



Your compressed air – our know-how

Components and engineered systems for optimal compressed air and gas quality



We set the standard. With our expertise, our experience and our passion.

For more than three decades, **BEKO TECHNOLOGIES** has been developing, manufacturing and selling high-grade, high-capacity and high-efficiency components and engineered systems for optimal compressed air and gas quality. Today, we offer the complete range of products for all tasks related to compressed air and gas engineering, transportation and processing.

Judge us by our service

For us, the best measure of all the things we do is the satisfaction of our customers. Your experience and requirements are the impulses that push our innovations. Therefore, the continuous readiness to enter into dialogue and business partnerships is very important to us. Our worldwide network of subsidiaries and experienced distributors ensures this close and individual customer support in all our markets.

What counts for us is confidence

Reliability is the basis of a true partnership and of a shared vision. As an independent company, **BEKO TECHNOLOGIES** stands for freedom of decision, professionalism and consistency. We are focused on the concerns of our customers and partners and are completely committed to achieving success together.

We define quality products as cost-effective, innovative and flexible

Special employment conditions and legal requirements make increasing demands on compressed air and gas technology. We transform these requirements into successful and practical products and system solutions. Thanks to this expertise, we are recognised worldwide as a major innovator in our sector.

Condensate technology BEKOMAT® | ÖWAMAT® | BEKOSPLIT®

Electronically level-controlled condensate drainage in the compressed-air system with the BEKOMAT® – without any loss of compressed-air and with minimal energy expenditure.

Efficient and environmentally friendly condensate management with the ÖWAMAT® oil-water separation systems and the BEKOSPLIT® demulsification plants.

Drying DRYPOINT® | EVERDRY®

Significantly reduced operating costs with the application-optimized DRYPOINT® refrigerant, adsorption, and membrane dryers and the EVERDRY® heat-regenerated adsorption dryers.

Filtration | CLEARPOINT®

Low energy costs, long service lives, excellent process reliability, and safe filtration of aerosol, oil, and dust with CLEARPOINT® filter technology.

Process technology BEKOBLIZZ® | BEKOKAT®

New standards in compressed-air conditioning for highly sensitive applications with the pioneering BEKOKAT® catalysis technology for optimized production processes.

Measurement technology METPOINT®

High-precision quality-assurance management thanks to the permanent, application-specific monitoring of the compressed-air parameters with the measurement-technology program METPOINT®.

Service

Services ranging from the cleaning and maintenance of your compressed-air facility through volume-flow, pressure and leakage measurement, and all the way to online calculation tools for your plant planning.

Maintenance

Training

Measurement technology Air Audit

A new channel for compressed air

Compressed air gets things moving: us, our customers – and perhaps you too. Find out how by following the QR code to our YouTube channel.





Condensate drainage with BEKOMAT®

Generating compressed air always involves the formation of liquid condensate which, in most cases, contains oil. It is also contaminated with dirt particles which, if not removed, will disperse throughout an entire compressed air network. This is a very common problem and often results in elevated costs, damage and downtime. Using an electronically level-controlled BEKOMAT® the condensate in the compressed air system is drained automatically. The intelligent electronics prevent compressed air losses and minimise the energy input required.

Process-safe, reliable and efficient

Here are the BEKOMAT® key features:

- › Unique sensor detects all kinds of condensate
- › High dirt resistance
- › Low maintenance
- › Fully automatic monitoring
- › Saves energy, costs and lowers CO₂ emissions
- › Extensive portfolio of custom equipment for special applications



More than 3,000,000 installed devices worldwide make BEKOMAT® the industrial standard for safe and cost-effective condensate drainage.

For fast installation and maintenance, BEKOMAT® 31U/32U (with elbow connector for smooth connection) and 33U devices (with condensate receiver tank) are available. Thanks to the integrated service unit, complete replacement of all wearing parts is possible in one swift movement. The feed tank always remains in the compressed air system.

BEKOMAT® performance range	Minimum	Maximum
For compressor performances*	2.5 m ³ /min	1,400 m ³ /min

* All volume-flow indications are based upon an intake condition of 1 bar absolute and 20 °C.



Condensate processing with ÖWAMAT® and BEKOSPLIT®

Located directly at the source, oil-water separation is a more cost-effective solution for environmentally compatible condensate management than centralised treatment. The ÖWAMAT® oil-water separators do not generate any energy costs, boast enormous filter service lives and can be retrofitted without problems in older facilities.

