



RET control-visc

WORLD'S FIRST: Safety magnetic stirrer with heating and integrated weighing function. The clear, multilingual TFT display makes it easy to set all parameters.

Integrated temperature control feature enables connection of a temperature probe which can be placed directly in the medium to control medium temperature with a high degree of precision. PT 100 temperature sensor is included with purchase of RET control. The stainless steel composite hot plate, reaching a temperature of 340 °C, enables rapid heating.

RS 232 and USB interface enables pc control of the magnetic stirrer and documentation of all test parameters. Furthermore firmware updates can be installed through the USB interface. The Lock function prevents inadvertent changes of speed and temperature settings.

As a safety feature, the current temperature is displayed when the unit is switched off but surface is still hot. Below 50 °C the display turns off automatically

- Integrated weighing function
- BNC socket for connection of a pH electrode
- Adjustable temperature control mode: rapid heating or very accurate temperature control
- Dual sensor for simultaneous control of heat transfer fluid temperature and medium temperature (optional)
- Timer and countdown functions
- Display of viscosity change trend
- Detached magnet detection
- Intermittent operation
- Several modes of operation available
- Safety circuit adjustable from 50 to 380°C
- Transparent protective cover included
- Error code display for easy troubleshooting
- Exact temperature and speed adjustment by means of digital display; even when function is switched off
- Digital display of the safety temperature limit
- Suitable for unsupervised operation
- Sealed casing (IP 42) ensures a long service life

Package includes
RET control-visc
labworldsoft®

Technical Data	
Number of stirring positions	1
Stirring quantity max. per stirring position (H ₂ O) [l]	20
Motor rating input [W]	22
Motor rating output [W]	12
Speed display	TFT
Speed range [rpm]	0/50 - 1700
Stirring bar length max. [mm]	80
Heat output [W]	600
Heating rate (1 l H ₂ O in H15) [K/min]	7
Heating temperature range [°C]	Room temp. - 340
Temperature medium max. (dep. on vessel) [°C]	265
Heat control	TFT
Heat control accuracy [±K]	0.1
Speed control	TFT
Adjustable safety circuit min. [°C]	50
Adjustable safety circuit max. [°C]	380
Connection for ext. temperature sensor	PT 100
Heat control accuracy of medium with sensor [±K]	0.2
Accuracy of temperature measurement [K]	± (0,15 + 0,2% o.Mv.)
Temperature measurement resolution [K]	0.1
Self-heating of the hotplate by stirring (RT:22°C/duration:1h) [+K]	35
Set-up plate material	stainless steel 1.4301
Set-up plate dimensions [mm]	Ø 135
Weighing function	yes
Weighing range [g]	0 - 5000
Load capacity weighing function max. [kg]	5
Weighing accuracy	<500g : +/-1g , >500g: +/-5g
Viscosity trend measurement	yes
Intermittent mode	yes
Break detection stirring bar	yes
Timer	yes
Dimensions (W x H x D) [mm]	160 x 85 x 270
Weight [kg]	2.7
Permissible ambient temperature [°C]	5 - 40
Permissible relative humidity [%]	80
Protection class according to DIN EN 60529	IP 42
RS 232 interface	yes
USB interface	yes
Voltage [V]	220 - 240 / 115 / 100
Frequency [Hz]	50/60
Power input [W]	650
Ident. No.	0010001496