DHA & DBA Series
Heat Reactivated Desiccant Dryers
DHA & DBA series externally heated and blower purge desiccant air dryers

Parker domnick hunter Externally Heated and Blower Purge Desiccant Air Dryers use the adsorption method to remove moisture from compressed air. Nominal pressure dew points ranging from -40°F (-40°C) to -100°F (-70°C) are achieved by directing the flow of saturated compressed air over a bed of desiccant.

The most commonly used desiccant is activated alumina, a spherically shaped, hygroscopic material, selected for its consistent size, shape and extreme surface to mass ratio. This physically tough and chemically inert material is contained in two pressure vessels commonly referred to as “dual” or “twin” towers. As the saturated compressed air flows through the bed of the “on-line” tower, its moisture content adheres to the surface of the desiccant.

Benefits:

**Highest quality air**
- Master controller allows for ‘on-line’ drying and purging thereby stripping accumulated moisture from the ‘off-line’ bed

**Energy efficient**
- Maximum energy savings

**Dry air means zero corrosion**
- Preventing product spoilage, recall and litigation

**Optimized air flow**
- Heat combines with dry compressed air or ambient air in a slow and precise flow adsorbing moisture accumulated on desiccant surface

**OIL-X EVOLUTION pre & after filtration**

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The heated, low pressure purge air flows gently through the regenerating bed, adsorbing the moisture that accumulated on the surface of the desiccant during the drying cycle and exhausting it to the atmosphere.
DHA & DBA dryers - How they work

Parker domnick hunter’s patented Multi-Port Regeneration System (DHA Series) affects superior desiccant bed regeneration and, as a result, provides better and more consistent performance.

The Multi-Port Regeneration System injects heated purge air at precise points up and down the towers’ length providing a more balanced distribution of heat. This system prevents the desiccant on top from prematurely deteriorating while providing the bottom of the chamber with enough heated purge air to allow complete regeneration on every cycle. The energy saving temperature monitoring system senses the exiting purge air temperature. When the purge air temperature increases to a pre-set point at which the desiccant bed is fully heated and regenerated, the heater is turned off.

Parker domnick hunter’s Primary Blowdown System is standard on all DHA Series and DBA Series heat reactivated air dryers 1000 scfm and larger. It improves performance and efficiency while increasing desiccant life. The depressurization stage also strips moisture from the bottom of the tank through a purge muffler. Once depressurization is complete, the system switches to the main exhaust where final regeneration is accomplished with low pressure purge air. By eliminating the main exhaust mufflers, back pressure is also eliminated which allows for more thorough regeneration and less maintenance.

In the event of prefilter/auto drain failure, up flow drying protects the desiccant bed from contamination of bulk liquids and oil since they stay on the bottom of the tank and get discharged during blowdown. When down flow drying, liquids and oil will gravity drain through the entire bed to the bottom of the tank.
DHA & DBA dryers - operational status

The sequence annunciator indicates the status of each tower. LED’s indicate which tower is “on-line” drying, “off-line” regenerating as well as the regeneration stages.

**Digital Readout**
The Control Center features a backlit four line character display that monitors operation and status. Including regenerating countdowns and time remaining.

**ThermaLoc™ (10 Year Heater Warranty)**
The Control Center also controls domnick hunter’s “ThermaLoc™” heater protection system. ThermaLoc™ ensures maximum reliability and eliminates the safety concerns often associated with heat reactivated dryers. Heaters are protected by a totally redundant dual shutdown system that utilizes independent contactors. In addition to the redundant temperature controllers, the system monitors pressure and shuts the heater down in the event of low line pressure. Blower purge dryers have controls to prevent the heater from energizing if the blower is not running.

**Dual Mode Heatless Back Up System**
Allows the dryer to function in either the primary heated mode or the auxiliary heatless mode. Should the system experience a temporary overload or a heater failure, the dryer can easily be switched over to operate in the heatless mode. This way the dryer will remain on line until such time as service can be conveniently scheduled. The Dual Mode Back Up System offers unparalleled flexibility, eliminates downtime and prevents business interruptions.

