High Efficiency Compressed Air Dryers

Adsorption Dryers
Modular System
Compressed air purification equipment must deliver uncompromising performance and reliability whilst providing the right balance of air quality with the lowest cost of operation and CO₂ emissions. Adsorption dryers totally clean and dry compressed air down to -40 °C pressure dewpoint as standard. For critical applications, adsorption dryers can be specified to provide a pressure dewpoint of -70 °C. A pressure dewpoint of -26 °C or better will not only prevent corrosion, but will also inhibit the growth of micro-organisms within the compressed air system.

### Modular Dryers at a glance

#### Adsorption Dryers A1TX – A14TX
- **Heatless regeneration pressure swing adsorption**
- **Capacity:** 0.13 – 1.40 m³/min
- **Pressure dew points:** -25 °C / -40 °C / -70 °C
- **Multitronic controller**
- **Operating pressure:** 5 – 16 barg
- **Pre- and after-filter are included**
- **Optional:**
  - A1TXT to A14TXT, with energy saving dew point dependent control
  - Signal splitter, dew point analogue signal 4 – 20 mA
  - Balance line regeneration air at synchronous control
  - Soft start device at low system pressure
  - Filter silencer additional noise reduction
  - Electronic delta p gauge for pre and after filter from AF012
  - Zero loss drain Bekomat for pre filter

####Adsorption Dryers A1TXA – A14TXA
- **Heatless regeneration pressure swing adsorption with activated carbon stage**
- **Rest oil content down to 0.003 mg/m³**
- **Oil indicator tube**
- **Optional:**
  - A1TXAT to A14TXAT, with energy saving dew point dependent control
  - Signal splitter, dew point analogue signal 4 – 20 mA
  - Balance line regeneration air at synchronous control
  - Soft start device at low system pressure
  - Filter silencer additional noise reduction
  - Electronic delta p gauge for pre and after filter from AF012
  - Zero loss drain Bekomat for pre filter

#### Adsorption Dryers A7XS – A50XS
- **Heatless regeneration pressure swing adsorption**
- **Capacity:** 0.68 – 5.00 m³/min
- **Pressure dew points:** -20 °C / -40 °C / -70 °C
- **Smart controller**
- **Operating pressure:** 16 bar / A7XS to A25XS and 13 bar / A30XS to A50XS
- **Pre- and after-filter are included**
- **Optional:**
  - A7XSDDS – A50XSDDS with energy saving dew point control DDS
  - Pneumatic version, A7XP – A50XP

#### Adsorption Dryers A68XS – A340XS
- **Heatless regeneration pressure swing adsorption**
- **Capacity:** 6.8 – 34 m³/min
- **Pressure dew points:** -20 °C / -40 °C / -70 °C
- **Smart controller with DDS**
- **Operating pressure:** 4 – 13 barg
- **Pre- and after-filter are included**
- **Optional:**
  - A68XE – A340XE with advanced energy saving electronic control system
  - Pneumatic version, A68XP – A340XP

#### Adsorption Dryers A40RS – A190RS
- **Heat regenerative thermal swing adsorption**
- **Capacity:** 4.0 – 20 m³/min
- **Pressure dew points:** -20 °C / -40 °C / -70 °C
- **Smart controller**
- **Pre- and after-filter are included**
- **Operating pressure:** 4 – 13 barg
- **Optional:**
  - A40RSDS – A190RSDS with energy saving dew point control DDS
  - A40REDS – A190REDS with advanced energy saving electronic control system
Aluminium extrusions are used throughout for drying chambers and distribution manifolds. This design allows the desiccant material to be retained within the drying chambers and when used in conjunction with the unique snowstorm filling technique, prevents movement of the desiccant material during operation and all but eliminates desiccant attrition and breakdown which leads to loss of pressure dewpoint.

**Adsorption Dryer Operation - Drying Cycle**

The process air enters the dryer through the inlet and is directed into the on-line drying chamber via the inlet valves and lower manifold. The air is evenly distributed through the drying columns and passes over the desiccant material, reducing the water vapour content. The dried process air then combines in the upper manifold and exits the dryer via the outlet check valves.

