



**Emerson Commercial & Residential Solutions
Filter Driers & Moisture Indicators**

You will be muted upon entry.
Please use the “chat box” for any issues.

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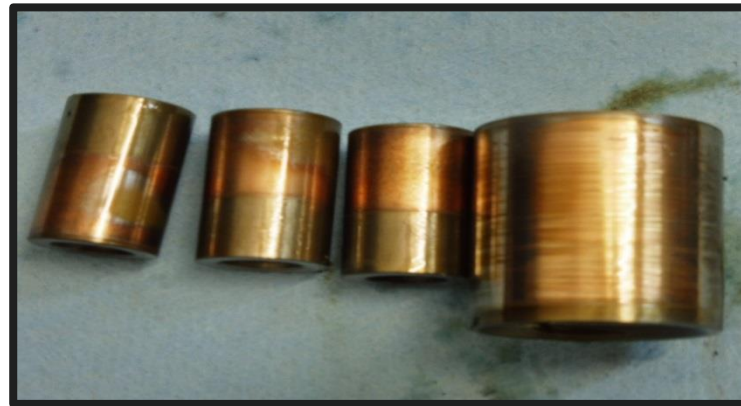
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Why Do You Need A Filter Drier?

“Filter Driers Remove Water, Acid And Solid Particulate Contamination To Prevent System Damage”

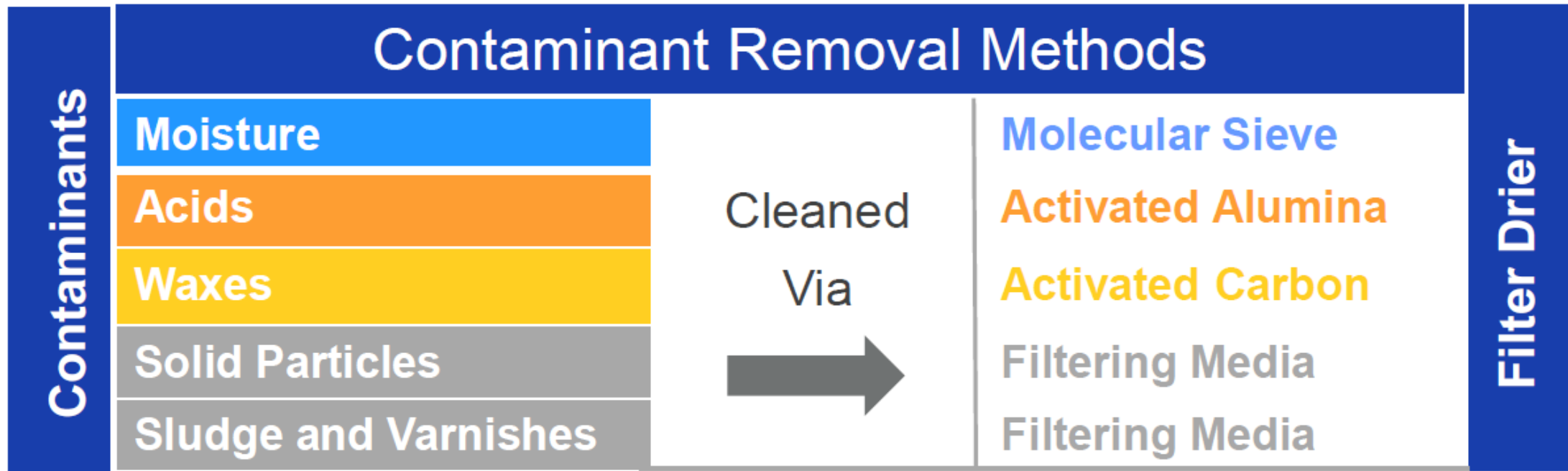


Poll Question 1

Q: Which of the three pictures shows copper plating?

- 1) One
- 2) Two
- 3) Three

The Importance Of A Filter Drier



Remove Water, Acid, And Solid Particle Contamination To Prevent System Damage

EK LIQUID LINE FILTER DRIERS



20
MICRON
FILTRATION

Every system needs protection from the damage that debris and water can do. To keep systems running at peak efficiency, choose the EK Filter Drier for the **BEST FILTRATION AVAILABLE** in the marketplace.

