



Condensate  
technology

# QWIK-PURE®

The first active oil-water separator

Safe. Clean. Modular.



Condensate treatment  
simply redefined.



# Safe. Clean. Modular.

As the first active oil-water separator, the **QWIK-PURE®** opens up new possibilities.

Classic oil-water separators based on the principle of gravity separation can hardly be improved in terms of process technology. So, as condensate technology experts with decades of experience, we have paid special attention to the people who work with the product. What is important to them, what drives them and how can we give them the highest degree of decision-making reliability and flexibility while integrating the requirements of modern industry? As a result, we present the **QWIK-PURE®**, the first active oil-water separator with which we have fundamentally redefined condensate treatment and will change it worldwide.



Safe.



Clean.



Modular.

## Safe: Unique process, functional and future-proof

Due to the innovative mode of operation, a maximum of process and functional reliability is achieved. The integrated control system permanently displays the remaining capacity and thus ensures transparency and plannability. It also guides you through the quick and easy cartridge change and helps with service tasks via a local WLAN network. And if the power should fail, the fail-safe function ensures safe operation. In this case, the **QWIK-PURE®** behaves like a conventional gravity separator.

## Extremely flexible and future-proof

The integrated Modbus interface enables integration into higher-level monitoring and control systems and provides additional future-proofing thanks to its IIOT capability.

## Clean: Ergonomic operation protects operators

The absorbed oils are bound in the hermetically sealed cartridges. This reliably protects the operators from contamination and complies with the limit values for the discharged waste water - regardless of the compressor type and the oils used. The full cartridges can be replaced ergonomically and weigh less than 25 kg.

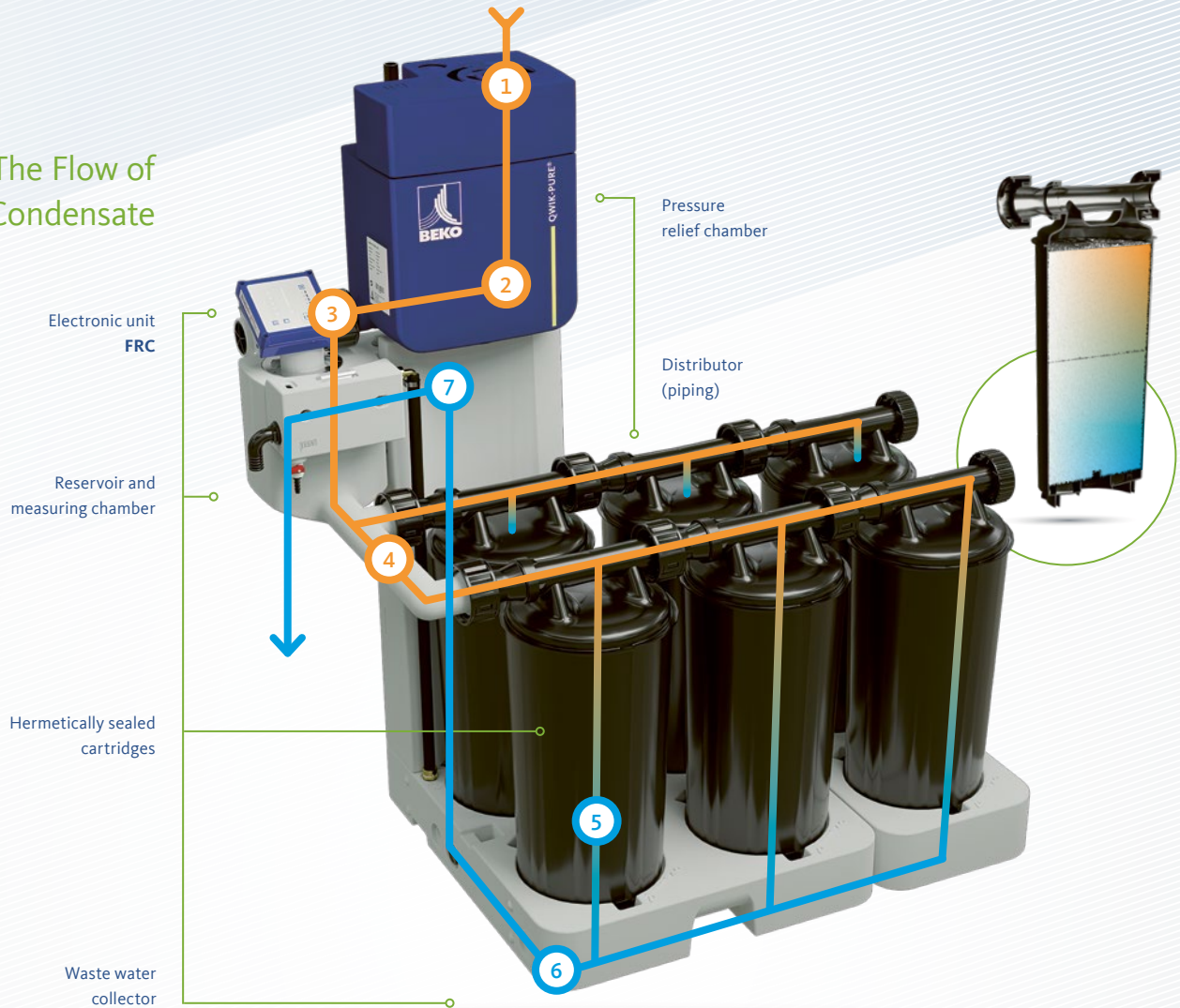
## Integrated monitoring saves resources

