1. Burner mounted control cabinet
2. 120/1/60 control circuit
3. Flame safeguard: 14-28; UVM 5
36-42; D30-5063 or R4140M
4. Motor relay or starter
5. Panel signal lights (3) Power On, Flame Failure, Main Fuel
6. Combustion air proving switch
7. Ignition transformer

B. GAS SYSTEM

1. Gas shutoff cock (2)
2. Main gas regulator, low pressure
3. Motorized gas valve on F14-20
4. Motorized gas valve with solenoid valve on F28-42
5. High and low gas pressure switches on F28-42

C. PILOT SYSTEM

1. Gas-electric ignition
2. Separate pilot regulator and valve (5 P.S.I.)
3. Shutoff cock

D. OTHER EQUIPMENT

1. Flange mounted motor and fan — 3450 RPM
2. Removable drawer assembly

E. OPTIONAL EQUIPMENT

1. Electric modulation; Models 14-20 with butterfly and diaphragm valve — Models 28-42 with butterfly and motorized p.o.c. valve.
2. Pedestal mounting
3. Solenoid gas valve (in addition to standard)
4. Control transformer, 1/2 KVA
5. Flame safeguard, lead sulfide
6. Upright model for low boiler base heights
7. Other accessories per IC-444

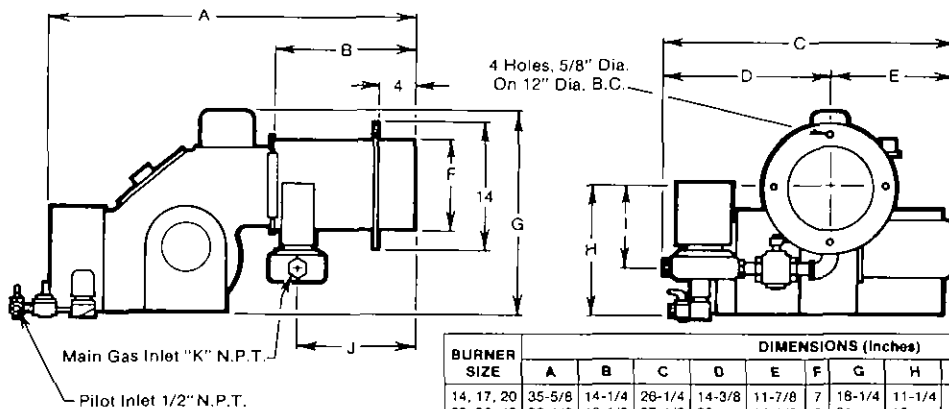
F. NOTES

1. All main gas line valves and accessories upstream of the main safety shutoff valve on hi-lo burners are shipped loose.
2. All main gas line valves and accessories upstream of the butterfly valve on modulating burners are shipped loose.

G. ORDERING INFORMATION

1. Blower motor voltage, phase and cycle
2. Control circuit voltage (120/60/1 standard)
3. Burner model and actual firing rate
4. Flame safeguard control
5. Special code and/or insurance requirements
6. Available gas pressure

