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

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, 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

Easy setup
- KoolProg PC suite
- Koolkey
- Optional built-in display panel
- Modbus communication

HVAC Controller
MCX · Alsmart

SH Controller and valve driver
EKE 100

Temp. Sensor
NTC & PT1000

Press. Sensor
Ratiometric, 4-20mA

EKE 100 Ecosystem

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

For other connections please contact your Danfoss Sales Representative.