Reliable, longer-lasting protection

- Delivers 99.9% filtration efficiency of contaminants with minimal pressure drop
- Retains contaminants during system cycling and vibration
- Provides high moisture and acid removal capacity

ALSO FROM EMERSON

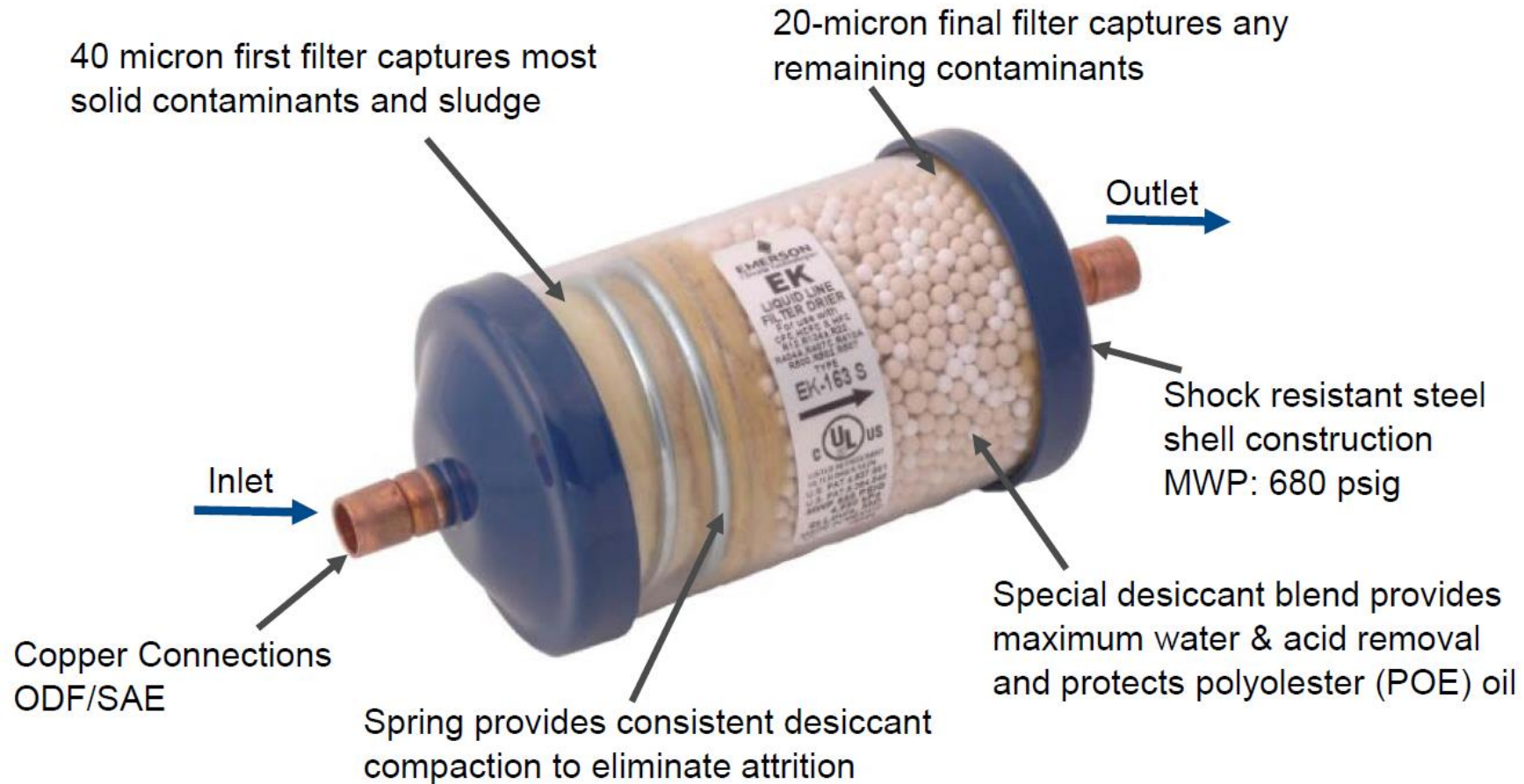
The BSL Builder Series Filter Drier

- More economical system protection
- Incorporates the same design and filtration in a smaller diameter

The EK and BSL Filter Driers allow us to deliver multiple solutions for the best technology and protection available.