GENERAL DIMENSIONS

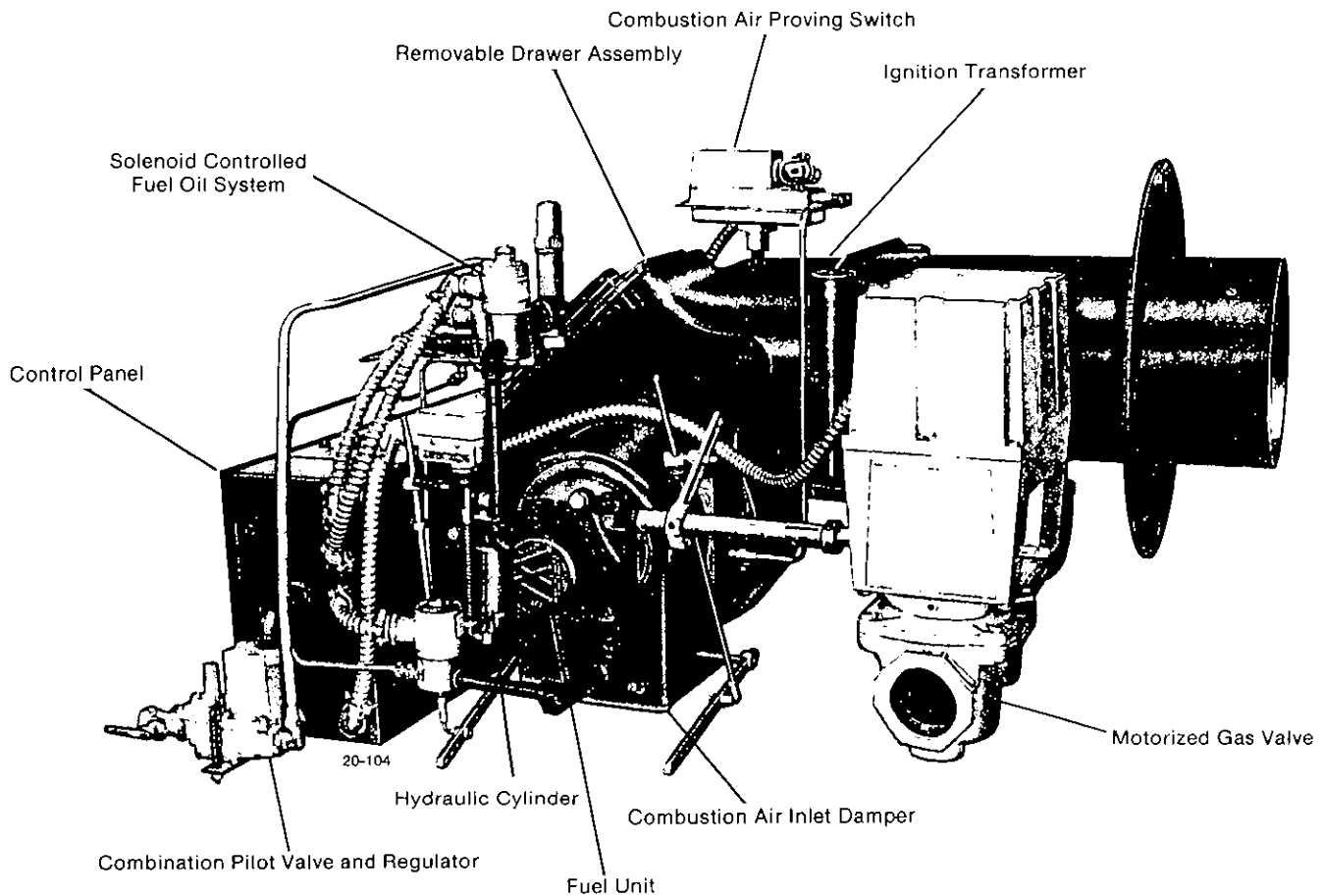


BURNER SIZE	DIMENSIONS (Inches)										
	A	B	C	D	E	F	G	H	I	J	K
14, 17, 20	35-5/8	14-1/4	26-1/4	14-3/8	11-7/8	7	16-1/4	11-1/4	6-1/2	8-1/8	1-1/2
28, 36, 42	36-1/2	12-1/8	37-1/2	23	14-1/2	9	21	15	9	8-5/8	2

Panel box measures 10 x 24 x 6.

NOTE: These dimensions are for reference only. Specifications and dimensions are subject to change without notice. Before installation, obtain a certified print from the factory.

2-134



FPGL 17

GENERAL DESCRIPTION

FPGL series combination gas/light oil burners are designed for forced or natural draft firing and are particularly effective where high heat release is required or where a restricted combustion chamber exists. The burner can be mounted on Scotch, cast iron, or firebox boilers.

FPGL burners, on gas, use a two-stage motorized safety shutoff gas valve which controls input. The combustion air damper is mechanically linked to the actuator on the valve. Gas is introduced into the combustion chamber through a circle of gas jets. A flame retention stabilizer intimately mixes the gas and combustion air resulting in a quiet, efficient, stable operation.

FPGL burners on light oil have a two-stage, solenoid controlled fuel oil system with low fire start and high fire run. Fuel unit pressure is set at 300 psi. Nozzle bypass oil actuates a hydraulic cylinder to open the combustion air damper.

The burner housing is cast aluminum on which the blower, motor, control panel and other related components are mounted. The drawer assembly is removable. Flange mounting is standard.

