

DOME DIFFUSERS KTL[™]

Mass-Transfer Equipment



EFFICIENT

OZONE

LOW-COST

MASS-TRANSFER

Applications

- Drinking water treatment
- Waste treatment
- Process related applications



← Main characteristics

- High mass-transfer efficiency
- Even bubble formation
- Long service life

Following production it is necessary to introduce the ozone to the process medium.

One of the more popular methods is by means of porous diffusers mounted in a contact chamber.

MAIN FEATURES

- → Mass-transfer rate in excess of 90%
- → Homogeneous bubble formation
- → Highly resistant ceramic material
- → Extreme stability over long service periods
- → Easy installation
- → Maintenance-free
- → Widely accepted technology

OZONE TECHNOLOGY: Dome Diffusers KTL[™]

It is important that the ozone is introduced to the process in the most efficient way. One of the more popular methods is to install dome type diffusers at the bottom of a contact tank and to bubble the ozone containing gas through the water volume in the tank.

The application, medium flow rate and ozone dose rate are critical factors which will determine the size and number of

dome diffusers required and will also influence the geometry of the contact tank. As an example, drinking water applications require a relatively low ozone dose, short contact time and one ozonation chamber with diffusers whereas waste treatment plants require a much higher ozone dose, longer contact times and a multiple of ozonation chambers.

HOW IT WORKS

After leaving the generator the ozone containing feed gas is routed to the process as quickly as possible. When porous diffusers are used to introduce the ozone to the process, these are typically located at the bottom of the ozonation chamber in a contact tank with a hydraulic head of five to six metre. The diffuser elements are designed that that a cloud of homogeneous small-sized bubbles are produced creating a large bubble/water contact area to ensure a maximum masstransfer rate.



TECHNICAL DATA

Diffuser Type 120 KTL







KTL™ ModelGas Flow RateMaterialsNm³/h120 KTL0.2 to 2.0ANSI 316/ceramic/PTFE

0.85 to 4.25

ANSI 316/ceramic/PTFE

H²



DIMENSIONS

180 KTL

KTL™	Diameter	Height
Model	mm	mm
120 KTL	120	~70
180 KTL	180	~90

Suitable for welding on round or square manifold pipes at the bottom of the contact tank



Contacts

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