The integrated monitoring optimally utilises the cartridges. This means that no capacity and valuable resources are wasted. This alone more than compensates for the minimum energy consumed.

## Modular: QWIK-PURE® simply grows with you

Each **QWIK-PURE®** model can be easily expanded or scaled down according to current needs. This creates decision-making reliability and additional safety. And because exactly the same cartridge is used in all models, procurement and stock-keeping become even easier.

## The Flow of the Condensate



# Functionality of the QWIK-PURE®

While conventional oil-water separators work according to the gravity principle where condensate seeps through the filter medium, with the **QWIK-PURE®** the condensate is actively forced through the pre-filter and main filter with light blasts of compressed air. The cartridge is permanently filled with liquid, so nothing can dry out and form impermeable boundary layers. On the other hand, there are hardly any problematic cultures left with which operators or service personnel could come into contact.

The integrated **FRC** control reliably indicates the current remaining capacity of the cartridges, monitors the system and automatically controls condensate separation. This means that even temporarily increased amounts of condensate can be safely processed. And if there are problems, measures are initiated independently or an alarm is triggered.

In this case or in the event of a power failure, the **QWIK-PURE®** continues to operate in fail-safe mode like a conventional gravity separator.



QWIK-PURE® 10/15

QWIK-PURE® 30

QWIK-PURE® 60

QWIK-PURE® 90

# One cartridge fits all QWIK-PURE® models

This facilitates procurement, stock-keeping and avoids wrong orders.

## **Ergonomically designed**

When developing the cartridges, we primarily thought about the users: The inlet tube was designed as a handy and stable handle so that the cartridge can be easily transported and mounted. Thanks to the controlled drainage, even a fully saturated cartridge weighs less than 25 kg.

## **Clean cartridge change**

A reliable closing valve is integrated in the base so that nothing drips onto the floor after changing the cartridge. The blind plugs supplied for the

upper openings ensure that no liquids can escape there either.

## **Consistently hygienic**

Due to the hermetically sealed design, neither users nor service personnel come into contact with the absorbed substances inside. Everything that has been bound in the pre-filter and main filter reliably remains here and does not contaminate people in the vicinity or the discharged processed condensate.



## Sustainable, efficient and user-friendly

### **Active separation means saving!**

The active separation of the condensate costs some compressed air and electricity. But at the same time, the cartridges are utilised much more efficiently and reliably, raw materials, energy and costs can be saved. Plannable and quick service calls as well as simple stock-keeping are further saving factors that contribute to an attractive **Total Cost of Ownership (TCO)**. The absence of activated carbon and the well thought-out packaging are good for the environment and also reduce the CO<sub>2</sub> balance.

