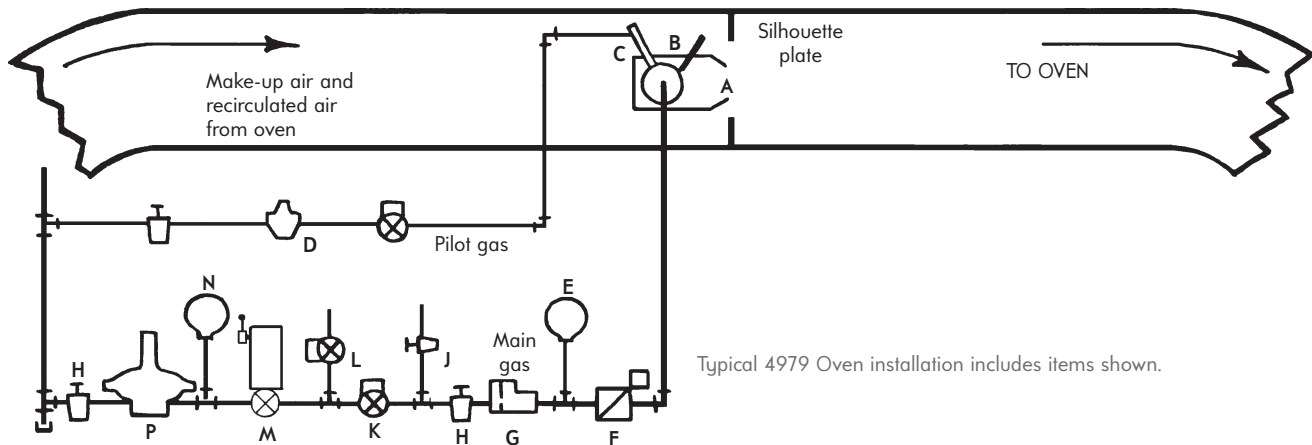


HOW TO ORDER

1. Calculate required heat input. *Example:* See the sample problem on a paint baking oven, North American Reprint 94, which requires 2 030 000 Btu/h HHV gross input (2030 cfm natural gas), 788 scfm make-up air, and 39 200 scfm recirculated. For this example, assume the available gas pressure is 1½ psi.
2. Select individual burner sections to obtain this rating from Table 2. Each lineal foot of burner is rated at 1 000 000 Btu/h HHV. Include enough feed connections to supply rated volume of gas--**a 2" connection supplies 3 feet of burner; a 2½" connection supplies 5 feet of burner**, but should be centered to assure proper gas distribution. *Example:* The next largest burner input is 2 500 000 Btu/hr, which could be obtained by using one 4979-6-B and two 4979-12's (one on each side of the -6-B). This arrangement would give a good temperature distribution in a rectangular duct.
3. Select 8522 Fast Engineered™ fluid control system.
4. Select ignition method--either gas pilot (Assembly 4-5257-1) or direct spark electrode (Part No. 4-3681-1).
5. Select endplates--either for gas connection or blank. *Example:* Two 4979-SEP endplates. (From Table 2.)

CURTAIN SIZING PROCEDURE

1. Total burner area perpendicular to air flow (0.5 sq ft per lineal foot) = 0.5 × ft of burner. *Example:* 0.5 × 2.5 = 1.25 sq ft.
2. Total open area required at burner = (scfm recirculated + scfm make-up) ÷ 3500 fpm. *Example:* (39 200 + 788) ÷ 3500 = 11.4 sq ft.
3. Curtain opening = total burner area (1) + open area (2). *Example:* 11.4 + 1.2 = 12.6 sq ft.



Typical 4979 Oven installation includes items shown.

- | | |
|-------------------------------|------------------------------------------|
| A - 4979 Zephyr Burner | H - Shutoff Cock |
| B - Flame Detector | J - Test Cock |
| C - Pilot Adjusting Cock | K - Block Valve |
| D - Pilot Accessories | L - Vent Valve |
| E - High Gas Pressure Switch | M - 1518 or 1519 Automatic Shutoff Valve |
| F - Gas Control Valve & Motor | N - Low Gas Pressure Switch |
| G - Metering Orifice | P - Main Gas Pressure Regulator |