

Operating instructions

Density determination set for precision balance KERN EMB 200-3V

KERN YDB-01

Version 1.0

04/2012

GB



YDB-01-BA-e-1210



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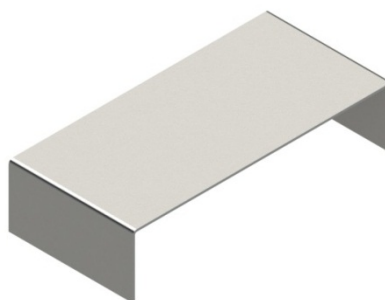
1 Scope of delivery

- ⇒ Check packaging and density determination set immediately when unpacking for possible visible damage.
- ⇒ Make sure that all parts are completely present.

1 Weighing plate "density set"



2 Platform



- ③ Beaker



- ④ Immersion basket for descending solid matter (density $> 1 \text{ g/cm}^3$)



- ⑤ Immersion basket for floating solid matter (density $< 1 \text{ g/cm}^3$)



- ⑥ Sinker
20 g stainless steel weight

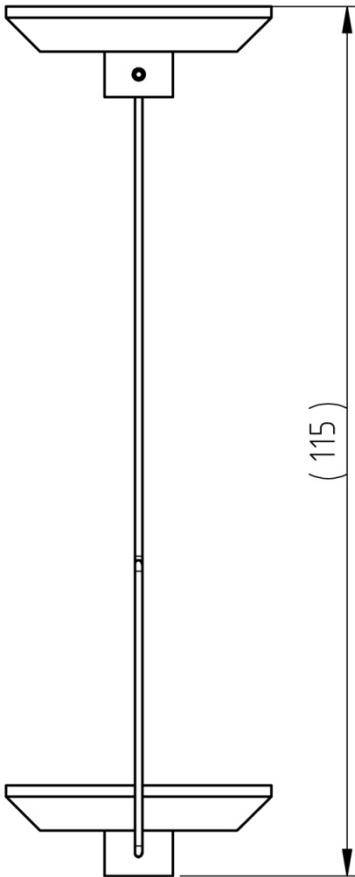
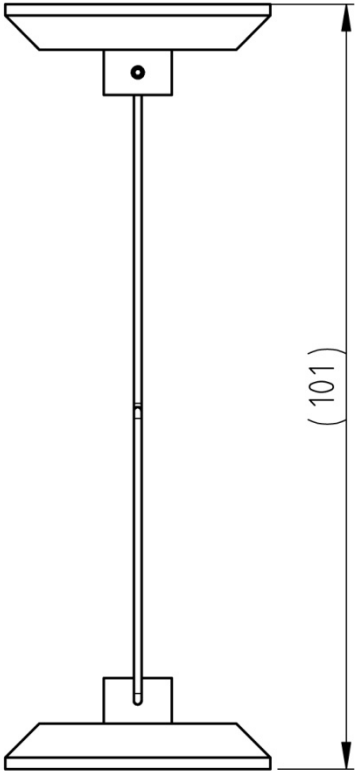
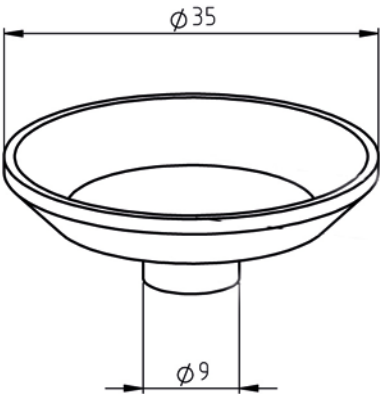


