

# HMC EUROPE

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## AUTOCLAVES HG-SERIES



## AUTOCLAVES HV-SERIES



## TABLETOP AUTOCLAVES HMT-SERIES



## MAGNETIC STIRRERS CYCLONE



## OPERATION INSTRUCTIONS

# HMC EUROPE

Single-point magnetic stirrers CYCLONE 1-60,1-100,1-150



### 1. SAFETY DIRECTIONS

Before operating the equipment please read carefully all the instructions and safety notes. If you have any questions, please contact us!

Follow the directions on setting up, operation etc., this is the only way to avoid incorrect operation of the equipment and to ensure full warranty protection.

- Transport the equipment with care!!
- Device and device interior can be damaged:
  - by shock
  - by dropping
- Equipment must only be operated only by technically qualified personnel!
- Do not start up equipment when:
  - It is damaged
  - The supply cable or network device is damaged

Switch off the equipment and pull out the mains plug for :

- Servicing or repair
- Before moving the equipment!
- Have the equipment serviced or repaired by properly qualified personnel only!!





HMC CYCLONE magnetic stirrers are made for mixing and stirring of liquids. As a result of this there are certain ordinary risks by using electrical energy. Additionally risks could result by using and mixing different substances. This is in the responsibility of the user. The equipment may only be used as described in this operating manual by qualified employers.

**2. OTHER SAFETY DIRECTIONS:**

Connect equipment only to power supply ; switch off equipment before cleaning or maintenance!  
Use only suitable magnet stirrer bars!

**3. SHORT INSTRUCTIONS**

**(1) DISPLAY AND OPERATION SWITCHES CYCLOPOWER 20**



Speed/Power minus / plus

ON/OFF KEY

Display for rpm and power in %

**(2) OPERATION CYCLOPOWER 20**

Connect Power Supply to magnetic stirrer.

Press **C** : Display shows „200“ = basic setting

Press **C** : revolution speed will be reduced in steps of 5rpm  
minimum revolution speed 100rpm

Press **C+** : revolution speed will raise in steps of 5rpm  
maximum revolution speed 1200rpm

Power setting:

Press **C** and **C** to reduce power in steps of 5%, minimum: 20%

Press **C** and **C+** to raise power in steps of 5%, maximum 100%

Setting power: to reduce warming of stirrer surface or for better stirring effect with higher volumes.

Press **C** and **C+** simultaneously to reset the magnetic stirrer to 200rpm und 50% Power



Reference: The mixing-effect depends strongly on the size and quality of the used magnetic stirring bars, the volume and viscosity of the liquid which should be mixed, as well as and from glassware.

The surface of the magnetic stirrer is equipped with a transparent coating, which easily can be drawn-off.



**(3) OPERATION CYCLOPOWER 7**

Through adjusting-knob turn on device and increase or reduce speed range.

Technical Details				
Type	unity	Cyclone 1-60	Cyclone 1-100	Cyclone 1-150
Number of stirring points		1	1	1
Stirring volume per stirring points	(ml)	1-700	1-1000	1-1500
Stirring power	(W)	Mai 20	Mai 20	Mai 20
Speed range	(1/min)	100-1000	100-1000	100-1000
Dimmensions	(mm)	60	100	150
Weight (stiring drive)	(g)	160	270	400
Operating Voltage	(VDC)	12	12	12
Construction				
Material stirring drive		Aluminium	Aluminium	Aluminium
Protection acc. to DIN 40050		IP 68	IP 68	IP 68
Controlling cable (length)	(m)	1	2	2
Environment conditions				
Environment temperature	(°C)	-10 up to +56 at 100% humidity	-10 up to +56 at 100% humidity	-10 up to +56 at 100% humidity
Operation temperature	(°C)	0-95	0-95	0-95
Using		remote controlled	remote controlled	remote controlled
Supply voltage/ frequency		100 oder 240 VAC/50-60Hz	100 oder 240 VAC/50-60Hz	100 oder 240 VAC/50-60Hz
<b>Incl. Cyclo Power 7, 7W</b>	Article no.	<b>90022</b>	<b>90023</b>	<b>90024</b>
<b>Inkl. Cyclo Power 20, 20W</b>	Article no	<b>90003</b>	<b>90004</b>	<b>90005</b>