Listed by Underwriters Laboratory. IRI, FM or other regulatory agency control options are available. Every IC burner is completely assembled, wired, and tested at the factory. Some main gas train components are shipped loose.

CAPACITIES AND SPECIFICATIONS

Model	Max. Input		** Output Boiler H.P. @ 80% Eff.	Blower Motor H.P. 3450 RPM	*Gas Pres- sure	Gas Train Size	Combustion Chamber			Approx. Shipping Weight
	Gas Max. MBH	Oil No. 2 GPH					Length	Width	C.L. Height	
14	1,400	10	33	3/4	4.0	1-1/2	36	15	8	280
17	1,700	12.5	40	3/4	5.0	1-1/2	42	15	8	280
20	2,100	15	50	3/4	6.5	1-1/2	48	16	8	280
28	2,940	21	70	1	5.5	2	56	22	10	375
36	3,600	26	86	2	8.0	2	58	26	11	375
42	4,200	30	100	3	9.0	2	60	28	12	400

*Gas pressure required at train inlet. Based on zero furnace pressure. For total pressure required, add furnace pressure. See IC-987.

**Boiler overall efficiency of 80% estimated. Firing rates based on altitudes to 2000 ft. above sea level.

U.L. STANDARD EQUIPMENT

A. CONTROLS

1. Burner mounted control cabinet
2. 120/1/60 control circuit
3. Flame safeguard D30-5063 (pkg. 87) or R4140M-UV (pkg. 100)
4. Motor relay or starter
5. Panel signal lights (3) Power On, Flame Failure, Main Fuel
6. Combustion air proving switch
7. Ignition transformer

B. GAS SYSTEM

1. Gas shutoff cock (2)
2. Main gas regulator, low pressure
3. Motorized gas valve on F14-20
4. Motorized gas valve with solenoid valve on F28-42
5. High and low gas pressure switches on F28-42

C. PILOT SYSTEM

1. Gas-electric ignition
2. Combination pilot regulator/valve (5 P.S.I.)
3. Shutoff cock

D. OIL SYSTEM

1. Two-stage fuel unit
2. Simplex oil nozzle (2 on F28-42)
3. Solenoid valves (2)
4. Hydraulic oil cylinder actuated air damper

E. OTHER EQUIPMENT

1. Flange mounted motor and fan — 3450 RPM
2. Removable drawer assembly

F. NOTES

1. All main gas line valves and accessories upstream of the main safety shutoff valve on hi-lo burners are shipped loose.
2. All main gas line valves and accessories upstream of the butterfly valve on modulating burners are shipped loose.
3. Upright model optional for low boiler base heights.

