



## **INNOVATION: Refrigerant Drying Technology**

**Inspiring 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 something truly inspiring.**

REALITY

# Inspiring the Industry . . . Again

From...



...To



# Introducing DRYPOINT® RAX Gen. III



NEW Third Generation Refrigerant Dryer

Inspiring

Improved

Intelligent



Intuitive

Iconic

Ingenious

# From Basic Boxes

## Current Generation Product Portfolio



# To Beautiful Brains



## NEW Generation Product Portfolio



**DRYPOINT® RAx Gen. III**

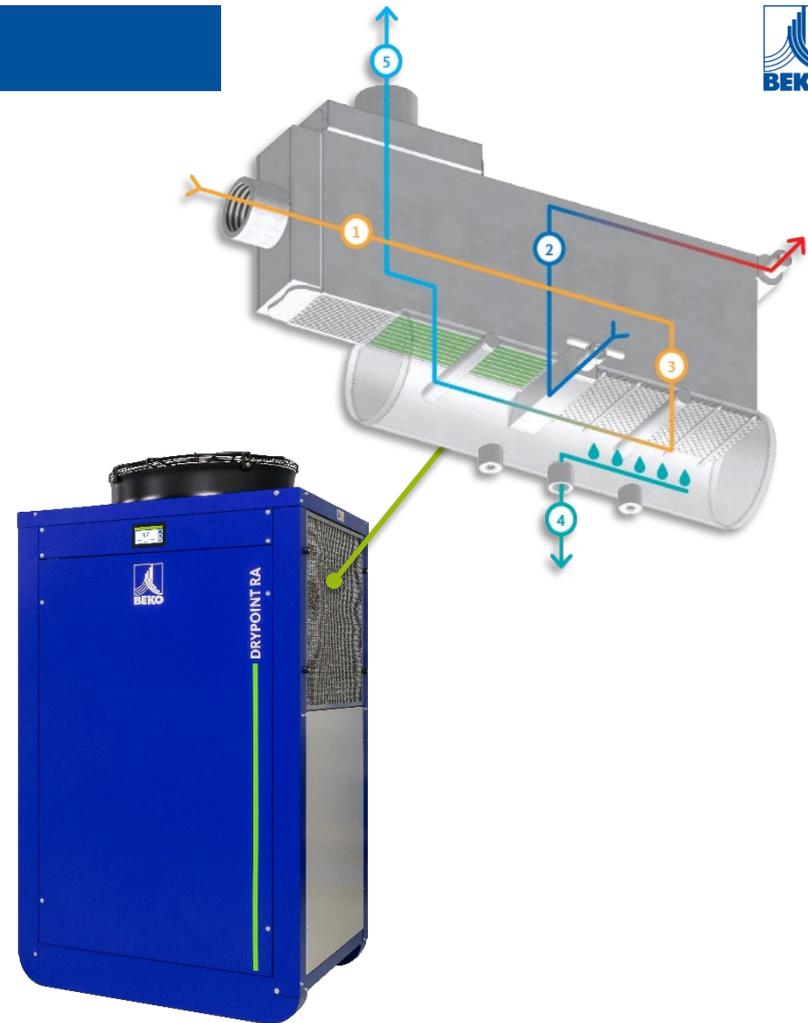
# Design DRYPOINT® RAX Gen. III



# Function DRYPOINT® RAX Gen. III



- › Saturated, warm compressed air enters the unit and is pre-cooled [1] in the air-to-air exchanger.
- › The compressed air is cooled in the air-to-refrigerant heat exchanger [2] to the required pressure dew point.
- › Re-entrainment of the separated water droplets is prevented by the large condensate collection chamber [3] and reduced velocity. The demister self-cleans using gravity and its vertical orientation.
- › Accumulated condensate is discharged from the dryer [4] via a true zero air loss BEKOMAT® condensate drain.
- › The cold and dried compressed air leaves the unit [5] through an air-to-air heat exchanger, reducing the relative humidity and recovering the cooling capacity by up to 60%.

