



# INSTALLATION / OPERATION MANUAL

## Underfloor Fan Terminal Unit (Electric Heating)

**MODEL: UFE**

**TOOLS REQUIRED:**

1. Power Screwdriver
  - Phillips #3 Bit - floor panel screws
2. Panel Lifter (Suction Cups) - remove floor panels
3. Voltmeter - monitor power

**MATERIALS REQUIRED:**

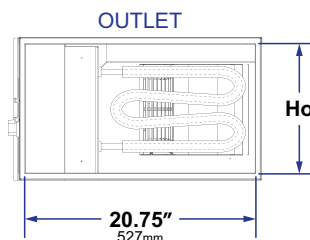
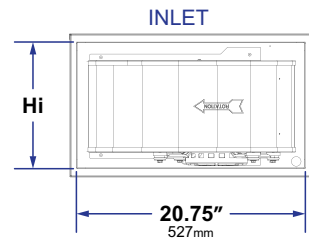
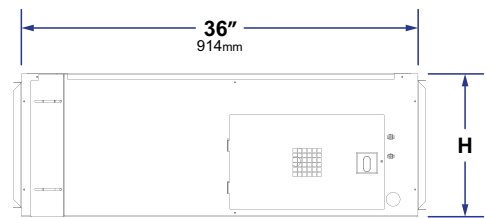
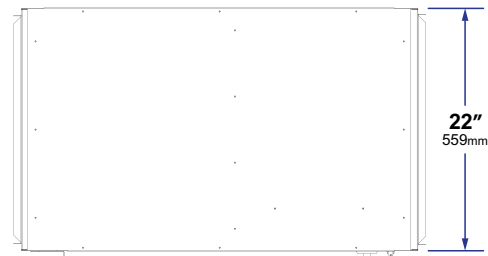
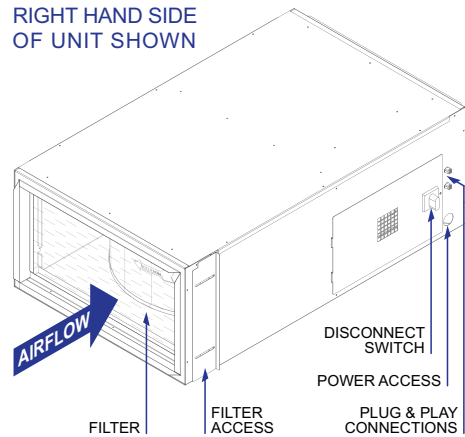
1. UFE Underfloor Fan Terminal Unit
2. Plug & Play Cables (PAP-5 / PAP-6)
3. Power Connections

**PREPARATION:**

1. Verify that the UFE is the correct model, unit count and location(s) per scheduled placement.
2. Remove the floor covering / floor panels at the desired location(s) (if installed). A minimum 4' x 4' (1.2m x 1.2m) opening is recommended to install the UFE terminal.
3. Verify that all adjacent floor panels are properly installed.



**IMPORTANT:** It is **HIGHLY RECOMMENDED** by the manufacturer that each zone be checked for faulty or improper wiring **DURING INSTALLATION**. Each zone should be tested thoroughly for full connectivity before proceeding with installation of the next zone. The manufacturer cannot be responsible for any improper installation as a result of failure to follow this procedure as outlined in the FlexSys Connectivity Testing Procedures.



ALL DIMENSIONS  
NOMINAL +/- 0.1" (2.5mm)

H	in	8	10	13	15
	mm	203	254	330	381
Hi	in	6.5	8.5	11.5	13.5
	mm	165	216	292	343
Ho	in	6.5	8.5	11.5	13.5
	mm	165	216	292	343



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## Underfloor Fan Terminal Unit (Electric Heating)

**MODEL:**

**UFE**

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**INSTALLATION:**

1. Position the UFE by laying it on the subfloor. Verify that the controls access panel clears any floor pedestals or other underfloor obstructions, and can be fully opened and accessed.
2. Connect UFE to designated thermostatic zone, using Plug & Play cables connected to moxex inputs located on side of terminal next to controls access panel.
3. Connect UFE to building power, per local code requirements.
4. With circuit energized, use voltmeter to check UFE power status and verify that the fan and heater operate correctly.
5. It is recommended by the manufacturer to remove the filter after construction, before commissioning.
6. Replace all removed floor panels, and secure in place with floor panel screws.

**OPERATION:**

Once installed, the UFE requires no direct input or adjustment for proper operation.

**MAINTENANCE:**

Once installed, the UFE requires no regular service or maintenance for proper operation.

**REPLACEMENT PARTS:**

1. Fuses - P/N: 999.0072.00

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**STANDARD SEQUENCE OF OPERATION:**

Heating sequence will begin with a call for heating from the thermostat.

For electric heating units, heat level is varied by pulse modulation the solid state relays based on heating demand. The time modulation period is 10 seconds and the effective heat level is the percentage of time the heater element is on during that period. Generally, there are three heat levels: 50%, 80% and 100%.

When heat demand has been satisfied and the thermostat has released its call for heat, the fan will continue to run at least 30 seconds to cool down the heating elements. For large heat capacity units, the fan will continue to run until an internal sensor detects the heating elements have cooled down sufficiently.

Standard fan units work in heating only. For fan units configured to operate in cooling mode, a call for cooling from the thermostat will signal the fan to run. Fan units equipped with EC motors will vary the fan speed based on cooling demand. AC motors will run at a single speed.