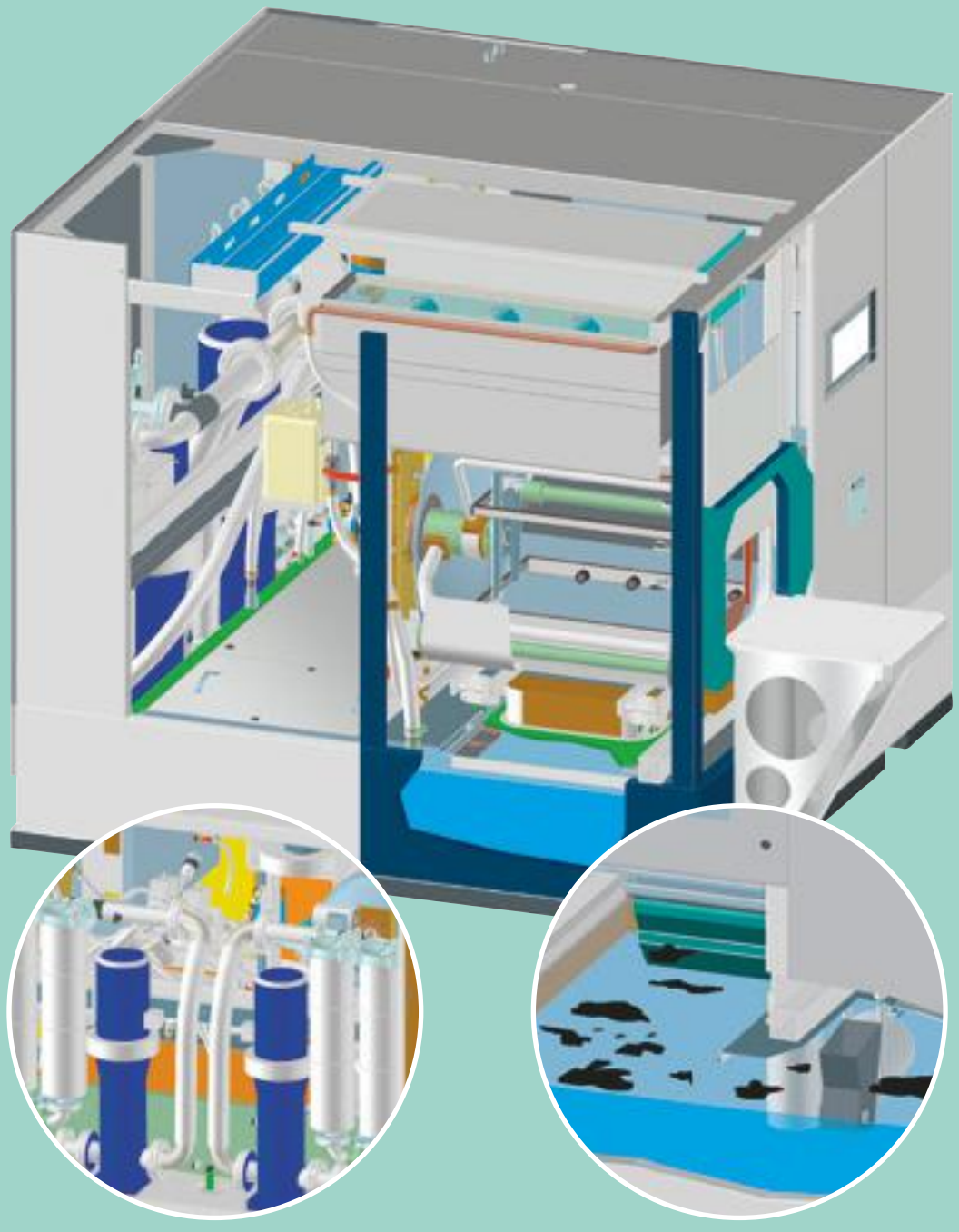
MAFAC

Parts Cleaning. Systems and Solutions.

MAFAC PALMA

Technical specifications



Benefits for the user:

- Patented rotating multi-side spray system with counter-rotating basket pickup system (can be switched off). With specifically arranged nozzles for reliable cleaning results.
- Two or three large-capacity tanks for long life of the process water.
- Cascade design of tanks for extended life of media.
- Reduced energy consumption thanks to insulated tanks.
- Separate heating of tanks.
- Removable swarf filter trays for collecting coarse dirt particles in the return flow from the cleaning/rinsing process.
- Coalescing oil separation system with integrated surface suction device in tank 1 and high-level monitoring of the oil collection tank.
- Floodable cleaning chamber (100 % of batch height).
- Steam extraction with mist collector, return of condensation and condensate.
- Vertical sliding door and loading table with drain valve for residual water as a versatile conveyor and load/unload platform. After the end of the cleaning process, automatic opening of the sliding door is possible.
- Easy-to-use MAFAC MAVIATIC touch panel.
- Ultrasonic cleaning system incl. parabolic reflector for optimum efficiency of the ultrasonic waves.
- Ultra-fine filtration on pressure side of the pump for removing small dirt particles before cleaning/rinsing.

