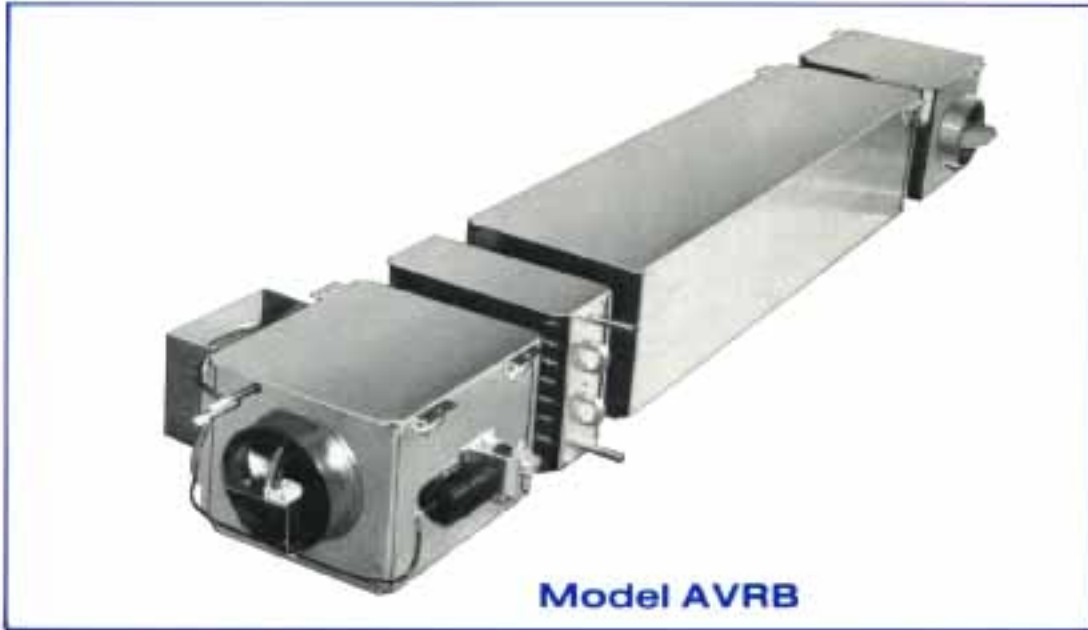


3 Throttling Unit With Reheat



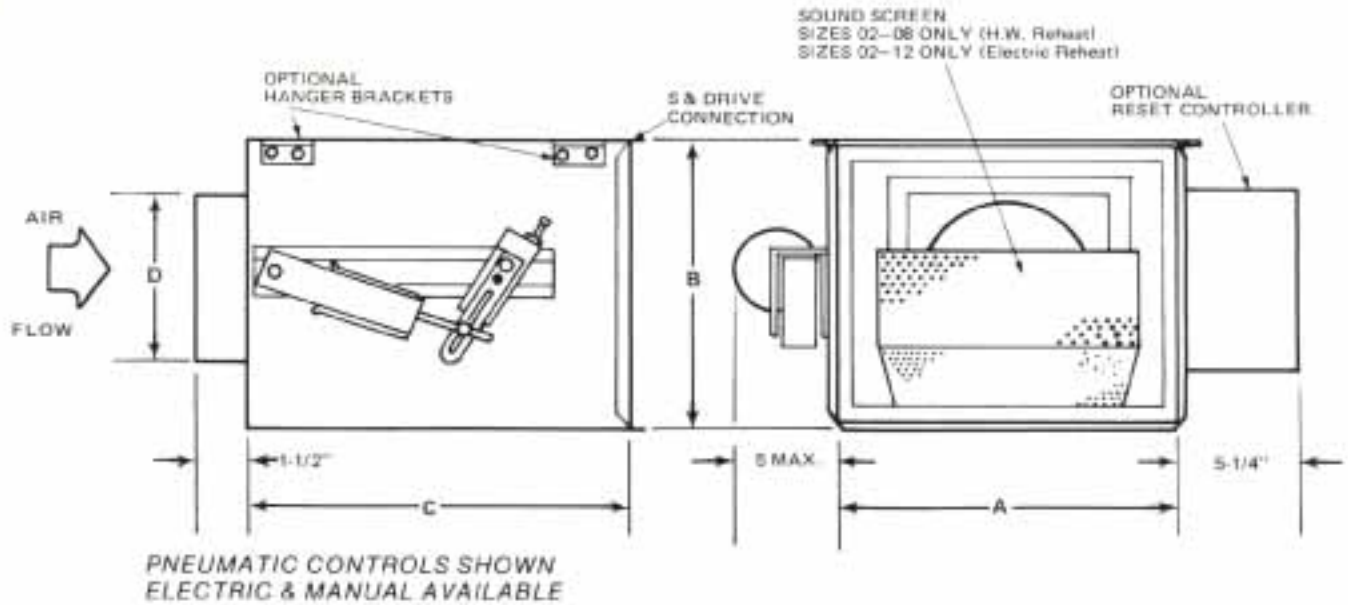
The Carnes Model AVR B is available as a basic control unit with hot water reheat and open end discharge, with an optional sound attenuator module, optional multi-discharge adaptor module, or optional electric heater with sleeve module. This unit offers low pressure drop, low sound levels and valve characteristics which create stable control conditions within the conditioned space.