BEST PROTECTION
AGAINST MOISTURE AND DEBRIS

EK Compacted Bead Design



Bead Beats The Block

Filter Drier Comparison		
Emerson Compacted Bead		Competitor Block Style
75/25	Desiccant Mix Molecular Sieve/Activated Alumina	75/25
20 microns	Filtration Size	40 microns
13 grams	Filtration Capacity	< 10 grams
99.9%	Filtration Efficiency	< 90%

Calculations based on 16 cu. in. drier

Emerson EK provides industry best 20 micron filtration

Emerson EK Provides Superior System Protection



Filtration

- Filtration at both inlet and outlet, 20 micron
- 99.9% efficiency with minimal pressure drop
- Retains contaminants during system cycling and vibration



Moisture and Acid Removal Capacity

- Utilizes full surface area of desiccant beads
- Specially formulated blend to protect POE oil
- Filters first for maximum moisture removal rates
- Recommended for HFC's by Emerson Climate Technologies Inc.
- No binding agents that reduce adsorption as with block driers

**Not all filter driers are created equal
Choose the Emerson EK**

Poll Question 2

Q: What efficiency does the Emerson EK filter drier have

- 1) 89.6%
- 2) 92.5%
- 3) 95.9%
- 4) 99.9%

Cross Reference to Product Information Air Conditioning & Refrigeration Controls



Enter model

- Competitor
- OEM
- Emerson (Model or PCN)



White-Rodgers Cross-Reference and Product Information



ENTER MODEL NUMBER

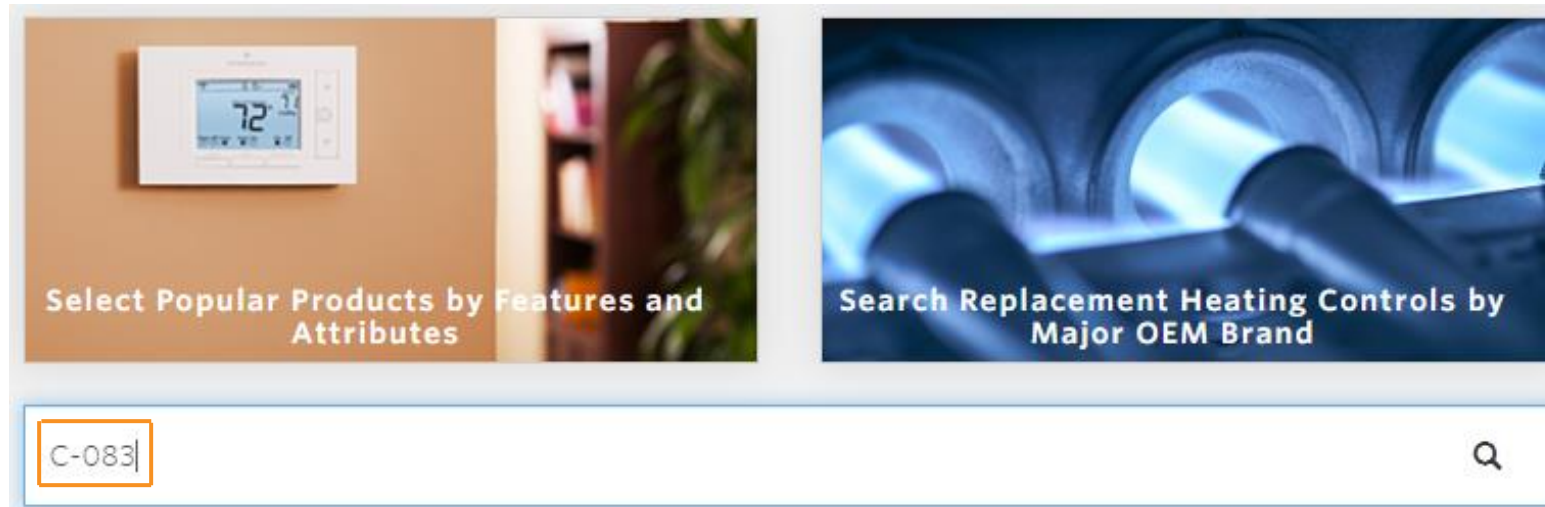


<https://webapps.emerson.com/wrproductselector>

Search by Product Model or PCN


Emerson, OEM or Competitive Model

1. Search By Model



Select Popular Products by Features and Attributes

Search Replacement Heating Controls by Major OEM Brand

2. Scrollable Product List

- C-083
- C-083-F
- C-083-HH
- C-083-S
- C-083-S-T-HH

Search by Product Model or PCN Emerson, OEM or Competitive Model

3. Emerson Replacement

EK Series Hermetic Liquid Line Filter Driers

C-083

Filter Drier

[VIEW INFORMATION ^](#)

Suggested Replacement

EK Series Hermetic Liquid Line Filter Driers

EK 083

EK Premium Compacted Bead Liquid Line Filter Drier with 20 Micron Outlet Pad for Maximum Filtration, Universal Replacement for CFC HCFC and HFC Refrigerants Including R-12, R-134a, R-22, R-404A, R-407C, R-410A, R-500, R-502, and R-507, Size (Cubic Inches) 8, Connection Size and Type (3/8" X 3/8" SAE Flare), Access Type, None

Comments

Liquid Line Service Manufacturer Sporlan.