Standard features:

- Innovative machine design for quick maintenance and easy servicing
- Front loading with automatically unlocking sliding door
- EURO standard baskets can be used (600 x 400 x 288 mm)
- Swarf filtration in return flow
- Bath heating system with analogue temperature control and cut-off
- Thermal insulation of tanks
- Steam extraction with condensation and mist separator
- Coalescing oil separator with high-level monitoring of the oil collection tank
- Media fill level control
- Water-contact components made of stainless steel / plastic
- Spray-flood cleaning with batch 100 % floodable

Options:

- Additional spray process with tank 3
- Working chamber size adjustable to max. 660 L x 480 W x 338 H (mm)
- Modem for remote maintenance of the control system
- Rotating hot air pulse blowing system
- Stationary hot air drying system
- Combined rotating hot air pulse blowing and hot air drying system
- Vacuum drying*
- Ultra-fine filtration on pressure side of pump
- Ultrasonic cleaning unit
- Viewing window with internal light
- Speed control for basket rotation including oscillation
- Program package for time control and media treatment
- Enhanced pump system for tank 1
- Bund tray acc. to German Water Resources Act
- Draining pump
- Dosing of chemicals
- DI unit
- Loading trolley
- Stationary roller conveyor, all castors with ball bearings
- Automatic transfer system
- User-friendly MAFAC MAVIATIC touch panel, 12 inch, with graphic visualization of the process
- Speed control with nozzle rotation
- Frequency-controlled pump pressure
- Rinse water treatment module
- Targeted cleaning and drying
- Heat exchange module MAFAC HEAT.X
- Larger versions available on request

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Spraying pressure pump standard version			Return filtration		Option: Pre-run filtration	
Flow volume	Pressure	Output	Grade	Surface area	Grade	Surface area
Cleaning process tank 1:						
335 l/min.	4.5 bar	4.0 kW	150 µm	0.56 m²	100 µm	1x 0.48 m²
Rinsing process tank 2:						
300 l/min.	3.5 bar	3.0 kW	150 µm	0.56 m²	50 µm	1x 0.48 m²
Option final rinsing process tank 3:						
300 l/min.	2.5 bar	1.85 kW			25 µm	1x 0.24 m²

Option: Spraying pressure pump non-performance version			Return filtration		Option: Pre-run filtration	
Flow volume	Pressure	Output	Grade	Surface area	Grade	Surface area
Cleaning process tank 1:						
370 l/min.	7.5 bar	7.5 kW	150 µm	0.56 m²	100 µm	1x 0.48 m²
Cleaning process tank 1 (alternative):						
550 l/min.	7.5 bar	11.0 kW	150 µm	0.56 m²	100 µm	2x 0.48 m²

Option: Quick-flood pump			Return filtration		Option: Pre-run filtration	
Flow volume	Pressure	Output	Grade	Surface area	Grade	Surface area
Cleaning process tank 1/2 via flood tube:						
850 l/min.	4.0 bar	11.0 kW	150 µm	0.56 m²	100 µm	2x 0.48 m²
Cleaning process tank 1/2 via spray tube:						
400 l/min.	6.5 bar	11.0 kW	150 µm	0.56 m²	100 µm	2x 0.48 m²

	Contents	Heating time	Temperature	Heating capacity
Tank 1, cleaning (including oil separator):	735 litres	approx. 2.5 h	[75 °C]	15.0 kW
Tank 2, rinsing:	590 litres	approx. 2.5 h	[75 °C]	15.0 kW
Option: tank 3, final rinsing:	500 litres	approx. 2.0 h	[75 °C]	10.0 kW

Connections:	Electrical	V PH: Hz ; kVA	400 ; 3 ; 50 ; 65
	Compressed air	inch; bar	Rp ¾ ; 5 – 8
	Fresh water	inch; bar	Rp ¾ ; 0.5 – 10
	Waste water	inch	Rp 1½
	Exhaust air	mm	DN 120
Extraction/condensation:	Mean volumetric flow rate		600 m³/h

Ultrasonic cleaning unit	Frequency	25 kHz	Output	2 x 1,500
		25 kHz		2 x 2,000 W
		40 kHz		2 x 1,000 W

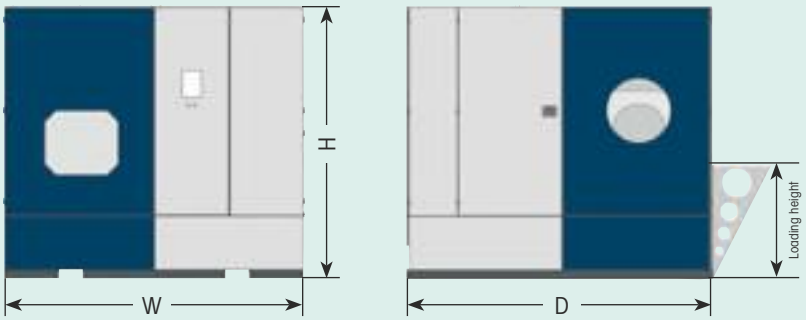
Drying systems:		Flow volume	Pressure	Temperature
	Pulse blowing system	approx. 3,100 l/min.	6.0 bar	45 °C
	Hot-blowing system	250 m³/h	0.015 bar	max 90 °C
	Combined pulse/hot blowing system	180 m³/h	0.015 bar	max. 100 °C
	Vacuum drying system	300 m³/h	20 mbar	

Dimensions:		Depth (mm)	Width (mm)	Height (mm)
	Usable space max.	660	480	338
	External dimensions (D x W x H)	2300	2250	2050
	Loading height			860

Weight:	Batch		max. 100 kg	Option	max.250 kg
	Basic machine	without liquid	2100 kg		
		with liquid	3425 kg		

Machine colour:	Attention: changed colours since 2018/01/01: light grey RAL 7035 / light green RAL 6027	Light grey	~~Sapphire blue~~	~~Charcoal grey~~
		RAL 7035	~~RAL 5003~~	~~RAL 7016~~

Dimensions:



* The height of the cleaning machine increases by 600 mm.