

The Carnes Model AVDA, dual inlet VAV unit, contains two low pressure drop, high velocity throttling valves. Hot and cold duct valves are independently controlled. Pressure independent reset constant volume controllers accurately control the hot and cold duct air flows.

A common thermostat controls the individual reset constant volume controllers. Selection of proper controller spring ranges and pneumatic devices allows sequences of operation from constant discharge volume to no mixing.

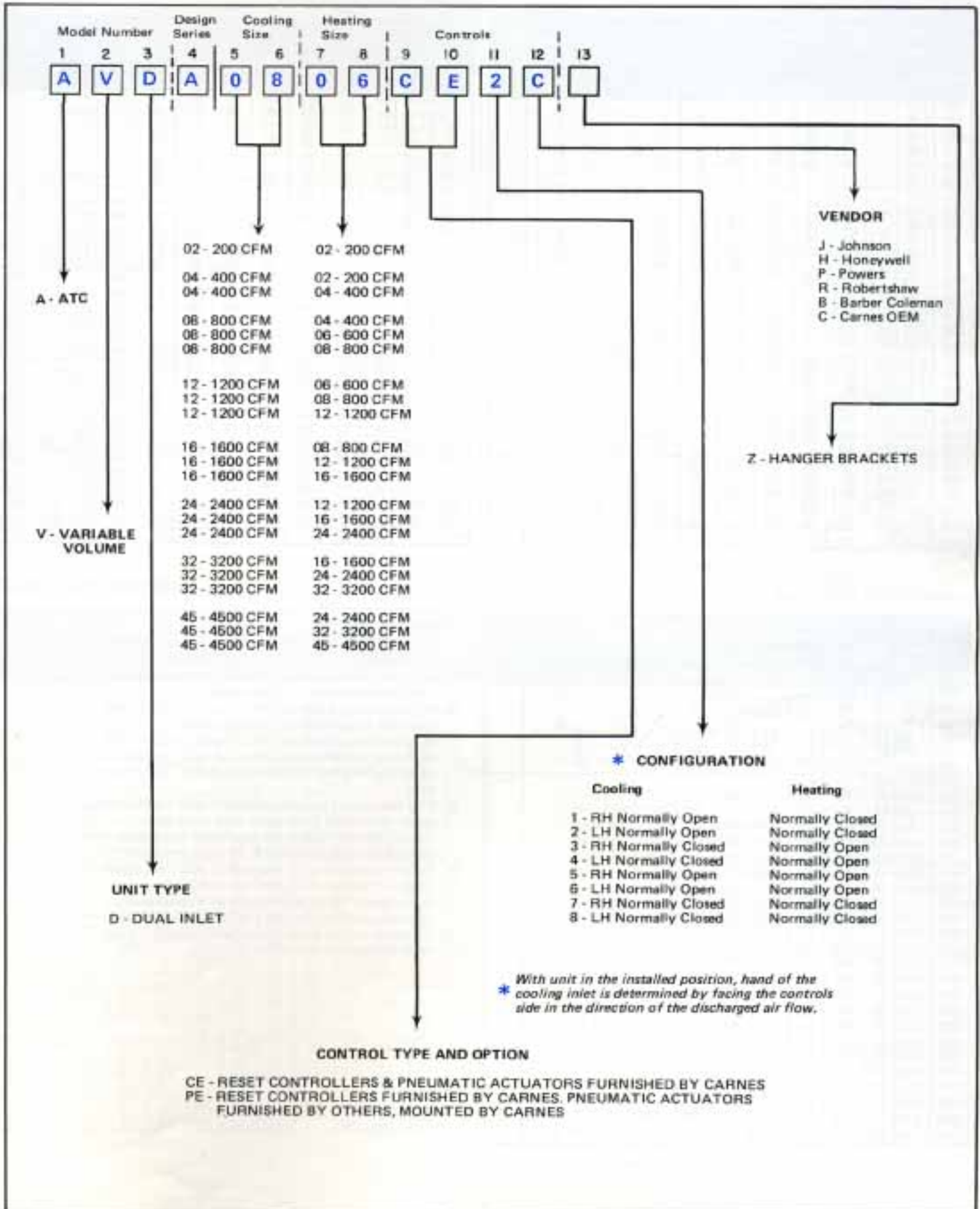
Hot and cold throttling valves can be factory set for normally open or normally closed configurations, compatible with direct or reverse acting thermostats.

