

PRESS RELEASE 02/2009

Berlin, January 30th, 2009

Vortex reactors WR for highly intensive flow-through sonication

Bandelin has taken a step towards future-oriented processing technology with its new development of vortex reactor blocs.

Ultrasonic vortex reactors are used to achieve a high process yield using highly intensive flow-through sonication. Possible applications suffices from the treatment of water and sewage, the treatment of circulation water in fish farming which is infested with parasites, the treatment of industrial liquids, as well as typical industrial tasks such as producing of suspensions, emulsifying, degassing, deagglomeration of particles and acceleration of chemical reactions in the areas of chemistry, pharmaceuticals and biotechnology. Highly-intensive ultrasonic treatments make it possible to conserve natural resources and minimise negative effects on the environment.

Due to the double-walled construction of the reactor, a narrow reaction gap with a cavitation-intensive ultrasonic near field is created.

The medium to be sonicated is lead through the reaction opening and then "vortexed", in order to obtain a completely homogeneous sonication.

Single or multi-frequency models (TwinSonic) as well as modular serial or parallel operation offer a wide range of application.

Vortex reactors are equipped with the innovative Victaulic couplings for quick and simple installation as standard. Other connecting variants are offered optionally.

HF generators LG with a top ultrasonic output of up to 9,000 W operate the reactors. And external control is also possible using SPS or the PC software WINSONIC LG.

Patents to the vortex reactors WR have been applied for.



Vortex reactor WR