Sustainability with a savings potential

Here are the ÖWAMAT® key features:

- › Processed condensate can be directly introduced into the sewer system as treated wastewater
- › Easiest handling through cartridge technology
- › Type approval for compressor condensates
- › No permit required according to most local laws on water quality
- › No energy costs under normal conditions

BEKOSPLIT® emulsion splitting systems reliably and cost-effectively remove oils, water-insoluble organic impurities and solid contaminations from condensate. BEKOSPLIT® operates with low splitting-agent consumption, longer filter service life and offers electronic monitoring of the operating conditions.

Environmentally friendly and cost-effective

Here are the BEKOSPLIT® key features:

- › Economical in consideration of purchase, operation and maintenance
- › Reliable, environmentally friendly, and easy to use
- › Type approval according to German standards
- › No permit required according to most local laws on water quality



ÖWAMAT® performance range	Minimum	Maximum
For compressor performances *	1.6 m³/min	58.8 m³/min

BEKOSPLIT® performance range	Minimum	Maximum
For compressor performances *	12.5 m³/min	135 m³/min

* All volume-flow indications are based upon an intake condition of 1 bar absolute and 20 °C. Performance indications depend on the compressor oil used and on the climate of the place of employment.



Filtration with CLEARPOINT®

The CLEARPOINT® filter technology guarantees low operating costs, long service life, outstanding process reliability and the safe filtration of aerosols, oil and particles. This comprehensive range of products covers a performance spectrum from 35 to 34,680 m³/h (at 7 bar) and includes threaded and flanged filters, as well as high-pressure filters up to 500 bar.

With our innovative 3E filter elements (3E = Energy Efficient Element) and flow-optimised, corrosion-protected housing construction, CLEARPOINT® offers safe and reliable filtration – and qualitatively better compressed air at significantly reduced operating costs.

Filtering in an extra energy-efficient manner

Here are the CLEARPOINT® 3E key features:

- › High-performance filtration; better compressed air quality; and significantly reduced operating costs
- › Improved separation efficiency
- › High dirt-absorption capacity
- › Super-low differential pressure
- › Performance-optimised volume flow – higher by up to 30%
- › Tested and validated in accordance with ISO 12500
- › Filters also available as water separators: CLEARPOINT® W



Filtration with 3E: extra efficient element
The filter elements of the CLEARPOINT® 3E series offer significant energy savings at maximum filtration performance

Activated-carbon adsorbers
CLEARPOINT® V activated-carbon adsorbers for top compressed air quality with a low residual oil content



CLEARPOINT® performance range	Minimum	Maximum
For energy-optimised volume flows *	35 m³/h (at 7 bar)	31,240 m³/h (at 7 bar)

* All volume-flow indications are based upon an intake condition of 1 bar absolute and 20 °C.



Drying with DRYPOINT® RA and DRYPOINT® M PLUS

The operating costs – and not the investment costs – determine the cost-efficiency of refrigeration dryers. Using DRYPOINT® RA these crucial operating costs can be halved in a five-year period.

Efficiency pays off

Here are the DRYPOINT® RA key features:

- › New high-performance controller
- › Compact design, low vibration
- › Lowest energy consumption using an energy-saving scroll compressor with fan control on smaller models
- › Best drying through a highly efficient heat exchanger combination
- › BEKOMAT® inside

The DRYPOINT® M PLUS membrane dryer features an integrated nanofilter. This innovative solution offers efficient filtration and drying in one housing.

Two in one

Here are the DRYPOINT® M PLUS key features:

- › Reliable compressed air drying with low purge air demands
- › Requires no electric energy and no desiccant
- › Optimum filtration included directly upstream of the membrane
- › TWIST 60 technology for highest efficiency
- › No change in the compressed air composition/temperature



DRYPOINT® RA performance range	Minimum	Maximum
For volume flows*	21 m³/h (at 7 bar)	8,832 m³/h (at 7 bar)



Available also without integrated filter: DRYPOINT® M

DRYPOINT® M PLUS performance range	Minimum	Maximum
Dryer performance	50 l/min	2,450 l/min (PDP reduction 20 K, 7 bar)
	32 l/min	2,250 l/min (PDP reduction 32 K, 7 bar)
	23 l/min	1,720 l/min (PDP reduction 45 K, 7 bar)
	19 l/min	1,480 l/min (PDP reduction 55 K, 7 bar)

* All volume-flow indications are based upon an intake condition of 1 bar absolute and 20 °C.



