

# Electronic **temperature control solutions** to make your job easier



Up to  
**60%**  
reduction in  
installation time.

## Optyma™ **Control**, AK-RC 251 - for Walk-in Coolers and Freezers

The Optyma™ **Control** is designed with both upgrades and new room installs in mind. This electronic controller eliminates the need for mechanical thermostats in cooling applications along with defrost timers in freezer applications. The Optyma™ **Control** features a weatherproof enclosure and can reduce installation time by up to 60% and improve room efficiency by up to 30%.

Scan this QR Code for more information  
about the Optyma™ **Control**



ENGINEERING  
TOMORROW



# Optyma™ Control

- Easy and quick to mount
- Easy to wire
- Kitted with two NTC sensors (5 ft, 10 ft)
- Compatible with commonly available standard ¾ in. fittings to maintain weatherproof rating

## Quick set-up in five short steps!

1. Wire controller
2. Apply power
3. Wire sensors
4. Select app using on-board Wizard
5. Set temperature

## Preset Applications

Inl	Type of installation		
	Cold regulation	Defrost	Evaporator fans
0	Demo Mode: displays the temp. but does not regulate or activate relays		
1	Solenoid	Electric	Yes
3	Solenoid + compressor	Electric	Yes
4	Solenoid	Air	Yes
6	Solenoid + compressor	Air	Yes
11	Solenoid	Static	No
13	Solenoid + compressor	Static	No



## Product Selection

Code	Voltage
080Z5000	100 - 240VAC, 50/60 Hz, autodetect

## Technical Specifications

Power supply	100 - 240VAC, 50/60 Hz, autodetect
Probe temperature range	- 58 to + 211°F
IP rating	IP65
Display	3 ½ digits, up to 15 symbols/indicators (application dependent)
Inputs	2 NTC temperature sensors (included) 2 digital inputs (1 accepts NTC)
Sensors included in kit	2 NTC, 5 ft & 10 ft
Operating conditions	+ 14 to + 122 °F
Storage conditions	- 22 to +140 °F
Relays	1 x 16A SPDT (AUX 2) • NO: UL - 60730: 5 FLA 30 LRA, 240VAC • NO: UL - 60730: RES 10A, 240VAC • NC: UL - 60370: 5A, 240VAC 2 x 20A SPDT (DEFROST, AUX 1) • NO: UL - 60370: 9 FLA 54 LRA, 240VAC • NO: UL - 60370: RES 12A, 240VAC • NC: UL - 60370: RES 6A, 240VAC 2 x 16A SPST (FAN, COOL) • UL - 60370: 5 FLA 30 LRA, 240VAC • UL - 60370: RES 10A, 240VAC
Internal buzzer	Yes
Communication	Modbus (Connection to Danfoss system manager in development)
Dimensions	11.40 in (W) x 5.55 in (H) x 3.32 in (D)

## AK-RC 251 can control

- Compressor
- Solenoid
- Defrost (including a 2nd evaporator defrost)
- Fans
- Lights
- Crankcase heaters

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Cancer and Reproductive Harm  
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