



**⚠ CAUTION!**

**TROUBLESHOOTING SHOULD BE PERFORMED BY A QUALIFIED HVAC TECHNICIAN.**

Display Code	Error Name	Possible Reason	Troubleshooting Procedure	Service Required
E1	Ambient sensor	<ol style="list-style-type: none"> <li>1. Defective sensor</li> <li>2. Unplugged sensor</li> </ol>	<ul style="list-style-type: none"> <li>• Dehumidifier fan will circulate air for 1 minute.</li> <li>• Dehumidifier compressor will activate for 15 minutes.</li> <li>• This process will repeat every 15 minutes.</li> </ul>	No
E2	Low dew point	Sensor reading incoming air dew point is under 40°F	<ul style="list-style-type: none"> <li>• Dehumidifier will circulate air for 50 seconds every 15 minutes.</li> <li>• Dehumidifier will not operate until incoming air dew point reads above 40°F.</li> </ul>	No
E3	Low refrigerant	Evaporator coil temp is too high, during extended operation	Dehumidifier will go into lock-out mode for 1 hour and then attempt to activate compressor.	Yes
E4	Float switch	<ol style="list-style-type: none"> <li>1. Tripped float switch</li> <li>2. Loose connection</li> <li>3. Terminal block unplugged from unit</li> </ol>	The compressor and fan in the dehumidifier will remain off until the connection is fixed or the water event that activated the switch is resolved.	No
E5	Coil temperature sensor	<ol style="list-style-type: none"> <li>1. Defective sensor</li> <li>2. Loose connection</li> </ol>	<ul style="list-style-type: none"> <li>• Dehumidifier will go into lock-out mode for 1 hour and then activate compressor for 15 minutes.</li> <li>• After the compressor runs for 15 minutes, the unit will go into defrost mode for 30 minutes.</li> <li>• This process will repeat.</li> </ul>	No
E6	Temperature too high	Sensor reading incoming air temp is over 120°F	<ul style="list-style-type: none"> <li>• Dehumidifier will circulate air for 15 minutes every hour.</li> <li>• Dehumidifier will not operate until incoming air temp sensor reads below 120°F</li> </ul>	No
E7	Temperature too low	Sensor reading incoming air temp is under 40°F	<ul style="list-style-type: none"> <li>• Dehumidifier will circulate air for 50 seconds every 15 minutes.</li> <li>• Dehumidifier will not operate until incoming air temp reads above 40°F.</li> </ul>	No
E8	Communication from power board is not being received	<ol style="list-style-type: none"> <li>1. There is a cable connection issue</li> <li>2. Defective power board</li> </ol>	The power board will continue to run unit using the last settings but changes to operation cannot be made until communication is restored.	Yes, only if operational changes are required
E9	Over pressure refrigeration system	<ol style="list-style-type: none"> <li>1. High pressure sensor has tripped due to excess pressure in the refrigeration system</li> <li>2. Incoming air temp is too high</li> </ol>	Power board will be in system protection mode.	Yes, only if the error persists when operating below 90°F incoming air

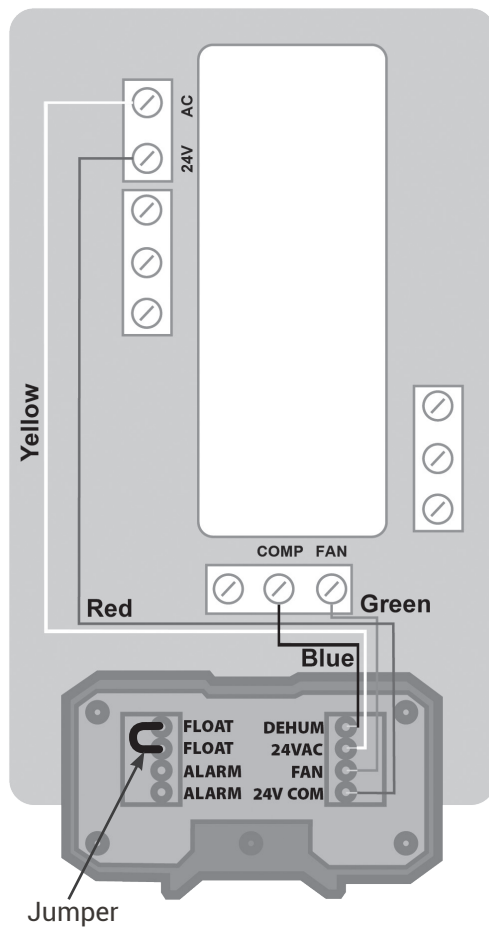


### Wiring to External Controllers

Santa Fe offers several external control options such as the Ultra DEH3000R and Honeywell Humidipro. These external controls are sold separately. This unit can also be controlled by any 24 Volt AC dry contact, normally open signal.

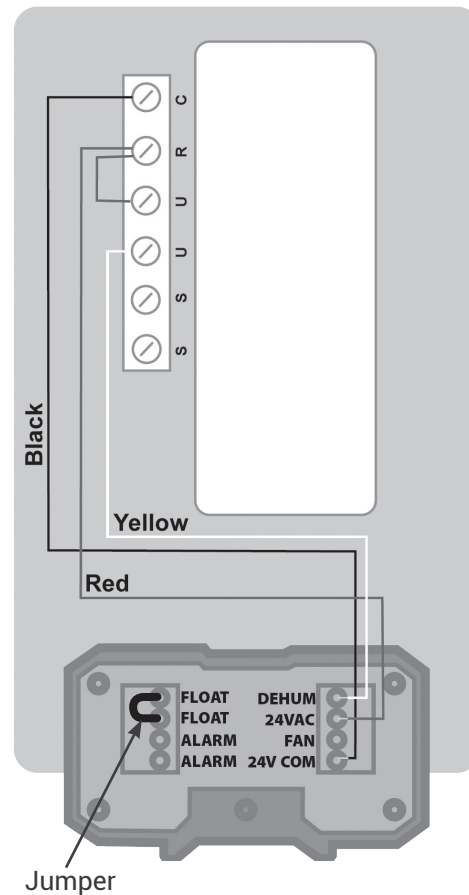
#### 4028531

DEH 3000R Wiring Diagram



#### 4041649

Honeywell Humidipro  
Wiring Diagram



### On Board Power

This unit has an internal power transformer that can supply 24V AC power. This power is used to power the onboard controls as well as any external accessories. 30 Watts of 24V AC power is available through the terminal block. This should accommodate up to two power dampers. See power requirements of dampers used prior to install.