

## Data Sheet

Mixing / Magnetic Stirrers



### RET control visc C IKAMAG® safety control

- Safety magnetic stirrer with heating, suitable for unsupervised operation.
- Option: 1 sensor for medium temperature (PT 100) or 2 separate temperature sensors for heat transfer fluid and medium (PT 1000) available (automatic identification)
  - 2 adjustable safety circuits
  - Stirring bar crack detection
  - With white coated surface (chemical resistant)
  - Setting acc. medium temperature: 0,5 K
  - HOT warning display indicating presence of any residual heat when the unit is switched off
  - Easy-to-read backlit LCS display
  - Display resolution actual medium temperature: 0,1 K (RT to 100 °C); 1 K (from 100 °C upwards)
  - Fuzzy control and microprocessor technology guarantee maximum control accuracy
  - PC control via RS 232 interface, with optional safety function
  - Software labworldsoft® is available to control and document all measuring values via PC
  - HOT visual warning for hot heating plate
  - 3 modes of operation, e.g. stirring and heating functions can be secured against inadvertent changes of set parameters
  - Viscosity trend display
  - Enclosed assembly (IP 42) guarantees long service life
  - Incl. Protection cover H 99

Accessories: H 135.3 Carrier plate, H 135.313 Quarter, 4 ml reaction vessel (Gold), H 135.314 Quarter, 8 ml reaction vessel (Blue), H 135.315 Quarter, 16 ml reaction vessel (Red), H 135.310 Quarter, 20 ml reaction vessel (Black), H 135.311 Quarter, 30 ml reaction vessel (Green), H 135.312 Quarter, 40 ml reaction vessel (Orange), H 135.4 Reaction block, 100 ml round flask (Black), H 135.5 Reaction block, 500 ml round flask (Purple), H 135.6 Reaction block, 1000 ml round flask (Blue), H 135.410 Insert, 10 ml round flask (Gold), H 135.411 Insert, 25 ml round flask (Blue), H 135.412 Insert, 50 ml round flask (Red), H 135.510 Insert, 200 ml round flask (Turquoise), H 135.511 Insert, 250 ml round flask (Clear), H 135.512 Insert, 300 ml round flask (Black), H 135.610 Insert, 500 ml round flask (Purple), IKAFLON® 10 Magnetic stirring bar, IKAFLON® 15 Magnetic stirring bar, IKAFLON® 20 Magnetic stirring bar, IKAFLON® 25 Magnetic stirring bar, IKAFLON® 30 Magnetic stirring bar, IKAFLON® 40 Magnetic stirring bar,

#### Technical Data

Number of stirring positions	1
Stirring quantity max. per stirring position (H2O) [l]	20
Stirring quantity max. (H2O) [l]	20
Motor rating input [W]	12
Motor rating output [W]	5
Speed display	LCD
Speed range [1/min]	0 - 1500
Stirring bar length max. [mm]	80
Heat output [W]	600
Heating rate (1 l H2O in H15) [K/min]	6
Heating temperature range [°C]	room temp. - 300
Heat control accuracy [±K]	1
Fixed safety circuit [°C]	370
Adjustable safety circuit min. [°C]	100
Adjustable safety circuit max. [°C]	300
Connection for ext. temperature sensor	PT 100
Control accuracy with sensor [±K]	.2
Set-up plate material	technical enamel
Set-up plate dimensions [mm]	Ø 135
Dimensions (W x H x D) [mm]	160 x 97 x 280
Weight [kg]	2.8
Permissible ambient temperature [°C]	5 - 40
Permissible relative moisture [%]	80
Protection class according to DIN EN 60529	IP 42
RS 232 interface	yes
Analog output	yes
Voltage [V]	220 - 230 / 115 / 100
Frequency [Hz]	50/60
Power input [W]	630
<b>Ident. No.</b>	<b>3364101</b>

IKAFLON® 50 Magnetic stirring bar, IKAFLON® 80 Magnetic stirring bar, TRIKA® 25 Magnetic stirring bar, TRIKA® 40 Magnetic stirring bar, RS 1 Set of magnetic stirring bars, RSE Stirring bar remover, PT 100.51 Temperature sensor, PT 100.50 Temperature sensor, PT 1000.50 Temperature sensor, PT 1000.51 Temperature sensor, labworldsoft®, H 16 V Support rod, H 16.1 Extension, H 38 Holding rod, H 44 Boss head clamp, R 380 Stand support, AM 1 Analog module, H 15 Bath attachment, H 28 Bath attachment, H 29 Oil bath attachment, H 30 Oil bath attachment, H 11 Mains cable Euro plug, H 11 Mains cable CH plug, H 11 Mains cable UK plug, H 11 Mains cable USA plug