



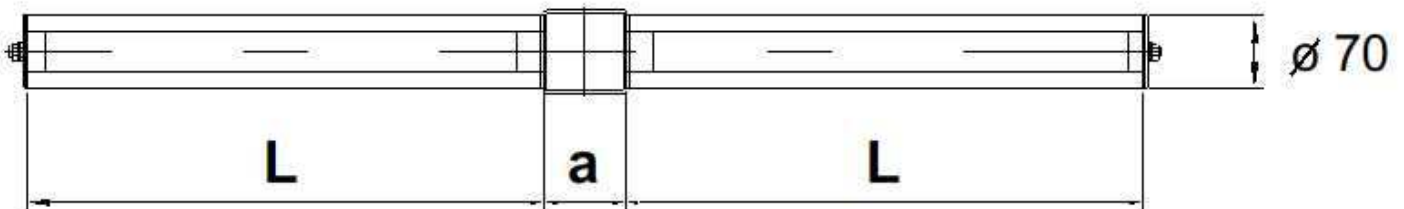
## Ceramic Tube Diffusers



Mantec Ceramic diffusers are used mainly for applications where continuous aeration is required by the process. They are installed in industrial plants where there are problems with the chemical resistance of membrane materials or for ozonation of drinking water plants. Ceramic diffusers are characterized by their high mechanical strength and good chemical resistance properties, also in the presence of solvents.

The sintered ceramic material guarantees good regeneration properties of elements. Regeneration may occur either by addition of formic acid during plant operation for the built-in condition or by flooding the aeration elements. In extreme cases, the aeration elements may be cleaned with compressed air after disassembly. Heavy organic impurities are removed by baking. The ceramic diffuser tubes are mounted on the distribution

pipe with centering and end pins by means of a tie rod with wing nuts. The aeration piping is installed at the bottom of the aeration tank. Depending on the material chosen for the piping, the ceramic tube diffusers are fastened to the piping either directly or by means of tees.



**EKR 10:** 1 set of diffusers with an effective diffuser length of 2 x 500 mm

**EKR 15:** 1 set of diffusers with an effective diffuser length of 2 x 750 mm

**NB:** Fittings are not normally supplied

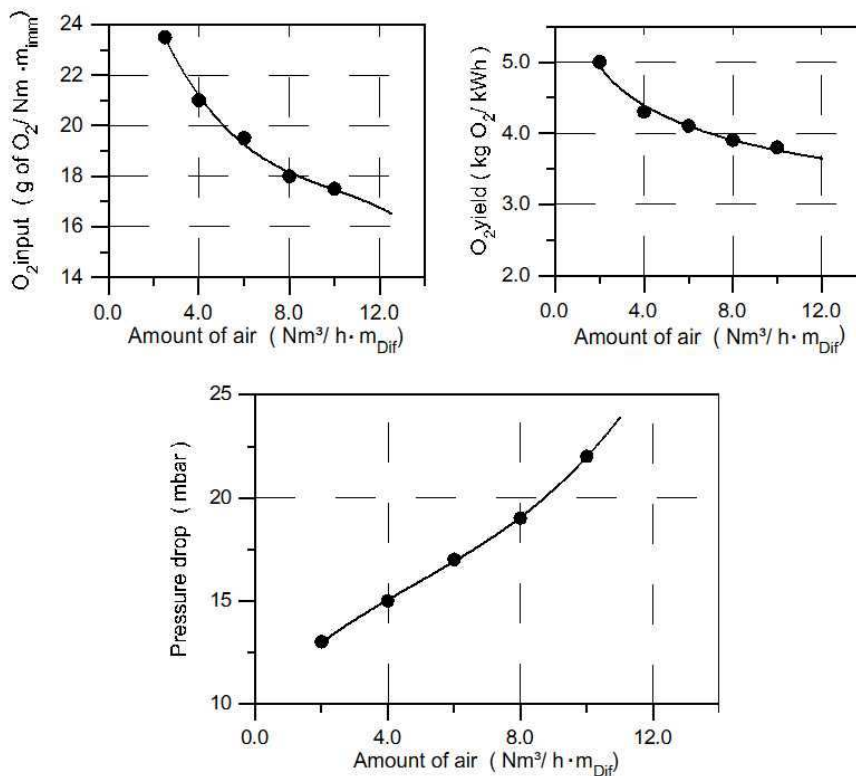




## Ceramic Tube Diffusers

### Performance data

Measurements were taken under standard conditions according German ATV M209 (clean water, water depth = 4,0 m, average density of aerators 1,1 meter length of diffuser per m2).



### Recommended air passage

Standard: 6 - 8 Nm<sup>3</sup>/hr. mDf

Max: 12 Nm<sup>3</sup>/hr . mDf (for continuously running, for a few minutes up to 18 Nm<sup>3</sup>/ hr. mDf)

Mm: 2 Nm<sup>3</sup>/hr. mDf

