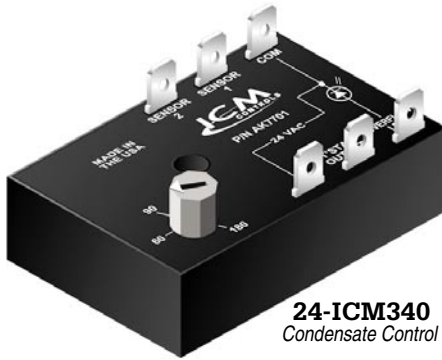


## Condensation Control System

### Condensate Control

The 24-ICM340 condensate control is used to detect and prevent the overflowing of an evaporator condensation pan. Overflow problems can occur from a slow or blocked condensate drain or condensate pump failure.

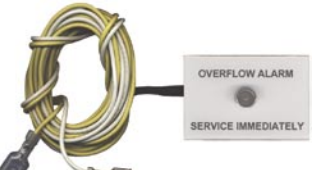
Part #	Description	Specifications
 <p><b>24-ICM340</b> Condensate Control</p>	<ul style="list-style-type: none"> <li>Adjustable delay before break time to prevent nuisance trips.</li> <li>24-ICM340 includes: (2) sensors, (2) mounting clips, (2) self-stick adhesive clips, and detailed instructions with diagrams for installation and troubleshooting.</li> <li>Optional overflow LED (24-ACH55) &amp; LED/ Audible (24-ICM345) accessory kits also available.</li> </ul>	<p><b>Input</b></p> <ul style="list-style-type: none"> <li>Voltage: 18 to 30 VAC.</li> </ul> <p><b>Output</b></p> <ul style="list-style-type: none"> <li>24 VAC to thermostat/ cooling control.</li> <li>24 VAC to optional overflow LED.</li> <li>Rating: 2 amps.</li> </ul> <p><b>Delay Before Trip</b></p> <ul style="list-style-type: none"> <li>1-3 minutes.</li> </ul> <p><b>Operating Frequency</b></p> <ul style="list-style-type: none"> <li>50 to 60 Hz.</li> </ul> <p><b>Maximum Operating/Storage Relative Humidity</b></p> <ul style="list-style-type: none"> <li>95% non-condensing.</li> </ul> <p><b>Storage Temperature</b></p> <ul style="list-style-type: none"> <li>-40°C to +85°C.</li> </ul> <p><b>Connection Terminals</b></p> <ul style="list-style-type: none"> <li>1/4" Quick connects to provide easy hookup.</li> </ul> <p><b>Epoxy Encapsulated Circuit</b></p> <ul style="list-style-type: none"> <li>Provides maximum protection against moisture and allows use in extreme environmental conditions.</li> </ul>

### 24-ICM340 - Mode Of Operation

With proper mounting of the two sensors, the 24-ICM340 condensation control system will detect the presence of water before overflow can occur. If water is detected for the entire time period selected on the control (60-180 seconds), the 24 VAC output from the T'stat Output terminal is interrupted, the control is locked out, and the optional overflow LED is lit. If water is detected, but not for the entire time period selected, no interruption of the 24 VAC from the T'stat Output terminal occurs. This eliminates nuisance trips and lockouts. Removal of the water automatically resets the 24-ICM340 after a lockout condition.


## Condensation Control Optional Accessory Kits

### Visual LED Alarm - Optional

Part #	Description
 <p><b>24-ACH55</b> Visual LED alarm kit.</p>	<ul style="list-style-type: none"> <li>70" Colour coded leads with connectors.</li> <li>2 1/4" x 1 1/2" Display panel with adhesive backing.</li> <li>Instruction sheet &amp; wiring diagram included.</li> </ul>

### Audible / Visual LED Alarm - Optional

The 24-ICM345 is a low cost condensation sensing control with an integral anti-short cycle delay and audible/visual condensation alarm.

Part #	Description	Specifications
 <p><b>24-ICM345</b> Audible &amp; visual LED alarm kit.</p>	<ul style="list-style-type: none"> <li>Elegant case.</li> <li>Audible and visual alarm when condensation is detected.</li> <li>Anti-short cycle protection for compressor.</li> <li>Works in conjunction with any thermostat or existing condensation control.</li> <li>Elegant design.</li> </ul>	<p><b>Input</b></p> <ul style="list-style-type: none"> <li>Voltage: 18 to 30 VAC.</li> <li>Frequency: 50 to 60 Hz.</li> </ul> <p><b>Output</b></p> <ul style="list-style-type: none"> <li>Type: Relay.</li> <li>N.O.: 1 amp @ 30 VAC.</li> <li>Audible: Buzzer.</li> <li>Visual: LED indicator.</li> </ul> <p><b>Time Delays</b></p> <ul style="list-style-type: none"> <li>Anti-short cycle: 5-minute fixed.</li> </ul> <p><b>Mechanical</b></p> <ul style="list-style-type: none"> <li>Dimensions: 4 1/2" x 2 3/4" x 7/8".</li> <li>Mounting: Wall mount (mounting kit included).</li> </ul>

### 24-ICM345 - Mode Of Operation

Upon application of power, the 24-ICM345 is designed to work with the 24-ICM340 to read the status of the Y-IN and float switch terminals. If 24 VAC is present at both terminals, the unit will energize an internal relay to allow the signal at Y-IN to transfer to the Y-OUT terminal to energize the compressor contactor. If the float switch opens while the compressor is energized, the control will de-energize the compressor and begin the 5-minute anti-short cycle delay. If the float switch remains open for 2 minutes, the audible and visual alarms will energize indicating that condensation is present. The alarms will not reset unless the Y signal from the thermostat is removed or the float switch closes. If the float switch is open upon the next Y call from the thermostat, the unit will not allow the compressor contactor to energize (until the float switch is closed).