**Manual Stepping**
Allows the operator to quickly and safely step the dryer through a complete 8 hour cycle, in a matter of minutes.
DHA & DBA dryers - components and equipment

Parker domnick hunter’s Externally Heated and Blower Purge dryers are designed to process a specific volume of compressed air and deliver it to the discharge at a desired pressure dewpoint. Both dryers are rated for a -40°F (-40°C) pressure dewpoint.

Non-Lubricated Valves
Dryers up to 800 scfm are equipped with our time-proven and dependable non-lubricated switching valves. These independent, air operated valves are specifically designed for compressed air service. They are resistant to desiccant dust and can be maintained without being removed from the dryer.

Butterfly Actuated Valves
High Performance Butterfly Actuated Switching Valves are standard on dryers 1000 scfm and larger. These premium, air operated butterfly valves are specifically designed for compressed air. They provide more opening and closing force compared to other types of valves. An indicator shows the “opened/closed” position of the valve and service can be performed without disturbing dryer piping.

Tower insulation
The tower, heater, and purge lines are insulated to increase dryer performance and efficiency by reducing radiant heat loss. It also keeps the unit within the safety parameters set forth by OSHA. Insulation suitable for indoor service is standard on all Parker domnick hunter Heat Reactivated Dryers (Insulation suitable for outdoor service is an available option).

- Failure to Switch Alarm
- Contacts for Common Alarm
- Systems Sequence Annunciator
- Auxiliary Cooldown
- Heater, Blower Flow Interlock (DBA Models)
- Blower Silencer (DBA Models)
- Compressor Surge Protection
- Control Center
- Redundant Heater Control System (ThermaLoc™)
- Cycle Stepping
- Dual Mode, Heatless Backup
- Fail-Safe Operation
- Control Air Filter
- Long Life and Low Watt Density Heater
- Independent Switching Valves
- Moisture Indicator
- Purge Flow Indicator
- Full Instrumentation
- Indoor Tower Insulation
- Separate Tower Fill/Drain Ports
- Power Saver Exhaust Termination (early regeneration)
- Pressure Equalization
- Stainless Steel Diffuser Screens
- Standby Mode
- Structural Steel Base (1000 scfm & larger)
- Cushioned Seat Check Valves
- High Performance Butterfly Valves (1000 scfm & Larger)
- ASME Coded Vessels
- 10 Year Heater Warranty
- Actuator Valve Limit Switch*
- Pre and After Set Filters*
- Outdoor Insulation*
- ModBus
- All NEMA Classifications*
- Non-Yellow Metals*
- Pressure to 1000 psi g (69 bar g)*
- Star Watch®*
- Non-Standard Voltages*
- PowerLoc™*
- Ethernet connection*
- RS485 connection*

*Dewpoint spikes, inherent on all blower and heat purge dryers, can be reduced by activating Parker domnick hunter’s standard Supplemental Cool Down Purge feature. Standard ratings are based on inlet conditions of +100°F [38°C], 100 psi g [7 bar g] and 100% flow. Dryer performance will vary with different inlet conditions.

*Optional Equipment
An inlet temperature reduction of just 20°F (-7°C) will reduce the moisture load by almost 50%. Desiccant dryers are normally sized for "worst case" operation with the cycle fixed to accommodate maximum moisture loads. Because the fixed cycle does not compensate for fluctuating loads, dryers not equipped with DDS waste energy by regenerating more often than necessary. DDS eliminates this unnecessary use of energy by delaying regeneration until the total design moisture load is achieved. The system monitors actual moisture loading and limits the number of purge cycles accordingly.

Digital dew point control provides for additional energy savings by allowing the operator to select higher dewpoints when appropriate. The moisture probe is contained in and protected by a rugged, stainless steel housing with a 80 micron sintered metal guard and a pressure rating of 3000 psi g. This housing increases the sensor’s ability to withstand reasonable shock and vibration.

The housing also contains an electronics package for continuous self calibration, temperature compensation, and signal stabilization. Due to less frequent cycling, switching valves and desiccant will last longer and require less maintenance.

The DDS ceramic sensor is made from state-of-the-art metallized ceramic and replaces traditional materials such as aluminum, silicon and hydroscopic salts. This fast response sensor is made from a ceramic tile that is plated and vapor deposited to form a surface that is very sensitive to small changes in water vapor pressure.

