colynco
ITALIAN VACUUM FACTORY

OIL AND METAL SHAVINGS

INDUSTRIAL VACUUMS

Keep your CNC production efficient with specific vacuums for the lubrifiants and metal shavings.

Machine tools produces great quantities of metal shavings and scraps of various sizes and weight. The utilization of lubrications to cool down the tools mixed with metal dust, make this a dirty process and represent problem for the machine mechanisms. In addition, the tools accumulate metal sludges in the tank useful for the liquid collection that must be cleaned regularly in order to keep the production optimal.

OIL AND METAL SHAVINGS

LIQUID EJECTING SYSTEMS AVAILABLE

OILLINE

The OIL models are indispensable for any industry operating in the mechanical sector. Their main feature is that they can suck up dust, liquids, oils and swarfs and eject the liquid, without removing the container, with a reverse flow discharge system.

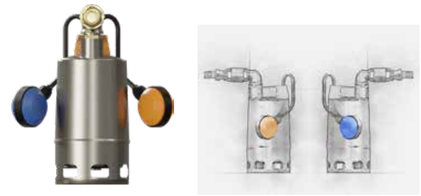
CHIP SEPARATOR BUCKET

PAG.4

SUBOILLINE

The SUBOIL models are indispensable for any company operating in the mechanical industry and which specifically needs to clean the tanks of machine tools. The configuration of these vacuum cleaners makes it possible to separate the solid part from the liquid part, which is immediately ejected by means of a submersible pump.

SUBMERSIBLE PUMP



PAG.12

OIL

1100 OIL

	1122 OIL	1130 OIL	1155 OIL
Type of waste to be vacuumed	Oil and shavings	Oil and shavings	Oil and shavings
Power and motorization	2,2 kW - Turbine - 230V	3 kW - Turbine - 400V	5,5 kW - Turbine - 400V
Type of filter	Cartridge	Cartridge	Cartridge
Collection system	Container 100l	Container 100l	Container 100l
Liquid emptying system	Flow reversal	Flow reversal	Flow reversal

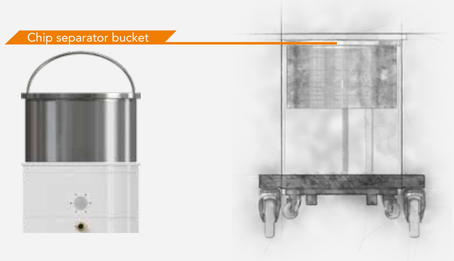
PT 155 OIL

	PTP 155 OIL	PTS 155 OIL
Type of waste to be vacuumed	Oil and shavings	Oil and shavings
Power and motorization	2,2 kW - Turbine	3 kW - Turbine
Type of filter	Cartridge	Cartridge
Collection system	Container 100l	Container 100l
Liquid emptying system	Flow reversal	Flow reversal

OIL LINE

Oil and shavings industrial vacuums

The OIL models are indispensable for any industry operating in the mechanical sector. Their main feature is that they can suck up dust, liquids, oils and swarfs and eject the liquid, without removing the container, with a reverse flow discharge system. The machine is equipped with a grating bucket useful for separating the solid part from the liquid part and an electric floater ensures that the suction is switched off when the maximum liquid level is reached.

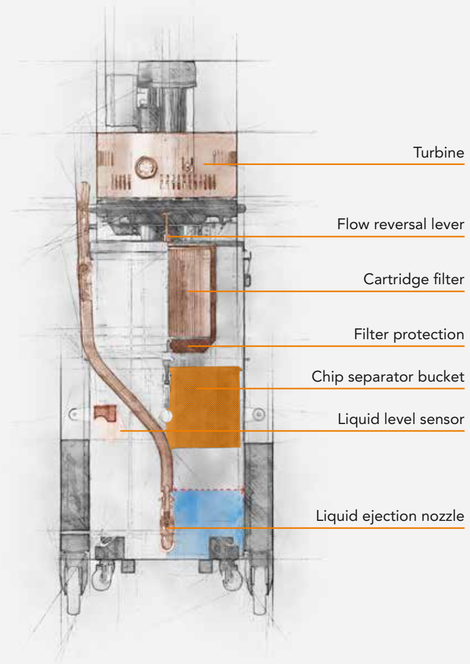


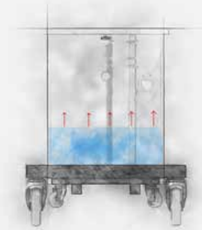
POLYURETHANE CLOSURE SEALS
Made in COYNCO®

