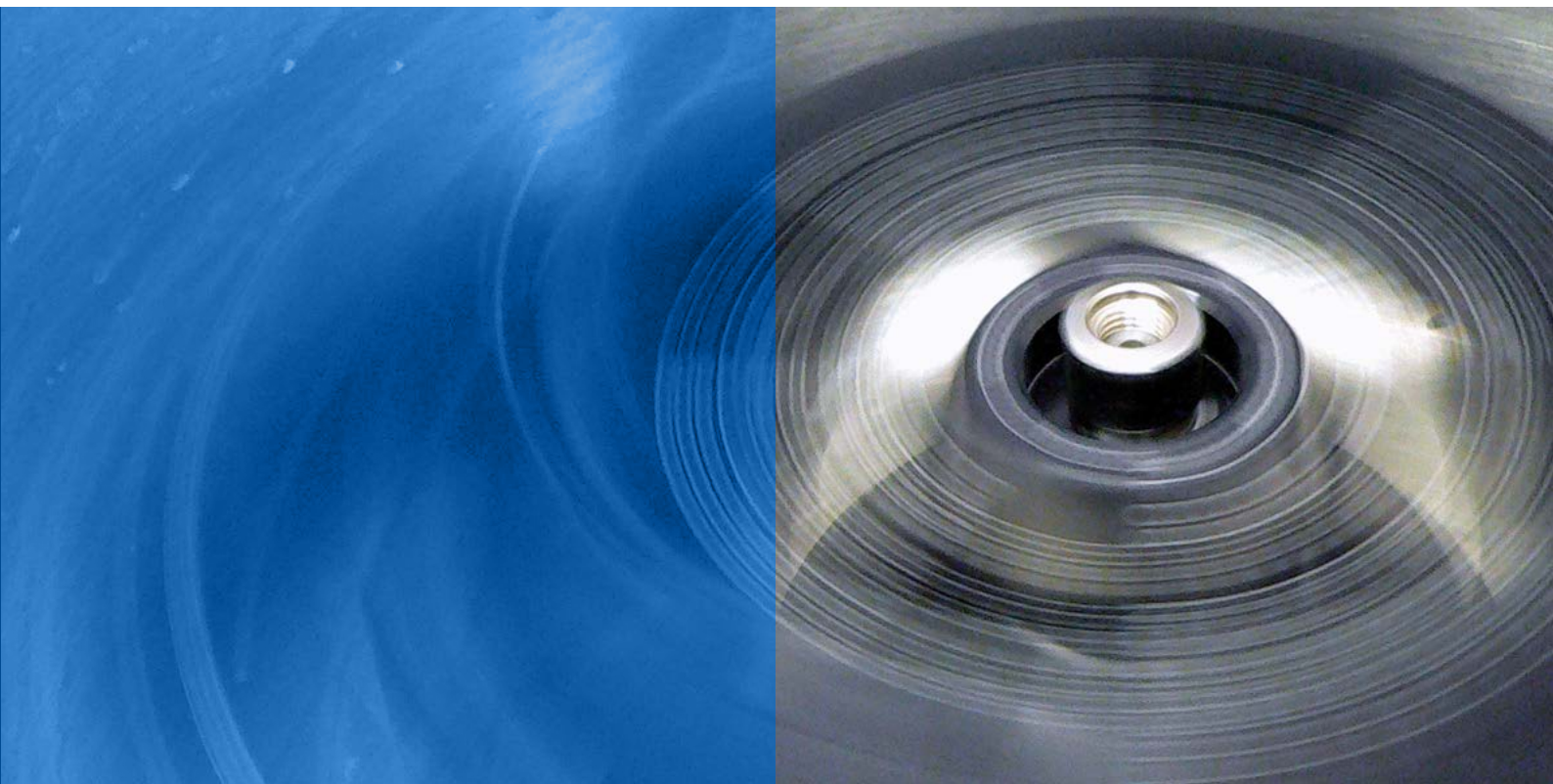


**CENTRIFUGAL SEPARATORS**  
FOR INDUSTRIAL APPLICATIONS



## The centrifugal force effective, reliable and innovative

Over the years Peralisi has developed a great experience and a strong know-how in the most important centrifuge markets. Therefore we developed a broad selection for our customers, granting them the most advanced technologies with the highest quality level.

We provide solutions to any technological solid-liquid and solid-liquid-liquid separation problem, through centrifugal separators which are placed on a large variety of application fields with a wide range of flow rates.



### Global presence

Peralisi is strategically located in Italy and worldwide, together with an extensive network of agents, technical service centres and spare parts warehouses. We support our customers with specific competences for each market, country and application.



# Application fields



## Environmental

We have been investing for decades in designing and developing solutions for treatment and recovery of industrial process water. Peralisi technology, with its broad selection of centrifugal separators, allows to recover industrial and process fluids by removing solid and liquid contaminants with significant environmental and economic advantages.