The proprietary coating processes make the ceramic sensor inherently faster to respond than other impedance or capacitive sensors currently available. The ceramic sensor features the latest digital technology with calibration data stored directly in the sensor’s memory, and is equipped with a built-in thermistor for automatic temperature compensation. DDS is traceable to the National Institute of Standards and Technology. A certificate of traceability is available.

At $0.08 per KWH, DDS would save $6,730 annually when used with a 1000 scfm externally heated dryer operating at 75% load for 8,000 hours, at an average inlet temperature of +80°F (27°C).
DHA & DBA Dryers - control center

Parker domnick hunter’s Control Center for Heat Reactivated Desiccant Air Dryers features a complete complement of data acquisition functions. All Parker domnick hunter Heated Desiccant Dryers are remotely accessible by RemoteWatch™ software which can be downloaded at http://divapps.parker.com/divapps/pdf/Starwatch/. Star Watch® activated dryers can monitor and analyze every moment of operation, 24-7; it can be done wirelessly.

- RemoteWatch™ Software - virtual control, diagrams and graphics
- Star Watch® ready with 68 channels of data and over 60 process values
- Temperature and pressure instrumentation package
- Energy Management PowerLoc™ dewpoint digital readout with Power Save (optional)
- Two extra user defined 4-20 mA or 1-5 Vdc inputs with setpoints and alarms for connection to your flow meter, power meter, etc.
- Intelligent display with operational information
- Full system retentive alarm network (event) log
- Programmable process set points
- Dryer operating “state” annunciation display
- Automatic data logging 24/7, 365 days of all operational information
- 16 Channel “programmable” common alarm
- RS-232 communications port (Optional RS-485)
- Access system via Star Watch® or Modbus protocols
- UL Rated Components
- 160 Fields of operational information
- Dual Mode communications. Modbus Protocol, and Star Watch® Protocol
- Connectivity: telco line and cellular wireless modem
- Ethernet (optional)
# DHA Series Dryers

## Product Selection -40°F (-40°C) with Activated Alumina Desiccant

<table>
<thead>
<tr>
<th>Model</th>
<th>Flowrate @ 100 psi (g (scfm))</th>
<th>Heater (kW)</th>
<th>Dimensions ins (mm)</th>
<th>Weight</th>
<th>Dryer Connection Size</th>
<th>Pre-Filter</th>
<th>After-Filter</th>
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<td></td>
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*Referenced to 68°F (20°C) and 14.5 psi a (1 bar a).*
### Correction Factors

To obtain dryer capacity at new conditions, multiply nominal capacity \( \times C_1 \times C_2 \).

#### Temperature Correction Factor CFT

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<thead>
<tr>
<th>Temperature Correction Factor CFT</th>
<th>°F</th>
<th>80</th>
<th>85</th>
<th>90</th>
<th>95</th>
<th>100</th>
<th>105</th>
<th>110</th>
<th>115</th>
<th>120</th>
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<td>Maximum Inlet Temperature (C1)</td>
<td>°C</td>
<td>27</td>
<td>29</td>
<td>32</td>
<td>35</td>
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<td>41</td>
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<td>CFT</td>
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#### Pressure Correction Factor CFP

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<th>Pressure Correction Factor CFP</th>
<th>psi g</th>
<th>80</th>
<th>85</th>
<th>90</th>
<th>95</th>
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<th>110</th>
<th>115</th>
<th>120</th>
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<tr>
<td>Minimum Inlet Pressure (C2)</td>
<td>bar g</td>
<td>5.51</td>
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<td>7.58</td>
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<td>1.22</td>
<td>1.26</td>
<td>1.31</td>
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### Notes

1. Grade AA & AR filters are included in base unit price. Filters supplied mounted on Models DHA250 - DHA800.
2. DDS (Dewpoint Dependent Switching) includes energy saving purge cycle control with high humidity alarm and digital dewpoint display. When ordering DDS, use DS as suffix. (Example: DHA500DS)
3. Above information should be used as a guideline. Flows are at 100 psi g inlet pressure, 100°F inlet temperature and 100°F ambient temperature. For specific applications, please consult Parker Domnick Hunter Technical Services at fafquotes@parker.com.
4. Weight includes desiccant (shipped loose Models DHA2000 and up).
5. For sizing at other temperatures, pressures, and dew points please consult factory.

