



## **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.

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

From...



...To



# Introducing QWIK-PURE® CS/iCS



## NEW Next-Generation Oil-Water Separator



# From Static Oil-Water Separation

## Current Generation Product Portfolio



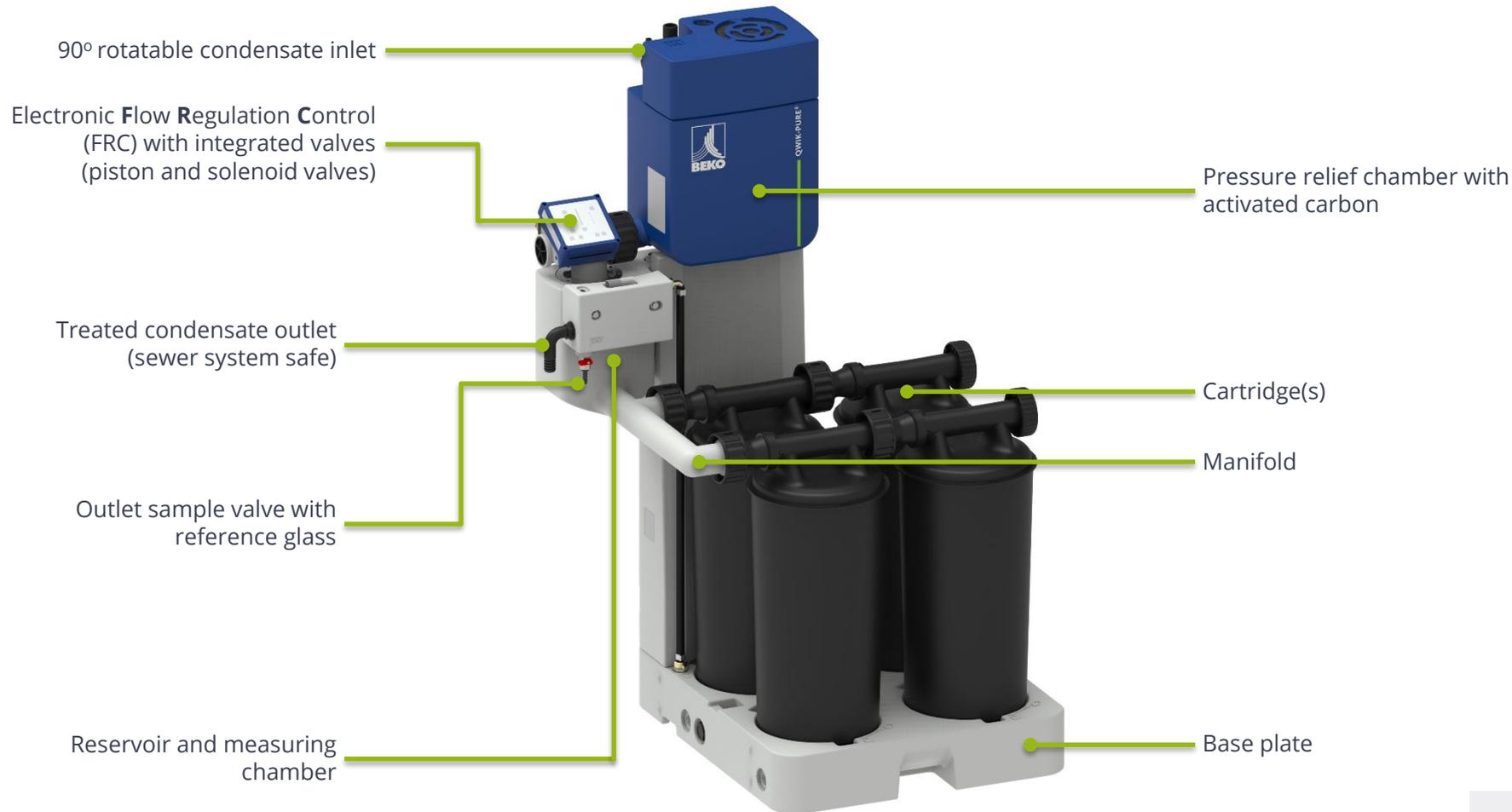
# To Intelligent Oil-Water Separation

## NEW Generation Product Portfolio

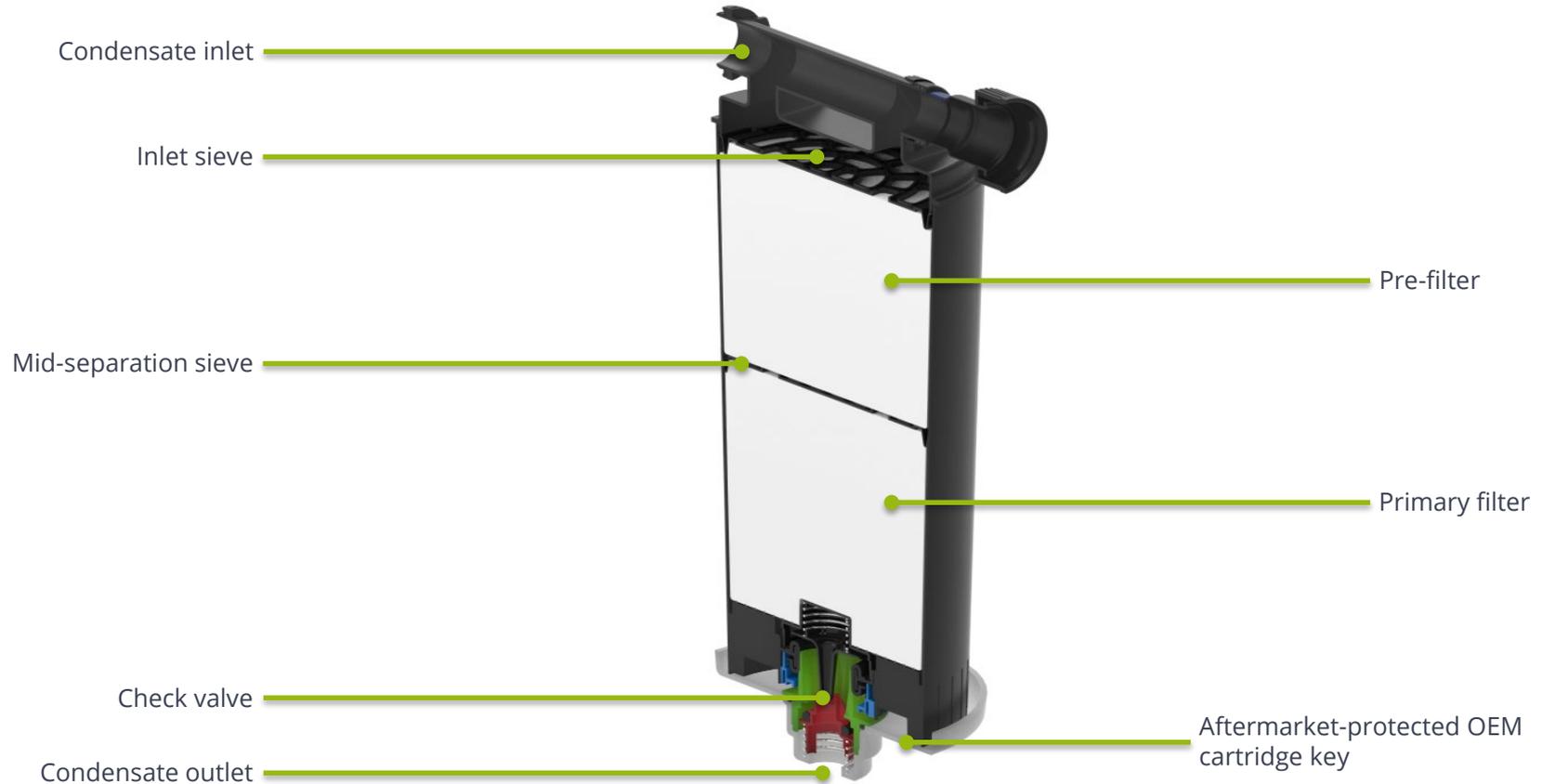


QWIK-PURE CS & ICS Series

# Design QWIK-PURE® iCS

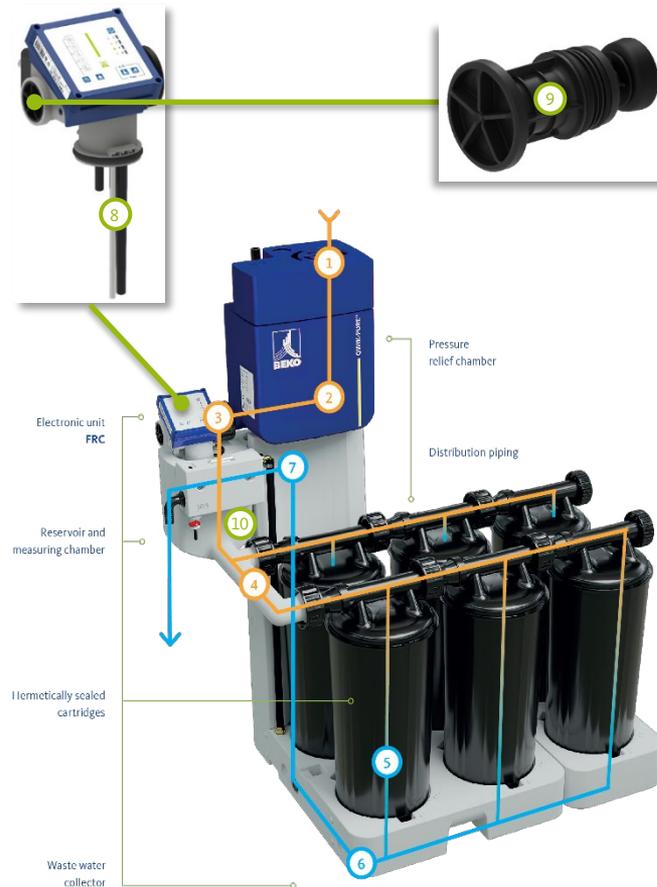


# Design QWIK-PURE® iCS Cartridge



# 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

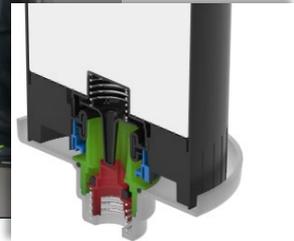