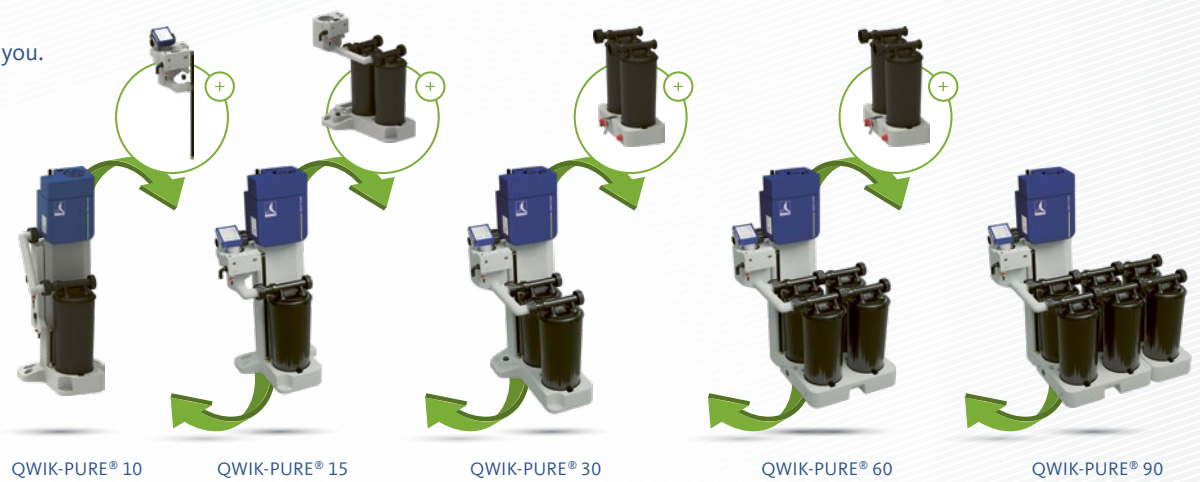
### **Safety is the focus**

Reliable protection of users from critical cultures and substances, but also ergonomic handling and easy operation are particularly important to us, as they are elementary prerequisites for problem-free operation over many years. The simple design and the unique possibility to grow with changing requirements and needs give a completely new decision-making certainty.

# Full flexibility through growing modules

The **QWIK-PURE®** can be adapted to both **higher** and **reduced** demand in just a few steps. This creates decision-making reliability and additional safety reserves. In this way, service intervals can also be adapted to other service work.

**QWIK-PURE®**  
simply grows with you.



## The upgrade kits for the **QWIK-PURE®**



### **QWIK-PURE® 10 to 15**

Here, the digital electronic unit FRC as well as the reservoir and the measuring chamber are retrofitted. This achieves active separation and increases the performance to 15 m<sup>3</sup>/min. The set also includes a new cartridge.



### **QWIK-PURE® 15 to 30**

The second cartridge doubles the performance. This requires an enlarged measuring chamber, a larger base plate and the second cartridge incl. piping. All components as well as 2 new cartridges are included in this extension package. The new capacity is 30 m<sup>3</sup>/min.



### **QWIK-PURE® 30 to 60 or 60 to 90**

This supplementary unit is simply plugged in at the side. The extended capacity is entered in the control unit and the additional power is available. In addition to the base plate, 4 or 6 new cartridges are included in this package. When attached, the new capacity is 60 m<sup>3</sup>/min or 90 m<sup>3</sup>/min.

# At a glance, the advantages of the QWIK-PURE®



## Safe



The innovative functional principle together with the permanent self-monitoring by the intelligent, network-compatible control system make the system functional and future-proof.



## Quick



The quick cartridge change, the quick extension, the quick service, but also the quick layout provide a lot of time savings.



## Universal



One cartridge size for all variants of the QWIK-PURE®. This simplifies stock-keeping and every service call.



## Certified



The German Institute for Building Technology (DIBt) confirms compliance with all legal requirements for the discharge of the treated water with the general building inspection approval.



