

Tate Access Floors, Inc.
PowerAire™ Fan Assist Device

SECTION 09 69 00
ACCESS FLOORING

Part 2 – Products

Section 2.3 Panel Components

G. In-floor Fan Assist device: High volume EC variable speed fan for use in raised floor roll formed stringer system. 20 gauge steel construction with a single electrical commutated fan that varies its speed based on temperature feedback from four temperature probes installed at the equipment rack. PowerAire device will have the following air distribution capabilities when used with a DirectAire: 3206 CFM at 0.1” of H₂O (static pressure).

The In-floor fan assist device shall have the following features.

1. Fail Safe Operation
 - a. Fan unit must provide greater than 1478 CFM when power is lost at 0.1” of H₂O (static pressure)
2. 0-24.8kW supportable IT load per panel/fan combination
3. No regularly schedule maintenance required
4. 4 temperature probes to be mounted at rack face
5. Control system to evaluate all 4 temperature probes and control from peak temperature value
6. User selectable set point from 50-100F
7. PID multiloop control system
8. Fan speed shall be infinitely variable between 0-100%
9. Viewable temperature control unit through airflow panel
10. Unit shall draw less than 400VA during operation