- › **FRC – Flow Regulation Controller**
- › Maximum usage of the entire cartridge
  - › Fully regulated flow with a pressurized cartridge
- › True cycle counts and total flow calculations
  - › Illuminated status bar for all components
  - › Service alarm for all components
  - › Dedicated overflow 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 and combinations
  - › 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



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

FILTER CARTRIDGE LIFE*		CLIMATE ZONE	YEARLY AVERAGE	CORRECTION
1 Shift Operation	9-12 months	Cool / Mild	66% RH 45°F	1.00
2 Shift Operation	7-10 months	Medium / Arid	68% RH 55°F	0.90
3 Shift Operation	5-8 months	Hot / Tropical	72% RH 75°F	0.80

# 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

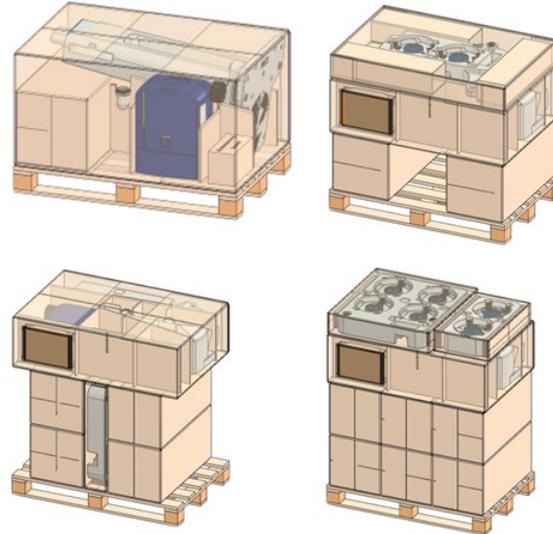
3300 scfm

Featuring the FRC Smart Unit



## 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

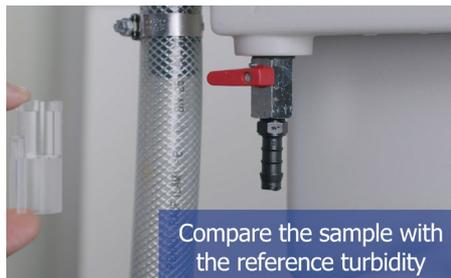


Watch the video to learn more 

## Turbidity Check

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

- ✓ < 2 minutes



Watch the video to learn more 



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