

## Phoenix 270HTx

### Automatic Bypass Technology for Maximum Water Removal

The Phoenix 270HTx is one of the most effective and versatile drying devices available. The Phoenix 270HTx features more water removal (161 pints per day@AHAM) and higher grain depression than other refrigerant dehumidifiers, while drawing only 8.9 amps of electricity.

The 270HTx features Phoenix's patented bypass design, which is now enhanced to compensate for temperature automatically. By sensing and adjusting to temperature changes in the drying chamber, the 270HTx maximizes water removal over an extended operating range without the need for manual adjustments.

At higher temperatures, where typical LGRs lose effectiveness, the Phoenix 270HTx automatically adjusts to continue removing moisture. This offers several advantages to the restorer, including faster evaporation rates, quicker drying, and elimination of the need to remove or modify equipment for temperature control.

The downward-focused exhaust airflow directs dehumidified low-grain air toward the floor, while a raised base improves drying directly under the dehumidifier. The Phoenix 270HTx also features a recessed condensate outlet, inboard wheels, increased airflow with higher static pressure and an improved skid plate design.

As always, Phoenix dehumidifiers feature significant air filtration. The standard 65% MERV-11 filter removes over 90% of seven-micron particles (the size of a human red blood cell). This filtration improves the air quality in the areas being dried and assures the continued optimal performance of the refrigeration system.

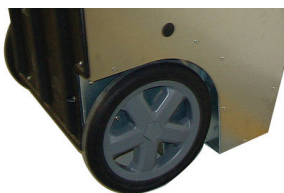
The multiple ducting options on the Phoenix 270HTx allow for ducting both the intake air and the filtered, dehumidified exhaust air.



Patented  
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TECHNOLOGY

#### Features

- **Automatic Bypass Technology** – Patented technology automatically adjusts for temperature variation, increasing performance over a wider operating range.
- **High Capacity** - Removes 161 pints per day at AHAM
- **8.9 amps** - Removes over 6.5 pints/kWh.
- **R-410A Refrigerant**
- **More Grain Depression** - Drier air from an LGR finishes jobs quicker versus a conventional refrigerant dehumidifier.
- **Focused Airflow** - Patented focused outlet directs air downward across the wet surface.
- **Motorized Impeller** - 380 CFM; Faster drying and superior static pressure for ducting.
- **Multiple Ducting Options** - 12" intake, 10" exhaust.
- **Solid State Controls** - Easy to read and operate.
- **Recessed 12" Wheels** - Allows greater maneuverability on the job site and efficient storage. Rolls over obstacles with ease.
- **MERV-11 Pleated Media Air Filter**



*Inboard wheels allow for tighter storage and improve maneuverability.*



*A skidplate protects the Phoenix 270HTx from damage while loading and unloading, and in transport.*

## Phoenix 270HTx

### Specifications

<b>Part No.</b>	4028600
<b>Power</b>	8.9 amps, 110-120 VAC, Grounded
<b>Water Removal</b>	161 pints/day @ AHAM (80 °F, 60%) 34 gal/day maximum @ saturation
<b>Blower</b>	380 CFM Internal Condensate Pump with 20' lift, 30' vinyl hose
<b>Refrigerant Charge</b>	1 lb, 10 oz. R-410A
<b>Operating Range</b>	33 °F to 125 °F
<b>Filters</b>	16" x 20" x 2" Pleated Media MERV-11
<b>Duct Options</b>	Intake – 12" Flex-Duct Outlet – 10" Lay-Flat
<b>Warranty</b>	Five years; 1st year 100% of Parts and Labor 2nd-5th year 100% of sealed refrigeration system parts.

### Dimensions

	<b>Unit</b>	<b>Shipping</b>
Width	20"	24"
Height	40"	47"
Depth	23"	26"
Weight	130 lbs	148 lbs

### Popular Accessories And Replacement Filters

4024750	12" x 25' Intake Flex Duct
4024935	10" x 250' Lay-flat Duct
4024969	16" x 20" x 2" Pleated Media MERV-8
4021475 (Standard)	16" x 20" x 2" Pleated Media MERV-11
4022489	4" Mini-Pleat Media 95% MERV-14 (Optional)
4030115	Reed LM-8000 Meter

**Patent**      **7,246,503**  
                   **7,281,389**  
                   **7,540,166**

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 TECHNOLOGY

The Phoenix 270HTx is designed to maintain water removal capacity up through 125 °F. In order to accomplish this, Phoenix engineers created a highly effective method of bypassing ambient air over the condenser when ambient temperatures are above 80 °F.

**Above 80°F** – When used in high temperature conditions (above 80 °F), the refrigerant pressure inside the condenser rises. The automatic bypass door slowly opens between 80 °F and 90 °F to direct additional airflow over the condenser, and direct less airflow across the evaporator. Redirecting the airflow lowers the refrigerant pressure in the condenser while also slowing down the air across the evaporator. Lower airflow across the evaporator allows the air to reach its dew point.

**Between 50°F and 80°F** – When used in normal operating temperature ranges (50 °F to 80 °F), the automatic bypass door remains closed. This allows increased airflow across the evaporator and increases performance by increasing the amount of air that is dehumidified.

**Below 50°F** – When the Phoenix 270HTx is used in very cool operating temperatures (below 50 °F), frost will form on the evaporator coil as it dehumidifies. When enough frost forms the solid state controls will initiate a defrost cycle. The defrost cycle periodically turns off the compressor while allowing the blower to run. The automatic bypass door will remain closed in this operating range. Increased airflow and static pressure will help defrost the evaporator more quickly and efficiently.



*The Phoenix 270HTx features a sleek body style with chamfered corners for maneuverability in its legendary stainless steel cabinet.*