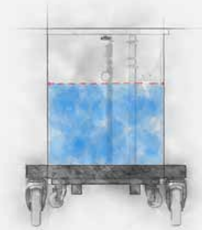
The **polyurethane** applied directly on the edge of the collection bin or on the suction head, guarantees durability over time thanks to its properties of maintaining the original shape even if subject to compression. Its special chemical composition also favors the resistance to oily or aggressive materials avoiding the incurrence of suction losses due to the perishability of the common rubber materials used.

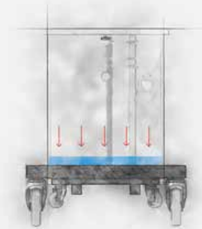
Flow reversal system

Emptying the suctioned liquids is easy, efficient and fast thanks to Coynco's Flow Reversal System, which reverses the airflow produced by the turbine in order to eject excess liquid in the container and to reuse it in time and cost benefiting.









1 The liquid residue, separated from the solid residue, is deposited on the bottom of the drum, rising in level during suction.

2 When the liquid accumulation limit is reached, the floater switches off the machine.

3 By operating the appropriate lever, the machine switches on again and the turbine reverses the flow from suction to pressure, allowing the liquid to be ejected and emptying the container.

The model 1100 OIL is a practical industrial vacuum, characterized by unique features in the sector of mechanical workshops and in the suction of oil and metal shavings as it is able to separate the liquid part from the solid part thanks to a stainless steel grid basket, carrying out a macro filtration of the materials. The models proposed for this type of application are equipped with an automatic liquid stop system, allowing the vacuum to turn off at the maximum liquid level reached.

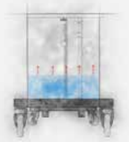
The emptying of the sucked liquids is simple, efficient and very fast thanks to the Coynco's reversal flow system , which uses the air produced by the turbine to eject the sucked liquids, overcoming the use of pumps or even the elementary and primitive gravity fall systems. This model has the peculiarity of being multipurpose as it also mounts a filter for dust, allowing its use for general cleaning of industrial environments without having to purchase a dedicated vacuum cleaner.

TECHNICAL FEATURES OIL LINE PRO

MODELS	1122 OIL	1130 OIL	1155 OIL
MOTORIZATION	Turbine	Turbine	Turbine
POWER	2,2 kW	3 kW	5,5 kW
VOLTAGE	230 V	400 V	400 V
FREQUENCY	50 Hz	50 Hz	50 Hz
AMPERAGE	16 A	6,7 A	10,4 A
AIR FLOW	320 m³/h	320 m³/h	520 m³/h
DEPRESSION	220 mBar	250 mBar	250 mBar
MAX DEPRESSION	300 mBar	320 mBar	320 mBar
INLET DIAMETER	Tangential Ø 60 mm	Tangential Ø 60 mm	Tangential Ø 60 mm
BODY DIAMETER	Ø 460 mm	Ø 460 mm	Ø 460 mm
DIMENSIONS	80x63x165 cm	80x63x165 cm	80x63x165 cm
WEIGHT	130 Kg	130 Kg	151 Kg
FILTER SYSTEM	**1122 OIL**	**1130 OIL**	**1155 OIL**
TYPE OF FILTER	Cartridge	Cartridge	Cartridge
PRIMARY FILTER - SURFACE	13.000 cm²	13.000 cm²	13.000 cm²
FILTER MEDIA	M Conductive	M Conductive	M Conductive
SECONDARY FILTER	NO	NO	NO
FILTER CLEANING	Semi automatic Pneumatic piston	Semi automatic Pneumatic piston	Semi automatic Pneumatic piston
COLLECTION SYSTEM	**1122 OIL**	**1130 OIL**	**1155 OIL**
CAPACITY	Container 100l	Container 100l	Container 100l
LIQUID STOP	Automatic shutdown	Automatic shutdown	Automatic shutdown
LIQUID EMPTYING	Flow reversal	Flow reversal	Flow reversal