Drying with DRYPOINT® AC and DRYPOINT® AC HP

DRYPOINT® AC adsorption dryers are specifically designed to minimise pressure drop. In this way, the pressure loss is significantly lower than in conventional dryers and the saved energy costs lead to shorter payback periods.

Minimal pressure drop, low operating costs

Here are the DRYPOINT® AC key features:

- › Significantly reduced operating costs
- › High operational reliability
- › Electronic control offers particularly easy maintenance
- › Easy installation
- › Available in two different series for performance categories from 10 to 112 m³/h and 135 to 1,550 m³/h

The DRYPOINT® AC HP premium dryer reliably removes humidity from high-pressure compressed air. Every DRYPOINT® AC HP unit is individually adjusted to the application conditions and customer requirements and thereby achieves the utmost in performance efficiency.

Drying under high pressure

Here are the DRYPOINT® AC HP key features:

- › Stainless steel construction as standard
- › Very long service life
- › Intelligent control
- › Trouble-free and fast maintenance
- › Easy handling and installation
- › Demand-specific sizing



DRYPOINT® AC performance range	Minimum	Maximum
Volume flows *	10.2 m ³ /h (at 7 bar)	1,550 m ³ /h (at 7 bar)

DRYPOINT® AC HP performance range **	Minimum	Maximum
Volume flows *	60 m ³ /h (at 100 bar)	820 m ³ /h (at 350 bar)

* All volume-flow indications are based upon an intake condition of 1 bar absolute and 20 °C.

** DRYPOINT® AC HP is available for operating pressures of 100, 250 and 300 bar.



Drying with EVERDRY®

As a compressed air adsorption dryer for larger volume flows, EVERDRY® offers standardised system concepts with a wide range of configuration possibilities. In this manner, the complex problems special to compressed air drying at large volume flows are solved particularly economically, and special, customer-specific requirements are met with individual solutions. In this respect, it is not the available technology that determines the concept of a drying system, but the solution-oriented, optimum technology.

Standardised concepts, individual solutions

Here are the EVERDRY® key features:

- › ZERO PURGE
- › Standardised series up to 20,000 m³/h
- › Made-to-measure possible to any size
- › Solution-oriented technology portfolio
- › Engineering experience in many fields of application



EVERDRY® performance range	Minimum	Maximum
Volume flows *	580 m³/h (at 7 bar, standard)	20,000 m³/h (at 7 bar, standard)

* All volume-flow indications are based upon an intake condition of 1 bar absolute and 20 °C.



Measurement technology with METPOINT®

In the field of compressed air, specialised measurement technology provides the database used in the successful assessment and assurance of compressed air quality. Continuous monitoring of compressed air parameters offers process safety and the reliable identification of hidden cost drivers.

Quality can be measured:

- › METPOINT® OCV monitors residual oil vapour content in compressed air flow
- › METPOINT® MMA monitoring of breathing air
- › METPOINT® BDL Data logger
- › METPOINT® FLM accurately measures volume flow
- › METPOINT® DPM continuously monitors moisture level
- › METPOINT® PRM pressure measurement
- › METPOINT® LKD precisely and quickly identifies every leak



Process technology | BEKOKAT®



Process technology with BEKOKAT®

As far as highly sensitive applications are concerned, BEKOKAT® sets the standard in compressed air processing with its ground-breaking catalytic technology. Through oxidation, the device fully converts hydrocarbons into carbon dioxide and water, creating reliably oil-free compressed air with a maximum residual oil content of a barely measurable 0.001 milligrams per cubic metre.

Trendsetting catalysis technology

Here are the BEKOKAT® key features:

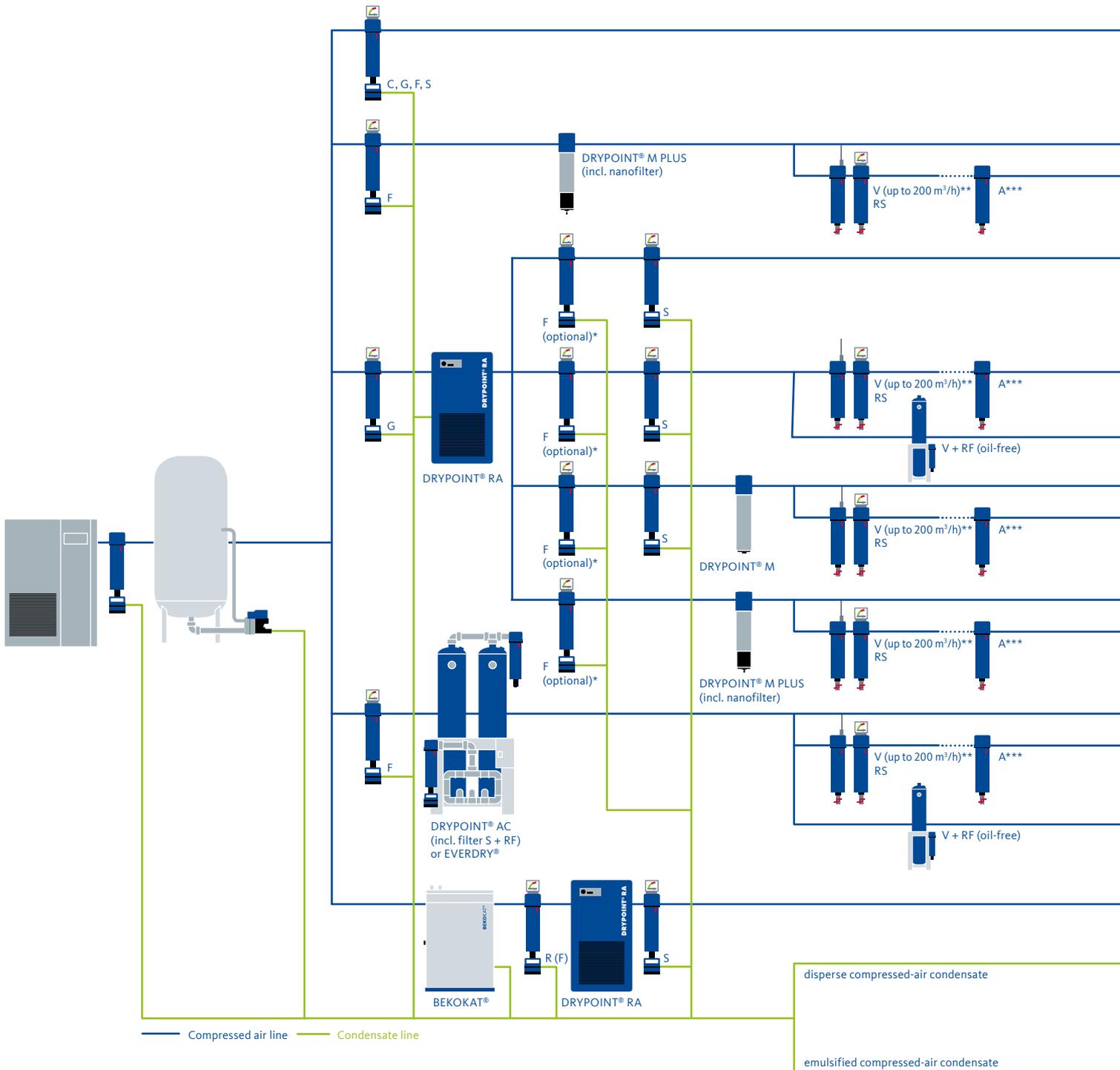
- › Oil-free and sterile compressed air, better than ISO 8573-1, class 1 oil content
- › Independent of ambient temperature, air humidity and oil inlet concentration
- › Clean and environmentally friendly
- › Partial-load operation possible, long service life



BEKOKAT® performance range	Minimum	Maximum
Volume flow *	60 m³/h (at 7 bar)	1,200 m³/h (at 7 bar)

* All volume-flow indications are based upon an intake condition of 1 bar absolute and 20 °C.