- EK 083 2016 Catalog (E)
- EK 083 Spec Sheet (E)
- EK 083 Instructions (ESFPCKJ)

[Email Documents](#) ✉

EK Liquid Line Filter Drier

System Protectors

The EK Liquid Line filter drier is a premium compacted bead filter drier with a 20 micron outlet pad for maximum filtration. The EK is a premium universal replacement liquid line filter drier for CFC, HCFC and HFC refrigerants including R-12, R-134a, R-22, R-404A, R-407C, R-410A, R-500, R-502, and R-507.

Features

- Filtration first for more effective use of surface area of desiccant
- High moisture and acid removal capacity
- Solid copper connections
- Corrosion resistant epoxy powder paint finish
- Approved for POE oils with Copeland™ compressors
- Shock resistant steel shell construction

Nomenclature example: EK-083S

EK	08	3	S
Drier Series	Unit Size (in cu. in.)	Connection Size (in 1/8")	S = ODF connections (omit for SAE)



Specifications

- Desiccant blend - optimized for high water capacity and acid capacity
- Filtration: 20 microns
- Maximum working pressure: 680 psig
- UL/CUL file number: SA 3124

Ordering Information

PCN	Description	Dimensions (in)					Weight (lbs)
		A	B	D	E	F	
060009	EK 032	4.38					
060012	EK 032S	3.83	2.71	0.56			
060011	EK 032FM	3.92			2.57	1.75	0.48
060010	EK 032MF	3.92					
060013	EK 032	4.68					

EK Series Liquid Line Filter Driers

Provides industry best
20 micron filtration



Superior Filtration

- 20 micron filtration
- Filtration at both inlet and outlet
- 99.9% efficiency with minimal pressure drop
- Retains contaminants during system cycling and vibration

Search by Product Model or PCN Emerson, OEM or Competitive Model

3. Emerson Replacement

EK Series Hermetic Liquid Line Filter Driers

C-083

Filter Drier

VIEW INFORMATION ^

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Comments

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Email Documents ✉

EK, ADK, BOK, UK, UDK & ALF Filter Drier APD Muffler Installation Instructions



Refrigerant Compatibility
Compatibilidad con Refrigerantes
Compatibilidade do refrigerante
Compatibilité du réfrigérant
冷媒適合性
냉매 호환성
冷媒兼容性

