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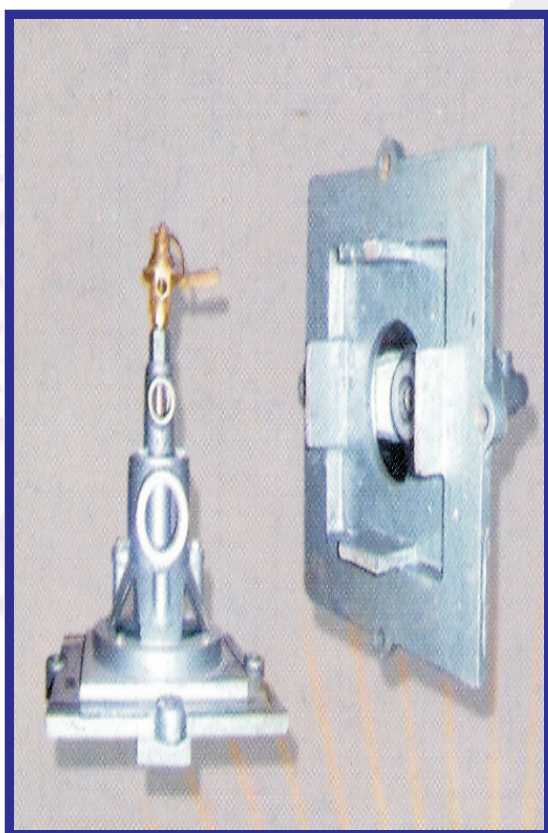


**Axis Thermal**  
ENGINEERING COMPANY

## FURNACE OIL BURNER - 2562

COMBUSTION SYSTEM

2562 Oil Burners are designed to give maintenance-free operation using heavy oil, light oil, or gas. There are no "Superflutities" on this burner—it has a heavy cast iron body of clean design that avoids clogging even when used on tough jobs such as forge furnaces fired with heavy oil.



### Burner Design Features

The total air capacity of the burners is listed under list I for single blower supplying at 20"wg combustion air and 24"wg atomizing air for light oil operation and 32"wg combustion air and 38"wg atomizing air for heavy furnace oil operation. Use list II and III when selecting separate blowers for combustion and atomizing air. For sizing blowers or burners at other pressures, add figures from the List II and III to get total capacity. Capacities shown in list II is for operation on gas with the air curtain closed. On oil operation these capacities are increased 20% the additional air supplied through the atomizing air connection. When burning either gas or oil with the shutter open, burner capacities may be doubled if furnace conditions assure sufficient secondary air.

### Burner' Working Nature

Oil with a viscosity of 70 to 90 seconds Redwood I and a pressure between 25 and 30 psi, should be supplied to an Air/Oil ratio controller which will deliver oil to the burner at a pressure proportional to the main air pressure, thus maintaining the correct air/oil ration at all firing rates. The atomizing air pressure at the burner may be 30"wg when using distillate oil, 44"wg when using heavy oil.

The 2562 burners can operate on any gas of 2000 to 12800 kcal per cu.ft heating value. Switching from gas to oil operation or oil to gas may be done quickly without furnace shutdown, simply by turning off one fuel valve and opening the other.

### Burner Construction

The heavy cast iron body can stand much abuse. All internal parts of the 2562 burner are machined. The smooth surfaces stay free of oil deposits and dirt, thus greatly minimizing the need for cleaning, oil is, put though the burner in a straight passage having a large cross-sectional area permitting visual inspection for clogging and easy cleanout if necessary.

The precise control oil valve is a non-plugging V-port oil valve which produces small and uniform flow rate changes throughout the 180° sweep of the control handle.

LIST I. AIR CAPACITIES in CFH				
Burner Designation		2562-3A	2562-4A	2562-5A
Air Pressures at Burner	Combustion 24"wg; Atomising 28"wg	4735	5935	10630
	Combustion 40"wg; Atomising 44"wg	6320	7670	13640

LIST II. COMBUSTION AIR CAPACITIES in CFH													
Burner Designation	Air pressure at Burner in inches of wg												
	1	2	3	5	7	9	10	14	17	21	24	28	35
2562-3A	575	1150	1625	1900	2300	2575	2815	3250	3635	3800	4300	4600	5150
2562-4A	725	1450	2050	2500	2900	3250	3525	4100	4580	5000	5420	5800	6500
2562-5A	1156	2312	3270	3270	4625	5175	5660	6540	7300	8000	8650	9250	10350

LIST III. ATOMISING AIR CAPACITIES in CFH						
Burner Designation	Air pressure at Burner in wg					
	24	28	31	35	38	41
2562-3A	935	1000	1060	1120	1170	1220
2562-4A	935	1000	1060	1120	1170	1220
2562-5A	2630	2810	2980	3150	3290	3430

### OTHER PRODUCTS...

- ✓ Excess Air Gas Burner 1422
- ✓ Fire All Gas Burner 1514
- ✓ High Velocity Gas Burner 1435
- ✓ Gas Burner 1562
- ✓ HF Burner 001
- ✓ Excess Air Light Oil Burner 2422
- ✓ Fire All Heavy Oil Burner 2514
- ✓ High Velocity Oil Burner 2435
- ✓ HF Burner 002
- ✓ Excess Air fuel/Gas Burner 3422
- ✓ Fire All Dual Fuel Burner 3514
- ✓ Dual Fuel High Velocity Burner 3435
- ✓ Dual Fuel Burner 3562
- ✓ HF Burner 003

**NOTE:** Dimensions shown are subject to change. please obtain certified prints from Axis Thermal Engineering Company. If space limitations or other considerations make exact dimension(s) critical.

**WARNING:** Situations dangerous to personnel and property can develop from incorrect operation of combustion equipment. Axis Thermal urges compliance with National Safety Standards and Insurance Underwriters recommendations, and care in operation.

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