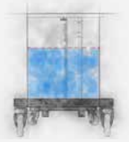
The added advantage is that it is not necessary to change the machine configuration from powder to liquid mode thanks to the installed filter protection that prevents the filter from getting wet.

Reversal mechanisms for liquid ejection.



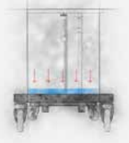
1 Suction

The liquid residue, separated from the solid residue, is deposited on the bottom of the drum, rising in level during suction.



2 Shutdown

When the accumulation limit is reached, the liquid comes into contact with the floater, switching off the machine.



3 Reversal

Acting on the lever, the turbine turns on, reversing the air flow and emptying the container.

Stainless steel available.

Tangential inlet with Clapet valve, without mechanisms subject to locking.

Electric floater sensor

Chip separator bucket

The PT 155 OIL model is motorised with a 5.5 kW three-phase side channel turbine in series, ideal for suctioning heavy materials with a high specific weight or parallel with greater airflow. This is an extremely professional and practical instrument and stands out from the rest by unique features in the suction of oils and swarfs as it is able to separate the liquid part from the solid part thanks to a stainless steel grid basket, carrying out a macro filtration of the materials.

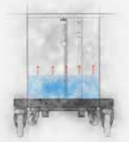
The models proposed for this type of application are equipped with an automatic liquid stop system, allowing the vacuum cleaner to be switched off at the maximum level of liquid reached. Emptying suctioned liquids is simple, efficient and very fast thanks to Coynco's reverse flow system, which uses the air produced by the turbine.

TECHNICAL FEATURES — OILLINE PRO

MODELS	PTP 155 OIL	PTS 155 OIL
MOTORIZATION	Turbine	Turbine
POWER	5,5 kW	5,5 kW
VOLTAGE	400 V	400 V
FREQUENCY	50 Hz	50 Hz
AMPERAGE	10,4 A	6,7 A
AIR FLOW	520 m³/h	320 m³/h
DEPRESSION	250 mBar	450 mBar
MAX DEPRESSION	320 mBar	530 mBar
INLET DIAMETER	Tangential Ø 60 mm	Tangential Ø 60 mm
BODY DIAMETER	Ø 460 mm	Ø 460 mm
DIMENSIONS	112x60h135	112x60h135
WEIGHT	151 Kg	151 Kg
FILTER SYSTEM	**PTP 155 OIL**	**PTS 155 OIL**
TYPE OF FILTER	Cartridge	Cartridge
PRIMARY FILTER - SURFACE	13.000 cm²	13.000 cm²
FILTER MEDIA	M Conductive	M Conductive
SECONDARY FILTER	NO	NO
FILTER CLEANING	Semi automatic Pneumatic piston	Semi automatic Pneumatic piston
COLLECTION SYSTEM	**PTP 155 OIL**	**PTS 155 OIL**
CAPACITY	Container 100l	Container 100l
LIQUID STOP	Automatic shutdown	Automatic shutdown
LIQUID EMPTYING	Flow reversal	Flow reversal

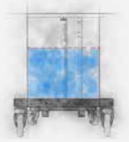
The added advantage is that you don't necessarily have to change the machine configuration from powder to liquid mode thanks to the installed filter protection that prevents the filter from getting wet.

Reversal mechanism for liquid ejection.