**Adsorption Dryer Operation - Regeneration Cycle**

*Heatless Pressure Swing Adsorption*

At the start of the regeneration cycle, the exhaust valve of the dryer is closed and the off-line chamber is at full line pressure. The air in the off-line chamber has a dewpoint equal to the air leaving the dryer. The exhaust valve is then opened and the dry air within the chamber expands rapidly as it leaves the dryer via the exhaust silencer, forcing water to be removed from the desiccant material. Once the off-line chamber has de-pressurised, a continuous bleed of dried process air is directed into the off-line upper manifold. This air is known as purge air. With the exhaust valve open, the purge air expands from line pressure to atmospheric pressure and flows downwards through the columns, over the off-line desiccant material. As the purge air at line pressure contains a fixed amount of water vapour, allowing it to expand means the purge air becomes even drier, increasing its capacity to remove water from the saturated desiccant bed.

**Adsorption Dryer Operation - Regeneration Cycle**

*Heat Regenerative Thermal Swing Adsorption*

The regeneration cycle of a dryer is similar to that of the heatless dryer described above, however to reduce the amount of purge air required, heat is added to assist the process. Two heater assemblies are strategically placed in each drying column to heat the purge air, optimising regeneration. The heaters are switched on after the column has de-pressurised, to again reduce energy consumption. The combination of dry purge air and heat uses less energy to remove the water from the saturated desiccant bed than is consumed by purge air alone. After a preset time, the heaters are switched off and the off-line bed is allowed to cool before changeover.
A1TX - A14TX and A7XS - A50XS models

- A TX and A XS models use only single extrusions, with a pressure die-cast inlet and outlet assembly
- Compressed air capacity within these ranges is increased by varying the length of the drying columns
- The greater the flow required, the longer the drying column

A68XS - A340XS models

- These models use multiple drying columns of equal length to provide required compressed air capacity
- The greater the flow required, the more drying columns are used (up to the maximum length of the manifold)

Adsorbent fill method - snowstorm filling

Unique to CompAir modular dryers is the snowstorm filling technique used to charge the drying chambers with adsorbent desiccant material. The benefits of the snowstorm filling technique include:

- Achieves maximum packing density for the desiccant material, fully utilising all of the available space envelope
- Prevents channelling of air through the desiccant as seen on traditional twin tower designs. Due to channelling, twin tower designs require more desiccant to achieve an identical dewpoint, increasing physical size, operational and maintenance costs
- Prevents desiccant attrition which can lead to dusting, blocked filters and loss of dewpoint
- Allows 100% of the available desiccant material to be used for drying, therefore reducing the amount of desiccant required and maintenance costs
- 100% of the desiccant is regenerated ensuring consistent dewpoint
- Provides a low, equal resistance to air flow allowing multiple drying chambers and multiple dryer banks to be used, a feature only available with Adsorption Dryer
- Ensures continuous dewpoint performance
Adsorption dryers provide efficient removal of water vapour from compressed air

Delivered air quality is in accordance with ISO 8573-1:2010

Improves production efficiency and reduces maintenance costs and downtime

Pressure Dewpoint’s of -20 °C / -25 °C, -40 °C and -70 °C

Ideal for both compressor room and point of use applications

Low noise level

CompAir’s unique modular construction and snowstorm filling of the adsorbent desiccant material provides:

- Consistent dewpoint performance
- A smaller, more compact and lightweight dryer
- Simple to install and easy to maintain
- Fully corrosion protected inside and out
- Approvals to International Standards (PED, CSA/UL/CRN)
- Eliminates the need for costly annual pressure vessel inspections
- 10 year guarantee on pressure envelope

Distribution manifolds and drying columns are all constructed from lightweight, high tensile extruded aluminium

The shape of the extrusion varies on each model range

All extrusions are below 150 mm (6”) in diameter, which is under the pressure vessel inspection requirements of ASME

Fully corrosion protected

Compressed air pre & after filtration

Adsorption dryers are designed only for the removal of water vapour, and not liquid water, water aerosols, oil, particulates or micro-organisms. Only by using CompAir compressed air pre and after filtration the removal of these contaminants is guaranteed and air quality in accordance with ISO 8573-1:2010 be delivered.

Adsorbtent desiccant material

Selected for optimum dewpoint performance, dryers delivering a -40 °C pressure dewpoint utilise a split bed of activated alumina and molecular sieve. For critical applications, dryers delivering a -70 °C pressure dewpoint are filled with a special blend of molecular sieve.

