



## **INNOVATION: Oil-Water Separation Technology**

### **Transforming the Industry . . . Again**

BEKO Technologies, Corp.

From  
Most innovation involves doing the things we do every day a little bit better rather than creating something completely new and different.

IDEA

to  
**But occasionally, a new technology, an old problem, and a big (often simple) idea turn into a “new to the world” innovation.**

REALITY

From...



...To



# Introducing QWIK-PURE® CS/iCS



## NEW Next-Generation Oil-Water Separator



# From Static Oil-Water Separation

## Current Generation Product Portfolio



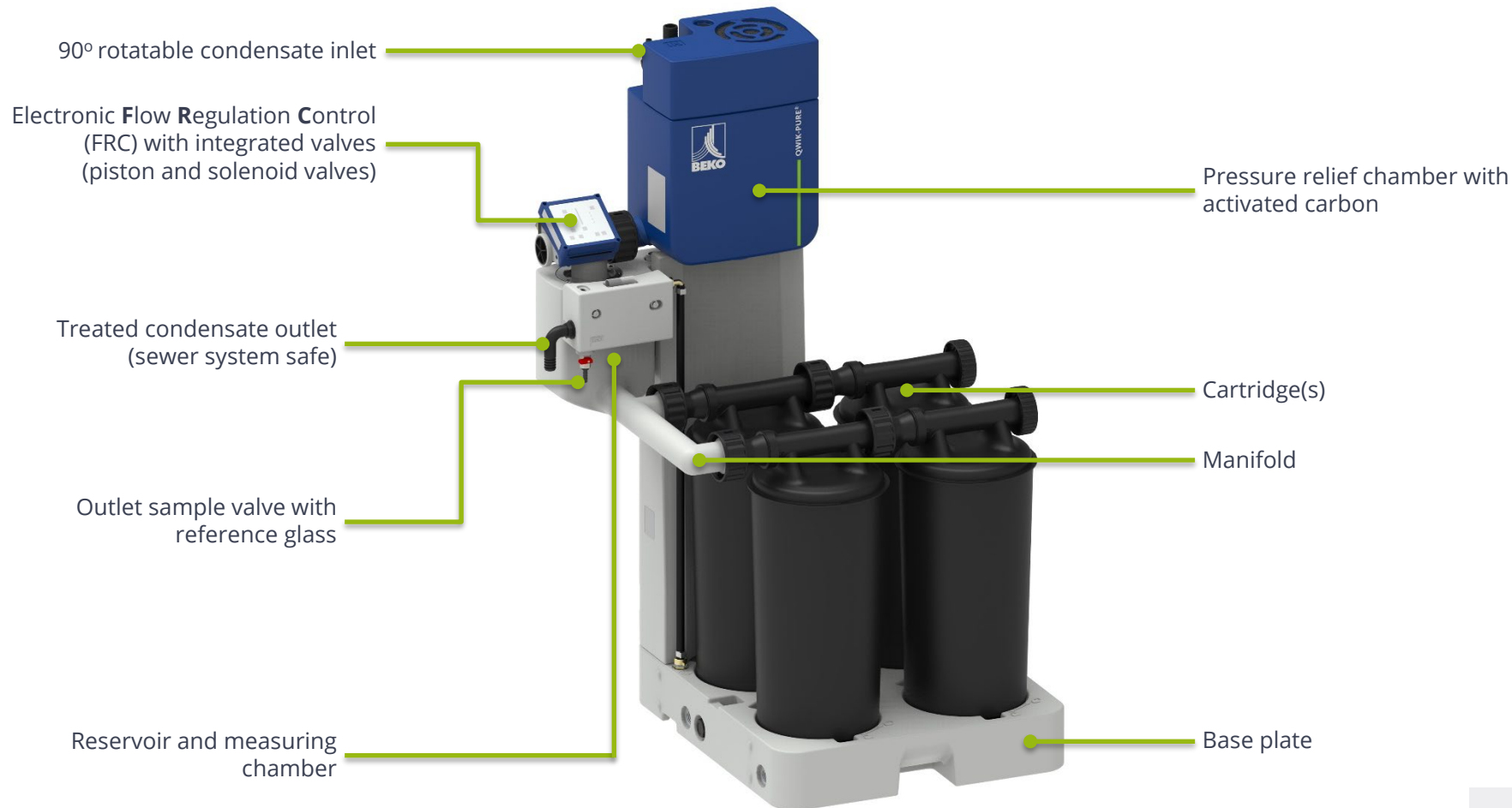
# To Intelligent Oil-Water Separation

## NEW Generation Product Portfolio

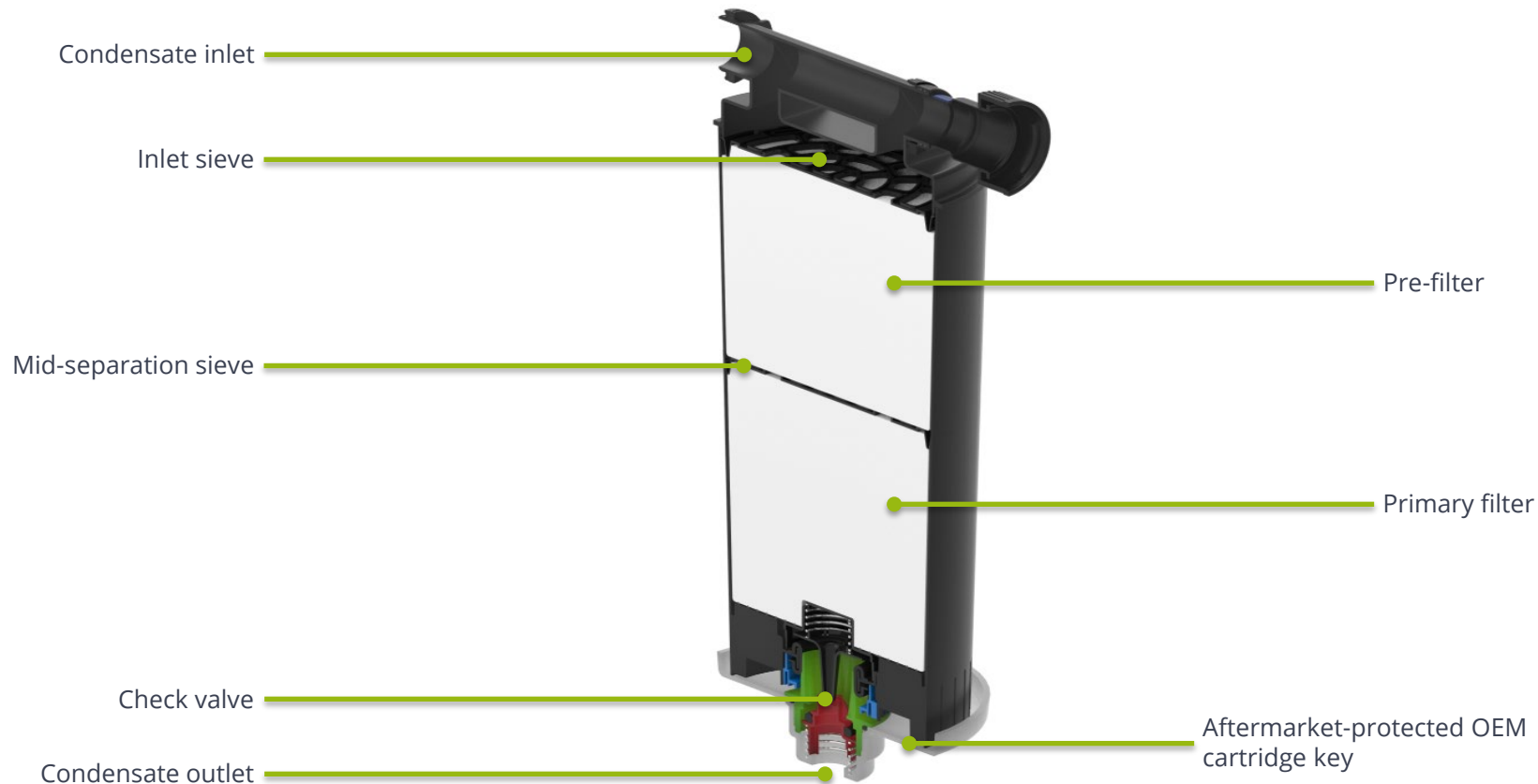


QWIK-PURE CS & iCS Series

# Design QWIK-PURE® iCS



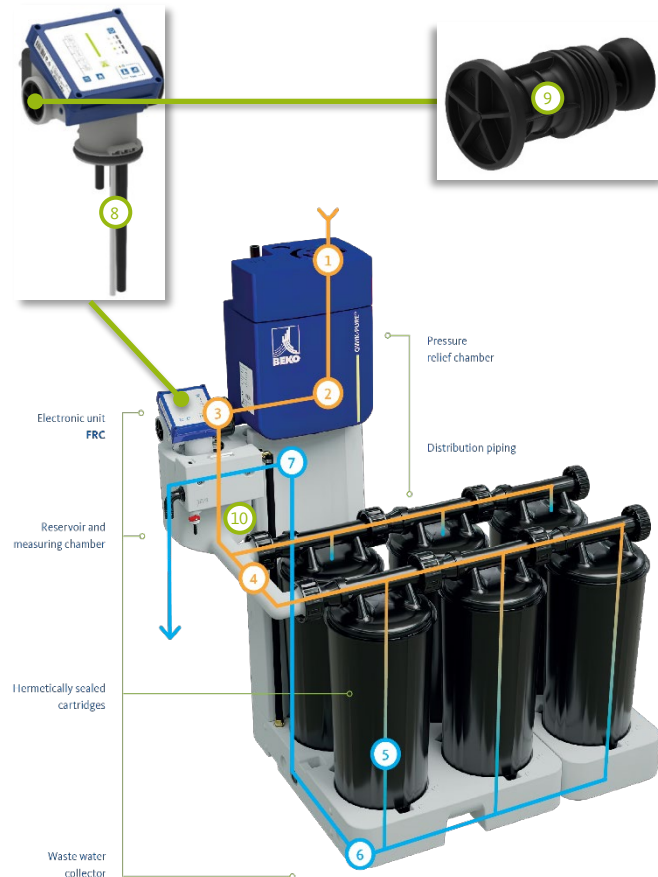