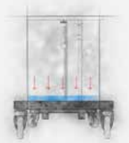
1 Suction

The liquid residue, separated from the solid residue, is deposited on the bottom of the drum, rising in level during suction.



2 Shutdown

When the accumulation limit is reached, the liquid comes into contact with the floater, switching off the machine.



3 Reversal

Acting on the lever, the turbine turns on, reversing the air flow and emptying the container.

Stainless steel available.

Tangential inlet with Clapet valve, without mechanisms subject to locking.

Electric floater sensor

Chip separator bucket

SUBOIL

WM 3100 SUBOIL

WM 3100 SUBOIL	
Type of waste to be vacuumed	Oil and shavings
Power and motorization	N°3 By-pass - 3300W
Type of filter	Nylon
Collection system	Container 100l
Liquid emptying system	Submersible pump

WT 3100 SUBOIL

WT 3100 SUBOIL	
Type of waste to be vacuumed	Oil and shavings
Power and motorization	Turbine
Type of filter	Nylon
Collection system	Container 100l
Liquid emptying system	Submersible pump

1100 SUBOIL

1122 SUBOIL	1130 SUBOIL
Oil and shavings	Oil and shavings
2,2 kW - Turbine	3 kW - Turbine
Cartridge	Cartridge
Container 100l	Container 100l
Submersible pump	Submersible pump

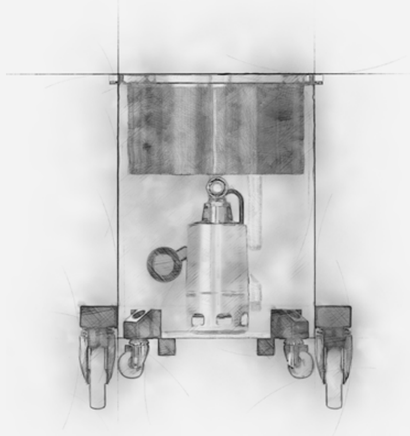
PT 155 SUBOIL

PTS 155 SUBOIL	
Type of waste to be vacuumed	Oil and shavings
Power and motorization	5,5 kW - Turbine
Type of filter	Cartridge
Collection system	Container 100l
Liquid emptying system	Submersible pump

SUBOILLINE

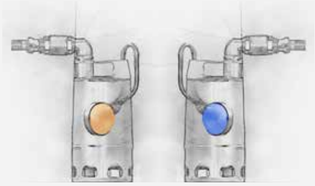
Oil and shavings industrial vacuums

The SUBOIL models are indispensable for any company operating in the mechanical industry and which specifically needs to clean the tanks of machine tools. The configuration of these vacuum cleaners makes it possible to separate the solid part from the liquid part, which is immediately ejected by means of a submersible pump.



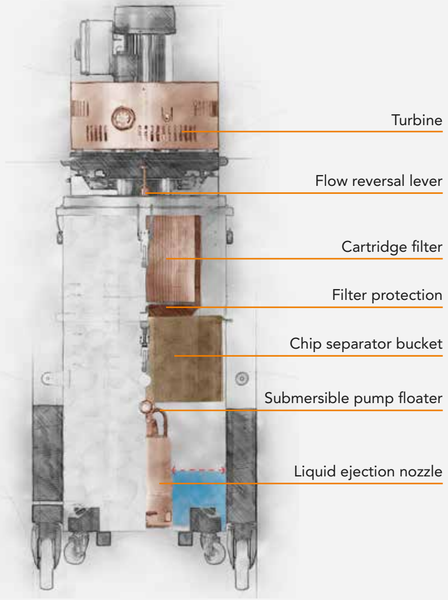
Chip separator bucket

Submersible pump



Submersible pump system

SUBOIL models are capable of working independently between suction and ejection of liquids without interrupting either phase. This is thanks to an immersion pump and a double floater switch. This configuration allows the suction of huge quantities of liquid with a fast and manageable equipment.



1 The liquid is sucked in, while the floater activates the pump. **The turbine continues to work.**

2 The liquid continues to accumulate slowly, until the water reaches the the turbine floater, shutting it down if necessary.

