

Ультразвуковой процессор UIP8000

Технические характеристики

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The UIP10000 and UIP16000 are the by far most powerful ultrasonic processor world-wide providing a continuous power of 10 and 16 kilowatts at an efficiency of more than 80%.

The development of such powerful systems stems from the demand for the ultrasonic treatment of liquids in larger scale. Whether emulsifying oil in water, disintegrating sewage sludge, deagglomerating nanoparticles or reducing germs, the needed ultrasound power usually raises proportionally to the liquid, which is to be treated in a certain time.

It is more cost-effective to compose a large ultrasonic system for example a system of 80kW with a flow rate of ten cubic metres per hour of 5 ultrasonic processors with a power of 16kW each than with 40 ultrasonic processors with a power of 2kW each.

The robust design of the transducer allows the use under heavy duty industrial conditions. The processor can

also be delivered as explosion proof design. The generator as the transducer and the flow cell are housed in two connected compact stainless steel cabinets. This makes the UIP8000 as well as the UIP16000 a self contained, robust and easy to install equipment. The standard footprint of such a 8 or 16kW unit is just 600mm x 1200mm. If required, the generator cabinet can be located remotely in a max. distance of 10m from the transducer with the flow cell.

The system includes an independent cooling system that completely avoids the contact between aggressive air or dust in the production site and the electric components of the ultrasonic processor. The operation of the ultrasonic processor can be controlled and monitored by means of power meters and status displays as well as remotely via electric interfaces.



ultrasonic flow systems unlimited potential

The ultrasonic effect in liquids is based mainly on the phenomenon cavitation. A huge amount of small vacuum bubbles are created, that implode immediately after they arose, which act upon the surrounding droplets or particles by means of shock waves and liquid jets. This kind of ultrasonic treatment can be realized in batch or in flow. In the end it is important, that a homogeneous sonication of the liquid is guaranteed. The very high power of the ultrasonic processors allows for amplitudes of 100 micron and therewith a high energy density even for large volume streams. The ultrasound can be transmitted in closed vessels by means of an oscillating-free flange, which is fixed at the sonotrode, and also under higher temperatures or pressures. Flow systems have been proven to be the right technique for the sonication of liquid volumes in large-scale. Such a flow system consists of modular components i.e. of the necessary number of ultrasonic processors,

tube-shaped flow cells and cascade-shaped sonotrodes with oscillating-free flanges. The cabinets for the generator and the sound protection casings for the flow cells are supplied customized according to the respective operating conditions.

Please ask for more information.



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