

## PERFORMANCE DATA

### TBD675 36 in. Module, 8 in. Oval Inlet

| Air Pattern<br>Horizontal 1-way | Flow Rate (cfm)             | 50    | 75     | 100    | 125     | 150     | 200      | 250      | 300      | 350      | 400      |
|---------------------------------|-----------------------------|-------|--------|--------|---------|---------|----------|----------|----------|----------|----------|
|                                 | Total Pressure (in. w.g.)   | 0.007 | 0.016  | 0.028  | 0.043   | 0.062   | 0.111    | 0.173    | 0.249    | 0.339    | 0.442    |
|                                 | Static Pressure (in. w.g.)  | 0.006 | 0.013  | 0.023  | 0.035   | 0.050   | 0.091    | 0.141    | 0.203    | 0.276    | 0.360    |
|                                 | Throw Horiz. End (in. w.g.) | 1-2-9 | 2-5-13 | 4-9-17 | 6-11-19 | 9-13-21 | 11-17-24 | 14-19-27 | 17-21-30 | 19-23-32 | 20-24-34 |
|                                 | Sound (NC)                  | -     | -      | -      | -       | 15      | 22       | 28       | 33       | 36       | 40       |

### TBDV675 48 in. Module, 8 in. Inlet, 15 in. Downblow Section

|                                    |                                |        |         |         |          |          |          |          |          |          |          |
|------------------------------------|--------------------------------|--------|---------|---------|----------|----------|----------|----------|----------|----------|----------|
| Air Pattern<br>Horizontal/Vertical | Flow Rate (cfm)                | 100    | 125     | 150     | 175      | 200      | 225      | 250      | 275      | 300      | 350      |
|                                    | Total Pressure (in. w.g.)      | 0.035  | 0.054   | 0.078   | 0.106    | 0.139    | 0.176    | 0.217    | 0.263    | 0.312    | 0.425    |
|                                    | Static Pressure (in. w.g.)     | 0.030  | 0.046   | 0.066   | 0.090    | 0.119    | 0.150    | 0.185    | 0.224    | 0.266    | 0.362    |
|                                    | Throw Horiz. End (in. w.g.)    | 3-7-12 | 5-9-14  | 7-10-15 | 8-11-16  | 10-12-17 | 10-13-18 | 11-13-19 | 11-14-20 | 12-15-21 | 13-16-22 |
|                                    | Throw Vertical (in. w.g.)      | 2-3-5  | 3-4-5   | 3-4-6   | 3-4-6    | 4-5-6    | 4-5-7    | 4-5-7    | 4-5-8    | 5-6-8    | 5-6-8    |
| Sound (NC)                         | -                              | -      | 15      | 18      | 23       | 27       | 30       | 33       | 35       | 40       |          |
| Air Pattern<br>Horizontal 2-way    | Flow Rate (cfm)                | 100    | 125     | 150     | 175      | 200      | 225      | 250      | 275      | 300      | 350      |
|                                    | Total Pressure (in. w.g.)      | 0.049  | 0.077   | 0.111   | 0.151    | 0.198    | 0.250    | 0.309    | 0.374    | 0.445    | 0.606    |
|                                    | Static Pressure (in. w.g.)     | 0.044  | 0.069   | 0.099   | 0.135    | 0.178    | 0.224    | 0.277    | 0.335    | 0.399    | 0.543    |
|                                    | Throw Horiz. End (in. w.g.)    | 3-7-13 | 5-9-14  | 7-11-15 | 8-12-17  | 10-13-18 | 11-13-19 | 11-14-20 | 12-15-21 | 13-15-22 | 13-17-23 |
|                                    | Throw Horiz. Center (in. w.g.) | 4-7-13 | 6-9-14  | 7-11-16 | 8-12-17  | 9-13-18  | 11-14-20 | 12-14-20 | 12-15-21 | 13-16-22 | 14-17-24 |
| Sound (NC)                         | -                              | -      | 21      | 25      | 30       | 33       | 36       | 39       | 41       | 45       |          |
| Air Pattern<br>Horizontal 1-way    | Flow Rate (cfm)                | 100    | 125     | 150     | 175      | 200      | 225      | 250      | 275      | 300      | 350      |
|                                    | Total Pressure (in. w.g.)      | 0.052  | 0.082   | 0.118   | 0.160    | 0.209    | 0.265    | 0.327    | 0.396    | 0.471    | 0.641    |
|                                    | Static Pressure (in. w.g.)     | 0.047  | 0.074   | 0.106   | 0.144    | 0.189    | 0.239    | 0.295    | 0.357    | 0.425    | 0.578    |
|                                    | Throw Horizontal (in. w.g.)    | 4-9-17 | 6-11-19 | 9-13-21 | 10-15-23 | 11-17-24 | 13-18-26 | 14-19-27 | 16-20-28 | 17-21-30 | 19-23-32 |
|                                    | Sound (NC)                     | -      | -       | 21      | 25       | 30       | 33       | 36       | 39       | 41       | 45       |

**Performance Notes:**

1. Tested in accordance with ASHRAE Standard 70-2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
2. Airflow is in cfm.
3. All pressures are in in. w.g.
4. Throw values are measured in feet for terminal velocities of 150 fpm (minimum), 100 fpm (middle) and 50 fpm (maximum).
5. Throw data is based on supply air and room air being at isothermal conditions.
6. NC values are based on room absorptions of 10dB re 10<sup>-12</sup> watts and one diffuser.
7. Blanks indicate NC less than 15.