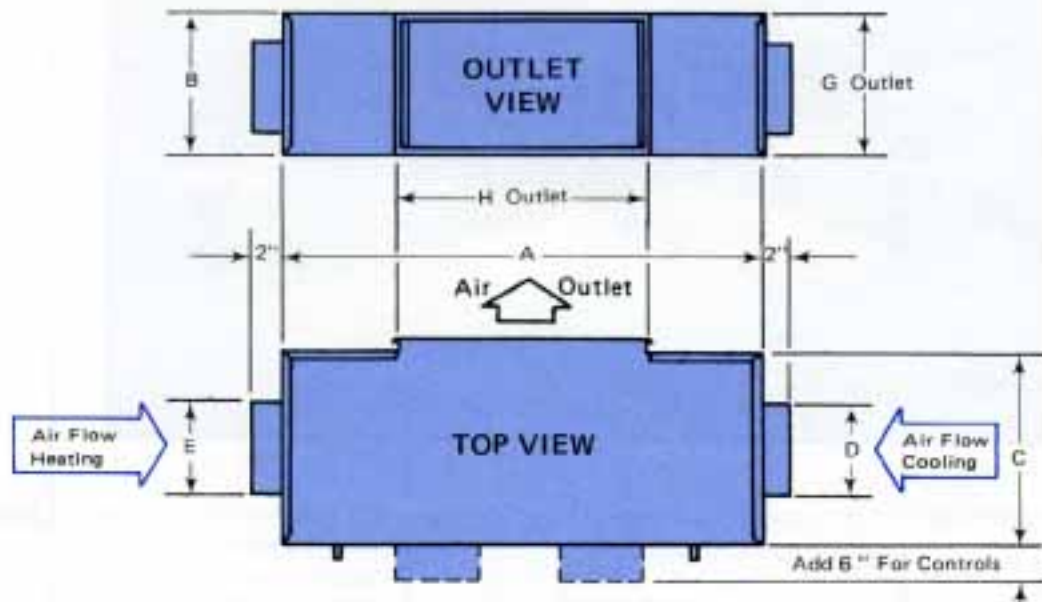
A wide variety of available control sequences makes the Carnes dual inlet VAV unit adaptable to the most energy saving system design.

Other Features Include:

- Air flow capacities to 4,500 CFM.
- Low sound levels.
- Linear valve characteristics assure stable control conditions.
- Thermally and acoustically insulated casing.
- Hot and cold throttling valves are independently controlled.
- Excellent hot and cold airstream mixing effectiveness assures constant temperature at unit discharge when air mixing is required.
- Pressure independent reset constant volume controllers accurately control hot and cold air flows.
- Open-end discharge provided with S and drive connection for easy installation.

Model Numbering System—AVDA Externally Powered





RIGHT HAND COOLING SIDE CONFIGURATION SHOWN

| Unit Size | MAX. | | A (inches) | B (inches) | C (inches) | D (inches) | E (inches) | S & Drive Outlet | |
|-------------------------|------|----------------------|---------------|---------------|---------------|---------------|---------------------|------------------|----|
| | Clg. | CFM Htg. | | | | | | G | H |
| 02 02 | 200 | 200 | 41 | 8 | 13 | 5 | 5 | 8 | 13 |
| 04 02 04 04 | 400 | 200 400 | 41 | 8 | 13 | 6 | 5 6 | 8 | 13 |
| 06 02 06 04 06 06 | 600 | 200 400 600 | 47 | 10 | 14 | 7 | 5 6 7 | 10 | 14 |
| 08 04 08 06 08 08 | 800 | 400 600 800 | 47 | 10 | 17 | 8 | 6 7 8 | 10 | 17 |
| 12 06 12 08 12 12 | 1200 | 600 800 1200 | 47 | 12 | 20 | 10 | 7 8 10 | 12 | 20 |
| 16 08 16 12 16 16 | 1600 | 800 1200 1600 | 54 | 14 | 22 | 12 | 8 10 12 | 14 | 22 |
| 24 12 24 16 24 24 | 2400 | 1200 1600 2400 | 60 | 16 | 26 | 14 | 10 12 14 | 16 | 26 |
| 32 16 32 24 32 32 | 3200 | 1600 2400 3200 | 66 | 18 | 32 | 16 | 12 14 16 | 18 | 32 |
| 45 24 45 32 45 45 | 4500 | 2400 3200 4500 | 66 | 18 | 32 | 18 x 16 | 14 16 18 x 16 | 18 | 32 |