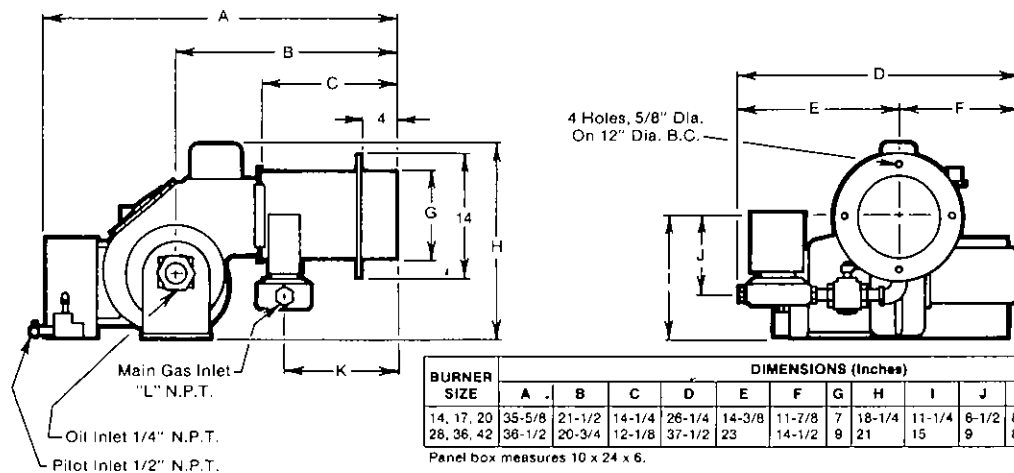
G. OPTIONAL EQUIPMENT

1. Electric modulation with oil metering valve, butterfly gas valve, and

H. ORDERING INFORMATION

1. main gas valve with proof of closure on models FPGL 28 through 42.
 2. Pedestal mounting
 3. Solenoid gas valve (in addition to standard)
 4. N.C. oil solenoid valve, 1/4" (in addition to std.)
 5. Control transformer, 1/2 KVA
 6. Flame safeguard, PBC2-5021 or PBC5-5022
 7. Separately driven oil pump set (attached to burner)
 8. Other accessories per IC-444
1. Blower motor voltage, phase and cycle
 2. Control circuit voltage (120/60/1 standard)
 3. Burner model and size
 4. Flame safeguard control
 5. Special code and/or insurance requirements
 6. Available gas pressure

GENERAL DIMENSIONS



BURNER SIZE	DIMENSIONS (Inches)											
	A	B	C	D	E	F	G	H	I	J	K	L
14, 17, 20	35-5/8	21-1/2	14-1/4	26-1/4	14-3/8	11-7/8	7	18-1/4	11-1/4	6-1/2	8-1/8	1-1/2
28, 36, 42	36-1/2	20-3/4	12-1/8	37-1/2	23	14-1/2	9	21	15	9	8-5/8	2

Panel box measures 10 x 24 x 6.

NOTE: These dimensions are for reference only. Specifications and dimensions are subject to change without notice. Before installation, obtain a certified print from the factory.

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IC INDUSTRIAL COMBUSTION
DIVISION OF AQUA-CHEM, INC.

351-21st Street • Monroe, Wisconsin 53568-2798



FP/Series

PRODUCT INFORMATION

MODEL: FPG

BURNER SIZES: 5, 7, 8, 9, 11, 12

GENERAL DESCRIPTION

FPG series gas burners are designed for forced or natural draft firing and are particularly effective where high heat release is required or where a restricted combustion chamber exists. The burner can be mounted on Scotch, cast iron, or firebox boilers.

FPG gas burners use a two-stage motorized safety shutoff gas valve which controls input. The combustion air damper is mechanically linked to the actuator on the valve. Gas is introduced into the combustion chamber through a circle of gas jets. A flame retention stabilizer intimately mixes the gas and combustion air resulting in a quiet, efficient, stable operation.

The burner housing is fabricated steel on which the blower, motor, control panel and other related components are mounted. The drawer assembly is removable. Flange mounting is standard.

Listed by Underwriters Laboratory, IRI, FM or other regulatory agency control options are available. Every IC burner is completely assembled, wired, and tested at the factory. Some main gas train components are shipped loose.

U.L. STANDARD EQUIPMENT

A. CONTROLS

1. Burner mounted control cabinet
2. 120/1/60 control circuit
3. Flame safeguard control: UVM5 (pkg. 137) or R7795-UV (pkg. 139)
4. Motor relay
5. Panel signal lights (3) Power On, Main Fuel, Flame Failure
6. Low-High-Off with low fire start
7. Combustion air proving switch
8. Ignition transformer

B. GAS SYSTEM

1. Gas shutoff cock (2)
2. Main gas regulator, low pressure
3. 1" Gas valve motorized

C. PILOT SYSTEM

1. Gas-electric ignition
2. Separate pilot regulator
3. Pilot solenoid
4. Shutoff cock

D. OTHER EQUIPMENT

1. Flange mounted motor and fan—3450 RPM
2. Removable drawer assembly
3. Mounting flange (fixed at 2")

E. OPTIONAL EQUIPMENT

1. Electric modulation, butterfly and diaphragm valve
2. Solenoid gas valve (in addition to standard)
3. Control transformer, 1/2 KVA
4. Flame safeguard, lead sulphide
5. Other accessories per IC-444

F. NOTES

1. All main gas line valves and accessories upstream of the main safety shutoff valve on High-Low modulation burners are shipped loose.
2. All main gas line valves and accessories upstream of the butterfly valve on modulating burners are shipped loose.
3. Upright model for low boiler base heights.

