

Danfoss AK-CC55 Climate Solutions Design Center Owner's Manual

Home » Danfoss » Danfoss AK-CC55 Climate Solutions Design Center Owner's Manual

Contents

- 1 Danfoss AK-CC55 Climate Solutions Design Center
- **2 Product Specifications**
- 3 AK-CC55 Connect app
- 4 Adaptive Superheat Control (MSS)
- 5 Adaptive Liquid Control (ALC)
- 6 FAQs
- 7 Documents / Resources
 - 7.1 References
- **8 Related Posts**



Danfoss AK-CC55 Climate Solutions Design Center



- AK-CC55 Case controllers: Best-in-class energy savings, suitable for any store size.
- EKC 22X controllers: Entry-level case controllers with versatile application coverage.
- **AK-UI55 Displays:** It is easy to connect to the AK-CC55 platform, and access parameters via Bluetooth and mobile app.
- AKS 32R pressure transmitter: A ratiometric pressure transmitter with a linear output signal.
- AKS 11 Color-coded temperature sensors: Color-coded for convenient probe identification and installation.

AK-CC55 Case controllers

- Best-in-class energy savings
- · Simplified installation and service
- · Suitable for any store size

Click here to read about evaporator and room control

https://www.danfoss.com/en/products/dcs/electronic-controls/evaporator-and-room-control/#tab-overview

EKC 22X controllers

- · Entry-level case controllers
- Versatile application coverage



Click here to read about EKC 223/EKC 224

https://www.danfoss.com/en/products/dcs/electronic-controls/evaporator-and-room-control/#tab-overview

AK-UI55 Displays

- Easy to connect to the AK-CC55 platform
- · Access parameters via Bluetooth and mobile app



Click here to access the display product store https://store.danfoss.com/sg/en/search/?text=AK-UI55

AKVP - electric expansion valve

• The latest MOPD update ensures it meets customer needs



Click here to read more about AKVP

 $\frac{https://www.danfoss.com/en/products/dcs/valves/electric-expansion-valves/akv-electric-expansion-valves/akv-electric-expansion-valve/$

AKS 32R pressure transmitter

• A ratiometric pressure transmitter with linear output signal.



Click here to read about the AKS 32R pressure transmitter

https://www.danfoss.com/en/products/dcs/sensors-and-transmitters/air-conditioning-refrigeration-pressure-transmitters/aks-32r-and-aks-2050-pressure-transmitters/#tab-overview

AKS 11 Color-coded temperature sensors

• Color-coded for convenient probe identification and installation



Click here to access temperature sensors

https://www.danfoss.com/en/products/dcs/sensors-and-transmitters/refrigeration-temperature-sensors/aks-11-color-coded-temperature-sensor/#:~:text=Temperature%20range%20-40%20to%20100%20%C2%B0C.%20Resistance%201000%20Ohm%20@

AK-CC55 Connect app

- Simplified and convenient controller configuration via Bluetooth & mobile app
- Best-in-class User Experience.
- · Advanced troubleshooting with alarm history.
- Detailed data log and event logs.

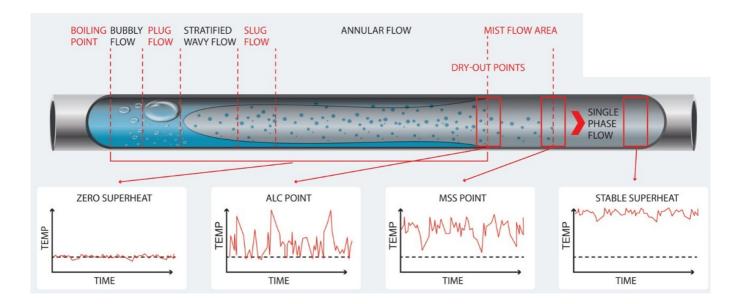


Click here to read about the AK-CC55 Connect app

https://www.danfoss.com/en/service-and-support/downloads/dcs/adap-kool-software/ak-cc55/

Click here to read the brochure ADAP-KOOL® Case Controllers https://assets.danfoss.com/documents/370448/AD168486422742en-000205.pdf

Selecting the right evaporator injection algorithm makes a world of difference.



Click here to read the whitepaper

https://assets.danfoss.com/documents/150068/AC283845268929en-000103.pdf

Adaptive Superheat Control (MSS)

Maximum efficiency for dry expansion evaporators

With Minimum Stable Superheat Control (MSS), utilization of the evaporator surface is maximized while ensuring that no liquid exits the evaporator. The MSS algorithm, in combination with suction pressure optimization, delivers maximum system efficiency in systems with dry expansion.

Adaptive Liquid Control (ALC)

Maximuefficiencycy semi-flooded" evaporators

The ALC algorithm, typically used in transcritical CO2 systems with a suction accumulator and liquid ejectors, injects greater amounts of refrigerant into the evaporator, fully utilizing the entire surface and reducing SH practically to zero. Thus, it enables an up to 5 Kelvin higher evaporating temperature compared to MSS.

FAQs

Q: How do I connect the AK-UI55 Display to the AK-CC55 platform?

A: To connect the AK-UI55 Display to the AK-CC55 platform:

- 1. Ensure both devices have Bluetooth enabled.
- 2. Access the mobile app and follow the on-screen instructions for pairing.
- 3. Once paired, you can access parameters and control settings through the app.

Documents / Resources



<u>Danfoss AK-CC55 Climate Solutions Design Center</u> [pdf] Owner's Manual AK-CC55, EKC 223, EKC 224, AK-CC55 Climate Solutions Design Center, AK-CC55, Climate Solutions Design Center, Solutions Design Center, Center

References

- Search AK-UI55 | Danfoss Singapore Product Store
- AK-CC55 Connect app | Danfoss
- User Manual

Manuals+, Privacy Policy

This website is an independent publication and is neither affiliated with nor endorsed by any of the trademark owners. The "Bluetooth®" word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. The "Wi-Fi®" word mark and logos are registered trademarks owned by the Wi-Fi Alliance. Any use of these marks on this website does not imply any affiliation with or endorsement.