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3/29/26

Report on the HUMI performance

Objective

> *Compare the HUMI to passive humidity control bag 60g for humidity control in a cigar container.*

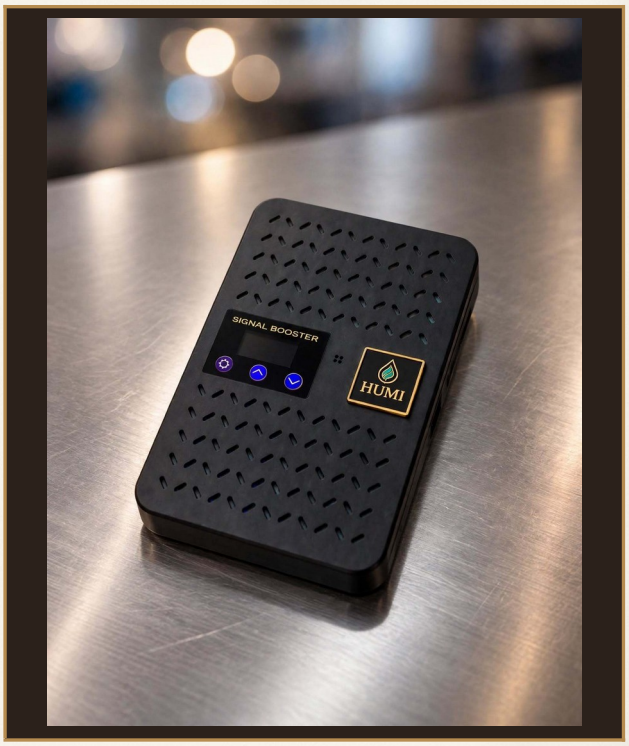
Equipment Used

1. Two plastic containers 12’ x 8’ x 6’ = 576 sq inches
2. 15 cigars per container
3. Yolink humidity recording device
4. One container with the passive humidity control bag 60g 2-way humidity control
5. Humidity controller


69%
72.5°F
69%
INKBIRD


SIGNAL BOOSTER
HUMI
72.5°F
69%
INKBIRD


69%
60 GRAM
2-WAY HUMIDITY CONTROL
CONTRÔLE D'HUMIDITÉ BIDIRECTIONNEL
NO MESS. NO WORRIES. ENJOY.


SIGNAL BOOSTER
HUMI

Test

Test start date - 01/15/2026

Test end date – 03/29-2026

Both containers start at 62.7% humidity (see graphs)

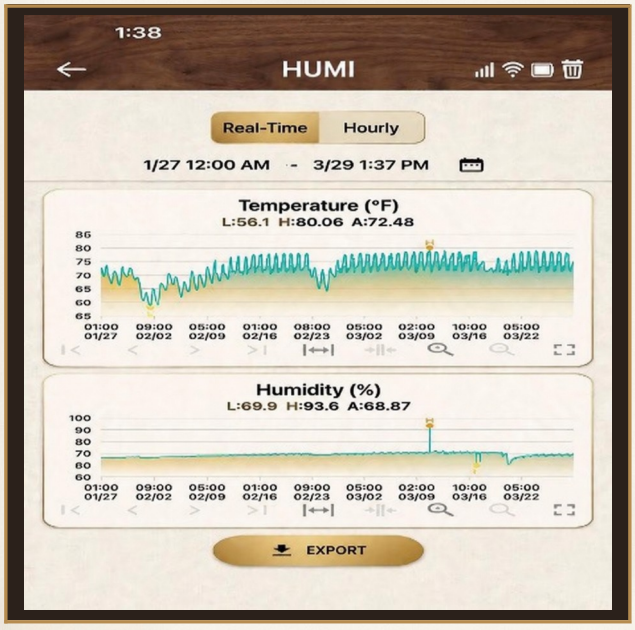
HUMI reached a 69% humidity (set) on 2/15/26 and stabilized.

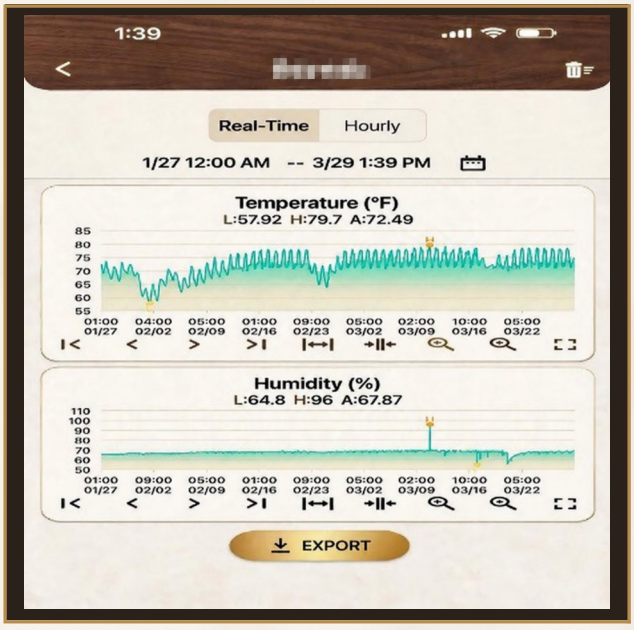
Passive humidity control bag reached 69% humidity(set) on 3/6/26 and stabilized.

Elevate humidity to 87% in both HUMI & passive containers.

Both stabilized back to 69% 60 minutes later.

From 3/10/26 opened containers 2 x daily for 10-minutes, humidity dropped to
66% humidity, both containers recover within 60 minutes.





Conclusion

> HUMI recovers from 62.7% humidity to 69% humidity in 30 days.
>
> Passive humidity control bag recovers from 62.7% to 69% humidity in **49 days**.

Target Humidity Accuracy

Both HUMI and the passive humidity control bag 60g passive humidity-control device were tested under the same conditions with a target relative humidity of 69%.

HUMI maintained an average humidity of 68.87%, while the passive humidity control bag device maintained an average humidity of 67.87%.

HUMI	Passive Humidity Control Bag 60g
68.87% average RH	67.87% average RH
0.13 percentage points from target	1.13 percentage points from target
0.19% relative deviation from target	1.64% relative deviation from target

Based on relative deviation from the target humidity, the passive humidity control bag device was approximately 8.6 times farther from the 69% setpoint than HUMI.

Under the tested conditions, HUMI maintained average humidity substantially closer to the intended target, demonstrating greater setpoint accuracy.

In applications where maintaining humidity within tight tolerances is important, including certain medical and controlled-environment applications, this level of setpoint accuracy could represent a meaningful performance advantage.