# Design QWIK-PURE® iCS Cartridge





# Function QWIK-PURE® iCS – The Smart Choice

- › The condensate enters through the inlet from the rotatable multiple inlet connection [1] into the unit.
- › The condensate and air mixture is depressurized in the depressurization chamber [2].
- › The FRC control unit [3] monitors the status as the condensate flows into the manifold [4] and distribution piping using gravity, then into the cartridges [5], where treated condensate flows through the baseplate [6] and up the discharge tube [7] to the outlet.
- › When the capacitive sensor of the FRC [8] measures a level-high setpoint in the reservoir, the FRC will close the piston valve [9] to isolate the entire system from the ambient surroundings.
- › Assisted by the FRC, using very low-pressure compressed air of < 5 psig, condensate is pushed through the filters to the outlet until the level low setpoint is reached.
- › Condensate is held in the collection reservoir beneath the FRC control unit [10] until discharged.





# Function QWIK-PURE® iCS – The Smart Choice

## Flow Regulation Control – FRC “Smart Unit”

- › The FRC regulates the flow of the condensate with the help of capacitive sensor technology
- › The FRC shows and records a wide variation of operating data and operating status
- › The FRC data can be retrieved via Advanced Modbus RS485 or/and a Wi-Fi connection



# Function QWIK-PURE® CS – Brilliantly Basic

- › Gravity-fed condensate separation system
- › The condensate enters through the inlet and goes through the depressurization chamber
- › Gravity moves the condensate through the manifold into and through the cartridge
- › By balancing the pressure, treated condensate travels up the hose to the outlet port
- › Waste is safely trapped in the hermetically sealed cartridge



