

Quest Hi-E Dry 100



High-Efficiency Dehumidifier

Quest Hi-E Dry 100 dehumidifiers are designed and built with emphasis on efficiency and durability. Today's Quest 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 Quest 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 Quest Hi-E Dry 100 dehumidifiers to cost less than other commercial dehumidifiers of equal capacity.

The Quest 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.
- Environmentally friendly R410A refrigerant.

Water Removal Rates (Pints/Day)

| | |
|------------------|--------------------------|
| 172 pints | 90° F, 90% |
| 129 pints | 80° F, 80% |
| 110 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% |



Engineered Excellence for
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Specifications subject to change without notice.04/14



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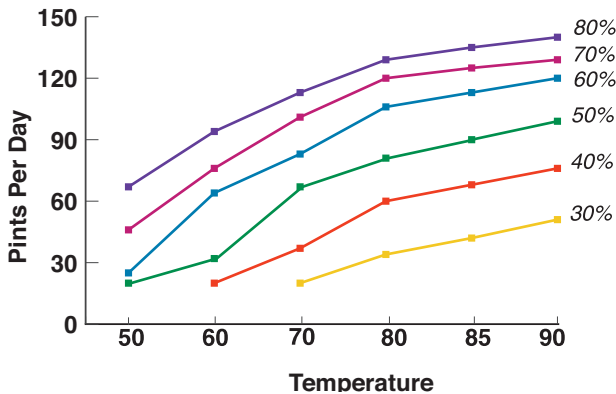


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Capacity; Pints per Day

| | | Relative Humidity | | | | | |
|----------|----|-------------------|----|----|-----|-----|-----|
| | | 30 | 40 | 50 | 60 | 70 | 80 |
| Air temp | 50 | | | | 25 | 46 | 67 |
| | 60 | | | 32 | 64 | 76 | 94 |
| | 70 | | 37 | 67 | 83 | 101 | 113 |
| | 80 | 34 | 60 | 81 | 110 | 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 | 114 Lbs |
| Pints/KWH | 6.0 | 6.3 |

Specifications

| | |
|-----------------|---------------------------------------|
| Part Number | 4029730 |
| Power | 115 VAC 6.4 amps |
| Kilowatts | 0.70 KW (80° 60%) |
| Water Removal | 110 pints (80°, 60%) |
| Blower | 275 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) |



ETL Listed



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