

**METALAIRE™**

## MODEL WFO

The WFO polymer Underfloor diffuser offers the choice of horizontal or vertical air patterns with its flip over design. The WFO is suitable for fitting into standard floor tile with optional fittings for concrete slab. The disc is reversible for horizontal or vertical air throw. The diffuser has a memory peg feature to retain damper setting once commissioned.

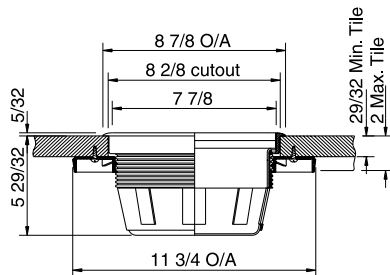
- Polymer construction
- Fire retardant material
- Standard color RAL 7037 Mid Grey
- Unique flip over design
- Memory locating peg
- Easy fit locking collar
- Available in 8" only



### Aircell Polymer Floor Diffusers - Pressurized Floor Void

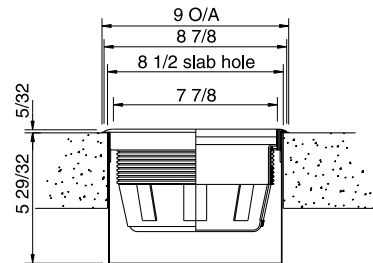
Model WFO - Tile Installation

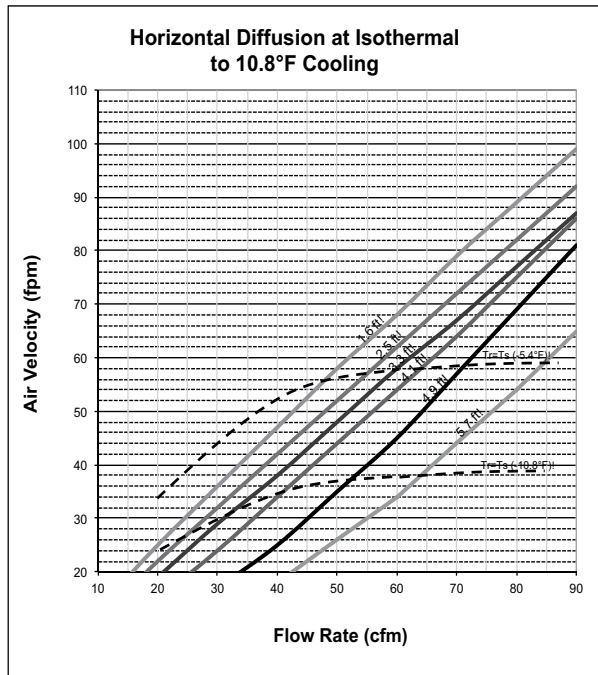
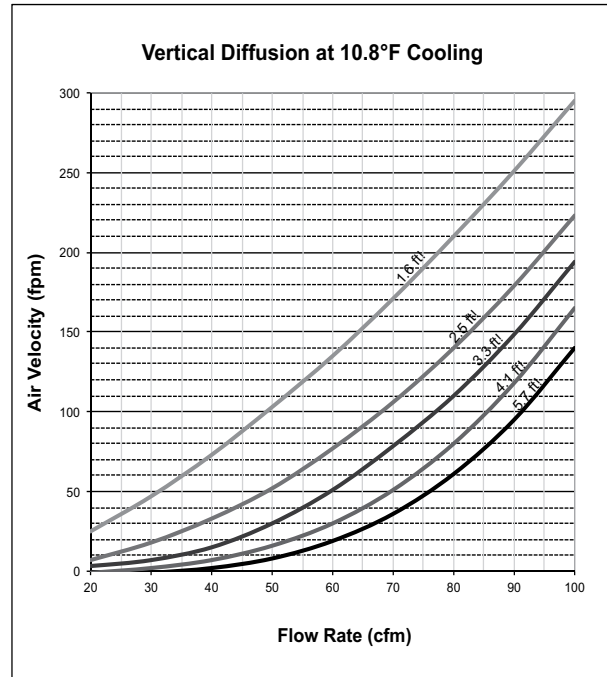
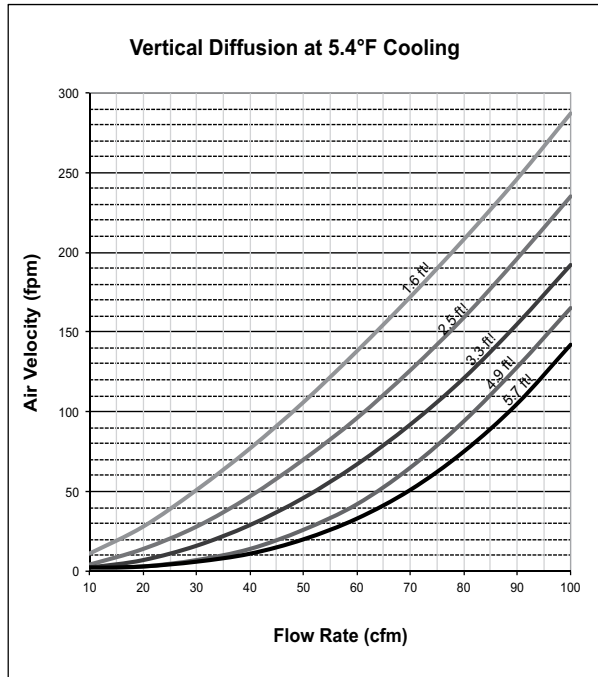
Model WFOV - Low pressure vertical air pattern



