

Service Part Number 4522 Basement Kit Safety and Installation Instructions

For use with Model 1700 Whole-Home Dehumidifier

WARNINGS

115 volts may cause serious injury from electrical shock. Disconnect electrical power to the furnace, air conditioner and Model 1700 Dehumidifier before performing this installation. Improper installation may cause serious injury from electrical shock. This kit must be installed by a qualified HVAC contractor.

BACKGROUND

The Service Part Number 4522 Basement Kit is used to facilitate installation of the Model 1700 Dehumidifier in the "Whole House/Localized Convertible Installation" application. With the Model 1700 installed in this configuration, the dehumidifier will automatically switch between whole-house dehumidification when the HVAC equipment is on, and localized dehumidification when the HVAC equipment is off. Typically, this installation configuration is used to dehumidify a whole house and a separate conditioned living space like a finished basement.

PARTS PROVIDED

- (2) Normally Closed 8" Damper, Model 6508.
- (2) Normally Open 8" Damper, Model 6608.
- (1) 40VA, 24 VAC plug in transformer, Model 8027.

INSTALLATION PROCEDURE

Installer should refer to the Model 1700 Safety and Installation Instructions prior to installing the Basement Kit.

1. Install the normally closed dampers (6508) in the duct runs leading to the air handler supply and return plenums.
2. Install the normally open dampers (6608) in the duct runs leading back to the unconditioned space.
3. Wire power to the damper actuators using the 40VA, 24 VAC transformer (8027). The transformer is wired in series with the damper actuators and the wires are terminated to the Model 1700 control board at terminals labeled DEH DAMPER. Plug transformer into 115 VAC grounded wall receptacle.
4. Complete installation, set-up and checkout of the Model 1700 Dehumidifier as documented in the Model 1700 Safety and Installation Instructions.

SEQUENCE OF OPERATION

When the HVAC blower and the model 1700 Dehumidifier are on, the dampers will energize and the dehumidifier will operate in the whole-house mode. When the HVAC blower is off, the dampers will be de-energized and the dehumidifier will operate in the localized mode.

Note – The dampers will also be de-energized when the dehumidifier is off. This will prevent backflow of air when only the HVAC blower is on.