

# Temperature regulators: The masters of precision.

Leister temperature regulators allow the air temperature of air heater and hot-air blowers to be precisely regulated. The regulators are perfectly matched to the Leister devices and facilitate easy and fast installation. They include a display for target/actual temperature and two freely programmable alarm outputs.

## Temperature controller

### CSS EASY



## Temperature controller

### CSS



## Temperature controller

### KSR DIGITAL



Technical data	CSS EASY	CSS	KSR DIGITAL
Suitable for LEISTER air heaters	LHS SYSTEM	LHS SYSTEM, LE MINI SENSOR Universally deployable temperature regulator	LE 700, LE 5000 DF und HT, LE 10000 DF and HT, LE 40000, HOTWIND S, VULCAN E
Regulation type	PID	PID	PID
Ready to use with preconfigured parameter set	•	• (for LHS SYSTEM)	•
Configuration with PC and programming cable (see Accessories)	•	•	
Accuracy	Accuracy better than 0.2% of scale value at 25 °C	Accuracy better than 0.2% of scale value at 25 °C	Accuracy better than 0.2% of scale value at 25 °C
Switchover °C °F	Configurable via keypad	Configurable via keypad	Configurable via keypad
Temperature sensor / input	Type K / socket	Type K, PT100, screw connectors	Type K / socket
Alarm output	2 alarms independently configurable Output at 2 floating relay contacts Output at 2 floating relay contacts	2 alarms independently configurable Output at 2 floating relay contacts Screw connectors	2 alarms independently configurable Output at 2 floating relay contacts 2mm receptacle
Connection to air heater	RJ-45 socket for Leister Control Cable (see Accessories)	Screw connectors	Socket, compatible with KSR models
Voltage	100 – 240 VAC, max. 8VA	100 – 240 VAC, max. 8VA	100 – 240 VAC, max. 8 VA
Mains connection lead	2 m, with Euro plug	Without lead, screw connectors	2 m, with Euro plug
Mechanics	Regulator built into housing, ready to operate, can also be integrated into the front panel, with cut-out 67 × 67 mm	Regulator for front panel integration, with cut-out 45 × 45 mm	Regulator built into housing, ready to operate, can also be integrated into the front panel, with cut-out 67 × 67 mm
Size L × W × H	175 × 72 × 72 mm	109 × 48 × 48 mm	175 × 72 × 72 mm
Weight kg	0.45	0.2	0.5
Mark of conformity	CE	CE	CE
Protection classe II	□	□	□
Order no.	125.944	123.039	For LE 700, 230 V / 700 W °C 110.338 For DSE / HT / DF °C 111.164 For HOTWIND S, 230 V / 3700 W °C 110.350 For HOTWIND S, 400 – 440 V / 4 – 5.4 kW °C 110.353 For VULCAN E, 400 – 440 V / 11 – 13.5 kW °C 110.364 For LE 40000, 400 – 440 V / 32 – 39 kW °C 110.362

# Controllers and interfaces: The clever combination.

The power of non-electronic air heaters can be steplessly controlled externally With the DSE three-phase controller. The air temperature can also be regulated in combination with the KSR DIGITAL regulator. The isolation amplifier offers galvanic isolation of the control interface for the LE 700 air heater and the HOTWIND S hot-air blower.

## Controller

### Three-phase adjustment unit DSE



#### Technical data

##### Three-phase adjustment unit DSE

External power electronics module for non-electronic air heaters of series LE 5000 HT and LE 10000 HT, LE 5000 DF and LE 10000 DF

	Potentiometer- operation	for KSR DIGITAL
Heating power steplessly adjustable with potentiometer	•	
Remote control interface for KSR DIGITAL temperature regulator or external PLC control 0 – 12 V		•
Size (L x W x H) mm	230 x 165 x 86	
Fixture hole pitch mm	150 x 150	
Mark of conformity	CE	
Protection classe II	⊕	

DSE for		KSR	Potentiometer	KSR
Power supply voltage	V ~	3 x 230	3 x 400 – 440	3 x 400 – 440
Max. current	A	3 x 20	3 x 20	3 x 20
Order no.		110.574	110.571	110.572

Additional versions on request

## Interface

### Interface



#### Technical data

##### Interface





This interface has to be used for reference voltage operation of LE 700 und HOTWIND S

Power consumption	mA	10
Input range	V DC	0 – 7.5
Output range	V DC	0 – 7.5
Size (L x W x H)	mm	165 x 60 x 80

Interface		120	230	400
Power supply voltage	V			
For LE 700 KSR	Order no.	129.448	129.563	
For HOTWIND S KSR	Order no.	129.572	129.573	129.574

Additional versions on request

## Accessories CSS, CSS EASY, KSR DIGITAL

106.956		Thermocouple with plug, 1 m cable  > CSS > CSS EASY > KSR DIGITAL
106.958 106.960 106.962		Thermocouple extension cable with plug and connection 2 m 4 m 10 m  > CSS > CSS EASY > KSR DIGITAL
126.596		Programming cable with connection with DSUB9/V.24 connector for c onfiguration with PC.  > CSS > CSS EASY
111.331		Controller/extension cable 5 m  > KSR DIGITAL > DSE