Compressed air processing according to plan: the co

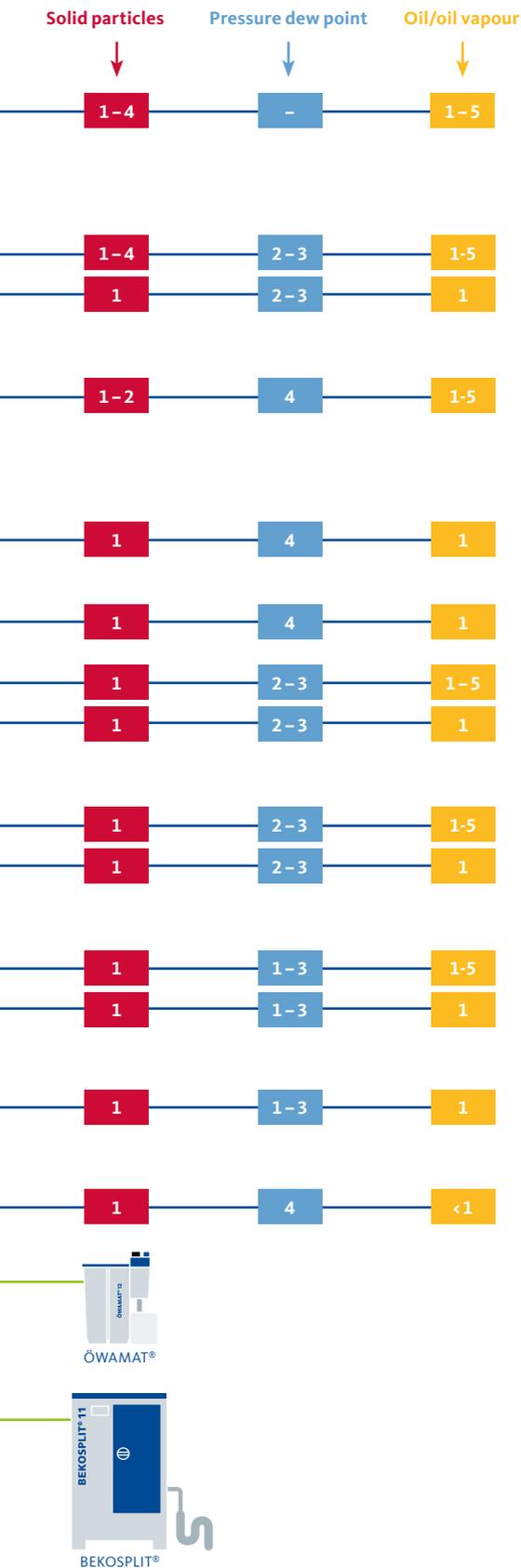


* An optional filter extends the service life of the downstream filters here.

** Also oil-free as an option.

*** A CLEARPOINT® A activated-carbon filter can alternatively be employed here. The quality classes in accordance with ISO 8573 will remain the same: the service life of an activated-carbon A filter will be shorter than the service life of the CLEARPOINT® V. In addition, a CLEARPOINT® nanofilter can be employed at the terminal point of each application.

Compressed air schedule shows all possibilities at a glance



Air qualities in accordance with ISO 8573-1:2010

Class	Solid particles, max. number of particles per m ³			Pressure dew point °C	Oil content (liquid, aerosol, oil vapour) mg/m ³
	0.1 µm < d ≤ 0.5 µm	0.5 µm < d ≤ 1.0 µm	1.0 µm < d ≤ 5.0 µm		
0	In accordance with the unit operator's or supplier's specifications, stricter requirements than class 1				
1	≤20,000	≤400	≤10	≤-70	≤0.01
2	≤400,000	≤6,000	≤100	≤-40	≤0.1
3	-	≤90,000	≤1,000	≤-20	≤1
4	-	-	≤10,000	≤+3	≤5
5	-	-	≤100,000	≤+7	>5
6	-	-	-	≤+10	-