## Efficient



The filter material used, together with the intelligent control with clear display of the remaining capacity, ensure reliable condensate separation and predictable service.



## Clean



The water-filled cartridge reduces the formation of cultures and boundary layers. The cartridge can be changed cleanly through the integrated bottom valve and blind plug.



## Modular



If the requirements for condensate treatment increase the system can be adapted on a modular basis. The design is based on the compressor capacity and the respective climate zone.



## Hygienic



Operators and service personnel no longer come into contact with contaminants and critical cultures due to hermetically sealed cartridges.



## Ergonomic



max.  
25 kg

Thanks to the controlled active drainage, fully saturated cartridges weigh max. 25 kg and can be handled and changed ergonomically.



## Networkable



The intelligent control system has a self-control system as well as various service functions and can be networked with higher-level controls via the MODBUS RS485 connection.

## Simple and safe design worldwide



Due to the unique active mode of operation of the **QWIK-PURE®**, the compressor capacity and the climate map are sufficient to select the best possible oil-water separator. The compressor type and the compressor oil used are no longer used as a design factor.

	QWIK-PURE 10	QWIK-PURE 15	QWIK-PURE 30	QWIK-PURE 60	QWIK-PURE 90	
Compressor capacity [m³/min]	Green	12.1	18.1	36.3	72.4	108.7
	Blue	10.3	15.4	30.9	61.7	92.6
	Red	9.0	13.4	26.9	53.8	80.7

## Technical data

	QWIK-PURE 10	QWIK-PURE 15	QWIK-PURE 30	QWIK-PURE 60	QWIK-PURE 90
Operating mode	static*	active	active	active	active
Maximum condensate flow	12 l/h	19 l/h	38 l/h	76 l/h	114 l/h
Condensate inlet connection	3 x G1/2", outside   1 x G1", outside   Hose nozzle				
Condensate drain connection	1 x 23 mm (0.91 in), outside, Hose nozzle				
Media	Compressor condensate, oily				
Maximum oil concentration at condensate drain	10mg/l				
Maximum operating pressure at condensate inlet	16 bar(g)				
Minimum / maximum operating temperature, Fluids and environment	+5 ... +50 °C				
Relative humidity of the environment	≤10 ... 80 %, Without condensation				
Weight	21 Kg	24 Kg	31 Kg	45 Kg	60 Kg
Number of replacement cartridges	1	1	2	4	6

Technical data of the control unit FRC	QWIK-PURE 15	QWIK-PURE 30	QWIK-PURE 60	QWIK-PURE 90
Minimum / maximum operating pressure, compressed air	3 ... 15 bar(g)			
Cleanliness class, compressed air	2:4:2			
Connection, compressed air	8 mm (0.31 in), outside, Hose nozzle			
Operating voltage	90 ... 264 VAC / 24 VDC			
Frequency range	50 ... 60 Hz			
Power consumption	28 VA			
Protection class	IP54			

# Do **you** have questions about condensate drainage or condensate treatment?

**A**s experts for the entire compressed air treatment with decades of experience, we at **BEKO TECHNOLOGIES** know our way around condensate technology in particular. We understand the interrelationships and interactions between the components, which enables us to provide you with optimum advice. And we always have the right products for you, such as the **BEKOMAT**® condensate drains in all designs, sizes and special versions.

In condensate treatment, we set standards 40 years ago with the first generations of **ÖWAMAT**® oil-water separators.

We are now doing this again with the first active oil-water separator **QWIK-PURE**®. This range is extended by the static separators **ÖWAMAT**® 10 and 11 as well as the expandable **QWIK-PURE**® 10.

For emulsified condensates we offer the **BEKOSPLIT**®, a powerful and worldwide proven condensate splitting unit.

We look forward to hearing from you and showing you the right solution for your compressed air system.

## That is **BEKO TECHNOLOGIES**:

- > founded in 1982 by Berthold Koch
- > Independent and family-owned until today and also in the future
- > Headquarters in Neuss, Germany
- > Production facilities in Germany, USA, India and China
- > worldwide, customer-oriented sales organisation
- > High quality standards and living values
- > certified according to EN ISO 9001:2015

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