

Cooling Technology

Cube-KD Fermentation Temperature Control System

Control unit with integrated terminal box for fixed installation close to the tank. Cables for the 24VAC supply and bus cables can be carried out/bridged. The temperature probe, solenoid and motor-driven valves can be directly connected. No other wiring position is required.

Cube-KD features

- ▶ Temperature range -9.9... 99.9 °C
- ▶ LED display for target and actual value
- ▶ LEDs for CO₂ intensity, output status, operating mode
- ▶ Unit °C/°F
- ▶ 2 relay outputs for heating + cooling, 20 VA each
- ▶ Integrated bus system for PC connection
- ▶ 24V/50Hz supply voltage
- ▶ Power input 2 VA
- ▶ Terminal box with terminal strips integrated into unit
- ▶ 24 VAC supply and bus cables can be bridged
- ▶ Robust plastic controller housing, membrane keypad, cable glands
- ▶ Unit ready for connection, integrated cable glands with strain relief
- ▶ Water-protected design, IP65
- ▶ CUBE-ECO+: With 3 cable glands

Designation	Details	Order no.	Unit price/€
CUBE-KD	CUBE fermentation temperature control system with integrated terminal box	206.0105	
TF 5 - 8	Temperature probe, 8m long, M12 cable gland	202.0021	
TF 5 - 15	Temperature probe, 15m long, M12 cable gland	202.0022	
CUBE-ECO+	CUBE fermentation temperature control system with integrated terminal strip	206.0117	
TF 1A - 8	Temperature probe, 8m cable length, M12 cable gland	202.0029	
TRW-100	24VAC transformer for 5 solenoid or motor-driven valves	206.5009	
TRW-200	24VAC transformer for 10 solenoid or motor-driven valves	206.5010	

For accessories for solenoid valves, motor-driven valves, dirt traps and immersion shaft sleeves, see pages 18 and 19



206.0105



206.0117

CUBE-MV-TR(+) / CEE(+) resp. CUBE-KH-TR(+) / CEE(+)

Fully assembled control unit for affixing to the tank and direct connection with the cooling water circuit.

Features

- ▶ Temperature range -9.9... 99.9 °C
- ▶ Safe operation, thanks to 24 VAC safety extra-low voltage (SELV)
- ▶ IP65 protection against water jets, double display for target and actual value
- ▶ Stable stainless steel 1.4301 base plate
- ▶ 8 m temperature probe cable
- ▶ Stable hook for suspension on the tank or wall
- ▶ Robust plastic controller housing, membrane keypad
- ▶ Permanent fixture: Solenoid valve with dirt trap or motor-driven ball valve

Designation	Details	Order no.	Unit price/€
CUBE-MV-CEE	10m cable with CEE connector 24VAC, solenoid valve 1/2"	206.0103	
CUBE-MV-TR	6m cable with plug-in transformer 24VAC, solenoid valve 1/2"	206.0104	
CUBE-KH-CEE	10m cable with CEE connector 24VAC, motor valve 1/2"	206.0121	
CUBE-KH-TR	6m cable with plug-in transformer 24VAC, motor valve 1/2"	206.0120	
CUBE-MV-CEE+	10m cable with CEE connector 24VAC, solenoid valve 1/2"	206.0116	
CUBE-MV-TR+	6m cable with plug-in transformer 24VAC, solenoid valve 1/2"	206.0115	
CUBE-MV-CEE+ 3/ 4"	10m cable with CEE connector 24VAC, solenoid valve 3/4"	206.0133	
CUBE-MV-TR+ 3/4"	6m cable with plug-in transformer 24VAC, solenoid valve 3/4"	206.0132	
CUBE-KH-CEE+ 3/4"	10m cable with CEE connector 24VAC, motor valve 3/4"	206.0153	
CUBE-KH-TR+ 3/4"	6m cable with plug-in transformer 24VAC, motor valve 3/4"	206.0152	

Note: Always use the temperature probe with an immersion shaft sleeve for reasons of hygiene and reliability!



201.0115



201.0152



206.0104



201.0120

Process Control

CEE Plug&Play Accessory

Connection system 24VAC, ready for connection, for terminal-free, flexible connection and operation of the CUBE-MV-TR(+)/CEE(+), Cube-KH-TR(+)/CEE(+) fermentation temperature control systems in winegrowing facilities and wineries.

Features

- ▶ Safe operation, thanks to 24VAC safety extra-low voltage (SELV)
- ▶ Resistant to water spray, IP54
- ▶ Speedily convertible
- ▶ Expandable as desired

Designation	Details	Order no.	Unit price/€
TRW-100-CEE	24VAC transformer with CEE connection socket for 5 CUBE controllers	206.5011	
TRW-200-CEE	24VAC transformer with CEE connection socket for 10 CUBE controllers	206.5012	
CEE-KV	Cross connector 24V, 3-pole	201.0034	
CEE-VK-5	5m CEE extension cable, 24V, 3-pole	201.0035	
CEE-VK-10	10m CEE extension cable, 24V, 3-pole	201.0036	
CEE-WST-3	CEE wall socket, 24V, 3-pole	201.0033	



206.5011
206.5012

201.0034



201.0035
201.0036



201.0033

CUBE-PLUG(+) Fermentation Temperature Control System

Fully assembled control unit with stainless steel hook for mobile use via the 7-pole plug-in system with bus capability.

Features

- ▶ Temperature range -9.9... 99.9 °C
- ▶ Safe operation, thanks to 24VAC safety extra-low voltage (SELV)
- ▶ IP65 protection against water jets, double display
- ▶ 8m temperature probe cable
- ▶ Robust plastic controller housing, membrane keypad
- ▶ Stable hook for suspension on the tank or wall for target and actual value

Designation	Details	Order no.	Unit price/€
CUBE-Plug	Mobile control unit with angular connector and probe	206.0101	
CUBE-Plug+	Mobile control unit with angular connector and probe	206.0118	
SD-7-STD-1B	Socket for wiring with PCB and fuse	206.0071	
PSM-1A/B	Pump control module for SD-7-STD-1B (for cooling or heating)	001.0215	

For accessories for solenoid valves, motor-driven valves, dirt traps and immersion shaft sleeves, see pages 18 and 19



206.0118



206.0101

206.0071



206.0070
206.0071



001.0215

