

ROTOCAV

An innovative cavitator designed by E-PIC S.r.l.

Maximize your profitability with an advanced cavitational technology

Smaller.....Safer Cleaner.....

Benefits of the ROTOCAV include:

modular design,
outstanding performance
in micro-mixing,
fully continuous operation,
compact system with multiple
process steps in one equipment
(mixing, disintegration, homogenization),
versatility, the system can process
liquids with different viscosities, in the presence
of gases and/or solids,
short processing time,
small mixing hold-up,
easy scale-up

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ROTOCAV HYDRODYNAMIC CAVITATOR



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Working principle and processing

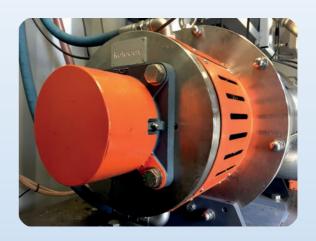
ROTOCAV intensifies traditional processes, optimizing mass transfer and diffusivity phenomena. It speeds up reactions thanks to the continuous generation of microjets that promote the generation of many and confined points of contact between the reagents.

ROTOCAV can be easily integrated in existing processing plants, allowing their intensification with few modifications.

Liquids, mixtures and suspensions passing through the cavitation chamber are subjected to several physical phenomena:

- Intensive micro-volume mixing
- Pressure waves and cavitation
- High shear stresses
- Turbulence





Standard models - Characteristics

Motor: standard or ATEX

IE3, IC416, IP55

380/400V, 50 Hz, or other voltage/frequence on request

4 kW - 75 kW

Cavitation chamber: rotor and stator in special alloy

with specific composition to improve erosion, corrosion and

abrasive resistance

Seals: high quality and top reliability

seals, mechanical, double, with

dedicated locking vessels

Base frame: for the safe installation of the

machine

Materials: stainless steels, duplex steels,

or other materials on request

Flow rate: up to $40 \text{ m}^3/\text{h}$ Op. pressure: 1/8 barOp. temperature: $+10/+110 ^{\circ}\text{C}$

