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C-MAG HS 7 control

/// Data Sheet

The IKA C-Mag HS 7 control has a square top made of ceramic. It stirs volumes of up to 20l (H2o) and runs at speeds ranging from 50-1500rpm. IKA's stands strongly by its product and technology and is offering a lifetime warranty for this product – scientists can focus on their experiments using a reliable hotplate stirrer. IKA not only focuses on hardened glass because of visibility, chemical resistance and safety, it also optically changes the game of a magnetic stirrer with a glass surface. The C-Mag HS 7 control improves over time with regular firmware updates – control of kinetics and sensitive reactions are supported by the integrated timer and counter function – the IKA SmartTemp® function protects user intelligently. PT1000 temperature sensor included.

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- High-performance motor for mixing volumes up to 20 L (H_2O)
- Easy-to-read display
- Glass housing surface for optimal cleaning and chemical resistance
- Connection for PT 1000 temperature probe (included)
- Control accuracy in the medium: ±0.5 K
- Adjustable safety range: 100 °C – 650 °C
- IKA SmartTemp® warning for hot surfaces to prevent burns!
- Raised control panel to protect against spilled liquids
- USB/RS232 interface
- Lifetime warranty*
- reddot award 2017
- Automatic shutdown of the temperature control function if the connected external temperature probe is not immersed in the medium. Function selectable, timeout duration adjustable (Error 5)

*2 years warranty + 8 additional years after device registration via MyIKA at www.ika.com/register

Scope of delivery
•C-MAG HS 7 control
•PT 1000.60 Temperature sensor, stainless steel
•IKAFLON® 30 Magnetic stirring bar
•IKAFLON® 40 Magnetic stirring bar
•Screwdriver
•USB A-B Cable

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Technical Data

Number of stirring positions	1
Stirring quantity max. per stirring position (H2O) [l]	20
Maximum load [kg]	25
Motor rating output [W]	9
Direction of rotation	right / left
Speed display set-value	LCD
Speed display actual-value	LCD
Speed adjustment	Turning knob
Speed range [rpm]	50 - 1500
Setting accuracy speed [rpm]	10
Stirring bar length [mm]	30 - 80
Self-heating of the set-up plate by max. stirring (RT:22°C/duration:1h) [K]	+2
Heat output [W]	1000
Temperature display set-value	LCD
Temperature display actual-value	LCD
Temperature unit	°C
Heating temperature range [°C]	room temp. - 500
Heat control	Turning knob
Display resolution [K]	1
Temperature setting range [°C]	0 - 500
Temperature setting resolution of heating plate [K]	5
Connection for ext. temperature sensor	PT1000, ETS-D5, ETS-D6
Temperature setting resolution of medium [K]	1
Adjustable safety circuit [°C]	100 - 650
Set-up plate material	ceramic
Set-up plate dimensions [mm]	180 x 180
Automatic reverse rotation	yes
Intermittent mode	yes
Viscosity trend measurement	yes
Timer	yes
Timer display	LCD
Time setting min. [s]	1
Time setting max. [min]	143940
Sensor in medium detection	yes
Temperature measure range PT1000 [°C]	-10 - 350
Speed deviation (no load,nominal voltage, at 1500rpm + 25 °C) [%]	±2
Heating rate (1l H2O in H1500) [K/min]	5
Heat control accuracy of heating plate (at 100°C) [K]	±5
Heat control accuracy with ext. PT1000 (500ml H2O in 600ml beaker,40mm stirring bar,600rpm,50°C) [K]	±0.5
Heat control accuracy with ETS-D5 (500ml H2O in 600ml beaker,40mm stirring bar,600rpm,50°C) [K]	±0.5
Heat control accuracy with ETS-D6 (500ml H2O in 600ml beaker,40mm stirring bar,600rpm,50°C) [K]	±0.2
Dimensions (W x H x D) [mm]	220 x 88 x 354
Weight [kg]	4
Permissible ambient temperature [°C]	5 - 40
Permissible relative humidity [%]	80
Protection class according to DIN EN 60529	IP 21
RS 232 interface	yes
USB interface	USB-B

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Voltage [V]	220 - 230
Frequency [Hz]	50/60
Power input [W]	1020
Power input standby [W]	2