



designed for scientists



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. Automatic switch-off of the heating function if the connected external temperature sensor is not immersed in the medium. Function selectable, timeout time adjustable (Error 5). PT1000 temperature sensor included.

Technical Data

Number of stirring positions	1
Stirring quantity max. per stirring position (H ₂ O) [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]	+1
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 (Error 5)	yes
Temperature measure range PT1000 [°C]	-10 - 350
Speed deviation (no load, nominal voltage, at 1500rpm + 25 °C) [%]	±2
Heating rate (1l H ₂ O in H1500) [K/min]	5
Heat control accuracy of heating plate (at 100°C) [K]	±5
Heat control accuracy with ext. PT1000 (500ml H ₂ O in 600ml beaker, 40mm stirring bar, 600rpm, 50°C) [K]	±0.5
Heat control accuracy with ETS-D5 (500ml H ₂ O in 600ml beaker, 40mm stirring bar, 600rpm, 50°C) [K]	±0.5
Heat control accuracy with ETS-D6 (500ml H ₂ O 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	yes



designed for scientists

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