## Food and Beverage

We provide separation solutions for any type of food or beverage. Peralisi centrifugal separators are used for fruit or vegetable juice purification, wine processing, food treatment, edible additives extraction with the highest safety and hygiene standards compliant with the strictest regulations.



## Mineral Fuels and Lubricants

We offer technological solutions for fuels cleaning and treatment, for lube oils purification, for the conditioning and recovery of mineral oils, industrial or environmental slop oils, bottom tank residues and bilge water.



## Recycling

We take part in the treatment and recovery of process water and industrial fluids, in polymer recycling and in drilling mud conditioning.



## Vegetable Oils

We are present in the production plants of vegetable oils and their derivatives, including the recovery processes for any type of exhaust and waste vegetable oil.



## Chemical and Pharmaceutical

We provide solutions for several chemical industries in the purification of intermediate or final products and even in the recovery of waste products. Our centrifugal separators are largely installed in pharmaceutical and bio-technologies industry, in production processes of minerals, metals and non-conventional fuels (e.g. biodiesel, ethanol).



## Animal by-products

In fish or meat processing industries and rendering plants, we supply centrifugal separators able to obtain a high quality product by removing water, contaminants and solid impurities.

# Models

## Series S



### MANUAL DISCHARGE

The solid retention **S series** separators are available in the following configurations:

- a** Stand-alone basic version
- b** With carbon or stainless steel base
- c** Turn-key solution

Dimensions*	L mm / in	W mm / in	H mm / in
<b>S 200</b>	1000 / 40	700 / 28	1200 / 48
<b>S 250</b>	1200 / 48	800 / 32	1400 / 55
<b>S 300</b>	1500 / 59	800 / 32	1700 / 67

\* Dimensions are indicative and they may change depending on the configuration

## Series FPC



### AUTOMATIC DISCHARGE

The automatic discharge **FPC series** separators are available in the following configurations:

- a** Stand-alone basic version
- b** With carbon or stainless steel base
- c** Turn-key solution

Dimensions*	L mm / in	W mm / in	H mm / in
<b>FPC 6</b>	1300 / 51	900 / 36	1400 / 55
<b>FPC 12</b>	1600 / 63	1200 / 48	1400 / 55
<b>FPC 18</b>	1700 / 67	1300 / 51	1700 / 67
<b>FPC 24</b>	1800 / 71	1400 / 55	1900 / 75

\* Dimensions are indicative and they may change depending on the configuration

## Series SU



### CONTINUOUS DISCHARGE

The continuous discharge **SU series** separators are available in the following configurations:

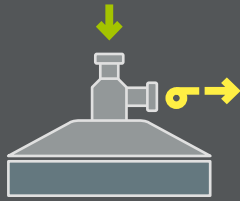
- a** Stand-alone basic version
- b** With carbon or stainless steel base
- c** Turn-key solution

Dimensions*	L mm / in	W mm / in	H mm / in
<b>SU 400</b>	1700 / 67	1000 / 40	1700 / 67

\* Dimensions are indicative and they may change depending on the configuration

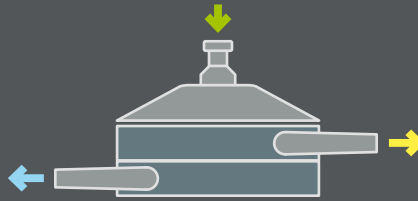
# Features

## Liquid inlet / outlet configurations



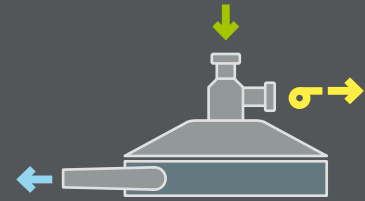
### ONE LIQUID PHASE

- Inlet product
- Liquid phase ⚙ under pressure



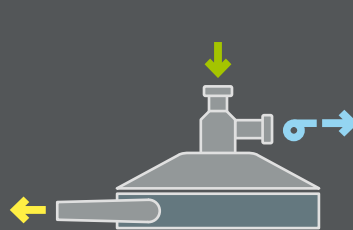
### TWO LIQUID PHASES

- Inlet product
- Heavy phase — free exit
- Light phase — free exit



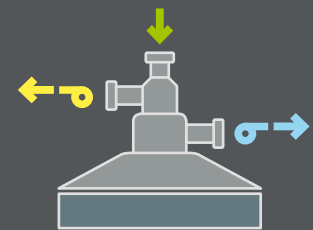
### TWO LIQUID PHASES

- Inlet product
- Heavy phase — free exit
- Light phase ⚙ under pressure



### TWO LIQUID PHASES

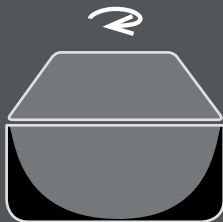
- Inlet product
- Heavy phase ⚙ under pressure
- Light phase — free exit