- ⑦ Thermometer

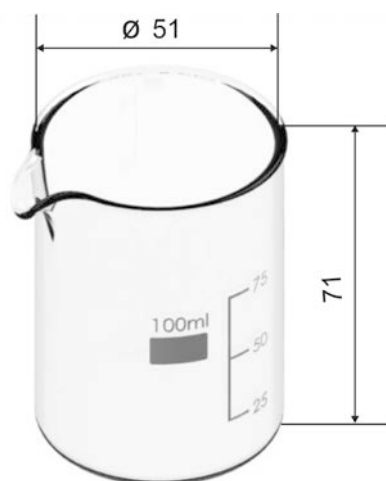


2 Dimension [mm]

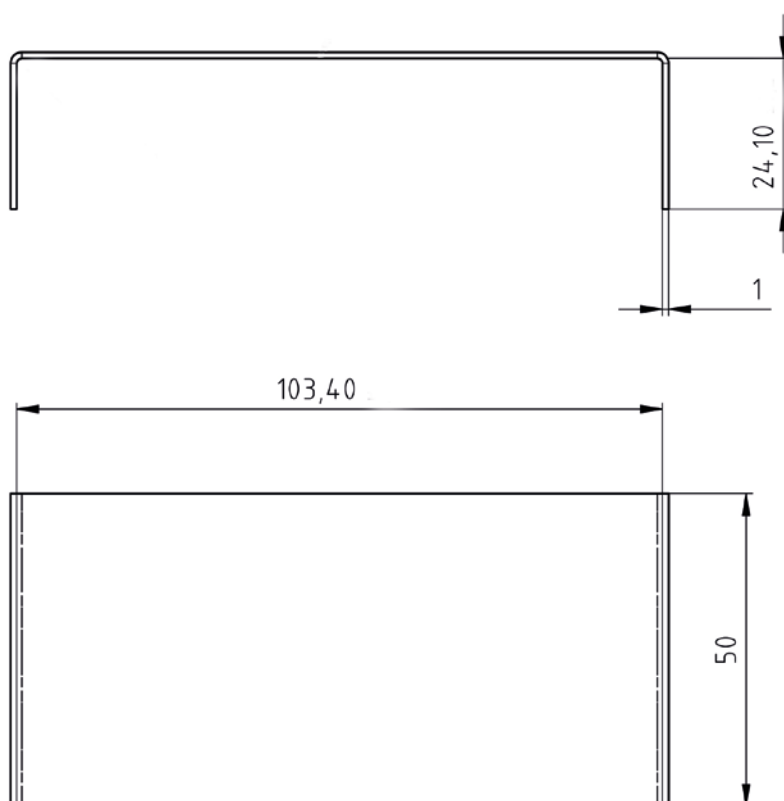
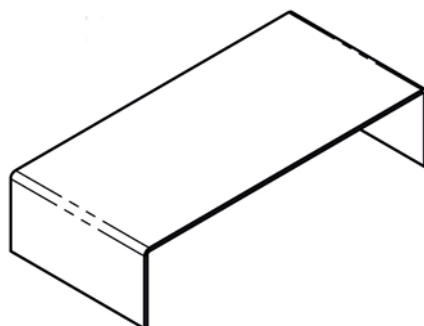
English

Immersion basket for descending solid matter (density > 1 g/cm³)	Immersion basket for floating solid matter (density < 1 g/cm³)
 Diagram of an immersion basket for descending solid matter. It consists of a top flared rim, a central vertical rod with a small circular detail near the top, and a bottom flared rim. A vertical dimension line on the right indicates a height of (115) mm.	 Diagram of an immersion basket for floating solid matter. It consists of a top flared rim, a central vertical rod with a small circular detail near the top, and a bottom rectangular base. A vertical dimension line on the right indicates a height of (101) mm.
Sample dish  Diagram of a sample dish. It is a shallow, flared bowl with a central vertical stem. The top diameter is labeled $\varnothing 35$ and the bottom stem diameter is labeled $\varnothing 9$.	

Beaker



Platform



3 Installation with KERN EMB 200-3V



Fig.1: KERN EMB 200-3V with installed density sets KERN YDB-01 (numbering, see chap. 1)

- ⇒ Disconnect scale from power supply.
- ⇒ Remove the standard weighing plate and replace it with the density set.
- ⇒ Place the platform for glass containers in a way that it does not touch the weighing plate.
- ⇒ Place beaker in the centre of the platform. Make sure that it has no contact with the frame.
- ⇒ Hang the immersion basket on the rack. Make sure that it is centred in the recess.
- ⇒ Pour the liquid into the glass beaker. Filling height should be approx. $\frac{3}{4}$ of the capacity. Immerse thermometer
- ⇒ Heat the liquid, the instruments or the sinker until the temperature is constant. Observe the warm-up time of the balance.



For further information, as well as the procedure of density determination please see the operating instructions added to the density balance KERN EMB 200-3V or on the KERN homepage (www.kern-sohn.com).