Most suited for:
Suitable for installation in **cooking vat units with twin wall** (heated through thermo-conducting oil)

Special feature:
Two Pt100 temperature sensors take the temperature of the vat wall and the twin wall and control the water temperature via the thermo-conducting oil.

Function:
An **overall operating time** and an optional **waiting time** can be set. The regulator operates with the **Delta-control process**. The heating control can be set to work as: 2-point, XP or clocking. There is a choice of function for relay K2 as signal- or operational relay.

In case of a power cut, the regulator MKA 118 will resume the interrupted program automatically as soon as power is restored.

Graphic with optional **WP-frame**

Range of settings:
Operation time from 00h : 01min to 99h : 59min, 00 : 00 = continuous operation
Temperature range for the vat temperature   : from 0°C to 250°C
Temperature range for the Delta temperature: from 0°C to 99°C

Technical data

Mechanical data
Casing: DIN 43700
Reinforced fibre-glass Noryl, shock-resistant, black colour, temperature-resistant up to 110°C (low flammability)

Front frame	96 x 96 mm
With waterproof frame	138 x 138 mm
Mounting dimensions	90 x 90 mm
Mounting depth	55 mm
With terminals	70 mm
Own weight:	600 g

In-/Outputs
Inputs: 2x Pt100, two-wire circuit, can be digitally aligned
Outputs: 2x relay outputs, Switching capacity 250V AC/5A potential free, of which 1 alternating contact for heating 1 closing contact for operating time or signal

Options:
- Waterproof frame, protection IP67 from the front
- aditec **VisuNet** quality control
- Serial interface RS232 / RS485 for protocol print or "SVN" for data transfer „aditec **VisuNet**"

Electrical data
Operating voltage (standard): 230V 50/60Hz +/-10%
Special design: 24/42/48/110/127/240 V
Own consumption: ca. 6 VA
Safeguard on front side :   with rubber seal IP 65
Optional with WP-frame: IP 67
Connections: connection terminals 1,5 mm² (detachable)
Permissible ambient temperature: -10/+70°C

Displays
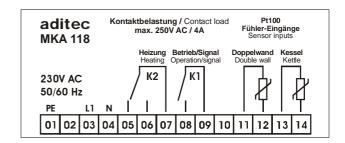- digital (7-segment display, red)
  Height of numbers: 14 mm
  3-digit for temperature   resolution: 1°
  4-digit for operating time resolution: 1 min
Switching status display: light-emitting diodes (LED)

Circuit diagram

aditec MKA 118 — Kontaktbelastung / Contact load max. 250V AC / 4A — Pt100 Fühler-Eingänge Sensor inputs — Heizung/Heating K2 — Betrieb/Signal Operation/signal K1 — Doppelwand Double wall — Kessel Kettle — 230V AC 50/60 Hz — PE L1 N — 01 02 03 04 05 06 07 08 09 10 11 12 13 14

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