

Title:	<b>Condensation around the Gate</b>			ID:
				0057
Date in:	Response:	Model:	Author:	
2003-05-28	2003-05-08	-	C <i>Ma</i>	

## A:

Kevin

Can you please forward us the climate conditions the unit is running at?

Temperature:[Svetlana Nadel] 53 C

Humidity Setting:[Svetlana Nadel] 93% (but it will fluctuate as the gate opens/closes)

Does the humidity read-out and the temperature read-out look ok?[Svetlana Nadel] it matches. We did not try to measure with independent tool. Would you like us to find an independent T and humidity measuring device and check it?

Has the unit run fine - if so how long - and then became worse?[Svetlana Nadel] It was running for eight weeks, the leak started two weeks ago. The more you open/close the gate - the worse it gets. In the last two weeks the leak does not seem to progress much - stays about the same. Water goes from the gate to the de-lidding station.

Cosmas

## Q:

Hi Kevin, hi Cosmos: just talked to Rod (Rod is a service engineer from Zymark responsible for Mary Jo's lab) - please see responses below. Please let us know if you have any other questions. Thanks for your help.

**A:**

Svetlana,  
Kevin

Heater Related causes:

There are two heater in this region.

- 1 Gate Heater: Runs at 24VDC (white and gray wire) and draws about 1A. The aluminum part of the Gate should be pretty hot at this temperature.
- 2 The Gate Collar Heater: Runs at 110VAC. Please check Gate first. Error not easy to fix.

Gate sealing

Check if Gate is shut an sealed properly. A small gap may be sufficient to cause condensation.

Sensor related causes

The humidity level is measured and controlled. If there was some drift in the sensor the unit would try to increase humidity. There is a critical point where the chamber start condensation aggressively. If the system would be above this point, it usually needs lowering the humidity setting by a small amount.

Cosmas