

SHORT PATH EVAPORATOR UNIT DSV 80



Pict. Short path evaporator unit DSV 80

Construction of the short path evaporator unit DSV 80

This short path evaporator with roll wiper cage is used for distillation of temperature sensitive products in vacuum ranges from $1\text{-}10^{-3}$ mbar. The dwell time in the heating zone is only a few seconds. The composition of the condenser in the centre of the evaporator, direct in face to the heating surface, enables the running of short path distillations.

The short path evaporator type DSV 80 is made of Borosilicate glass 3.3 and is suitable for short path distillations in laboratories. The evaporator has an inner diameter of 75 mm and a heating surface of 0.058 m^2 . The heating is effected with a liquid medium.

A rotating roll wiper cage produces a liquid film on the evaporator surface. The armature is powered from outside via a laboratory agitator and vacuum magnet stirrer seal. The vapours condense at the condenser in the centre of the evaporator. The distillate runs down over the condenser into the distilling receiver. The not distilled sump product is sampled in a ring line below the heating zone and lateral led into the sump receiver. The evaporator can be used for liquid substances with an higher viscosity too.

Operation pressure:	760 mbar to 10^{-3} mbar
Medium heating temperature:	max. $250\text{ }^{\circ}\text{C}$
Distillation volume:	0.3 to 1 kg/h
Dimensions of the frame:	L x H x D 1500 x 2000 x 600 mm

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