

BURNERS

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**SECTION J
BURNERS**

Spread Head Straight Shot Flame Burners



S4V050, S4V075, S5 & S8



Spread head straight shot flame burners are used for large heaters, side fired or roasting ovens, preheating small driers, small horizontal boilers, etc.

When ordering burners, it is important that you specify the type of gas to be used as well as the gas pressure (s) at which the burners may be operated. For manufactured gas, state the BTU quality and specific gravity.

| AIR SHUTTER | SPUD | VENTURI | BURNER |
|-------------|-------|---------|--------|
| AS200 | SP12L | V050 | S4V050 |
| AS237 | SP25L | V075 | S4V075 |
| AS300 | SP50L | V150 | S5 |
| AS412 | SP50L | V200 | S8 |

| BURNER BTU CAPACITIES | | | | | | | | | | | | | MODEL NUMBER | LIST PRICES |
|-----------------------|----------|---------|---------|---------|---------|-------------|---------|---------|---------|---------|---------|-----------|--------------|-------------|
| LP-GAS | | | | | | NATURAL GAS | | | | | | | | |
| ORIFICE | 11" W.C. | 1 PSI | 2 PSI | 5 PSI | 10 PSI | 20 PSI | ORIFICE | 7" W.C. | 1 PSI | 2 PSI | 5 PSI | 10 PSI | | |
| 62 | 10,100 | 16,300 | 23,300 | 36,900 | 51,600 | 73,800 | 48 | 14,300 | 37,100 | 52,300 | — | — | S4V050 | 132.00 |
| | | | | | | | 47 | — | — | — | 93,800 | 133,800 | | |
| 55 | 18,800 | 30,700 | 43,000 | 67,600 | 97,100 | 136,500 | 43 | 19,600 | 53,100 | 74,900 | — | — | S4V075 | 152.00 |
| | | | | | | | 42 | — | — | — | 132,300 | 188,300 | | |
| 37 | 75,500 | 123,000 | 174,600 | 275,500 | 391,000 | 552,200 | 24 | 57,000 | 155,600 | 219,600 | — | — | S5 | 214.00 |
| | | | | | | | 15 | — | — | — | 487,300 | 694,600 | | |
| 26 | 151,000 | 252,100 | 356,700 | 565,800 | 806,600 | 1,129,000 | 12 | 82,200 | 240,000 | 339,600 | — | — | S8 | 328.00 |
| | | | | | | | 1 | — | — | — | 785,500 | 1,107,000 | | |

Spread Head Side Entry Flame Burners

S4SV050, S4SV075



S5S, S8S, S12S



Side head side entry flame burners are used for intermediate sized pot heaters, bottom fired kettles and vats, air heaters, driers, process stills, crab cookers, etc.

The larger sized S12S burners are also used for lead melters, boilers and very large driers.

When ordering burners, it is important that you specify the type of gas to be used as well as the gas pressure (s) at which the burners may be operated. For manufactured gas, state the BTU quality and specific gravity.

| AIR SHUTTER | SPUD | VENTURI | BURNER |
|-------------|-------|---------|---------|
| AS200 | SP12L | V050 | S4SV050 |
| AS237 | SP25L | V075 | S4SV075 |
| AS300 | SP50L | V150 | S5S |
| AS412 | SP50L | V200 | S8S |
| AS525 | SP75L | V300 | S12S |

| BURNER BTU CAPACITIES | | | | | | | | | | | | | MODEL NUMBER | LIST PRICES |
|-----------------------|----------|---------|---------|-----------|-----------|-------------|---------|---------|---------|-----------|-----------|-----------|--------------|-------------|
| LP-GAS | | | | | | NATURAL GAS | | | | | | | | |
| ORIFICE | 11" W.C. | 1 PSI | 2 PSI | 5 PSI | 10 PSI | 20 PSI | ORIFICE | 7" W.C. | 1 PSI | 2 PSI | 5 PSI | 10 PSI | | |
| 62 | 10,100 | 16,300 | 23,300 | 36,900 | 51,600 | 73,800 | 48 | 14,300 | 37,100 | 52,300 | — | — | S4SV050 | 140.00 |
| | | | | | | | 47 | — | — | — | 93,800 | 133,800 | | |
| 55 | 18,800 | 30,700 | 43,000 | 67,600 | 97,100 | 136,500 | 43 | 19,600 | 53,100 | 74,900 | — | — | S4SV075 | 148.00 |
| | | | | | | | 42 | — | — | — | 132,300 | 188,300 | | |
| 37 | 75,500 | 123,000 | 174,600 | 275,500 | 391,000 | 552,200 | 24 | 57,000 | 155,600 | 219,600 | — | — | S5S | 202.00 |
| | | | | | | | 15 | — | — | — | 487,300 | 694,600 | | |
| 26 | 151,000 | 252,100 | 356,700 | 565,800 | 806,600 | 1,129,000 | 12 | 82,200 | 240,000 | 339,600 | — | — | S8S | 424.00 |
| | | | | | | | 1 | — | — | — | 785,500 | 1,107,000 | | |
| 7/32 | 340,000 | 626,000 | 883,100 | 1,339,700 | 1,974,100 | 2,798,200 | 3/8" | 320,000 | 945,500 | 1,338,300 | — | — | S12S | 614.00 |
| | | | | | | | 7/16" | — | — | — | 2,880,200 | 4,073,100 | | |

