

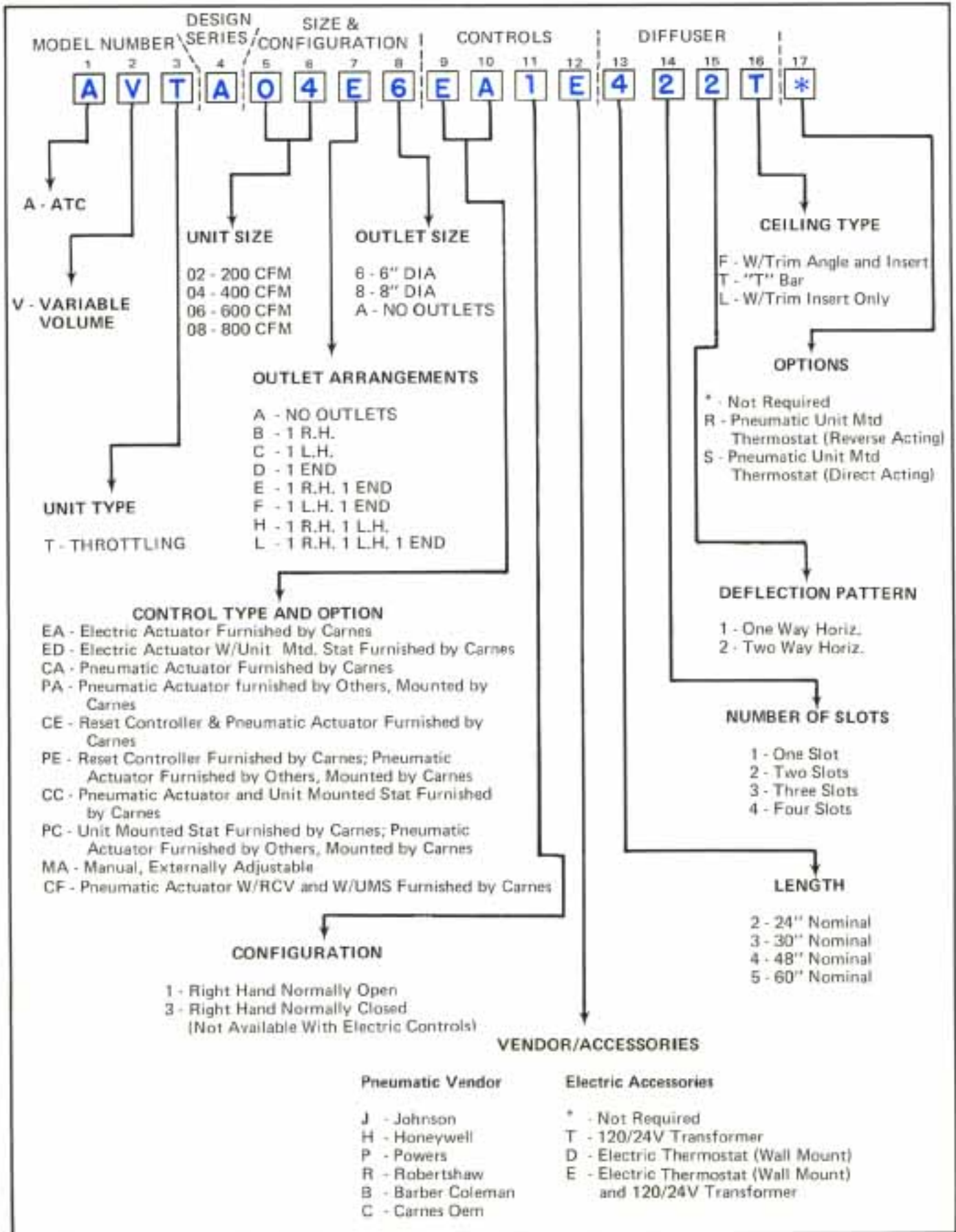
The Carnes Model AVTA is basically the AVCA throttling valve. A slot diffuser and balancing damper are integral with the unit eliminating the cost of ducting to one diffuser. The slot diffuser is generally accepted as the best diffuser choice for VAV applications.

By use of the patented throttling valve, this unit offers low pressure drop, low sound levels, and linear valve characteristics which create stable control conditions within the conditioned space.

