3,000+ PPD WITH 4800 CFM PROCESS AIRFLOW

Phoenix 4800E - Desiccant Dehumidifier

INDUSTRIAL DESICCANT DEHUMIDIFIER

The Phoenix 4800 Industrial Desiccant Dehumidifier is built with the restorer in mind. The 4800 has two truly exceptional features, which are its ease of use and its reliability on the job site. The robust construction is designed to withstand the rigorous conditions of water damage restoration, shipyards, off- and on-shore petrochemical facilities, manufacturing plants and the general rental industry. The well designed footprint fits in the bed of a pick-up truck (with the tailgate down).

The 4800 is constructed primarily of light-weight aluminum for maximum strength and corrosion resistance. The Phoenix 4800 removes over 3,000 pints of water per day at AHAM and has an operating range of -10°F to 140°F. This unit comes equipped with a reactivation temperature sensor that controls the amount of heat going into the rotor, so that the desiccant is always operating under optimum conditions.

FEATURES

- 3032 pints/day AHAM
- 4800 CFM process airflow
- Dries in temperatures to 140°F
- Reaches dew points as low as -40°F
- 48"W x 120"L x 66"H (desiccant only)
- 48"W x 120"L x 74"H (desiccant with frame)
- 1550 lbs. (desiccant only)
- 1675 lbs. (desiccant with frame)
- 480 volt 3-phase
- 106 amps

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3,000+ PPD WITH 4800 CFM PROCESS AIRFLOW

Phoenix 4800E - Desiccant Dehumidifier

SPECIFICATIONS

PART NUMBER

4034830 (with frame)
4034820 (without frame)
4034850 (with frame docking)
4034840 (without frame docking)

POWER

480 Volt three-phase unit
106 amps

WATER REMOVAL

3032 PPD (175LPD) at 80°F/60% RH (AHAM)

CFM

4800 CFM Process Airflow

FILTERS

Pleated 20" x 20" x 2" Media MERV-11 (Process)
Pleated 9" x 11 3/8" x 1/4" Media MERV-11 (Reactivation)

DUCTING OPTIONS

Heavy Duty PVC/Polyester Duct 20" x 25' 6" Pitch
Heavy Duty PVC/Polyester Duct 20" x 25' 4" Pitch
NOTE: Duct with 4" pitch is mandatory for the return duct if you are recirculating.

DIMENSIONS

	UNIT	SHIPPING
WIDTH:	48"	48"
HEIGHT	66"	74"
DEPTH:	120"	120"
WEIGHT:	1550 lbs	1675 lbs

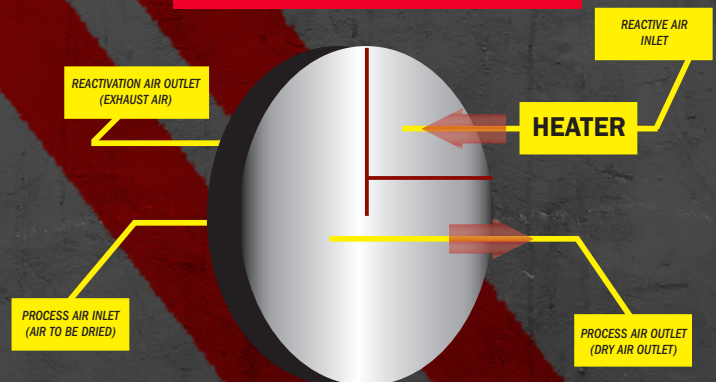### OPERATING RANGE

-10°F to 140°F

WARRANTY

Year 1 - 100% of Parts and Labor
Year 2 - Silica Gel Rotor

PRINCIPLES OF OPERATION

- Unlike refrigeration based dehumidifiers, which chill air below its dew point to condensate the water vapor, the 4800 desiccant based systems act more like a sponge.
- Moisture laden air is drawn through the rotor in the process air stream. The desiccant embedded in the rotor "soaks-up" this moisture and holds on to it.
- The dried process air is ducted into the required area.
- The rotor brings the soaked desiccant into the reactivation air stream where it is heated up.
- The hot air "squeezes" the moisture back into the reactivation air stream as water vapor.
- The wet reactivation air is ducted outside to the atmosphere.
- The 4800 Desiccant simply functions as an air-to-air moisture exchanger, taking moisture out of the process air stream and placing it into the reactivation airstream.

How Desiccant Dehumidification Works

REACTIVE AIR INLET

REACTIVATION AIR OUTLET (EXHAUST AIR)

HEATER

PROCESS AIR INLET (AIR TO BE DRIED)

PROCESS AIR OUTLET (DRY AIR OUTLET)

The 4800 Desiccant is fully equipped for continuous automatic operation in a totally turn-key factory assembled package. The casing of the Phoenix 4800 desiccant is 1/8" aluminum, seam welded over a 1.25" square tube frame. The access doors of the 4800 are designed so that the rotor can be removed from either side and to allow full interior access from the front. The combination of having no penetration on the top of the unit and the "roll over" access doors make this machine extremely weather and corrosion resistant– suitable for any demanding job from water damage restoration to the general rental industry.

The 4800 will signal an alarm both audibly and visually if a fault is detected. The rotor (which is composed of 80% desiccant by mass) is able to withstand temperatures of up to 2000°F without any breakdown or burnout. The rotor is chain driven, employs high quality Viton seals to minimize air leakage and is mounted to a 1.25" square tube frame in a precision laser cut, fully welded stainless steel cassette.