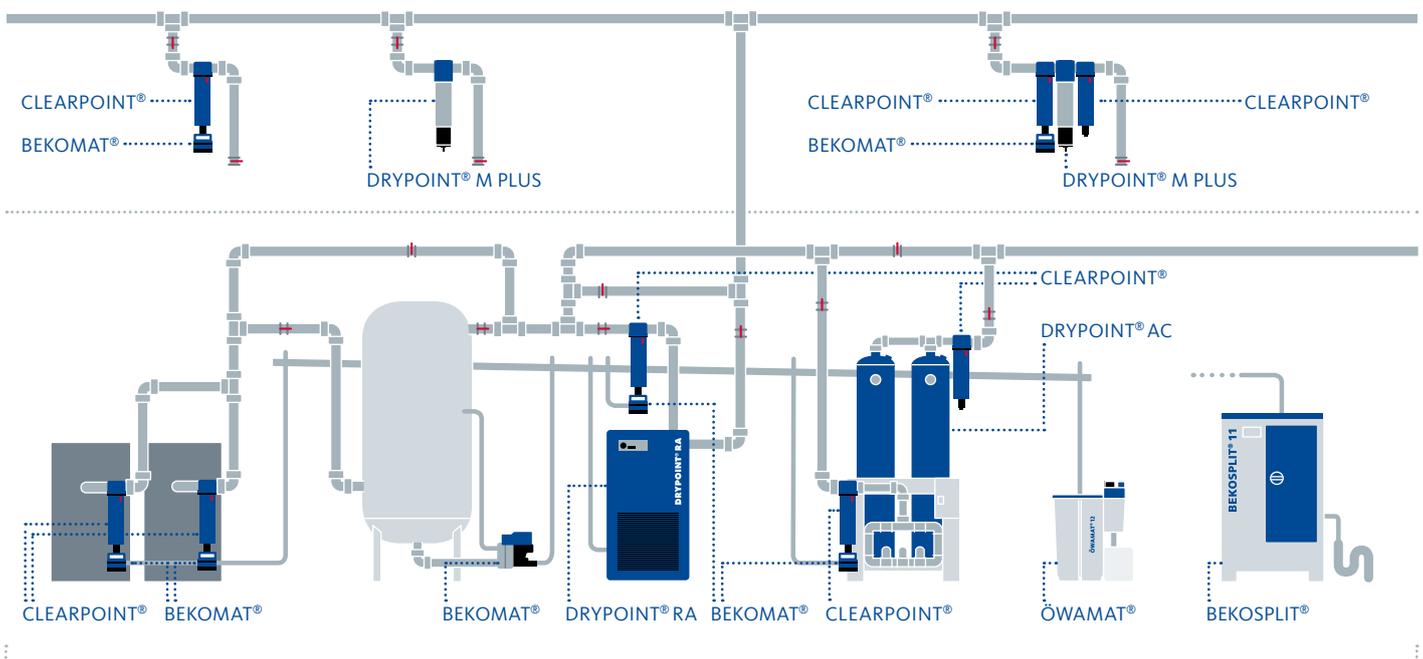
- Measured in accordance with ISO 8573-4, ref. conditions 1 bar abs., 20 °C, 0% rF
- Measured in accordance with ISO 8573-3
- Measured in accordance with ISO 8573-2 and ISO 8573-5, ref. conditions 1 bar abs., 20 °C, 0% rF

	CLEARPOINT® dust filter RF/RS with manual drain Option: differential pressure indicator		DRYPOINT® RA refrigeration dryer with BEKOMAT® DTP +3 °C
	CLEARPOINT® coalescence filter C/G/F/S/N with BEKOMAT® Option: differential pressure indicator or filter management		DRYPOINT® M PLUS membrane dryer with an integrated nanofilter PDP reduction: <20 up to >75 K
	CLEARPOINT® A activated-carbon filter Option: differential pressure indicator		DRYPOINT® M membrane dryer PDP reduction: <20 up to 75 K
	CLEARPOINT® V activated-carbon cartridge Option: oil check indicator		DRYPOINT® AC adsorption dryer with inlet and dust filter
	CLEARPOINT® V activated-carbon adsorber with RF dust filter		BEKOSPLIT® emulsion splitting plant for emulsified condensates
	CLEARPOINT® W water separator with BEKOMAT®		BEKOKAT® catalytic converter
	ÖWAMAT® oil-water separation system for disperse condensates		Compressed-air tank with BEKOMAT®

Quality with a system. Worldwide.

We at **BEKO TECHNOLOGIES** develop, manufacture and distribute throughout the world products and systems for optimal compressed air and gas quality. From the processing of compressed air and compressed gas through filtration and drying, via proven condensate technology to instruments for quality supervision and measurement. From the small compressed air application to demanding process technologies.

Since its founding, **BEKO TECHNOLOGIES** has continuously given decisive impulses to compressed air technology. Our groundbreaking ideas continue to exert considerable influence on the direction of future development. **BEKO TECHNOLOGIES** stands for trendsetting technologies, products and services.



The product - and system categories

 Condensate technology BEKOMAT® ÖWAMAT® BEKOSPLIT®	 Filtration CLEARPOINT®	 Measurement technology METPOINT®
 Drying DRYPOINT® EVERDRY®	 Process technology BEKOBLIZZ® BEKOKAT®	 Service



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