### TWO LIQUID PHASES

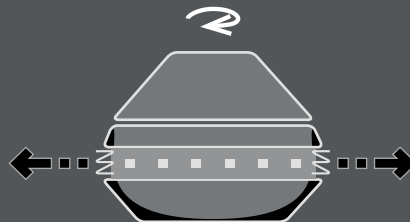
- Inlet product
- Heavy phase ⚙ under pressure
- Light phase ⚙ under pressure

## Solids discharge configurations



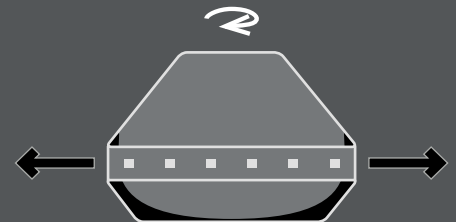
### MANUAL

The discharge of solids is manually implemented by stopping and opening the bowl.



### AUTOMATIC

The discharge of solids is automatically managed by intermittent opening of the time-delayed bowl bottom.



### CONTINUOUS

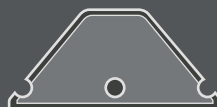
The solids are continuously discharged through the nozzles located on the external part of the bowl.

## Discs



### CLARIFIER

Removes solid particles from a liquid phase.



### PURIFIER (separator)

Separates a heavy liquid from a main light liquid. Generates a purified light liquid with the simultaneous separation of suspended solids.



### CONCENTRATOR (skimmer)

Separates a light liquid from a main heavy liquid. Generates a clean heavy liquid with the simultaneous separation of suspended solids.

# Features

## Materials

Rotating assembly	Lower bowl	
	Upper bowl	High resistance stainless steel
	Discs	
	Nut	
	Column	Stainless steel or other alloys consistent with the product / application
Case	Upper cover liquid and solid discharge chambers	Stainless steel / Aluminium
	Bottom cover	Cast iron with stainless steel protection
Wear protection	Bowl, mobile part	
	Solid discharge slots	Mechanical details with high resistance materials with specific protections and anti-wear / corrosion treatments
	Solid discharge nozzles	
	High resistance gaskets	
Wet parts	All components	Specific materials tailored on each application requirements
Seal	Bowl, mobile part	High wear resistance and chemically consistent

## Lubrication

Automatic lubrication	Oil bath
	Forced circulation cooling system

## Transmission

Transmission	Belt / Gears
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# Solutions

## Configurations

Installation areas	Safe
	Hazardous: ATEX Zone 1 / ATEX Zone 2
Lay-out	Turn-key system
	Stainless or carbon steel skid, equipped with control panel and auxiliary units
	Separator on base (stainless or carbon steel)
	Stand alone separator with vibration absorbers and anchor device

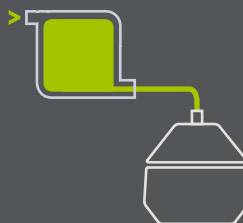
# Options

## Kits and Systems



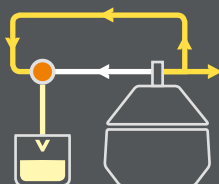
### Counter pressure valve

Controls the pressure of the liquid phase outlet and of the separation interphase.



### Gravity feeding system

Guarantees constant flow of the product to the separator.



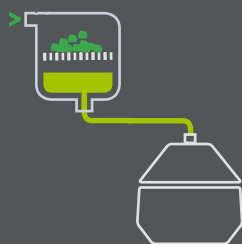
### Standardization kit

Adjusts the cream concentration in the outgoing milk stream.



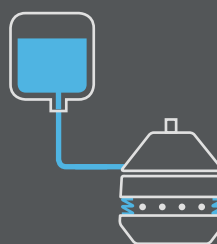
### Feeding pump

Ensures constant and automatically adjustable flow to the separator inlet.



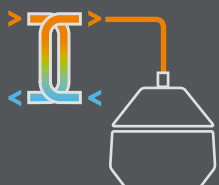
### Filtering unit

Ensures the large solids removal from inlet product, protecting downstream pieces of equipment.



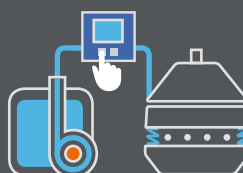
### Solid discharge manual control

Allows the manual activation of the solid discharge.



### Heating system

Regulates the temperature of inlet product.



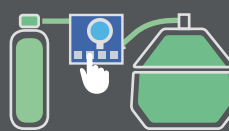
### Solid discharge automatic control kit

Allows the automatic opening of the bowl for the solid discharge.



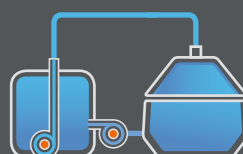
### Electric and control panel

Permits the monitoring and the regulation of power, process parameters and safety devices.



### Inertization system

Protects the separator through an inert gas barrier, avoiding potential explosive mixtures inside (ATEX).



### CIP washing system

Manages the washing and the automatic cleaning of the separation unit.



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