

HI-E DRY 100

High-Efficiency Dehumidifier

Hi-E Dry 100 dehumidifiers are designed and built with emphasis on efficiency and durability. Today's Hi-E Dry 100 dehumidifiers remove up to seven pints of water per kilowatt hour, while the industry average remains at only two to three pints.

The high-efficiency design of Hi-E Dry 100 dehumidifiers offer more than just dramatically reduced utility costs. The larger water removal capacity from a smaller, more efficient refrigeration system eliminates the need for 220 volt circuits in many applications. The smaller refrigeration system allows Hi-E Dry 100 dehumidifiers to cost less than other commercial dehumidifiers of equal capacity.

The Hi-E Dry 100 high efficiency dehumidifier utilizes refrigeration to cool the incoming air stream below its dew point as it passes through the dehumidification (evaporator) coil. This cooling results in the removal of moisture (latent heat) and reduction in temperature (sensible heat). The cooled and dried air is used to pre-cool the incoming air stream resulting in up to a 200 percent increase in overall efficiency. After the pre-cooling stage the processed air is reheated by passing through the condenser coil. The latent heat removed by the evaporator coil is returned to the air stream at this stage as sensible heat, resulting in an overall temperature increase from the incoming air.



Features:

- Controlled by a dehumidistat with settings from 20 to 80 percent relative humidity and a positive "on" and "off" setting.
- Contains a blower switch that permits continuous blower operation independent of dehumidification.
- Portable and provided with four casters.
- Contains an internal condensate pump capable of lifting condensate 17 feet and 20 feet of condensate hose.
- Wiring is through a factory installed six foot power cord; 115 volt with ground.

Water Removal Rates (Pints/Day)

172 pints	90°F, 90%
129 pints	80°F, 80%
106 pints	80°F, 60% (AHAM)
113 pints	70°F, 80%
83 pints	70°F, 60%
94 pints	60°F, 80%
64 pints	60°F, 60%
67 pints	50°F, 80%
25 pints	50°F, 60%

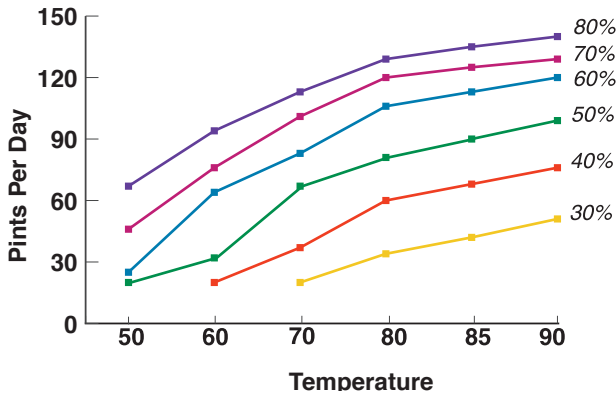


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Capacity; Pints per Day

		Relative Humidity					
		30	40	50	60	70	80
Air temp	50				25	46	67
	60			32	64	76	94
	70		37	67	82.9	101	113
	80	34	60	81	106	120	129
	85	42	68	90	113	125	135
	90	51	76	99	120	129	140



Minimum Performance at Set Conditions

Intake Air	70° 60%	80° 60%
Water removal/day	86 Lbs	110 Lbs
Pints/KWH	6.0	6.8

Specifications

Part Number	4021500
Power	115 VAC 7 amps
Kilowatts	0.61 (80° 60%)
Water Removal	106 pints (80°, 60%)
Blower	255 CFM
Operating Range	33°F–110°F
Filters	20"x16"x2" Pleated Media, 65% MERV-11

Warranty

Five years:
1st year 100% of Parts and Labor
2nd-5th year 100% of Parts of sealed refrigerant system

Dimensions

	Unit	Shipping
Width	20"	25"
Height	36"	41"
Depth	17"	24"
Weight	110 Lb	125 Lb

Accessories and Replacement Air Filters

4021475	16" x 20" x 2" Pleated Media 65% MERV-11
4024969	16" x 20" x 2" Pleated Media 30% MERV-8(Optional)
4021468	Air Filter, Foam Element
4021453	Optional Duct Kit (for Inlet & Outlet)
4020623	Optional Outlet Collar (for Ducting Outlet only)



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HIGH EFFICIENCY DEHUMIDIFICATION

Therma-Stor LLC
Driven by performance. Powered by design.™

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