### Description

<table>
<thead>
<tr>
<th>Description</th>
<th>Flow Range @ 100 psi g (7 bar g)</th>
<th>Nominal Dewpoint</th>
<th>Max Operating Pressure</th>
<th>Min Operating Pressure</th>
<th>Max Inlet Temp</th>
<th>Min Inlet Temp</th>
<th>Controls</th>
<th>Dewpoint Control</th>
<th>Standard Electrical Supply</th>
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<tbody>
<tr>
<td>DHA100 - DHA250</td>
<td>100 - 250 cfm</td>
<td>-40°F (-40°C) Standard</td>
<td>150 psi g (10.3 bar g)</td>
<td>80 psi g (5.5 bar g)</td>
<td>120°F (49°C)</td>
<td>50°F (10°C)</td>
<td>Microprocessor</td>
<td>Optional</td>
<td>240V/1PH/60Hz 460V/3Ph/60Hz (optional)</td>
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<td>DHA300 - DHA1500</td>
<td>300 - 1500 cfm</td>
<td>-40°F (-40°C) Standard</td>
<td>150 psi g (10.3 bar g)</td>
<td>80 psi g (5.5 bar g)</td>
<td>120°F (49°C)</td>
<td>50°F (10°C)</td>
<td>Microprocessor</td>
<td>Optional</td>
<td>460V/3Ph/60Hz - Control Power 115V/1Ph/60Hz (575V/3Ph/60Hz Optional)</td>
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<tr>
<td>DHA2000 - DHA8000</td>
<td>2000 - 8000 cfm</td>
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<td>135 psi g (9.3 bar g)</td>
<td>80 psi g (5.5 bar g)</td>
<td>120°F (49°C)</td>
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<td>Microprocessor</td>
<td>Optional</td>
<td>460V/3Ph/60Hz - Control Power 115V/1Ph/60Hz (575V/3Ph/60Hz Optional)</td>
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**www.parker.com/faf**
# DBA Series Dryers

## Product Selection -40°F (-40°C) with Activated Alumina Desiccant

<table>
<thead>
<tr>
<th>Model</th>
<th>Flowrate @ 100 psi (scfm)</th>
<th>Heater Blower (kW)</th>
<th>HP</th>
<th>Dimensions ins (mm)</th>
<th>Weight</th>
<th>Dryer Connection Size</th>
<th>Pre-Filter</th>
<th>After-Filter</th>
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<td></td>
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<td>Height (H)</td>
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<td>Depth (D)</td>
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<td>18910 8577</td>
<td>6&quot; Flg</td>
</tr>
<tr>
<td>DBA5000</td>
<td>5000</td>
<td>100</td>
<td>15</td>
<td>114 (2896)</td>
<td>156 (3982)</td>
<td>92 (2337)</td>
<td>21590 9793</td>
<td>6&quot; Flg</td>
</tr>
<tr>
<td>DBA6000</td>
<td>6000</td>
<td>115</td>
<td>20</td>
<td>112 (2845)</td>
<td>146 (3708)</td>
<td>92 (2337)</td>
<td>24890 11290</td>
<td>6&quot; Flg</td>
</tr>
<tr>
<td>DBA7500</td>
<td>7500</td>
<td>135</td>
<td>25</td>
<td>CF</td>
<td>CF</td>
<td>CF</td>
<td>CF</td>
<td>8&quot; Flg</td>
</tr>
<tr>
<td>DBA9000</td>
<td>9000</td>
<td>150</td>
<td>30</td>
<td>CF</td>
<td>CF</td>
<td>CF</td>
<td>CF</td>
<td>8&quot; Flg</td>
</tr>
</tbody>
</table>

*Referenced to 68°F (20°C) and 14.5 psi a (1 bar a).
Correction Factors
To obtain dryer capacity at new conditions, multiply nominal capacity x C1 x C2.