Spread Head Side Entry Flame Burners Two Venturis



S8S2V & S12S2V



Spread head side entry flame burners with two venturis are used for bottom fired kettles and vats, air heaters, large process stills, crab cookers, coil heaters, lead melters, boilers, large driers, etc. These burners are recommended for applications that require more heat than the one venturi burner can provide.

When ordering burners, it is important that you specify the type of gas to be used as well as the gas pressure (s) at which the burners may be operated. For manufactured gas, state the BTU quality and specific gravity.

| AIR SHUTTER | SPUD | VENTURI | BURNER |
|-------------|-------|---------|--------|
| AS412 | SP50L | V200 | S8S2V |
| AS525 | SP75L | V300 | S12S2V |

| BURNER BTU CAPACITIES | | | | | | | | | | | | | MODEL NUMBER | LIST PRICES |
|-----------------------|----------|-----------|-----------|-----------|-----------|-------------|---------|---------|-----------|-----------|-----------|-----------|--------------|-------------|
| LP-GAS | | | | | | NATURAL GAS | | | | | | | | |
| ORIFICE | 11" W.C. | 1 PSI | 2 PSI | 5 PSI | 10 PSI | 20 PSI | ORIFICE | 7" W.C. | 1 PSI | 2 PSI | 5 PSI | 10 PSI | | |
| 2 @ 30 | 230,600 | 376,300 | 533,800 | 846,200 | 1,205,400 | 1,687,500 | 2 @ 10 | 183,100 | 504,200 | 712,800 | 1,127,300 | 1,592,800 | S8S2V | 838.00 |
| 2 @ 7/32 | 340,000 | 1,089,700 | 1,539,900 | 2,447,700 | 3,447,700 | 4,883,100 | 2 @ 38" | 640,000 | 1,891,000 | 2,676,600 | 4,247,600 | 5,993,200 | S12S2V | 1282.00 |

Spread Head Side Entry Flame Burners for Air Streams

S8STO, S12SO



S8ST2VO, S12S2VO



These reported spread head side entry flame burners are designed to be mounted in an air stream. These burners are used for nut driers, grain driers, aggregated driers, etc.

When ordering burners, it is important that you specify the type of gas to be used as well as the gas pressure (s) at which the burners may be operated. For manufactured gas, state the BTU quality and specific gravity.

| AIR SHUTTER | SPUD | VENTURI | BURNER |
|-------------|-------|---------|---------|
| AS412 | SP50L | V200 | S8SO |
| AS525 | SP75L | V300 | S12SO |
| AS412 | SP50L | V200 | S8S2VO |
| AS525 | SP75L | V300 | S12S2VO |

| BURNER BTU CAPACITIES | | | | | | | | | | | | | MODEL NUMBER | LIST PRICES |
|-----------------------|----------|-----------|-----------|-----------|-----------|-------------|---------|---------|-----------|-----------|-----------|-----------|--------------|-------------|
| LP-GAS | | | | | | NATURAL GAS | | | | | | | | |
| ORIFICE | 11" W.C. | 1 PSI | 2 PSI | 5 PSI | 10 PSI | 20 PSI | ORIFICE | 7" W.C. | 1 PSI | 2 PSI | 5 PSI | 10 PSI | | |
| 26 | 151,000 | 252,100 | 356,700 | 565,800 | 805,600 | 1,129,000 | 12 | 82,200 | 240,000 | 339,600 | — | — | S8SO | 476.00 |
| | | | | | | | 1 | — | — | — | 785,500 | 1,107,000 | | |
| 15/64" | 340,000 | 626,000 | 838,100 | 1,339,700 | 1,974,100 | 2,798,300 | 3/8" | 320,000 | 945,500 | 1,338,300 | — | — | S12SO | 720.00 |
| | | | | | | | 7/16" | — | — | — | 2,880,200 | 4,073,100 | | |
| 2 @ 30 | 230,600 | 376,300 | 533,800 | 846,200 | 1,205,400 | 1,687,500 | 2 @ 10 | 183,100 | 504,200 | 712,800 | 1,127,300 | 1,592,800 | S8S2VO | 762.00 |
| 2 @ 7/32 | 340,000 | 1,089,700 | 1,539,900 | 2,447,700 | 3,447,700 | 4,883,100 | 2 @ 38" | 640,000 | 1,891,000 | 2,676,600 | 4,247,600 | 5,993,200 | S12S2VO | 1390.00 |