Adsorption Dryer Heat Regenerated

The scope of application for compressed air dried by adsorption dryers are generally outdoor installations that are at risk of frost and compressed air applications with very high requirements in terms of the degree of dryness, such as process air in the food, electronic, pharmaceutical, chemical, measuring and process technology industries. Adsorption dryers are used both in centralized and decentralized compressed air treatment due to their unrestricted scalability.

Adsorption dryers remove the moisture directly from the compressed air. The desiccant used in adsorption dryers binds water molecules and completely separates the moisture from the compressed air. Pressure dew-points down to -70°C can be achieved by using adsorption dryers.

Adsorption dryers are suitable for continuous operation and are available for all volume flow and pressure ranges. Adsorption dryers also offer different regeneration types for efficient compressed air drying in terms of various performance ranges.

DTS V

Heating in suction mode
Fast cooling in suction mode
No purge air consumption

Achievable pressure dew-points
[-40°C] – [-70°C]
Maximal volume flow
410 – 14.700 m³/h
Maximal operating pressure
11 bar
Connection
DN 40 – DN 200

DTS BVL

Serial heating in blower mode
Fast cooling in suction mode
Closed loop
No purge air consumption

Achievable pressure dew-points
[-40°C] – [-70°C]
Maximal volume flow
1.230 – 14.700 m³/h
Maximal operating pressure
11 bar
Connection
DN 80 – DN 200

DTC
Regeneration with compressor heat (heat of compression)
Achievable pressure dew-points
[-10°C] – [-50°C]
Maximal volume flow
410 – 14.700 m³/h
Maximal operating pressure
11 bar
Connection
DN 40 – DN 200