Other Features Include:

- Air flow capacities to 6,000 CFM.
- Pneumatic, electric or manual damper control.
- Open-end discharge units are provided with S and Drive connection for easy installation.
- Thermally and acoustically insulated casings.
- Multi-Discharge adaptors have round outlet connections with integral balancing dampers.
- Air flow sensor at inlet of unit.
- Optional hanger brackets.

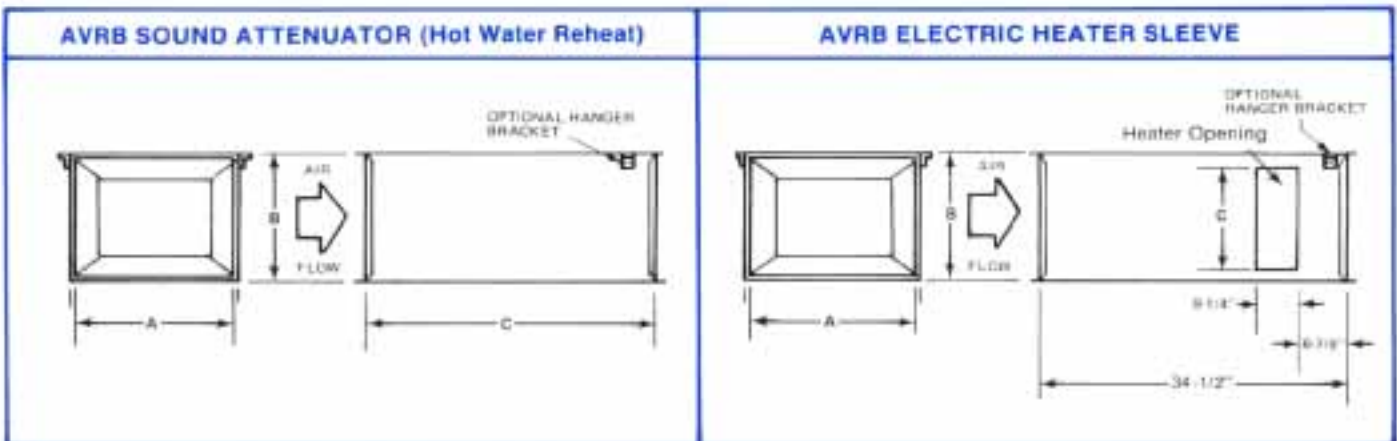
Available Modules:

- Basic control unit with hot water coil.
- Sound attenuator.
- Multi-Discharge adaptor.
- Heater sleeve for field installation of electric heater.
- Heater sleeve with factory installed electric heater.

