Condensation and Pressure Compensation Devices

H2OMIT® Thermoelectric Dehumidifier





Industry Standards

UL 508A Listed; File No. E61997
cUL Listed per C22.2 No. 14; File No. E61997

Application

The H2OMIT® Thermoelectric Dehumidifier removes moisture from the air within an enclosure, providing an inexpensive yet highly effective way to protect electronic and electrical components from condensation.

Features

- Reduces corrosion that can limit the life of internal electrical and electronic components
- Condenses moisture from internal enclosure air and standing liquids
- Built-in drain provision with plastic hose directs collected moisture to the Vent Drain (sold separately)
- Rotating side air vents direct recirculating air away from critical controls
- Mounts via DIN rail on internal panel or mounts directly onto the inside bottom of enclosure above the Vent Drain (sold separately)
- Can be used in mild steel, aluminum, stainless steel and non-metallic enclosures

Specifications

- High-impact ABS shell
- Operates on 24-Volt DC power
- 4.5 amps max (84 watts)
- Runs continuously above 32 F [a] (power supply not included)
- Removes 8 oz. of moisture in 24 hours
- Compact 6.00-in. x 5.50-in. x 5.75-in. design
- One Thermoelectric Dehumidifier includes:
  - Four feet of plastic hose
  - Two hose retainers
  - One double-ended hose retainer
  - Six inches of Velcro®
  - Seven-inch strip of DIN rail
  - Two mounting screws

Must be used with UL-certified drain to remove pooled liquid from enclosure.

[a] *If continual operation is not desired, a Mechanical Hygrostat (AMHUM) can be wired to the thermoelectric dehumidifier and then set to turn the dehumidifier on at the desired relative humidity.*

VELCRO is a trademark of Velcro Industries B.V.

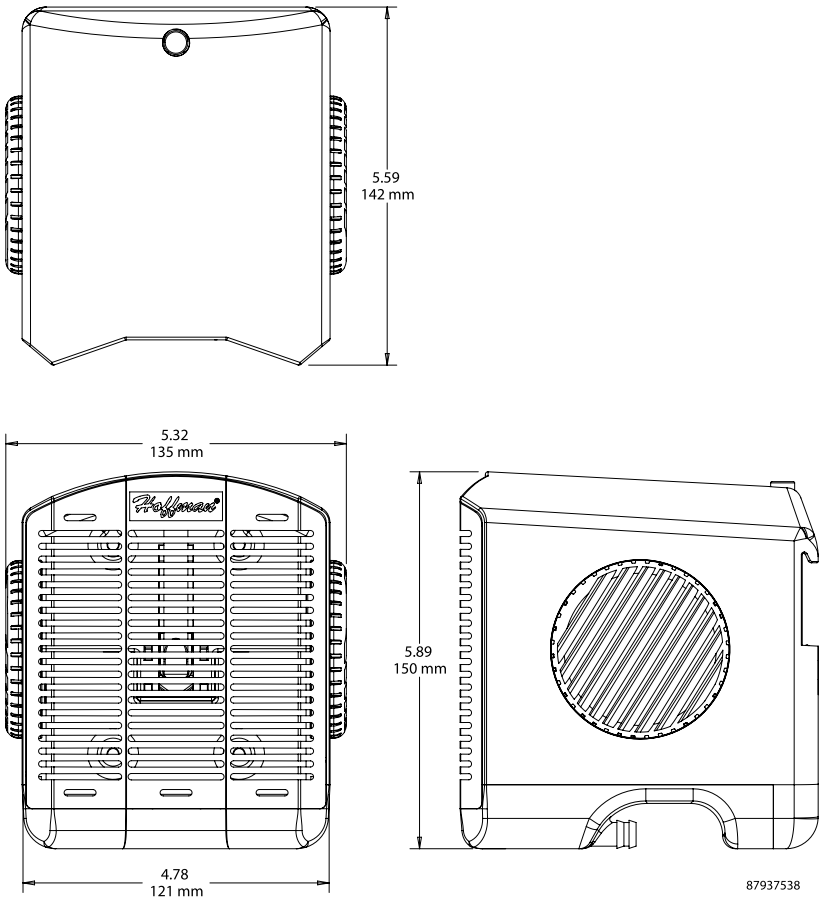
Bulletin: H2O

Standard Product

Catalog Number	Description
H2OMITTER	Thermoelectric Dehumidifier

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Condensation and Pressure Compensation Devices



Dew Point Temperature **Percent Relative Humidity**

Temp. (° F)	100%	95%	90%	85%	80%	75%	70%	65%	60%	55%	50%	45%	40%	35%	30%	25%	20%	15%	10%
110	110	108	106	104	**102**	100	98	95	93	90	87	84	80	76	72	65	60	51	41
105	105	103	101	99	**97**	95	93	91	88	85	83	80	76	72	67	62	55	47	37
100	100	99	97	95	**93**	91	89	86	84	81	78	75	71	67	63	58	52	44	32
95	95	96	92	90	**88**	86	87	81	79	76	73	70	67	63	59	54	48	40	32
90	90	88	87	85	**83**	81	79	76	74	71	68	65	62	59	54	49	43	36	32
85	**85**	**83**	**81**	**80**	**78**	76	74	71	69	67	64	61	58	54	50	45	38	32	—
80	80	78	77	75	73	71	69	67	65	62	59	56	53	50	45	40	35	32	—
75	75	73	72	70	68	66	64	62	60	58	55	52	49	45	41	36	32	—	—
70	70	68	67	65	63	61	59	58	55	53	50	47	44	40	37	32	—	—	—
65	65	63	62	60	59	57	55	53	50	48	45	42	40	36	62	—	—	—	—
60	60	58	57	55	53	52	50	48	45	43	41	38	35	32	—	—	—	—	—
55	55	53	52	50	49	47	45	43	40	38	36	33	32	—	—	—	—	—	—
50	50	48	46	45	44	42	40	38	36	34	32	—	—	—	—	—	—	—	—
45	45	43	42	40	39	37	35	34	32	—	—	—	—	—	—	—	—	—	—
40	40	39	37	35	34	32	—	—	—	—	—	—	—	—	—	—	—	—	—
35	35	34	32	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
32	32	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Definition: Dew Point is the temperature at which condensation forms. If the temperature of the enclosure is 85 F and the relative humidity is 80 percent, Dew Point is reached at a temperature of 78 F or below.
This means that moisture vapor will condense on any surface that is below the Dew Point temperature of 78 F.

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