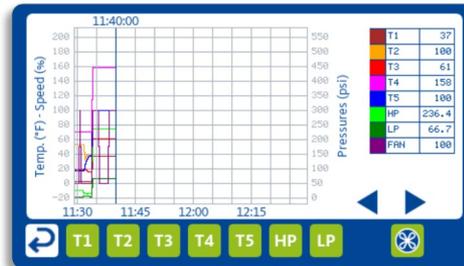


# Function DRYPOINT® RAX Gen. III

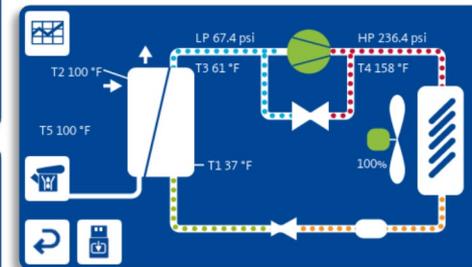


## NEW BEKOTOUCH Controller

- › Modern and powerful touchscreen controls that are easy to use
- › Multiple options for connectivity, including Advanced Modbus RTU
- › At-a-glance, descriptive alarm messages with time and date stamps
- › Downloadable reports
- › Instant on-screen temperature, pressure, and operational information with a complete spare parts list



Code	Start	End	Description
A 1	05/03 11:35 AM	05/03 11:35 AM	High Pressure switch
A 5	05/03 11:31 AM	05/03 11:31 AM	Compressor Protection
A 1	05/03 11:30 AM	05/03 11:30 AM	High Pressure switch



# Function DRYPOINT® RAX Gen. III



## NEW BEKOLED Controller

- › Large format LED display controls
- › Simplified operation with familiar iconography
- › Full set of alarms displayed on the controller
- › BEKOMAT test function
- › Includes Modbus RTU



# Features DRYPOINT® RAX Gen. III



Patented



Intuitive



Inspiration



Compact



Quick



Optimized



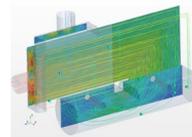
IIoT Ready



Reliable



Innovative



Efficient

- › Built around the best
- › Patented hot gas by-pass valve designed specifically for refrigerant drying
- › No adjustments are required
- › Guaranteed dew point stability
  - › From 0 – 100% compressed air load
- › Guaranteed zero freeze-ups and maximum, long-term reliability



## BEKOMAT Inside

- › The global gold standard for condensate drainage is integrated and standard on all models
- › Maximum energy savings from the patented true zero air loss operation
- › Accessible from the front panel controller
- › Reduced maintenance costs from the quick and easy replacement process consisting of a single part
- › Increased up-time from the high reliability and 8,000-hour service interval



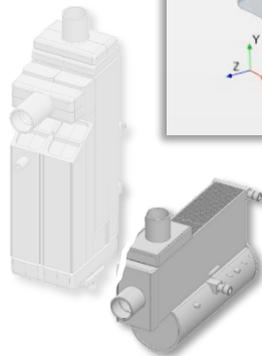
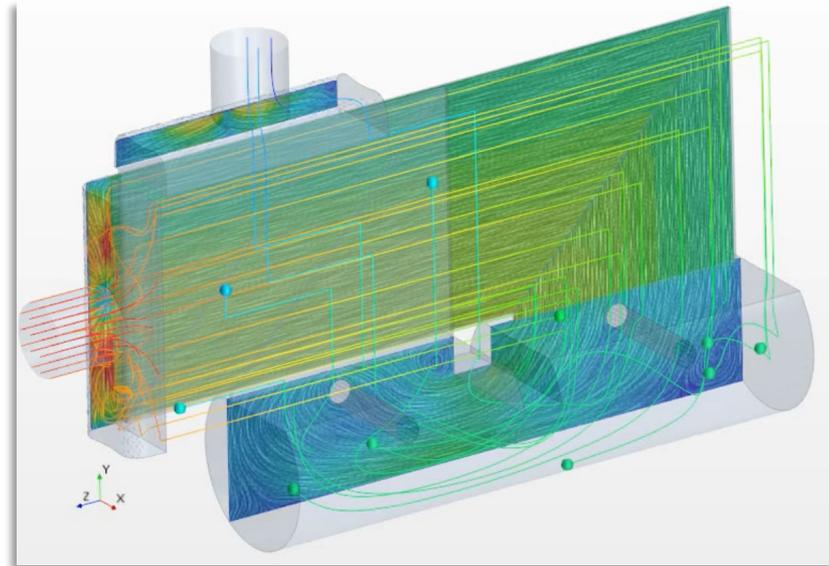
## NEW Microchannel Condenser