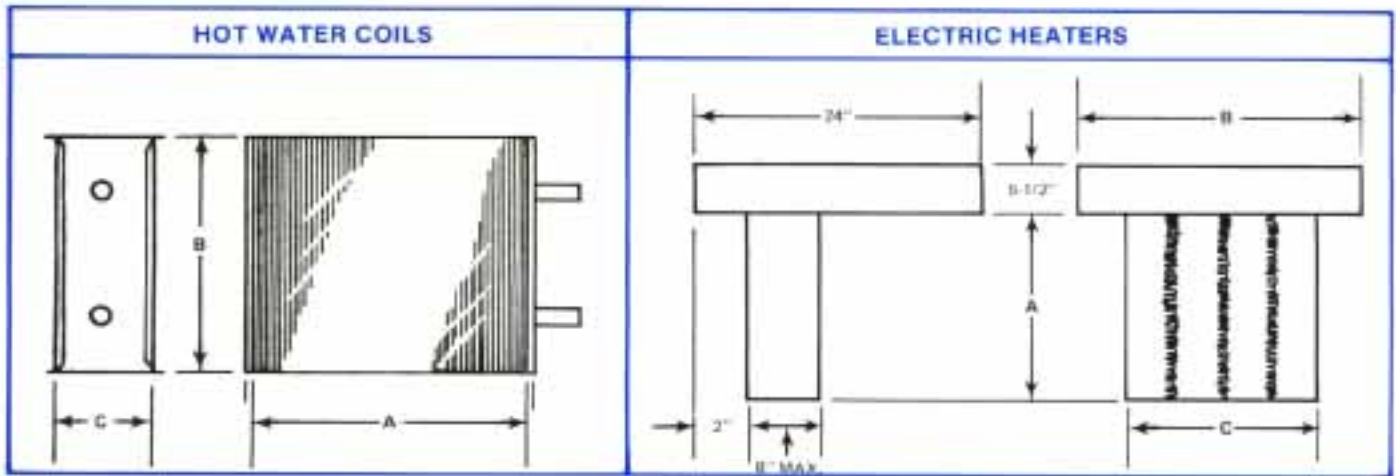


| DIMENSIONS LISTED IN INCHES | | | | | | | | | | | | | | | | | | | |
|-----------------------------|-------------------------|----|--------|---------|------------------------|----|----|--------|-------------------------|-----------|----|----|------------------------|---------|--------|----|----|--------|--------|
| Unit Size | AVRB (HOT WATER REHEAT) | | | | AVRB (ELECTRIC REHEAT) | | | | AVRB (HOT WATER REHEAT) | | | | AVRB (ELECTRIC REHEAT) | | | | | | |
| | Control Unit | | | | Sound Attenuator | | | | Control Unit | | | | Electric Heater Sleeve | | | | | | |
| | A | B | C | D | Weight | A | B | C | Weight | Unit Size | A | B | C | D | Weight | A | B | C | Weight |
| 02 | 10 | 8 | 11-1/4 | 5 | 8-1/2 | 10 | 8 | 34-1/2 | 14 | 02 | 10 | 8 | 11-1/4 | 5 | 8-1/2 | 10 | 8 | 4-1/2 | 14 |
| 04 | 10 | 8 | 11-1/4 | 5 | 8-1/2 | 10 | 8 | 34-1/2 | 14 | 04 | 10 | 8 | 11-1/4 | 5 | 8-1/2 | 10 | 8 | 4-1/2 | 14 |
| 06 | 12 | 10 | 13-1/4 | 7 | 13 | 12 | 10 | 34-1/2 | 17 | 06 | 12 | 10 | 13-1/4 | 7 | 13 | 12 | 10 | 6-1/2 | 17 |
| 08 | 14 | 12 | 15-1/4 | 8 | 16-1/2 | 14 | 12 | 34-1/2 | 17 | 08 | 12 | 10 | 13-1/4 | 6 | 13 | 12 | 10 | 6-1/2 | 17 |
| 12 | 18 | 14 | 17-1/4 | 10 | 23 | 18 | 14 | 34-1/2 | 20 | 12 | 14 | 12 | 15-1/4 | 10 | 18-1/2 | 14 | 12 | 8-1/2 | 20 |
| 16 | 18 | 14 | 16-1/4 | 12 | 23 | 18 | 14 | 22-1/2 | 17 | 16 | 16 | 14 | 17-1/4 | 12 | 23 | 16 | 14 | 10-1/2 | 23 |
| 24 | 20 | 16 | 21-1/4 | 14 | 33-1/2 | 20 | 16 | 22-1/2 | 18 | 24 | 18 | 16 | 19-1/4 | 14 | 27 | 18 | 16 | 12-1/2 | 26 |
| 32 | 24 | 18 | 21-1/4 | 16 | 37 | 24 | 18 | 22-1/2 | 20 | 32 | 20 | 18 | 21-1/4 | 16 | 33-1/2 | 20 | 18 | 14-1/2 | 28 |
| 48 | 32 | 18 | 21-1/4 | 18 x 18 | 47 | 32 | 18 | 22-1/2 | 24 | 48 | 24 | 18 | 21-1/4 | 18 x 18 | 37 | 24 | 18 | 14-1/2 | 30 |
| 60 | 32 | 18 | 21-1/4 | 18 x 24 | 47 | 32 | 18 | 22-1/2 | 24 | 60 | 32 | 18 | 21-1/4 | 18 x 24 | 47 | 32 | 18 | 14-1/2 | 36 |