All desiccant materials are specially selected to provide:

- Optimum adsorption and regeneration capacity - to ensure consistent dewpoint
- Low dusting - to prevent blockage of down-stream filtration
- High crush strength - to prevent breakdown of the desiccant during operation
- High resistance to aggressive and oil-free condensate - for compatibility with all types of air compressor, their lubricants and condensate
## Heat Regenerative Adsorption Dryer A40RS - A190RS

<table>
<thead>
<tr>
<th>Inlet Temperature max. °C</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
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Example: Pressure dew point: -70 °C, conversion factor 0.53. Example: Flow 0.45 m³/min, 35 °C, 5 barg = 0.45 / 0.75 / 0.53 = 1.13 m³/min. Choose type A12TX or use selection software.

## Heatless Regenerative Adsorption Dryer A7XS - A340XS

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## Heat Regenerative Adsorption Dryer A40RS - A190RS

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<td>0.75</td>
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<td>0.61</td>
<td>0.67</td>
<td>0.72</td>
<td>0.79</td>
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</table>

Example:
Compressed air to be treated
Flow max.: 2 m³/min
Pressure min.: 5 barg
Inlet temperature max.: 35 °C
Dew-point: -40 °C
Selected dryer range A7XS – A340XS
Factor from table: 0.75

\[
\text{flow conversion factor} = \frac{\text{Dryer nominal capacity min.}}{0.75} = \frac{2 \text{ m}^3/\text{min}}{0.75} = 2.67 \text{ m}^3/\text{min}
\]

Choose: Typ A30XS or use selection software.

### Adsorption Dryer Controller Features

<table>
<thead>
<tr>
<th>Controller Options</th>
<th>Function</th>
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<tbody>
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<td></td>
<td>Power on Indication</td>
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<tr>
<td>Smart</td>
<td>•</td>
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<tr>
<td>Smart DDS</td>
<td>•</td>
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<tr>
<td>Multitronic</td>
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<tr>
<td>Advanced</td>
<td>•</td>
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<tr>
<td>Pneumatic</td>
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Examples of controllers:
- SMART
- SMART DDS
- ADVANCED
- Multitronic

*Remote Volt Free Alarm Contacts:此项功能允许用户在某些情况下通过远程电压来触发警报。
### Heatless Regeneration Pressure Swing Adsorption Dryers

<table>
<thead>
<tr>
<th>Type</th>
<th>Capacity* m³/min</th>
<th>Dimension mm</th>
<th>Inlet &amp; Outlet Connection</th>
<th>Design Pressure bar (g)</th>
<th>Weight kg</th>
<th>Pre-filter Type</th>
<th>After-filter Type</th>
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<tbody>
<tr>
<td>A001TX</td>
<td>0.13</td>
<td>326</td>
<td>400</td>
<td>216</td>
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<td>G1/4</td>
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*Type** Capacity* Dimension mm Inlet & Outlet Connection Design Pressure Weight Pre-filter After-filter

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<tr>
<th>Type</th>
<th>Capacity* m³/min</th>
<th>Dimension mm</th>
<th>Inlet &amp; Outlet Connection</th>
<th>Design Pressure bar (g)</th>
<th>Weight kg</th>
<th>Pre-filter Type</th>
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<td>G3/4</td>
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### Electric connection 230 V / 1 / 50 − 60Hz, installed power 0.04 kW, protection class IP54

### Heat Regeneration Thermal Swing Adsorption Dryers

<table>
<thead>
<tr>
<th>Type**</th>
<th>Capacity* m³/min</th>
<th>Dimension mm</th>
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*Type** Capacity* Dimension mm Inlet & Outlet Connection Design Pressure Weight Pre-filter After-filter

<table>
<thead>
<tr>
<th>Type</th>
<th>Capacity* m³/min</th>
<th>Dimension mm</th>
<th>Inlet &amp; Outlet Connection</th>
<th>Design Pressure bar (g)</th>
<th>Weight kg</th>
<th>Pre-filter Type</th>
<th>After-filter Type</th>
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</table>

### Electric connection 415 V / 3 +neutral / 50 − 60Hz

*) Relating to ISO 7183, A: 1 bar(a), ambient temperature +25°C, inlet temperature +35°C, saturated, at 7 barg and pressure dew point − 25°C.

**) Pre- and after filter are not factory mounted
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