3 The pump ejects the excess liquid, releasing the turbine floater and restoring suction in complete autonomy.

The WM 3100 SUBOIL is a compact industrial vacuum of a robust construction, designed for suction of liquids and swarfs, available with by-pass motors, versatile and capable of sucking up large quantities of material.

The automatic and continuous liquid discharge system guarantees great efficiency; the presence of an electric floater allows automatic identification of the level of liquids in the drum and the automatic switch-off function in the event of excess liquid filling. To complete the standard equipment, a bucket for separating metal and liquid residues is available.

TECHNICAL FEATURES OILLINE

MODELS	WM 3100 SUBOIL
MOTORIZATION	n°3 By-pass
POWER	3300 W
VOLTAGE	230 V
FREQUENCY	50 Hz
AMPERAGE	14,4 A
AIR FLOW	510 m³/h
DEPRESSION	230 mBar
MAX DEPRESSION	230 mBar
INLET DIAMETER	Central Ø 70 mm
BODY DIAMETER	Ø 460 mm
DIMENSIONS	93x60x152 cm
WEIGHT	80 Kg
FILTER SYSTEM	**WM 3100 SUBOIL**
TYPE OF FILTER	Nylon
COLLECTION SYSTEM	**WM 3100 SUBOIL**
CAPACITY	Container 100l
LIQUID STOP	Automatic shutdown
LIQUID EMPTYING	Submersible pump

Fine weave nylon filter to further separate the liquid residue from any chip or solid.

Chip separator bucket

Submersible pump with double floater.

FLOATER FOR PUMP

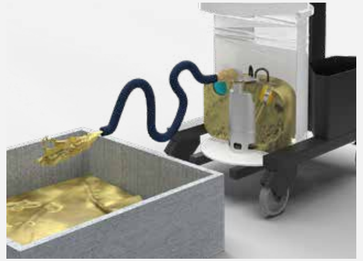
FLOATER FOR TURBINE

Stainless steel available.

Central inlet facilitates dropping of incoming liquids into collection container.

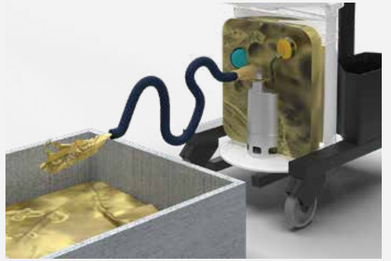
EJECTION OFF

SUCTION ON



EJECTION ON

SUCTION ON



EJECTION ON

SUCTION OFF

1 The liquid is sucked in, while the floater activates the pump. **The turbine continues to work.**

2 The liquid continues to accumulate slowly, until the water reaches the turbine floater, shutting it down if necessary.

3 The pump ejects the excess liquid, releasing the turbine floater and restoring suction in complete autonomy.

The WT 3100 SUBOIL is a compact industrial vacuum of a robust construction, designed for suction of liquids and swarfs, available with side channel turbine, versatile and capable of sucking up large amounts of material continuously.

The automatic and continuous liquid discharge system guarantees great efficiency; the presence of an electric floater allows automatic identification of the level of liquids in the drum and the automatic switch-off function in the event of excess liquid filling. To complete the standard equipment, a bucket for separating metal and liquid residues is available.

TECHNICAL FEATURES OIL LINE

MODELS	WT 3100 SUBOIL
MOTORIZATION	Turbine
POWER	3 kW
VOLTAGE	400 V
FREQUENCY	50 Hz
AMPERAGE	14,4 A
AIR FLOW	320 m³/h
DEPRESSION	250 mBar
MAX DEPRESSION	320 mBar
INLET DIAMETER	Central Ø 70 mm
BODY DIAMETER	Ø 460 mm
DIMENSIONS	80x63x170 cm
WEIGHT	90 Kg
FILTER SYSTEM	**WT 3100 SUBOIL**
TYPE OF FILTER	Nylon
COLLECTION SYSTEM	**WT 3100 SUBOIL**
CAPACITY	Container 100l
LIQUID STOP	Automatic shutdown
LIQUID EMPTYING	Submersible pump

Fine weave nylon filter to further separate the liquid residue from any chip or solid.