EMERSON
Climate Technologies

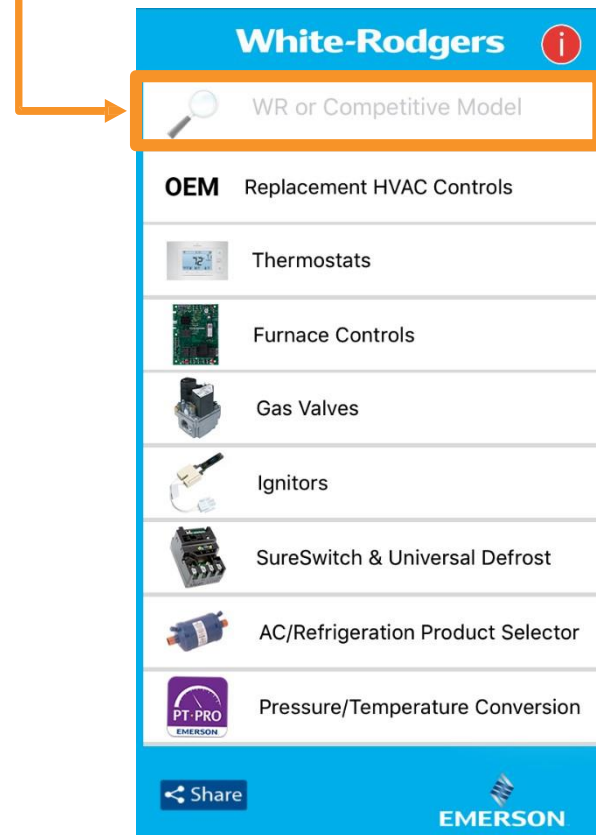
Send Related Documents

Email address

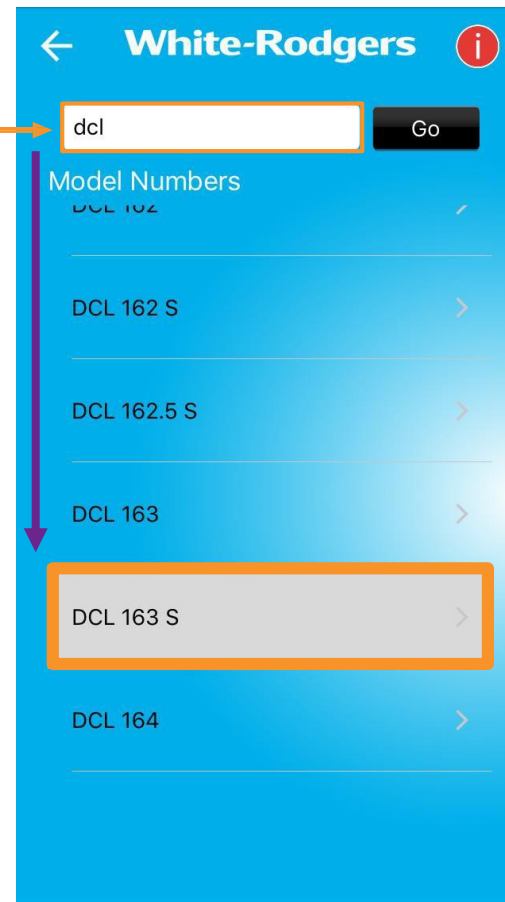
SUBMIT

Search by Product Model or PCN Emerson, OEM or Competitive Model

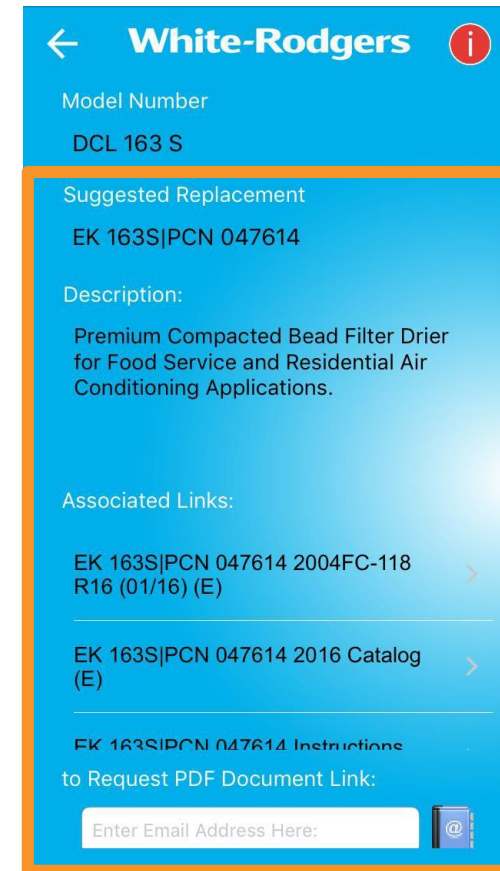
1. Search By Model



2. Scrollable Product List



3. Emerson Replacement



Suggested Replacement Results

Model Searched — DCL 163 S

Suggested WR Replacement — EK 163S|PCN 047614

Full Product Description — Premium Compacted Bead Filter Drier for Food Service and Residential Air Conditioning Applications.

Associated Documents — EK 163S|PCN 047614 2004FC-118 R16 (01/16) (E)
EK 163S|PCN 047614 2016 Catalog (E)
EK 163S|PCN 047614 Instructions

Share Document Links By Email — to Request PDF Document Link: Enter Email Address Here: [input field]

HMI Moisture Indicators

Features:

