

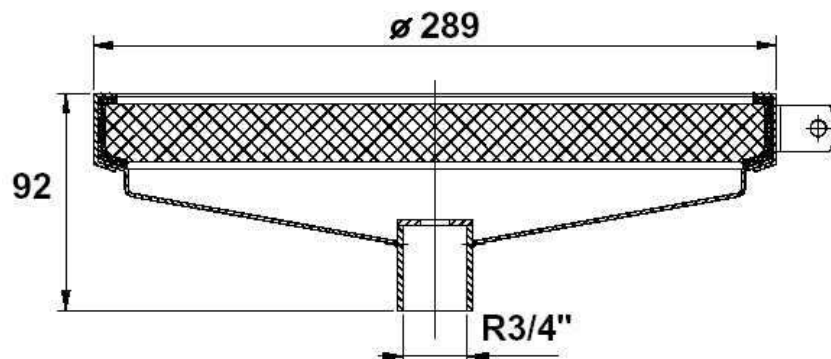


## Ceramic Disc Diffusers

Fairey 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 disc diffusers are screwed directly onto the air distribution pipes. Air passes into the stainless steel plenum chamber from where it is evenly distributed across the porous ceramic diffuser. This results in a uniform distribution of air bubbles above the disc.



### Available Types:

- 304ss Housing with EPDM seal
- 316ss Housing with EPDM seal
- 316ss Housing with PTFE seal

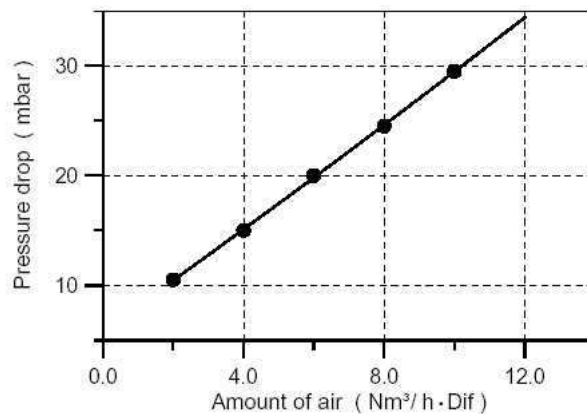
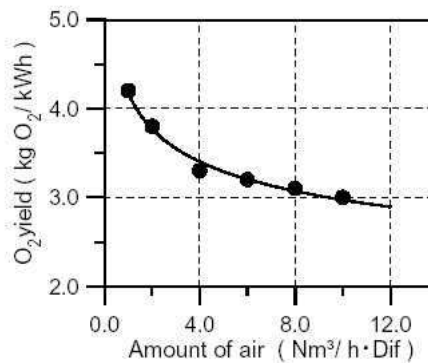
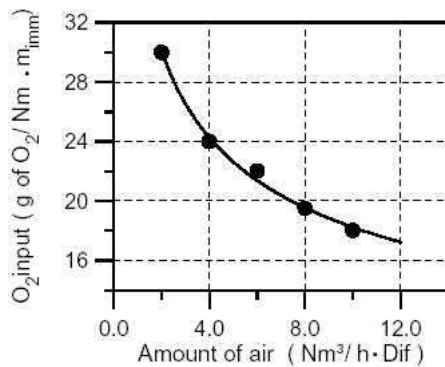




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### Performance data

Measurements were taken under standard conditions according German ATV M209 (clean water, water depth = 4,0 m, average density of aerators 1,1 diffusers per m<sup>2</sup>).



### Recommended air passage

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

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

**Mm: 2 Nm<sup>3</sup>/hr. Df**

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