

EKE 100 Superheat Controllers and Valve Drivers

# The highest quality and unparalleled **superheat management solutions**

With a wider set of features, flexibility in use, and superior operating conditions, the EKE 100 series ensures high reliability through best-in-class precise superheat control and valve management.

**+20  
years**

**best-in-class  
superheat  
management**



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# Reliability meets efficiency through superior precision and flexible solutions

There is a new addition to the Danfoss family of superheat controllers and valve drivers: The EKE 100 series. More than 20 years of experience in developing superheat management have been boiled down to this best-in-class solution — providing you with first-rate reliability and efficiency.

In addition to combining superheat management and valve driver modes in the same device, the EKE 100 features possible management of 1 or 2 valves independently plus variants with IP00, IP20, or IP20 with display and with Modbus communication.

EKE 100 supports highly reliable system functioning by offering excellent precision, stable performance, and increased flexibility in use — while ensuring a simplified system design and implementation process.

Whether for chillers, rooftop units, commercial and industrial heat pumps, CRAC units, or cold rooms, the EKE 100 range of products therefore helps cooling professionals reduce development costs with user-friendly programming and a hassle-free platform for superheat and valve drive control.



**IP20 (with built-in display)**  
1 Valve: 080G5052  
2 Valves: 080G5057

**IP20**  
1 Valve: 080G5051  
2 Valves: 080G5056

**IP00**  
1 Valve: 080G5050  
2 Valves: 080G5055



**Precise superheat and valve management**

- Accurate signal processing
- Advanced superheat control algorithms
- Broader range of sensors



**Reliability in harsh environments**

- Best-in-class in operating conditions; Consistent supply to valve at extreme conditions without derating; from -20 to 70°C / -4 to 158°F



**Stable performance**

- Precise Auto Calibration



**Flexible use**

- 1 or 2 valves, including manifold valves
- IP00/IP20/IP20 with built-in display
- NTC or PT 1000 temperature sensors
- Manages third party valves and sensors
- Modbus communication



**Easy setup**

- KoolProg PC suite
- Koolkey
- Optional built-in display panel



**HVAC Controller**  
MCX · Alsmart



**SH Controller and valve driver**  
EKE 100



**Temp. Sensor**  
NTC & PT1000



**Press. Sensor**  
Ratiometric, 4-20mA



**ETS 5M (Bipolar)**



**ETS 8M (Bipolar)**



**ETS Colibri**



**ETS Large**



**ETS P Manifold**



**CCMT**

**Koolkey 2.0**  
EKA 200



**EKE 100 service cable**



**Programming**  
KoolProg



**Backup Power Module**  
EKE 2U



**Power Supply**  
AK-PS



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