

# MST basic and MST basic C

## Magnetic stirrers with heating

- ☒ With adjustable safety temperature circuit
- ☒ With a new, extremely powerful magnetic inductive stirring drive
- ☒ With new hot-plate technology for equal heat distribution and fast heat-up cycles

Speed range:	15 to 1.250 rpm
Heat output:	600 W
Temperature range:	RT - 310 °C ± 20 K
Max. power consumption:	630 WS
separate adjustable safety temperature circuit:	50 - 350 °C ± 20 K
Heating plate diameter:	135 mm
Control accuracy of medium during operation with temperature controller TC 1:	± 1 K
Temperature controller connection:	DIN 12878
Dimensions (W x D x H):	160 x 280 x 85 mm
Weight:	3,2 kg
Protection class acc. to DIN EN 60529:	IP 43

**The MST is available in two versions:**

### **MST basic incl. protection cover H 88**

with a stainless steel plated heating plate surface, which is very fast in comparison to standard Silumin heating plates.

Id-Nr. 2987000

### **MST basic C incl. protection cover H 88**

with a chemical resistant white coated heating plate surface.

Id-Nr. 2989900

**Protection cover H 88** Id-Nr. 3379500



MST basic Package

Id-Nr. 9008000

MST basic C Package

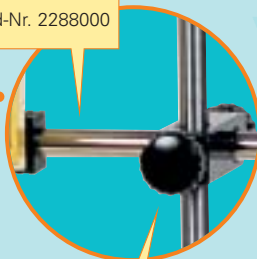
Id-Nr. 9008100

\* Package including: MST basic or MST basic C and accessories 1.1 to 1.4

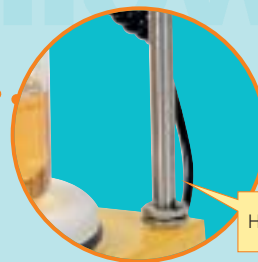


**1.1** TC 1 Id-Nr. 3199900

**1.3** H 36 Id-Nr. 2288000



**1.2** H 44 Id-Nr. 2437700



H 16 V Id-Nr. 1545100

**1.4**

## Accessories:

### 1.1

#### Temperature controller TC 1

Electronic temperature controller with Fuzzy Logic control and RESET function. For magnetic stirrers and heating plates according to DIN 12878.

- Digital temperature display

Measuring / control range:	-10 to +400 °C
Resolution :	0,1 K (-10 to +100 °C) 1 K (100 - 400 °C)
Measuring accuracy:	± 0,3 K
Sensor tolerance PT 1000:	DIN IEC 751 Class B
Control deviation:	± 1 K
Protection class acc. to DIN EN 60529:	IP 44

### 1.2

#### Boss head clamp H 44

The boss head clamp H 44 is used to fasten the holding rod H 36 to the support rod H 16 V.

### 1.3

#### Holding rod H 36

The holding rod is used to support the temperature controller TC 1 to the boss head clamp H 44 and the support rod H 16 V .

### 1.4

#### Support rod H 16 V

Support rod made of stainless steel for secure clamping of the temperature controller TC 1 to the MST basic.

Diameter:	10 mm
Length :	450 mm



## The new IKA®- magnetic inductive drive

The innovative coil drive consists of 8 coils. It has high traction power and is maintenance-free. It also guarantees wear-free operation and the highest level of precision, since the drive contains no mechanically moving parts. Thanks to the new "micro-step" activation for speeds less than 150 rpm, speeds with good circularity are possible beginning at 15 rpm.