- › Unique and highly optimized microchannel condenser on units from the 100 scfm model and larger
- › Better overall cooling efficiency
  - › Reduces the compressor size required
  - › Further enhances the energy savings possible with the product line
- › Increases the performance of the unit due to the reliability of the design and accuracy of the dew point achieved



## NEW Heat Exchanger Design

- › Exclusive heat exchanger design unlike anything else on the market
- › Further improved lowest pressure drop to the already low pressure drop of the predecessor design, always ensuring energy savings are achieved
- › The demister is self-cleaning using gravity
- › Significantly more compact than the previous generation and comprised of a single core. Helps achieve a more open frame interior and ease of access to components
- › 5-year warranty is standard on the new, all-aluminum heat exchanger

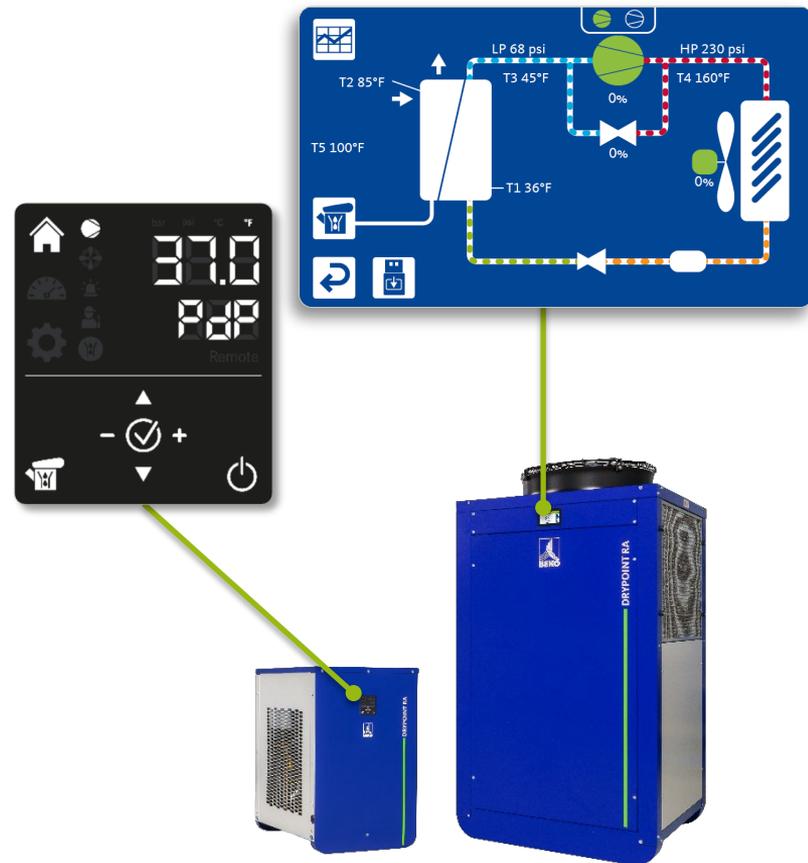


*Size comparison of the new 500 scfm heat exchanger*

# Features DRYPOINT® RAX Gen. III



- › Advanced controls on every model throughout the range
- › **BEKOLED** Controller is featured on models from 10 – 450 scfm
  - › Included alarm monitoring makes troubleshooting easier
  - › Intuitive, easy-to-navigate menu
  - › Large easy to read display
  - › BEKOMAT test function
  - › IIoT ready with patented Advanced Modbus RTU
- › **BEKOTOUCH** Controller is featured on models from 550 – 1700 scfm
  - › On-screen descriptions of all alarms
  - › Live process view with operating parameters
  - › Touchscreen controls with an easy-to-use menu system
  - › Full digital connectivity saves time with no need to open the unit and includes patented Advanced Modbus RTU



