



Product:

HAAKE Fogging Tester

Manufactured By:

Thermo Fisher Scientific

### The refrigerated circulator DC30-K20

(order no.: 426-3601; 1 necessary) ensures that all six cooling plates are fed with cooling water. The temperature difference between the plate inlet and outlet is not greater than 1°C. The high pump and cooling capacity of the refrigerated circulator DC30-K20 is necessary to ensure this tight temperature tolerance.

### The cooling plates

(order no.: 333-0285; 6 necessary) are made from aluminum with a stainless steel contact surface to the glass plate. They are hollow and are cooled by the refrigerated circulator DC30-K20.

### The glass beakers

(order no.: 333-0276; 6 necessary) are made from heat-resistant glass and have a level base. The samples cut out of the test material are placed on the base of the beakers or the beakers are filled with the required quantities of raw materials.

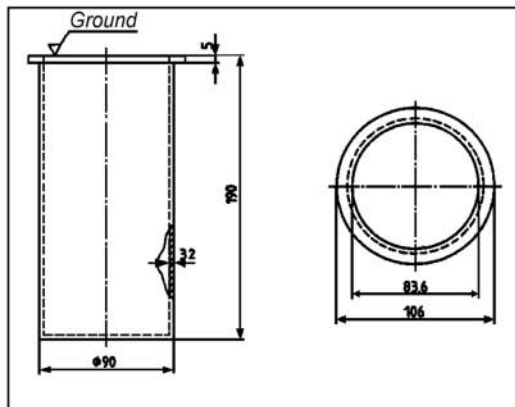


Fig. 2: Dimensions of the glass beaker

### The metal rings

(order no.: 333-0286; 6 necessary) are made from chrome-plated steel and serve to keep the sample pressed onto the base of the beakers.

Outer diameter: 80 mm,  
inner diameter: 74 mm,  
height: 10 mm,  
weight: 55 ± 1 g



### The fluoroelastomer sealing rings

(order no.: 333-0278; 6 necessary) are used as a seal between the ground collar of the beakers and the glass plates placed on top. They are designed as toroidal sealing rings.

Inner diameter: 95 ± 1 mm, cross section: 4 mm Ø,  
hardness: 60 ± 5 Shore A

*The seals have a limited service life and should therefore be categorized as wearing parts.*



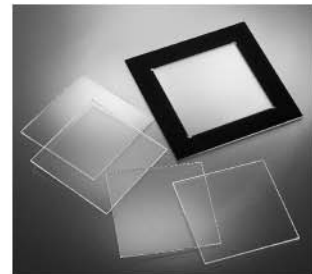
### The support rings

(order no.: 002-1658; 6 necessary) are used for stabilizing the sealing rings and thus for simplifying handling.

### The square glass plates

(order no.: 333-0288; 6 necessary) on which the fogging condensation forms are made from floated glass. A variation range of ± 2 % from the permissible reflectometer value  $R_{0i}$  is allowed. Dimensions: 110 x 110 mm, glass thickness: 3 ± 0.2 mm.

*The glass plates have a limited service life and should therefore be categorized as wearing parts.*



### The frame for the glass plates

(order no.: 999-0067; 1 necessary) is made from black-painted aluminum. The glass plate with the fogging condensation is located within this frame for measurement so as to prevent the fogging condensation from being influenced or smeared.

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*Regards from the Team at Rheology Solutions.*

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### The round glass plates

(order no.: 333-0443; 6 necessary) serve as the location for the round aluminum foils.

Ø: 103 mm,  
glass thickness:  
3 ± 0.2 mm



### The set of round foils

(order no.: 333-0442, 1 necessary) contains approx. 200 foils and is only used for method "B" (gravimetric method). One foil is used per test.

### The sample cutter

(order no.: 999-0062; 1 necessary) is designed for a cutting diameter of 80 mm to produce the necessary test samples from leather or plastic films. It is recommended to order the respective wearing parts set (order no.: 002-1796; 1 necessary) as an initial starter kit.

### The heat transfer liquid FOG 150

(order no.: 999-0063; 4 x 10 liters necessary) is soluble in water and can be used up to temperatures of approx. 150°C. Thermo Haake supplies a tried-and-tested BASF thermal liquid.

### The set of covers

(order no.: 333-0284; 1 necessary) consists of two cover halves each for covering the three openings of the temperature controlled bath P2-FOG. This prevents contamination and/or evaporation of the heat transfer liquid if the bath is only partly used.



### The reflectometer

(order no.: 999-0224; 1 necessary) is manufactured by the company Dr. B. Lange in Duesseldorf. It works according to the reflection principle, i.e. the directed reflection of the material sample is measured within an angle of 60°. The unit corresponds with internationally recognized standards. A calibration standard is enclosed in the delivery.

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