# Features QWIK-PURE® iCS



**Reliable**



**Ready**



**Innovation**



**Ergonomic**



**Quick**



**Modular**



**Clean**



**Universal**



**Hygienic**



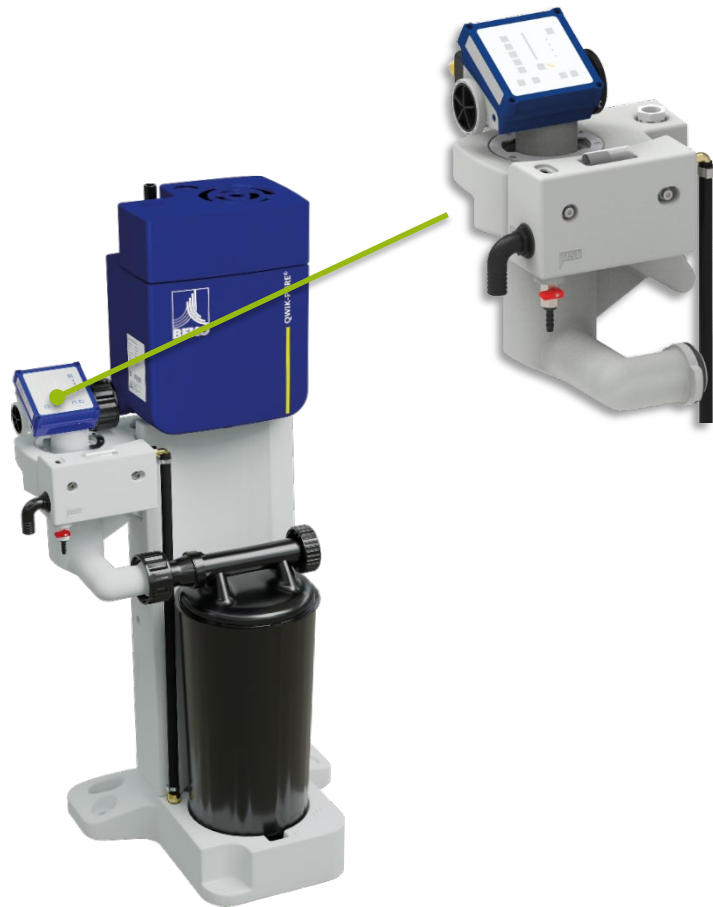
**Efficient**

- › **NEW** intelligent flow design
- › The cartridge is always covered with condensate
  - › Ensures full utilization of the cartridge
  - › Maximizes the efficiency of flow through the cartridge
  - › Taller height increases the gravity feed
  - › No blockages or overflows by reducing bacterial growth
  - › No drying out due to extended non-use
- › Continuous, fully automatic monitoring
  - › Control of the flow
  - › Calculation of the total flow
  - › Alarms in case of any malfunction
- › Filter material
  - › Improved filter material



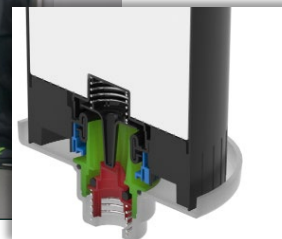
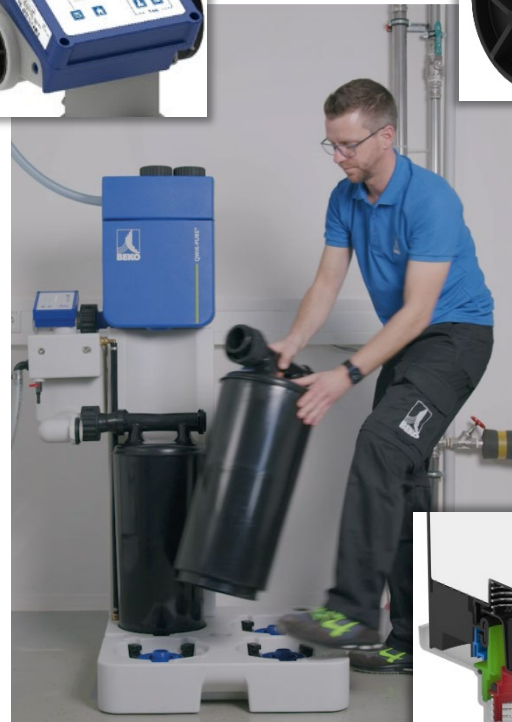
# Features QWIK-PURE® iCS

- › **FRC – Flow Regulation Controller**
- › Maximum usage of the entire cartridge
  - › Fully regulated flow with a pressurized cartridge
- › True cycle counts and total flow calculations
  - › Illuminated status bar for all components
  - › Service alarm for all components
  - › Dedicated overflow alarm
- › Wi-Fi connection to devices via a browser
  - › Always with you, and no app required
- › Fail-safe mode
  - › The unit will continue to operate without power, or should the FRC fail
- › Network capable and remote monitoring
  - › IIoT ready
  - › Advanced Modbus interface



# Features QWIK-PURE® iCS

- › Ergonomic operation and maintenance
  - › A used cartridge is < 55 lbs.
  - › Ease of access to all components
  - › Landfill compliant
- › Very quick and efficient cartridge changes
  - › Cartridges drain automatically with the help of the FRC
  - › Quick twist-and-lift exchange
  - › No leaks or spills of the cartridge
- › No special tools are required for maintenance
  - › Minimizing downtime and maximizing profit





# Features QWIK-PURE® iCS

## QWIK-PURE® iCS 550/1100

The second cartridge doubles the performance. All components and two new cartridges are included in this package. The new capacity is 1100 scfm.

## QWIK-PURE® CS/iCS 400/550

Here the electronic FRC unit as well as the reservoir and the measuring chamber are retrofitted. This achieves intelligent separation, and the capacity is increased to 550 scfm.