# Features DRYPOINT® RAx Gen. III



- › Unique and modern design with rounded bottom corners with a look that pushes the limits of industrial machine design language
- › Noticeable and distinct look makes the unit not only attractive but adds to workplace safety
- › Allows for a compact and space-saving frame
- › When combined with the horizontal heat exchanger orientation, the cabinet interior is very open, and all components are easily accessible



- › Decades of refrigerant drying technology know-how and experience provide optimally sized compressors throughout the product line
- › When paired with the other premium components and a high level of engineering, energy savings are maximized through this synergy
- › Lowest pressure dew points at standard ISO conditions.



- › Drawing on our expertise with refrigerant drying technology lends itself to a right-sized engineering approach
- › Maximum performance and energy savings from a complete package
- › Highly reliable products with a long service lifetime ensure a quick return on investment
- › Price competitiveness across the entire range



# Features DRYPOINT® RAx Gen. III



- › Coverage for all applications with models starting at 10 scfm and as large as 10,000 scfm
  - › Gen. III starts at 10 scfm up to 1700 scfm
- › The line will be expanded upward, and aspects of the design and technology will cross-pollinate the entire DRYPOINT® RA range



# Sizing DRYPOINT® RAX Gen. III

The complete range for all applications

Flow Rate [SCFM]			
10 – 480	500 – 1700	2000 – 6000	7500 – 10000

DRYPOINT RAc

**DRYPOINT RAX (Gen. III)**

DRYPOINT RAX

DRYPOINT RA CT and RA VSD

DRYPOINT RS HP

DRYPOINT RA HT



# Sizing DRYPOINT® RAX Gen. III



Frame 1

10 – 60 scfm

Frame 2

70 – 150 scfm

Frame 3

200 – 450 scfm

Frame 4

550 – 1000 scfm

Frame 5

1300 – 1700 scfm



## Service made simple

### Drain

12-month replacement interval

- ✓ 10 minutes to open and access the dryer
- ✓ < 5 minutes to replace the service unit



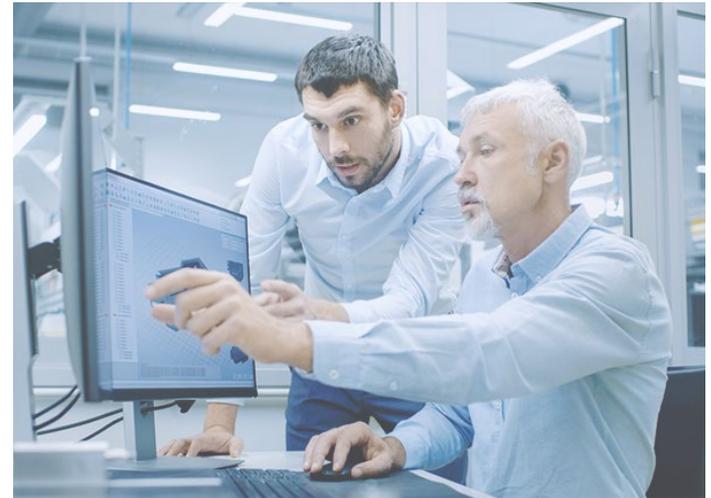
### Filter Element

12-month replacement interval

- ✓ 5 minutes to bypass the dryer
- ✓ 10 minutes to replace the filter element



- › Pre- and post-sales support teams are fully trained on the new generation of dryers
- › Our highly qualified Technical Service department has decades of experience dealing with refrigerant dryer circuits of all types
  - › Application support
  - › Troubleshooting support
  - › Maintenance and repair support
  - › Remote and on-site service is available
- › Detailed and comprehensive instruction and operation manuals are available 24-7 online for all model types and sizes
  - › Video snippets covering the most frequently asked questions are planned to complement the written instructions





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