Chip separator bucket

Submersible pump with double floater.

FLOATER FOR PUMP

FLOATER FOR TURBINE

Stainless steel available.

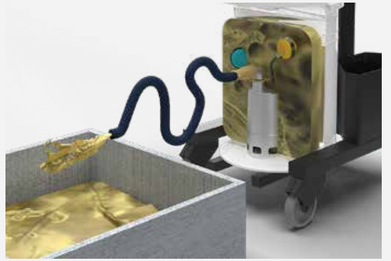
Central inlet facilitates dropping of incoming liquids into collection container.

EJECTION OFF

SUCTION ON

EJECTION ON

SUCTION ON



EJECTION ON

SUCTION OFF

1 The liquid is sucked in, while the floater activates the pump. **The turbine continues to work.**

2 The liquid continues to accumulate slowly, until the water reaches the turbine floater, shutting it down if necessary.

3 The pump ejects the excess liquid, releasing the turbine floater and restoring suction in complete autonomy.

The 1100 SUBOIL model is the ideal candidate and alternative for suctioning huge amounts of liquid with a compact industrial vacuums, especially when emptying tanks in machine shops. SUBOIL models are able to work autonomously, continuously and suctioning without limits, thanks to the equipment of a stainless steel liquid evacuation pump and a double floater switch.

The first has the safety function of shutting down the machine autonomously when the maximum liquid level is reached, the second allows automatic restarting when the container is emptied. The possible problem of the pump blocking due to muddy materials is overcome by the flow reversal that, by means of air, unblocks the obstructions in the liquid passage.

TECHNICAL FEATURES OILLINE

MODELS	1122 SUBOIL	1130 SUBOIL
MOTORIZATION	Turbine	Turbine
POWER	2,2 kW	3 kW
VOLTAGE	230 V	400 V
FREQUENCY	50 Hz	50 Hz
AMPERAGE	16 A	6,7 A
AIR FLOW	320 m³/h	320 m³/h
DEPRESSION	250 mBar	250 mBar
MAX DEPRESSION	320 mBar	320 mBar
INLET DIAMETER	Tangential Ø 60 mm	Tangential Ø 60 mm
BODY DIAMETER	Ø 460 mm	Ø 460 mm
DIMENSIONS	80x63x165 cm	80x63x165 cm
WEIGHT	130 Kg	130Kg
FILTER SYSTEM	**1122 SUBOIL**	**1130 SUBOIL**
TYPE OF FILTER	Cartridge	Cartridge
PRIMARY FILTER - SURFACE	13.000 cm²	13.000 cm²
FILTER MEDIA	M Conductive	M Conductive
SECONDARY FILTER	NO	NO
FILTER CLEANING	Semi automatic Pneumatic piston	Semi automatic Pneumatic piston
COLLECTION SYSTEM	**1122 SUBOIL**	**1130 SUBOIL**
CAPACITY	Container 100l	Container 100l
LIQUID STOP	Automatic shutdown	Automatic shutdown
LIQUID EMPTYING	Submersible pump	Submersible pump

The added advantage is that it is not necessary to change the machine configuration from powder to liquid mode thanks to the installed filter protection that prevents the filter from getting wet.

Chip separator bucket

Submersible pump with double floater.

FLOATER FOR PUMP

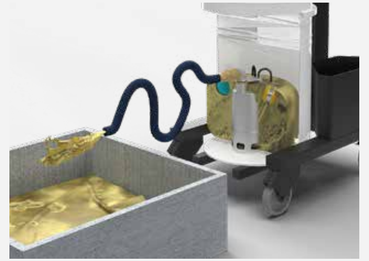
FLOATER FOR TURBINE

Stainless steel available.