G. ORDERING INFORMATION

1. Blower motor voltage, phase and cycle
2. Control circuit voltage (120/1/60 standard)
3. Specify burner model and actual firing rate
4. Flame safeguard control
5. Special code and/or insurance requirements
6. Available gas pressure

1 Unit only

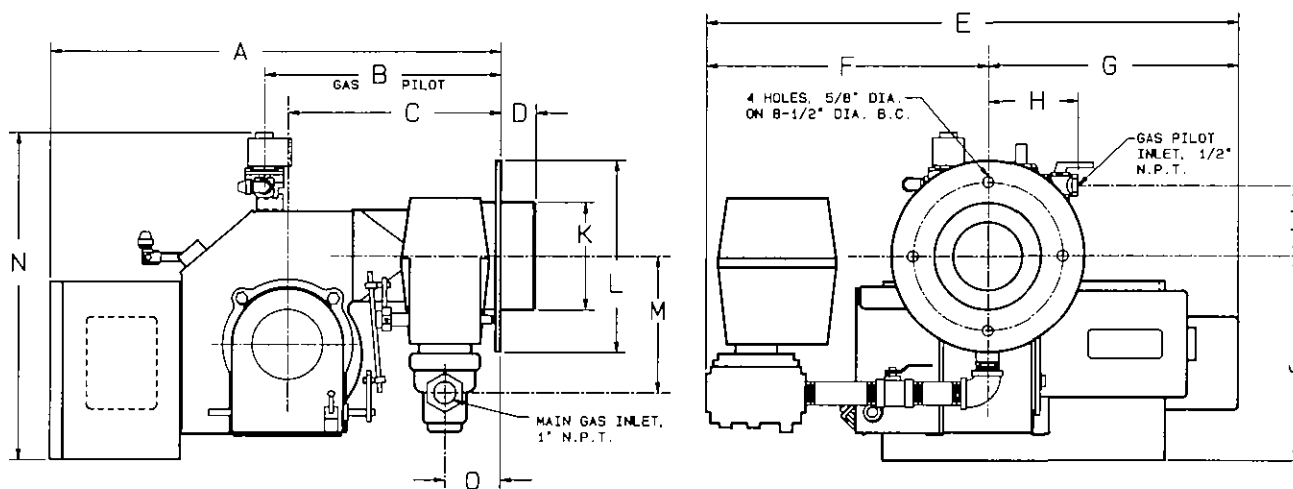
CAPACITIES AND SPECIFICATIONS

Model	Max. Input	** Output	Blower Motor H.P. 3450 RPM	*Gas Pressure	Gas Train Size	Combustion Chamber			Approx. Shipping Weight
	Gas Max. MBH	Boiler H.P. @ 80% Eff.				Length	Width	C.L. Height	
→ 5	550	13	3/4	4.0	1	21	12	6	200
7	700	17	3/4	5.0	1	23	12	6	200
8	800	19	3/4	6.5	1	26	12	6	200
9	900	21	3/4	5.5	1	29	14	7	200
11	1,100	26	3/4	8.0	1	31	14	7	200
12	1,200	29	3/4	9.0	1	34	15	8	200

*Gas pressure required at train inlet. Based on zero furnace pressure. For total pressure required, add furnace pressure. See IC-1106.

**Boiler overall efficiency of 80% estimated. Firing rates based on altitudes to 2000 ft. above sea level and +.75" wc furnace pressure. For firing rates at higher altitudes or higher furnace pressures, consult factory.

GENERAL DIMENSIONS



BURNER SIZE	DIMENSIONS, (INCHES)														
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
FPG-SERIES 5 & 7	25-7/8	12-3/8	9-7/8	2	29-3/4	18	13-3/4	4-1/2	4-3/8	11-5/8	6-1/8	11	8	18-5/8	3-1/8
FPG-SERIES 8, 9, 11, 12	27-1/4	12-3/8	10-1/4	2	30-1/4	16	14-1/4	4-1/2	4-9/16	12-1/4	6-1/8	11	8	20-1/8	3-1/8

NOTES: 1.) FPG- 5 THRU 12 PANEL BOX DIMS., 10" X 16" X 7-3/8". DOOR SWING RADIUS, 16-1/4"; HINGED LEFT SIDE.

2.) ALL DIMENSIONS ARE FOR REFERENCE ONLY. SPECIFICATIONS AND DIMENSIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. BEFORE INSTALLATION, OBTAIN A CERTIFIED PRINT FROM THE FACTORY.

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