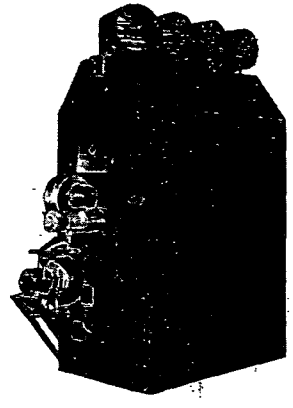
# Arthur A. Olson & Company

Broad and Court Streets — Canfield, Ohio



### Manufacturers of Direct Fired Heaters

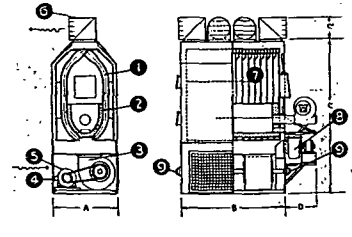
A completely automatic direct-fired unit heater. Olson heaters operate on gas, oil, dual gas-oil or coal. These units may be hung, suspended horizontal, or inverted. All heaters can be adapted to filtering, humidifying and air conditioning. Use of standard accessories and easy access to bearings and other vital parts simplify maintenance.

Also process and make-up air applications.

**Engineering Data—Gas, Oil, or Dual Gas-Oil Heaters.**

| Heater Model Number | BTU/HR Output Capacity | CFM Blowing Fans | General Dimensions | | | | | No. of Blowing Fans | Motor HP Blowing Fans | Stack Dia. | No. of Nozzle Outlets |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | A | B | C | C1 | D | | | | |
| -300 | 300,000 | 3,500 | 3'- 1" | 2'-11" | 7'-10" | 1'-1" | 1'- 6" | 1 | 1 | 8" | 2 |
| -400 | 400,000 | 4,500 | 3'- 1" | 3'- 7" | 7'-10" | 1'-1" | 1'- 6" | 1 | 1½ | 8" | 3 |
| -500 | 500,000 | 5,500 | 3'- 1" | 4'- 3" | 7'- 3" | 1'-3" | 1'- 7" | 2 | 2 | 8" | 3 |
| -600 | 600,000 | 7,000 | 3'- 1" | 4'-11" | 7'- 3" | 1'-3" | 1'- 7" | 2 | 3 | 8" | 3 |
| -750 | 750,000 | 8,500 | 3'- 8" | 4'-11" | 8'- 4" | 1'-3" | 1'-11" | 2 | 5 | 10" | 3 |
| -1000 | 1,000,000 | 11,000 | 3'- 8" | 5'-11" | 8'- 9" | 1'-3" | 1'-11" | 2 | 5 | 10" | 4 |
| -1250 | 1,250,000 | 14,000 | 4'- 4" | 6'-11" | 9'- 9" | 1'-5" | 1'-11" | 2 | 7½ | 10" | 4 |
| -1500 | 1,500,000 | 17,000 | 4'- 4" | 8'- 0" | 9'- 9" | 1'-5" | 2'- 0" | 2 | 10 | 12" | 5 |
| -1750 | 1,750,000 | 20,000 | 4'-10" | 8'- 0" | 10'- 9" | 1'-5" | 2'- 1" | 2 | 15 | 12" | 5 |
| -2000 | 2,000,000 | 22,000 | 4'-10" | 9'- 0" | 10'- 9" | 1'-5" | 2'- 1" | 2 | 15 | 12" | 5 |

1. Standard 10 Gage Boiler Tube Heat Transfer Surface.
2. Refractory or Stainless Steel Combustion Chamber.
3. Heavy Duty Fans and Shaft.
4. Inlet Screens or Frame for Filter Box.
5. Motor Accessible from Front.
6. Adjustable, Deflecting Outlets.
7. Four Pass Gas Travel—Counter Current.
8. Separate Induced Draft Fan.
9. Bearings Outside Heater at End of Shaft.



Write for complete data on stoker fired units and large central systems.





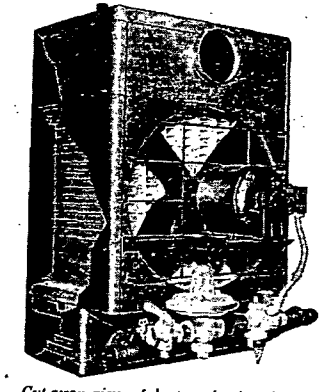
# Automatic Gas Equipment Company

Brushton and Thomas St., Pittsburgh 21, Pa.

**Manufacturers of Pittsburgh Gas Unit Heaters**

Cast iron is considered to be the best material to withstand the corrosive effects of the products from combustion of gases. For this reason, both the heat exchanger and combustion chamber in a Pittsburgh Gas Unit Heater are made of cast iron. Furthermore, they are cast in one piece and the extended heating surface fins on the heat exchanger are cast integral.

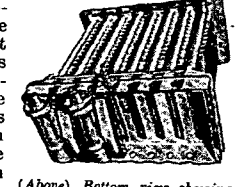
Pittsburgh Gas Unit Heaters have been designed to consume exactly the right amount of air to support complete combustion but without permitting an excess of air to lower heating efficiency. This is accomplished by means of a built in draft hood which absorbs all excessive chimney action and thereby conserves heat. The heater does not depend upon forced draft from the fan for either the primary or secondary air supply. For this reason there is no possibility of variation in the air supply to the burners resulting from changes in fan speed or louver adjustment. By the use of adjustable horizontal louvers, warm air can be directed to any desired level.



*Cut-away view of heater, showing the cast iron heat exchanger in place.*

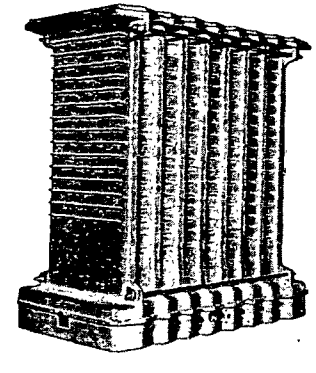
### Safety Features

A tested and proved safety pilot is used on these heaters to automatically turn off the gas if the pilot light goes out or if it burns too low to insure positive ignition. The draft diverter is absolute protection against any possible down drafts through the chimney. Write for folder containing complete details, including installation measurements.



*(Above) Bottom view showing burner assembly (several burners have been removed).*

*(Right) Heat exchanger and combustion chamber.*



Approved by *American Gas Association and Underwriter's Laboratories.*

**SIZES AND CAPACITIES (also made in five sizes in Blower Type Units)**

| Unit No. | Input B.T.U. Per Hour | Output—AGA B.T.U. Per Hour | Sq. Ft. E.D.R. | Air Del. C.F.M. | Motor H.P. | Speed R.P.M. | Approx. Wts. |
|---|---|---|---|---|---|---|---|
| 215 C | 215,000 | 172,000 | 744 | 3500 | ½ | 1140 | 525 |
| 175 C | 175,000 | 140,000 | 605 | 2900 | ¼ | 1140 | 475 |
| 160 C | 160,000 | 128,000 | 553 | 2600 | ¼ | 860 | 450 |
| 140 C | 140,000 | 112,000 | 484 | 2320 | ⅓ | 860 | 400 |
| 110 C | 110,000 | 88,000 | 381 | 1820 | ⅓ | 850 | 350 |
| 85 C | 85,000 | 68,000 | 294 | 1350 | ⅛ | 1000 | 300 |