



DRYPOINT® AC HP
PREMIUM HIGH-PRESSURE DRYING

HIGH QUALITY COMPRESSED AIR FROM BEKO

The quality of your compressed air.

RELIABLE

The highest level of operational reliability is guaranteed with every product that BEKO manufactures.

EFFICIENT

Maximum energy efficiency and conservation are guiding principles of every product design.

ECONOMIC

Products that provide the quickest return on investment in the industry with the least amount of risk.

EFFECTIVE

German engineered with no compromises on quality.

EXPERIENCE

More than 25 years of industry leading experience stands behind our entire product offering.

SOLUTIONS

Your single source for a range of performance compressed air products designed to work in synergy.

Compressed air treatment and condensate technology.



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OUTSTANDING SOLUTIONS FOR EXCEPTIONAL REQUIREMENTS

Many solid particles, high oil fractions, aggressive condensates under high pressure: Safe and reliable compressed-air drying under such conditions requires experience and competence.

The BEKO DRYPOINT® AC HP convinces by its conception, performance and structural details with a high surplus value. DRYPOINT® AC HP high-pressure dryers are uncompromisingly designed to meet special requirements. All pressure-bearing components are manufactured out of stainless steel. Therefore, aggressive condensates on the interior walls of the tubes, which accumulate during operation, will not damage the desiccant container and the filter.

On the following pages, you will find further examples which demonstrate the exemplary nature of the DRYPOINT® AC HP as an efficient and economical high-pressure dryer.



+1: MADE OF STAINLESS STEEL
AS STANDARD

+2: LONGEST SERVICE LIFE

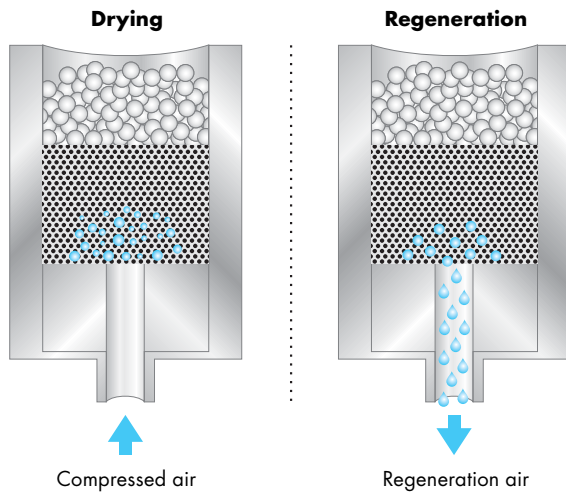
+3: PROBLEM-FREE AND
FAST MAINTENANCE

+4: EASY HANDLING
AND INSTALLATION

+5: THIS IS WHAT YOU SHOULD
PAY ATTENTION TO

THE DIFFERENCE IS IN THE DETAIL

The active principle of the settling chamber



- Compressed-air velocity is reduced
- Compressed air is optimally distributed
- Free condensate is stored and forms larger droplets

- Condensate is discharged
- The demister and the tubes are dried



RELIABILITY

In the inlet of the desiccant container, there is a highly efficient settling chamber with a separator and a storage function. In this manner, the condensate is kept away from the desiccant, retained and discharged during regeneration.

PROFITABILITY

This intelligent control saves the respective status of the program run. At a re-start, the program is continued at the point of interruption. In this manner, overload of the adsorbent is reliably prevented. The advantages of this solution are operational reliability and energy-saving coupling of compressor operation.

MAINTAINABILITY

- All components and construction elements are front-accessible and connected from the front
- They are suspended individually and do not stress the pipework
- Three independent valve units instead of a combination valve block facilitate the maintenance and reduce the cost for spare parts
- The construction is particularly resistant to vibrations and, therefore, is ideal for mobile employment

COMPREHENSIVE STANDARD EQUIPMENT

Highly efficient adsorbents guarantee the reliable under running of the required pressure dew point.

As standard, the adsorption beds consist of stainless steel profiles with large cross sectional apertures and a screw top. This does not only reduce the maintenance efforts, but also facilitates the internal inspection of the containers.

The highly efficient filters, as standard in a stainless steel, reliably remove contamination, such as solid particles and oil fractions.