<table>
<thead>
<tr>
<th>Description</th>
<th>Flow Range @ 100 psi g (7 bar g)</th>
<th>Nominal Dewpoint</th>
<th>Max Operating Pressure</th>
<th>Min Operating Pressure</th>
<th>Max Inlet Temp</th>
<th>Min Inlet Temp</th>
<th>Controls</th>
<th>Dewpoint Control</th>
<th>Standard Electrical Supply</th>
</tr>
</thead>
<tbody>
<tr>
<td>DBA100 - DBA1500</td>
<td>500 - 1500 cfm</td>
<td>-40°F (-40°C) Standard</td>
<td>150 psi g (10.3 bar g)</td>
<td>80 psi g (5.5 bar g)</td>
<td>120°F (49°C)</td>
<td>50°F (10°C)</td>
<td>Microprocessor</td>
<td>Optional</td>
<td>460V/3Ph/60Hz, Control Power 115V/1Ph/60Hz - (575V/3Ph/60Hz Optional)</td>
</tr>
<tr>
<td>DBA2000 - DBA9000</td>
<td>2000 - 9000 cfm</td>
<td>-40°F (-40°C) Standard</td>
<td>135 psi g (9.3 bar g)</td>
<td>80 psi g (5.5 bar g)</td>
<td>120°F (49°C)</td>
<td>50°F (10°C)</td>
<td>Microprocessor</td>
<td>Optional</td>
<td>460V/3Ph/60Hz, Control Power 115V/1Ph/60Hz - (575V/3Ph/60Hz Optional)</td>
</tr>
</tbody>
</table>

Notes
1. *Grade AA & AR filters ARE included in base unit price. Filters supplied mounted on Models DBA500 - DBA800.
2. DDS (Dewpoint Dependent Switching) includes: energy saving purge cycle control with high humidity alarm and digital dewpoint display.
When ordering DDS, use DS as suffix. (Example: DBA8000DS)
3. Above information should be used as a guideline. Flows are at 100 psi g inlet pressure, 100°F inlet temperature and 100°F ambient temperature.
4. Weight includes desiccant (shipped loose Models DBA2000 and up).
5. For sizing at other temperatures and pressures, please consult factory.

Correction Factors
To obtain dryer capacity at new conditions, multiply nominal capacity x C1 x C2.

<table>
<thead>
<tr>
<th>Temperature Correction Factor CFT</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Maximum Inlet Temperature (C1)</strong></td>
</tr>
<tr>
<td>°F</td>
</tr>
<tr>
<td>°C</td>
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<tr>
<td>CFT</td>
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</table>

<table>
<thead>
<tr>
<th>Pressure Correction Factor CFP</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Minimum Inlet Pressure (C2)</strong></td>
</tr>
<tr>
<td>psi g</td>
</tr>
<tr>
<td>bar g</td>
</tr>
<tr>
<td>CFP</td>
</tr>
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Worldwide Filtration Manufacturing Locations

North America
Compressed Air Treatment
Filtration & Separation/Balston
Haverhill, MA
978 858 0505
www.parker.com/balston

Finite Airetek Filtration
Airetek/domnick hunter/Zander
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www.parker.com/faf

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Laval, QC Canada
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www.parkerfarr.com

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Phoenixville, PA
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www.parker.com/processfiltration

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Velcon Filtration
Colorado Springs, CO
719 531 5855
www.velcon.com

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www.parker.com/dhfns

Parker Gas Separations
Etten-Leur, Netherlands
+31 76 508 5300
www.parker.com/dhfns

Hiross Zander
Padova Business Unit
Padova, Italy
+39 049 9712 111
www.parker.com/hzd

Hiross Zander
Essen Business Unit
Essen, Germany
+49 2054 9340
www.parker.com/hzd

Engine Filtration &
Water Purification
Racor
Dewsbury, England
+44 (0) 1924 487 000
www.parker.com/rfde

Racor Research & Development
Stuttgart, Germany
+49 (0)711 7071 290-10
www.parker.com/rfde

Hydraulic Filtration
Hydraulic Filter
Arnhem, Holland
+31 26 3760376
www.parker.com/hfde

Ujrala Operation
Ujrala, Finland
+358 20 753 2500
www.parker.com/hfde

Condition Monitoring Centre
Norfolk, England
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+44 (0) 1733 232 495
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Parker Twin Filter BV
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www.twinfofilter.com

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