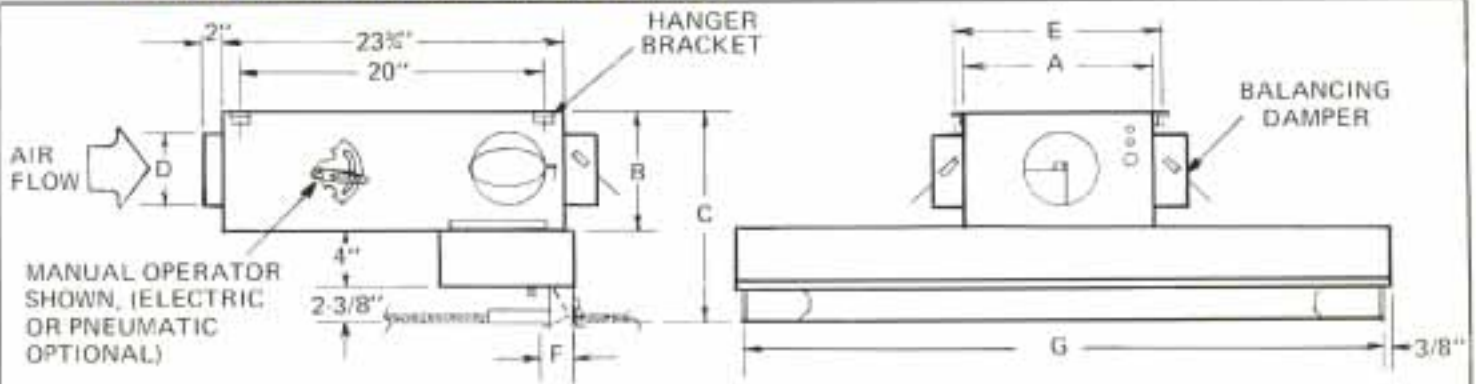
Other features include:

- Air flow capacities to 800 CFM.
- Pneumatic, electric, or manual damper control.
- Thermally and acoustically insulated casing.
- Slot diffuser — Choice of 1-4 slots; choice of 2-5 foot lengths; choice of 1 or 2 way throw.
- Suitable for T-bar and flush ceilings.
- As an option, unit mounted pneumatic or electric aspirating thermostat with adjustable set point through diffuser slots.
- Multi-discharge units have round or elliptical outlet connections with integral balancing dampers.
- Air flow sensor at inlet of unit.
- Hanger brackets for easy mounting characteristics.

Model Numbering System — AVTA Externally Powered



1-WAY BLOW INTEGRAL SLOT DIFFUSER



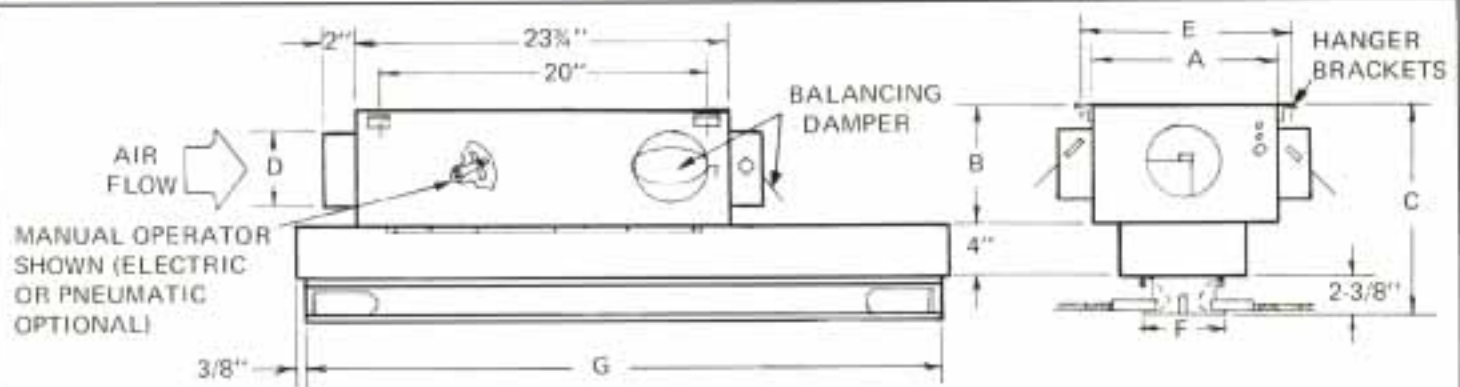
| Unit Size | CFM | A | B | C | D | E | Diffuser | Nominal CFM | F | G | OUTLET ARRANGEMENT TOP VIEW | | | |
|-----------|-----|----|----|--------|---|----|----------|-------------|--------|---------|-----------------------------|-----------|-----------|--------------------|
| | | | | | | | | | | | Unit Size | Unit Size | Unit Size | Unit Size |
| 02 | 200 | 13 | 8 | 14-3/8 | 5 | 14 | 211 | 100 | 2 | 23-1/16 | [B] | [E] | [L] | [A] |
| 04 | 400 | 13 | 8 | 14-3/8 | 6 | 14 | 221 | 200 | 3-9/16 | 23-1/16 | [C] | [F] | [A] | No Outlet |
| | | | | | | | 231 | 300 | 5-5/32 | 23-1/16 | [D] | [H] | [A] | |
| 06 | 600 | 14 | 10 | 16-3/8 | 7 | 15 | 311 | 125 | 2 | 29-1/16 | [D] | [H] | [A] | OUTLET SIZE INCHES |
| | | | | | | | 321 | 250 | 3-9/16 | 29-1/16 | [D] | [H] | [A] | |
| 08 | 800 | 17 | 10 | 16-3/8 | 8 | 18 | 411 | 200 | 2 | 47-1/16 | [D] | [H] | [A] | OUTLET SIZE INCHES |
| | | | | | | | 421 | 400 | 3-9/16 | 47-1/16 | [D] | [H] | [A] | |
| | | | | | | | 431 | 600 | 5-5/32 | 47-1/16 | [D] | [H] | [A] | OUTLET SIZE INCHES |
| | | | | | | | 511 | 250 | 2 | 59-1/16 | [D] | [H] | [A] | |
| | | | | | | | 521 | 400 | 3-9/16 | 59-1/16 | [D] | [H] | [A] | OUTLET SIZE INCHES |
| | | | | | | | 531 | 600 | 5-5/32 | 59-1/16 | [D] | [H] | [A] | |

