### PRESS RELEASE

**Accessories for high-quality, dry compressed air**

Maximum efficiency, high volumetric flow rates:
BOGE presents its new series of adsorption dryers

The electronic and automotive industries with their huge manufacturing plants and pharmaceutical manufacturers with their strict requirements share one common feature: the need for the total exclusion of contamination and water from their industrial processes. And the same goes for the entire production chain and, therefore, also the generation of compressed air. Compressed air specialist BOGE is on hand to help with its external heated regeneration adsorption dryers. The new DAV-2 series has been producing dry compressed air since April 2021: thanks to their thermal insulation, these dryers are more energy-efficient, safer and more readily accessible for servicing and maintenance than previous models. In addition, they also boast high-quality PLC control, a range of different interfaces and even IoT connectivity.

Compressed air system users in sensitive manufacturing areas such as in the pharmaceutical, electronic and automotive industries are constantly aware that the growth of any microorganisms needs to be stopped at all costs. To ensure the required compressed air remains free from any contamination or humidity even at high volumetric flow rates, the new DAV-2 series external heated regeneration adsorption dryers are the ideal solution. They are able to generate particularly dry compressed air with a reliable pressure dew point of –40°C (optional: 70°C) and reliably achieve purity classes of 2.2.2 (solid particulates, water and oil) or 2.1.2 in accordance with ISO 8573-1: 2010.

Large range of options now integrated a standard

The dryers in the DAV-2 range with high-performance pre-filters and afterfilters can achieve flow rates of 450 - 7,302 m3/h at a maximum operating pressure of 11 bar. They come as standard fitted with a thermally insulating cover and protection against accidental contact. The thermal insulation reduces heat losses resulting in improved operating safety, and achieving energy savings of around 4%. Particular features include a new high-end PLC control with 7” touchscreen display for permanent monitoring, analysis and evaluation of all relevant parameters. The dew point control system permits switching between the receivers where necessary, meaning the drying phase can be lengthened and energy consumption reduced.

The dryer can be controlled via a range of different interfaces (Modbus, Profibus etc.) and the USB interface on the switch cabinet allows software to be updated or report logs to be downloaded for subsequent analysis. To simplify transport and installation, the height of the receivers has been reduced and their diameter increased. This has made it possible to reduce the differential pressure, and the low height means the dryer can be installed in a standard container. Thanks to the generous dimensions of the service ports and considerably improved accessibility, service and maintenance tasks – as well as refilling the desiccant or exchanging the filter element – are simpler than ever. The desiccant bed comes as a ready-to-fit system component directly from BOGE.

Dry compressed air at low energy consumption

Adsorption dryers are also sometimes referred to as vacuum regeneration dryers, as ambient air is drawn over the desiccant bed via an external heating element with the help of a vacuum pump during the regeneration process. Unlike heatless adsorption dryers which use ready dried process air to regenerate the desiccant, the “zero purge” technology of the DAV-2 series requires nothing more than ambient air. This prevents purge air, resulting in up to a 25% saving in energy consumption when compared with existing systems. The result is dry compressed air with a pressure dew point of up to –70°C at extremely low energy consumption and high volumetric flow rates.

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**Caption:** With its adsorption dryers from the new DAV-2 range, BOGE offers an optimum solution for the generation of dry compressed air for use in sensitive applications.

**Über BOGE**

Mit der Erfahrung von mehr als 110 Jahren gehört die BOGE KOMPRESSOREN Otto Boge GmbH & Co. KG zu den ältesten Herstellern von Kompressoren und Druckluftsystemen in Deutschland. Das Unternehmen ist einer der Marktführer. Ob Schraubenkompressoren, Kolbenkompressoren, Scrollkompressoren oder Turbokompressoren, komplette Anlagen oder einzelne Maschinen – BOGE erfüllt unterschiedlichste Anforderungen und höchste Ansprüche. Präzise und qualitätsbewusst. Das international tätige Familienunternehmen beschäftigt rund 700 Mitarbeiter und wird von Olaf Hoppe und Michael Rommelmann geführt. Seinen internationalen Kunden bietet BOGE mit zahlreichen Verkaufsbüros und Tochtergesellschaften einen umfassenden Service. Das Unternehmen liefert seine Produkte und Systeme in weltweit mehr als 120 Länder.

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