*Less Controls



3 Dimensional Data—Model AVR B—Throttling Unit With Reheat

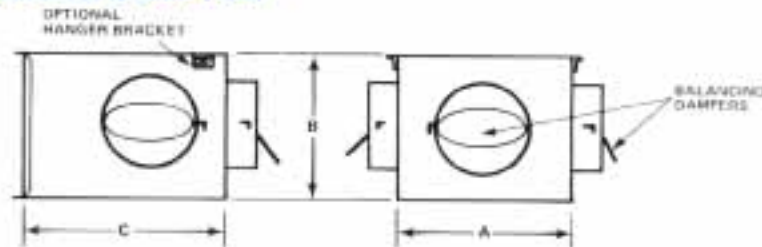


AVRB COIL AND HEATER DIMENSIONS IN INCHES

| UNIT SIZE | HOT WATER COILS | | | | | | | | ELECTRIC HEATERS | | | | |
|-----------|-----------------|-------|-------|-------|-----------------|-------|---------------|-------|------------------|----|----|----|---------------|
| | A | B | C | | O.D. COIL CONN. | | WEIGHT (lbs.) | | UNIT SIZE | A | B | C | WEIGHT (lbs.) |
| | | | 1 ROW | 2 ROW | 1 ROW | 2 ROW | 1 ROW | 2 ROW | | | | | |
| 10 | 8 | 3-1/8 | 4-1/2 | 1/2 | 1/2 | 3-1/2 | 4-1/2 | 02 | 8-1/8 | 8 | 4 | 3 | |
| 12 | 10 | 3-1/8 | 4-1/2 | 1/2 | 1/2 | 3-1/2 | 4-1/2 | 04 | 8-1/8 | 8 | 4 | 3 | |
| 14 | 12 | 3-1/8 | 4-1/2 | 1/2 | 1/2 | 4 | 6 | 06 | 12-1/8 | 10 | 6 | 10 | |
| 16 | 14 | 3-1/8 | 4-1/2 | 1/2 | 1/2 | 4-1/2 | 7-1/2 | 08 | 12-1/8 | 10 | 6 | 10 | |
| 18 | 16 | 3-1/8 | 4-1/2 | 1/2 | 1/2 | 5/8 | 8 | 11 | 12-1/8 | 12 | 8 | 10 | |
| 20 | 18 | 3-1/8 | 4-1/2 | 1/2 | 1/2 | 5/8 | 8 | 13 | 16-1/8 | 14 | 10 | 10 | |
| 24 | 20 | 3-1/8 | 4-1/2 | 5/8 | 3/4 | 8 | 14 | 24 | 16-1/8 | 16 | 12 | 20 | |
| 32 | 24 | 3-1/8 | 4-1/2 | 5/8 | 3/4 | 9-1/2 | 15 | 32 | 18-1/8 | 18 | 14 | 32 | |
| 45 | 32 | 3-1/8 | 4-1/2 | 5/8 | 3/4 | 12 | 21 | 45 | 22-1/8 | 18 | 14 | 42 | |
| 60 | 32 | 3-1/8 | 4-1/2 | 5/8 | 3/4 | 12 | 21 | 60 | 22-1/8 | 18 | 14 | 74 | |

NOTE: Hot water coil connections and electric heater may be ordered as right or left hand, determined by facing the direction of air flow.

AVRB MULTI-DISCHARGE ADAPTOR



(TOP VIEW)

| MODEL | UNIT SIZE | AIR FLOW LEFT TO RIGHT | | DIMENSIONS | DIMENSION | DIMENSION | DIMENSION | DIMENSION | DIMENSION | DIMENSION | DIMENSION | DIMENSION | DIMENSION |
|-------------------------|-----------|------------------------|----|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | A | B | | | | | | | | | | |
| AVRB (Hot Water Reheat) | 10 | 10 | 8 | 6.7 | 11-3/8 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 |
| | 12 | 12 | 10 | 8 | 11-3/8 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 |
| | 14 | 14 | 12 | 10 | 11-3/8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 |
| | 16 | 16 | 14 | 12 | 11-3/8 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| | 18 | 18 | 16 | 14 | 11-3/8 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| | 20 | 20 | 18 | 16 | 11-3/8 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| | 24 | 24 | 20 | 18 | 11-3/8 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| | 32 | 32 | 24 | 18 | 11-3/8 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| | 45 | 45 | 32 | 18 | 11-3/8 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| | 60 | 60 | 32 | 18 | 11-3/8 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| AVRB (Electric Reheat) | 10 | 10 | 8 | 6.7 | 11-3/8 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 |
| | 12 | 12 | 10 | 8 | 11-3/8 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 |
| | 14 | 14 | 12 | 10 | 11-3/8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 |
| | 16 | 16 | 14 | 12 | 11-3/8 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| | 18 | 18 | 16 | 14 | 11-3/8 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| | 20 | 20 | 18 | 16 | 11-3/8 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| | 24 | 24 | 20 | 18 | 11-3/8 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| | 32 | 32 | 24 | 18 | 11-3/8 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| | 45 | 45 | 32 | 18 | 11-3/8 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| | 60 | 60 | 32 | 18 | 11-3/8 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |

NOTES: 1. All dimensions in inches 2. All outlets are round with diameter dimensions given