### Aircell Polymer Floor Diffusers - Pressurized Void

Model WFOS - Slab Floor Installation Supplied with a steel adapter collar which is cast into the floor slab. The diffuser can then be installed into the collar with concealed spring clips.





## WFO MODEL NUMBER SPECIFICATION

### UNDERFLOOR DIFFUSER MODEL WFO

| Model | Neck Size | Available Finishes |
|-------|-----------|--------------------|
| WFO   | 8         | <b>Standard</b>    |
| WFOV  |           | RAL 7037 Mid Gray  |
| WFOD  |           | <b>Optional</b>    |
|       |           | Black              |
|       |           | Min 500 Pieces     |
|       |           | Set Up Charge      |

## SERIES WFO PERFORMANCE DATA

### MODEL WFO

#### PRESSURE LOSS DATA — BOTH SETTINGS

|      | Airflow Rate (cfm) |       |       |       |       |       |       |       |       |       |
|------|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|      | 21                 | 32    | 42    | 53    | 64    | 74    | 85    | 100   | 110   | 120   |
| WFO  | 0.020              | 0.040 | 0.068 | 0.100 | 0.141 | 0.181 | 0.225 | 0.249 | .0284 | —     |
| WFOS | 0.020              | 0.040 | 0.068 | 0.108 | 0.153 | 0.201 | 0.227 | 0.263 | —     | —     |
| WFOP | 0.028              | 0.068 | 0.116 | 0.181 | 0.257 | 0.301 | —     | —     | —     | —     |
| WFOD | 0.016              | 0.028 | 0.048 | 0.076 | 0.104 | 0.141 | 0.181 | 0.196 | 0.224 | 0.251 |

— = not recommended

All pressure loss data is based on a fully open damper.

#### ACOUSTIC DATA — HORIZONTAL SETTING

|      | Airflow Rate (cfm) |      |      |    |    |    |    |     |     |     |
|------|--------------------|------|------|----|----|----|----|-----|-----|-----|
|      | 21                 | 32   | 42   | 53 | 64 | 74 | 85 | 100 | 110 | 120 |
| WFO  | < 15               | < 15 | 19   | 24 | 29 | 31 | 34 | 40  | 44  | —   |
| WFOS | < 15               | 15   | 21   | 26 | 30 | 32 | 37 | 43  | —   | —   |
| WFOP | < 15               | 18   | 25   | 30 | 35 | 39 | 44 | —   | —   | —   |
| WFOD | < 15               | < 15 | < 15 | 20 | 24 | 26 | 30 | 35  | 39  | 42  |

— = not recommended