

E-PIC S.r.l.

## ROTOCAV

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

Maximize your profitability  
with an advanced  
cavitation 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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## Working principle and processing

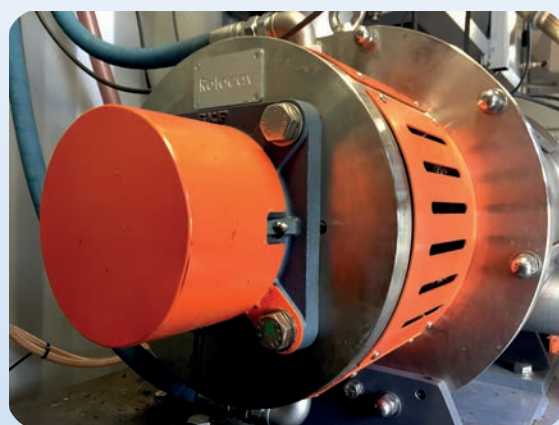
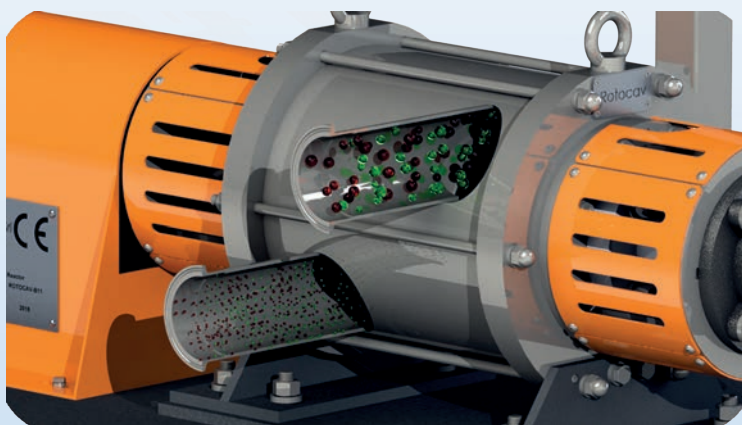
ROTOCAV intensifies traditional processes, optimizing mass transfer and diffusivity phenomena.

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/frequency 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

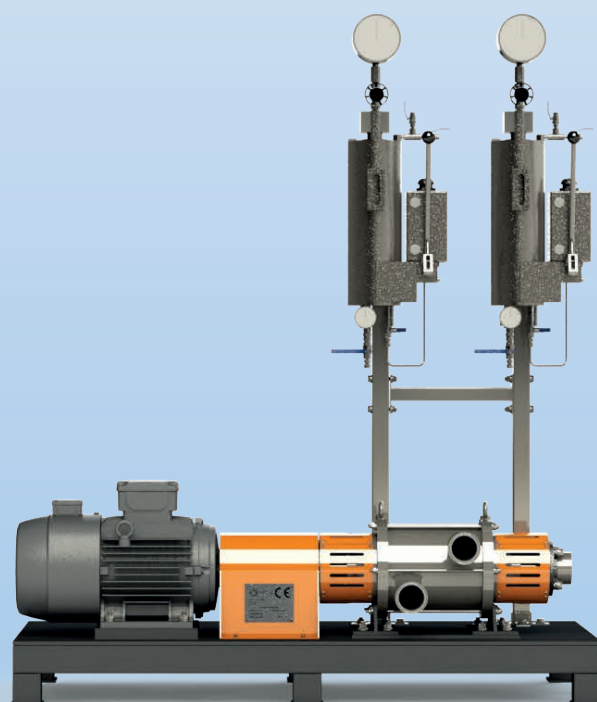
**Base frame:** for the safe installation of the  
machine

**Materials:** stainless steels, duplex steels,  
or other materials on request

**Flow rate:** up to 40 m<sup>3</sup>/h

**Op. pressure:** 1 / 8 bar

**Op. temperature:** +10 / +110 °C



Explosion proof manufacturing on request, according to ATEX guidelines 2014/34/UE (zone 1 or 2)