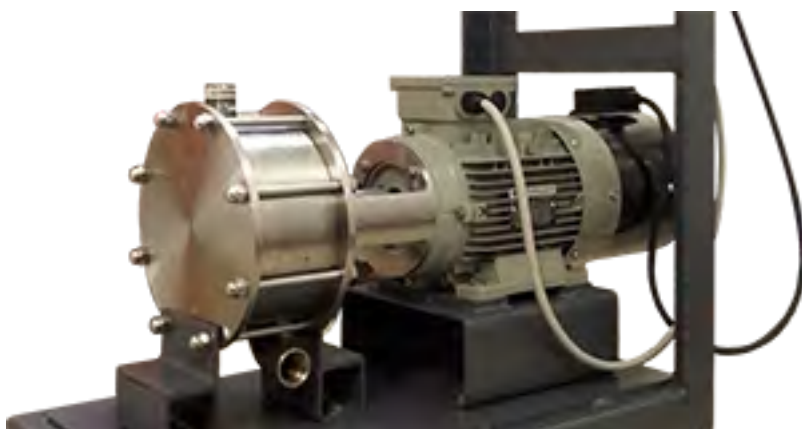


Rotocav



Technology

Innovative, Easy And Safe Technology For The
Industrial Process



EDITION 2016



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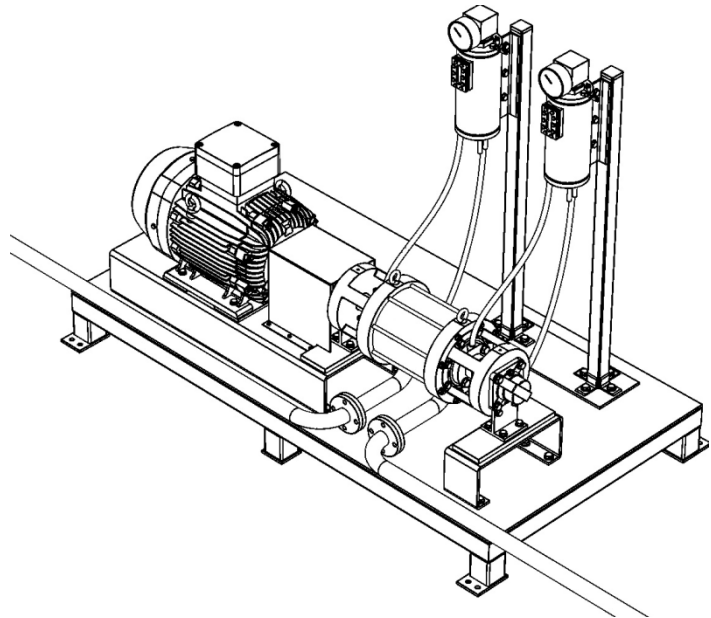
INSTALLATIONS

Continuous: inline, SINGLE PASSAGE

The inline ROTOCAV installation is suggested when the desired treatment is effective with a single passage through the cavitation chamber.

In some cases it is suggested to install the unit in series to improve the performance of the treatment.

In other cases it is instead recommended to pre-mix the processed fluid in an upstream stirred tank.

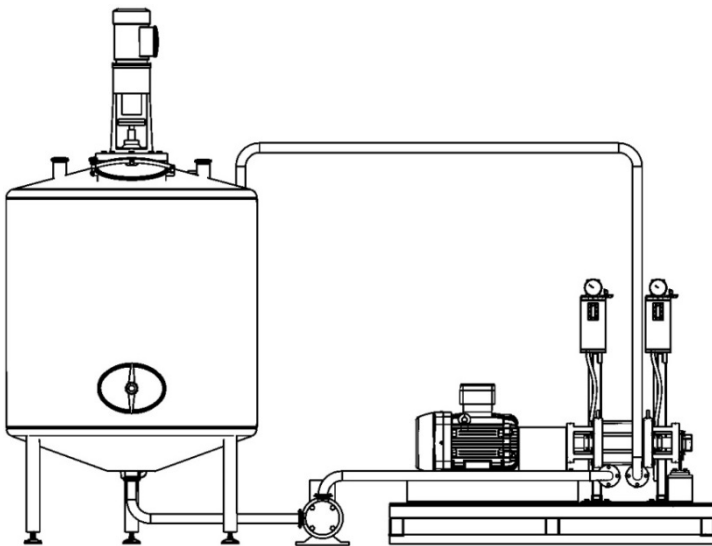


Batch: recycle, MULTIPLES PASSAGES

The ROTOCAV is installed in a loop with a stirred tank when multiples passages into the cavitation chamber, are needed to obtain the desired process operations.

For example: high degree of homogenization, emulsions, or extraction of bio-components from natural matrices.

When the ROTOCAV works in batch mode, the recirculation pump is designed to ensure a statistically specific number of passages of all the processed fluid into the cavitation chamber.



CHARACTERISTICS

- Compact system (small reaction and mixing hold-up), multiple process steps in one equipment: mixing, disintegration, homogenization;
- Excellent performances;
- Modular design validated through complete dynamic CFD simulations as well as with extensive design of experiments;
- The system can process liquids with different viscosities, in the presence of gases and/or solids
- Short processing time in comparison with traditional processes;
- Easy scale-up;
- High quality and top reliability seals, double cartridge systems with dedicated pressure locking vessels;
- Self-draining design;
- Closed system, no emission of hazardous gases or dusts.

TECHNICAL DATA

Installation: base frame

Materials: (in contact with processed fluid) steel, AISI 316 – or other materials on request

Motor: standard or ATEX – protection IP55 – voltage: 380/400V, 50 Hz, three-phase – or other voltages on request

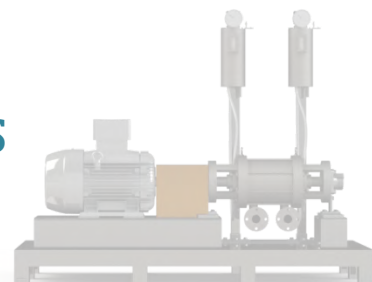
Seal: double mechanical seal cartridge with barrier fluid

Operative Temp.: +10 / +110 °C

Operative Pressure: +1 / +10 bar

MODELS AND PRODUCTION CAPACITIES

Available models are presented in the herein below table.



For all models it is possible to request the ATEX version

It is also available a 3 kW laboratory unit

MODEL	POWER (kW)	RPM	TANK CAPACITY (L) ¹	VOLUME FLOW (L/h)
B3	3	3000	100	800
B11	11	3000	250-500	4000
B22	22	3000	500-1000	8000
B37	37	1500	1000-2000	16000
B55	55	1500	2000-3500	25000
B75	75	1500	3500-5000	40000

It is possible to perform proof of principles on a pilot unit available at the University of Turin.

¹ If the ROTOCAV is installed in batch mode, in a loop with a stirred tank