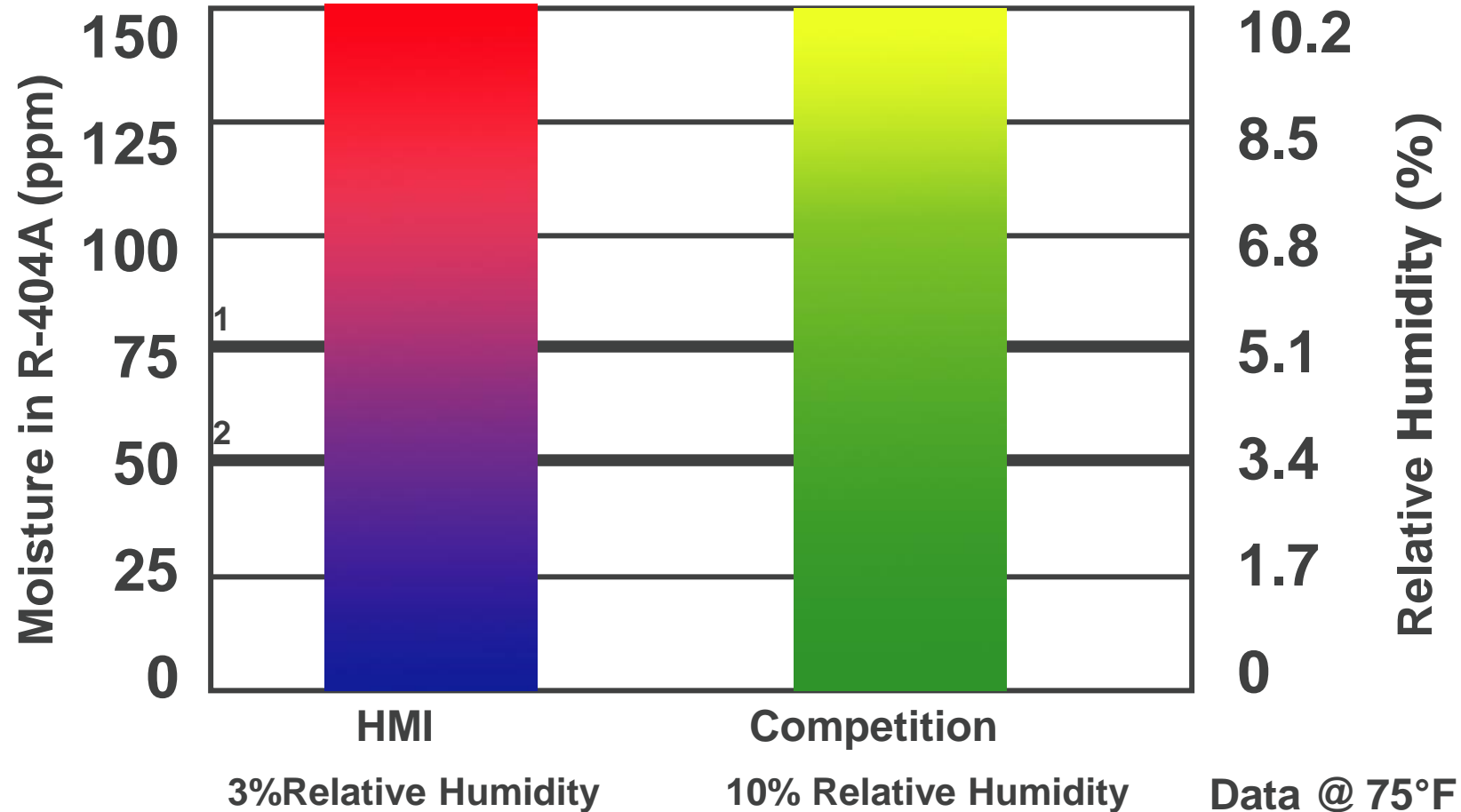
- Max. operating pressure **47bar (680psig)**
- Precise diagnostics of water content in refrigerants
- Sensitive to 3% RH
- Cobalt Salt sensing Element will not get damaged from free water
- Good visibility of bubbles
- Lowest pressure drop
- Product range:

Type	Connection
HMI-1TT2	1/4"
HMI-1TT3	3/8"
HMI-1TT4	1/2"
HMI-1TT5	5/8"
HMI-1TT7	7/8"
HMI-1TT9	1-1/8"



HMI Moisture Indicator

Impact of Moisture in R-404A/507 Systems



¹ Acid Forms @ 75 ppm

² Copeland recommends <50 ppm

Early Detection = Owner Savings

Poll Question 3

Q: What type of sensing salt is the Emerson HMI made with?

- 1) Sulfuric
- 2) Cobalt
- 3) Magnesium
- 4) Potassium

Questions