Tangential inlet with Clapet valve, without mechanisms subject to locking.

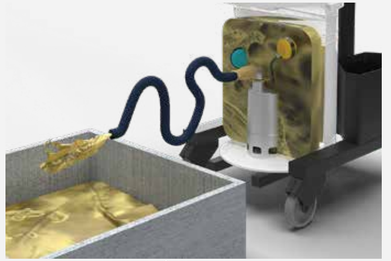
EJECTION OFF

SUCTION ON



EJECTION ON

SUCTION ON



EJECTION ON

SUCTION OFF

1 The liquid is sucked in, while the floater activates the pump. **The turbine continues to work.**

2 The liquid continues to accumulate slowly, until the water reaches the turbine floater, shutting it down if necessary.

3 The pump ejects the excess liquid, releasing the turbine floater and restoring suction in complete autonomy.

The PTS 155 SUBOIL model is motorised with a 5.5 kW three-phase side channel turbine in series, ideal for suctioning heavy materials with a high specific weight, an ideal candidate and alternative to suctioning huge quantities of liquid with a compact vacuum cleaner, especially when emptying tanks in mechanical workshops.

The suboil models are able to work autonomously, continuously and suctioning without limits, thanks to the equipment of a stainless steel liquid evacuation pump and a double floater switch. The first has the safety function of shutting down the machine autonomously when the maximum liquid level is reached, the second allows automatic restarting when the container is emptied.

TECHNICAL FEATURES OILLINE

MODELS	PTS 155 SUBOIL
MOTORIZATION	Turbine
POWER	5,5 kW
VOLTAGE	400 V
FREQUENCY	50 Hz
AMPERAGE	10,4 A
AIR FLOW	320 m³/h
DEPRESSION	530 mBar
MAX DEPRESSION	450 mBar
INLET DIAMETER	Tangential Ø 60 mm
BODY DIAMETER	Ø 460 mm
DIMENSIONS	112x60h135
WEIGHT	151 Kg
FILTER SYSTEM	**PTS 155 SUBOIL**
TYPE OF FILTER	Cartridge
PRIMARY FILTER - SURFACE	13.000 cm²
FILTER MEDIA	M Conductive
SECONDARY FILTER	NO
FILTER CLEANING	Semi automatic Pneumatic piston
COLLECTION SYSTEM	**PTS 155 SUBOIL**
CAPACITY	Container 100l
LIQUID STOP	Automatic shutdown
LIQUID EMPTYING	Submersible pump

The added advantage is that it is not necessary to change the machine configuration from powder to liquid mode thanks to the installed filter protection that prevents the filter from getting wet.

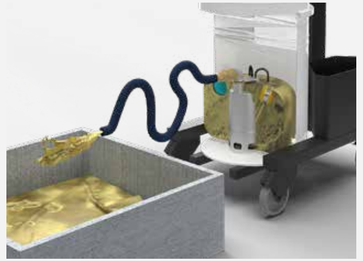
Chip separator bucket

Submersible pump with double floater.

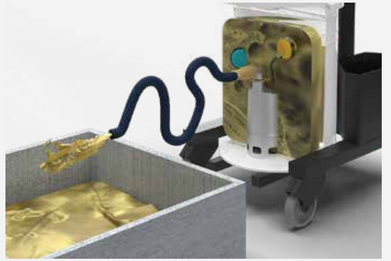
Stainless steel available.

Tangential inlet with Clapet valve, without mechanisms subject to locking.

EJECTION OFF SUCTION ON



EJECTION ON SUCTION ON



EJECTION ON SUCTION OFF

1 The liquid is sucked in, while the floater activates the pump. **The turbine continues to work.**

2 The liquid continues to accumulate slowly, until the water reaches the turbine floater, shutting it down if necessary.

3 The pump ejects the excess liquid, releasing the turbine floater and restoring suction in complete autonomy.

coynco
VACUUM FACTORY

www.coynco.com