Free condensate which, for example, enters the container through post condensation, is retained by a highly efficient settling chamber which, in this form, is unique, with its separator and storage function. It is then discharged with the regeneration air.

The optimized introduction of air ensures even perfusion of the desiccant bed and thus aids in the drying process.

The DRYPOINT® AC HP is equipped with individual valve units. The separate fixings relieve the tubes. Therefore, the dryer is resistant to vibration. Operational reliability is enhanced, and the cost for spare parts reduced.

Stressed components are, as standard, supplied in stainless steel.

The compact design enhances the flexibility of the set-up.

Two separate pressure reducers for the control and regeneration air guarantee reliable operation at all times.

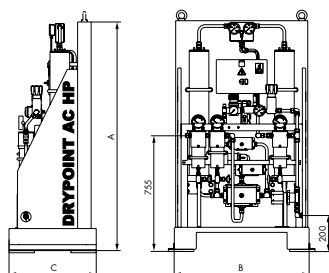
The low-pressure area is protected by a safety valve.

The control and regeneration air is taken downstream of the final filter. This results in a more reliable function and control.

The base plate enables simple transport and serves to additionally stabilize the dryer. A stable frame protects against external influences.



The DRYPOINT® AC HP is a further important contribution to enhance the quality of your compressed air. Constructed and manufactured in the known uncompromising BEKO quality. Customized dimensioning with a sufficient performance reserve for higher reliability and operational safety make the difference.



TECHNICAL DATA

DRYPOINT® AC HP

Model	Pressure max. bar	Performance Nm ³ /h	Connection Ø mm	Dimensions mm			Weight kg
				A	B	C	
AC 60 HP 100	100	60	16	1450	796	455	160
AC 90 HP 100	100	90	16	1505	796	455	160
AC 160 HP 100	100	160	16	1505	796	455	185
AC 250 HP 100	100	250	16	1775	796	455	250
AC 390 HP 100	100	390	16	1775	840	500	260
AC 110 HP 250	250	110	12	1350	796	455	210
AC 145 HP 250	250	145	12	1350	796	455	220
AC 210 HP 250	250	210	12	1675	796	455	245
AC 440 HP 250	250	440	16	1675	796	455	280
AC 665 HP 250	250	655	16	1775	840	500	310
AC 145 HP 350	350	145	12	1350	796	455	210
AC 190 HP 350	350	190	12	1350	796	455	220
AC 265 HP 350	350	265	12	1675	796	455	245
AC 540 HP 350	350	540	16	1675	796	455	280
AC 820 HP 350	350	820	16	1775	840	500	310

Higher pressures and performances upon request.

Performance data in accordance with DIN ISO 7183 are based on the maximum pressure and an inlet temperature of 35 °C. At deviating inlet conditions, please multiply with the corrective factors.

Corrective factors pressure / temperature

Bar	75	100	200	250	300	350
30 °C	0.78	1.03	0.86	1.03	0.90	1.03
35 °C	0.76	1.00	0.83	1.00	0.90	1.00
40 °C	0.59	0.78	0.65	0.78	0.70	0.78
45 °C	0.46	0.61	0.51	0.61	0.54	0.61
50 °C	0.36	0.48	0.40	0.48	0.43	0.48
55 °C	0.29	0.38	0.32	0.38	0.34	0.

Regeneration-air demand: at PDP -40 °C approx. 3 %

Each DRYPOINT® AC HP is individually adjusted to the employment conditions and to the customer's requirements. The device thus achieves highest cost-effectiveness. We would be happy to give you advice as far as processing and drying of technical gases, such as nitrogen, are concerned.

We would also like to inform you about our DRYPOINT® AC standard adsorption dryer range of products for operating pressures of up to 16 bar.

Pressure dew point default setting	-40 °C
Optional pressure dew points	-40 °C
Further pressure dew points	upon request
Inlet temperature air	5 °C min. / 55 °C max.
Ambient temperature	5 °C min. / 50 °C max.
Electric voltage supply	110/230 VAC, 50–60 Hz, 24 VDC
Inlet filter	0.01 µm
Outlet filter	0.01 µm