NOTE:

THREE SLOT DIFFUSERS AVAILABLE ONLY WITH SIZES 06 AND 08

Ⓟ Indicates 8" Elliptical
 Ⓠ Indicates 6" Round
 Ⓡ Indicates 8" Round

2-WAY BLOW INTEGRAL SLOT DIFFUSER



| Unit Size | CFM | A | B | C | D | E | Diffuser | Nominal CFM | F | G | OUTLET ARRANGEMENT TOP VIEW | | | |
|-----------|-----|----|----|--------|---|----|----------|-------------|---------|---------|-----------------------------|-----------|-----------|--------------------|
| | | | | | | | | | | | Unit Size | Unit Size | Unit Size | Unit Size |
| 02 | 200 | 13 | 8 | 14-3/8 | 5 | 14 | 222 | 200 | 4-5/32 | 23-1/16 | [B] | [E] | [L] | [A] |
| 04 | 400 | 13 | 8 | 14-3/8 | 6 | 14 | 232 | 300 | 5-3/4 | 23-1/16 | [C] | [F] | [A] | No Outlet |
| | | | | | | | 242 | 400 | 7-11/32 | 23-1/16 | [D] | [H] | [A] | |
| 06 | 600 | 14 | 10 | 16-3/8 | 7 | 15 | 322 | 250 | 4-5/32 | 29-1/16 | [D] | [H] | [A] | OUTLET SIZE INCHES |
| | | | | | | | 332 | 400 | 5-3/4 | 29-1/16 | [D] | [H] | [A] | |
| 08 | 800 | 17 | 10 | 16-3/8 | 8 | 18 | 342 | 500 | 7-11/32 | 29-1/16 | [D] | [H] | [A] | OUTLET SIZE INCHES |
| | | | | | | | 422 | 400 | 4-5/32 | 47-1/16 | [D] | [H] | [A] | |
| | | | | | | | 432 | 600 | 5-3/4 | 47-1/16 | [D] | [H] | [A] | OUTLET SIZE INCHES |
| | | | | | | | 442 | 800 | 7-11/32 | 47-1/16 | [D] | [H] | [A] | |
| | | | | | | | 522 | 500 | 4-5/32 | 59-1/16 | [D] | [H] | [A] | OUTLET SIZE INCHES |
| | | | | | | | 532 | 600 | 5-3/4 | 59-1/16 | [D] | [H] | [A] | |
| | | | | | | | 542 | 800 | 7-11/32 | 59-1/16 | [D] | [H] | [A] | |

NOTE:

THREE AND FOUR SLOT DIFFUSERS AVAILABLE ONLY WITH SIZES 06 AND 08.

Ⓟ Indicates 8" Elliptical
 Ⓠ Indicates 6" Round
 Ⓡ Indicates 8" Round