

LABSOLUTE[®] CONDENSER ACC. TO LIEBIG with PP olives

Properties / Helpful hints:

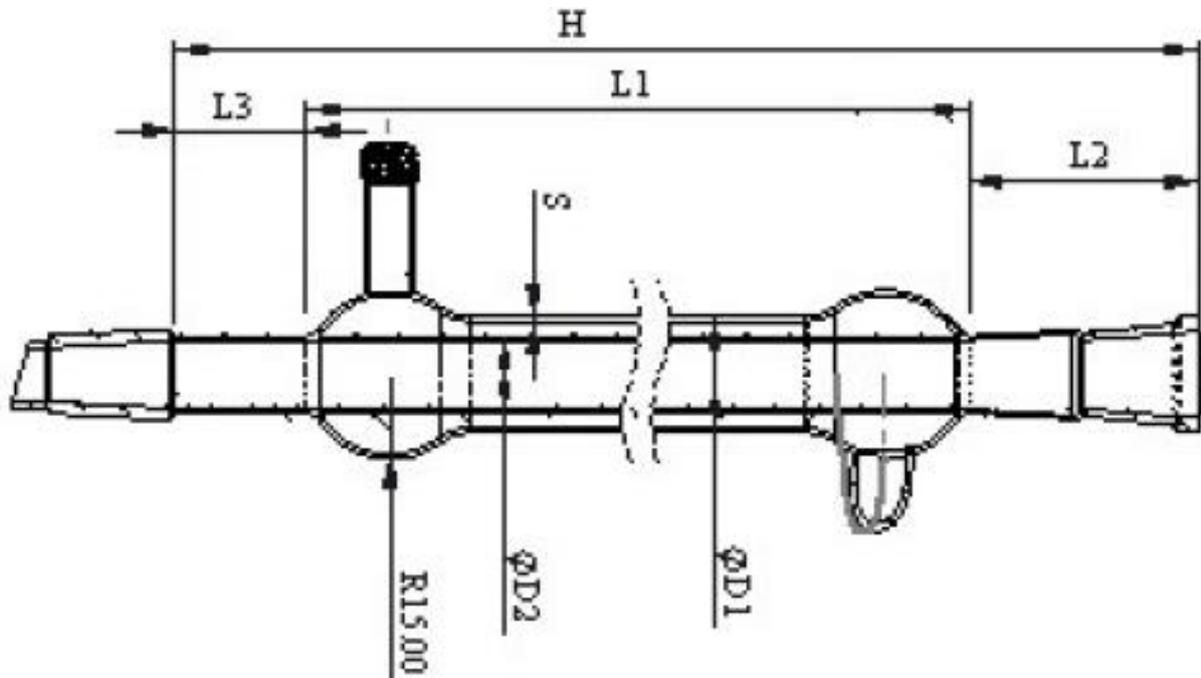
- Made of borosilicate glass 3.3
- According to DIN 12576
- With PP olives and GL14 screw connectors
- Perfect chemical resistance
- High temperature resistance

Perfect for the use in field of distillation.

The choice of the right condenser type depends on the boiling point of the used substances. The longer a condenser is, the higher is its cooling power.

A tube (for example made of natural rubber or silicone) is recommended to connect a condenser with PP olives to the water tap. If you have a condenser with glass olives a tube with an internal diameter of 8-9 mm should be used. Please use a suitable hose clamp to protect the tube against slipping off from the olives..

Technical drawing / picture:



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Value table:

Item no.	NS	L1 mm	L2 mm	L3 mm	Ø1 mm	Ø2 mm
7.690 350	14/23	160	50	30	20	12
7.690 351	29/32	250	80	40	24	16
7.690 352	29/32	400	80	40	24	16

Description of the abbreviations in the value table:

Item no.	Item number
NS	Nominal size of the ground joint of socket and cone
L1	Length of the cooled area in millimeter (mm)
L2	Length above the cooled area in millimeter (mm)
L3	Length below the cooled area in millimeter (mm)
H	Total length of the condenser in millimeter (sum of L1 + L2 + L3; mm)
Ø1	Outer diameter of the condenser in millimeter (mm)
Ø2	Diameter of the inner glass tube in millimeter (mm)

Physical properties of borosilicate glass 3.3 acc. to ISO 3585:

Properties	Value
Linear coefficient of thermal expansion α (20°C;300°C) acc. to ISO 7991	$3.3 \cdot 10^{-6} \text{ K}^{-1}$
Transformation temperature T_g	525 °C
Permitted max. working temperature	500 °C
Density ρ (20 °C)	2.23 g/cm ³
Coefficient of thermal conductivity λ (20 to 100 °C)	1.2 Wm ⁻¹ K ⁻¹
Hardness (according to Mohs)	6°
Refractive index n_D ($\lambda = 587.6 \text{ nm}$)	1.473

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