## QWIK-PURE® iCS 2200/3300

This supplementary unit or expansion pack is plugged in at the collector's side. The new capacity is thus 2200 scfm or 3300 scfm.

**A true future-proof solution**

- › Universal cartridge fits all model sizes
  - › Single stock-keeping unit
  - › Eliminates wrong orders, mis-picks, and returns
  - › Simplified purchasing and inventory management



# Features QWIK-PURE® iCS

- › Suitable for **ALL** compressor and lubricant types
  - › No upsizing is necessary
- › Seven different models with flow rate coverage up to an impressive 3300 scfm

There's a QWIK-PURE for you!



Up to 3300 scfm



Up to 2200 scfm



Up to 550 scfm

- › Simplified, easy-to-understand sizing chart



FILTER CARTRIDGE LIFE*	
1 Shift Operation	9-12 months
2 Shift Operation	7-10 months
3 Shift Operation	5-8 months

CLIMATE ZONE	YEARLY AVERAGE	CORRECTION
Cool / Mild	66% RH 45°F	1.00
Medium / Arid	68% RH 55°F	0.90
Hot / Tropical	72% RH 75°F	0.80

Compressor Flow Rate [SCFM]	QWIK-PURE Model Size
0 – 100	CS 100
101 – 200	CS 200
201 – 400	CS 400
401 – 550	iCS 550
551 – 1100	iCS 1100
1101 – 2200	iCS 2200
2201 – 3300	iCS 3300

# Sizing QWIK-PURE® iCS

The complete range for all applications

**CS 100**

100 scfm

**CS 200**

200 scfm

**CS 400**

400 scfm

**iCS 550**

550 scfm

**iCS 1100**

1100 scfm

**iCS 2200**

2200 scfm

**iCS 3300**

3300 scfm

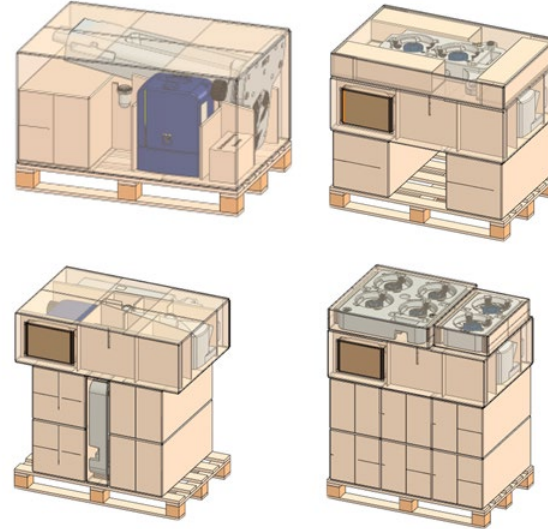
Featuring the FRC Smart Unit



# Installing QWIK-PURE® CS/iCS

## A unique packaging solution

- › Cost-effective transportation
- › Easy handling and storage
- › Straightforward assembly

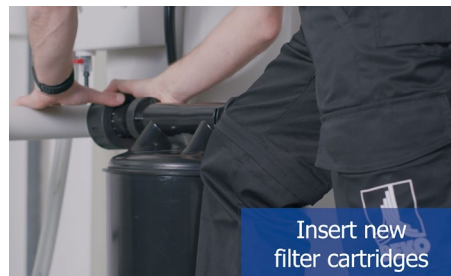


# Servicing QWIK-PURE® CS/iCS

## Cartridge

12-month replacement interval

✓ 20 minutes



Watch the video to learn more



## Piston

24-month replacement interval

✓ 2 minutes



Watch the video to learn more



## Valve

24-month replacement interval

✓ 2 minutes



Watch the video to learn more



# Servicing QWIK-PURE® CS/iCS

As need services with when needed help

## Increase Capacity

On-demand when required

- ✓ 20 minutes on FRC
- ✓ < 10 minutes to add the cartridge

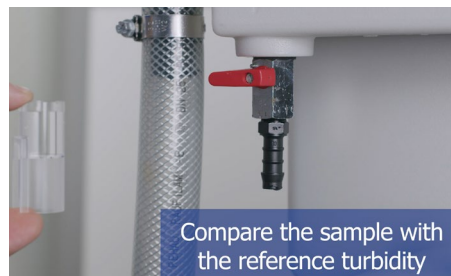


Watch the video to learn more

## Turbidity Check

Weekly (units without FRC » after the 12-month alarm)

- ✓ < 2 minutes



Watch the video to learn more





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