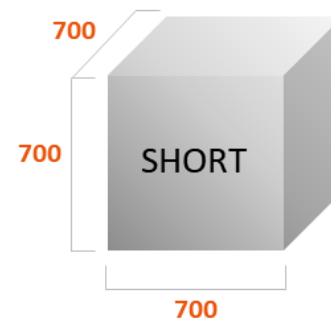




Datasheet

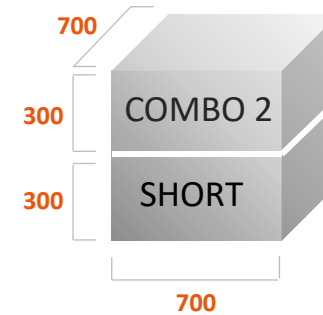
COMBO 1 Short *with oscillation*

Usable space of basket:
700 × 700 × 700 mm
(W × D × H)



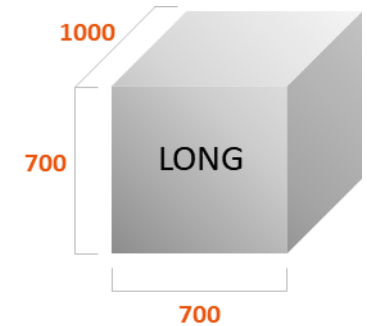
COMBO 2 Short *with oscillation*

Usable space of basket:
700 × 700 × 2×300 mm
(W × D × H)



COMBO 1 Long *no oscillation*

Usable space of basket:
700 × 1000 × 700 mm
(W × D × H)



HyperCLEAN III

Wash + Rinse (Tap/DI Water) + Rinse (DI water) + Drying

PROCESS DATA	
Machine dimensions (W × L × H)	1,600 × 2,500 × 2,200 mm
Weight (without liquid, accessories)	1,500 kg
Machine noisiness	L _{Aeq} <70 dB
Power supply voltage	3/N/PE AC 400/230 V 50 Hz 3/N/PE AC 400/230 V 60 Hz
Power input	36 kW
Average power consumption per cycle using predefined program "PCBA cleaning"	
Wash: 22:00; Temperature 60 °C	
1 st Rinse: 8:42; Temperature 40 °	7.2 kWh
2 nd Rinse: 7:30; Temperature 40 °	
Drying: 20:00; Temperature 110 °C	
Total cycle time: 58:12	
Water consumption per cycle with partial rinse water exchange (Chemical Stop)	approx. 20 L
Water consumption per cycle with total rinse water exchange (Cascade)	approx. 100 L
Maximum authorized load COMBO Short	50 kg per basket (incl. basket and clamping)
Maximum authorized load COMBO Long	100 kg per basket (incl. basket and clamping)

ADJUSTABLE PARAMETERS	
Wash, Rinse and Drying time	Not limited
Cleaning medium temperature	up to 60 °C *
Rinse water temperature	up to 60 °C *
Drying temperature	up to 110 °C *
Number of recipes (programs)	Not limited

LIQUID CONSUMPTION PER CYCLE	
Wash	75 ml
1 st Rinse (w/o Chemical Stop)	185 ml
2 nd Rinse	650 ml

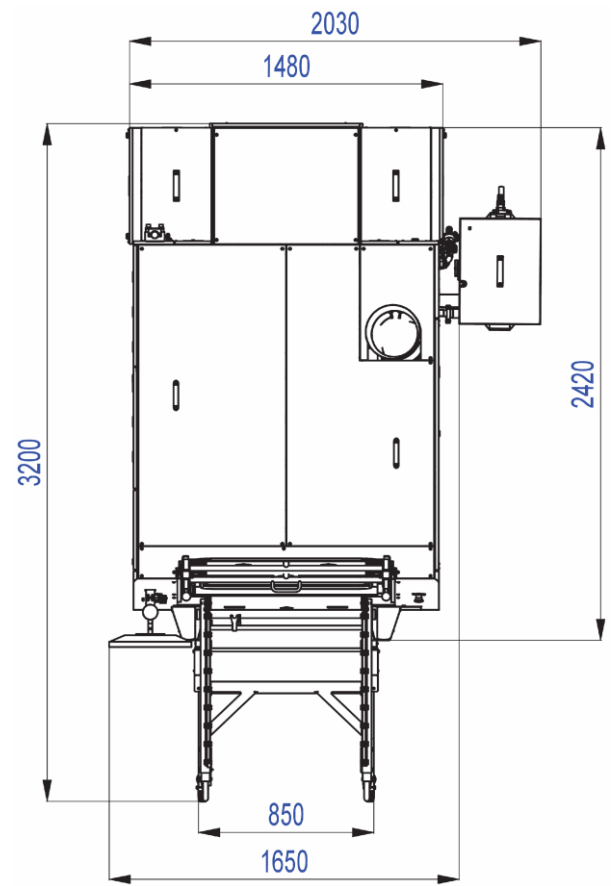
TECHNOLOGICAL PARAMETERS	
Volume of the storage tanks	114 L
COMBO 1 Short (50 Hz) pressure on nozzles	
Wash	2.4–3.4 bar
1 st Rinse	2.4–3.4 bar / 1.6–2.6 bar (without / with chemical filtration)
2 nd Rinse	1.6–2.6 bar (with chemical filtration)
COMBO 1 Long (50 Hz) pressure on nozzles	
Wash	1.8–2.8 bar
1 st Rinse	1.8–2.8 bar / 1.2–2.2 bar (without / with chemical filtration)
2 nd Rinse	1.2–2.2 bar (with chemical filtration)
COMBO 2 Short (50 Hz) pressure on nozzles	
Wash	2.4–3.4 bar
1 st Rinse	2.4–3.4 bar / 1.6–2.6 bar (without / with chemical filtration)
2 nd Rinse	1.6–2.6 bar (with chemical filtration)

Note: The approximate values of pressure are mentioned. The real values can be slightly different depending on the tolerances of used components. These differences have no effect for cleaning process.

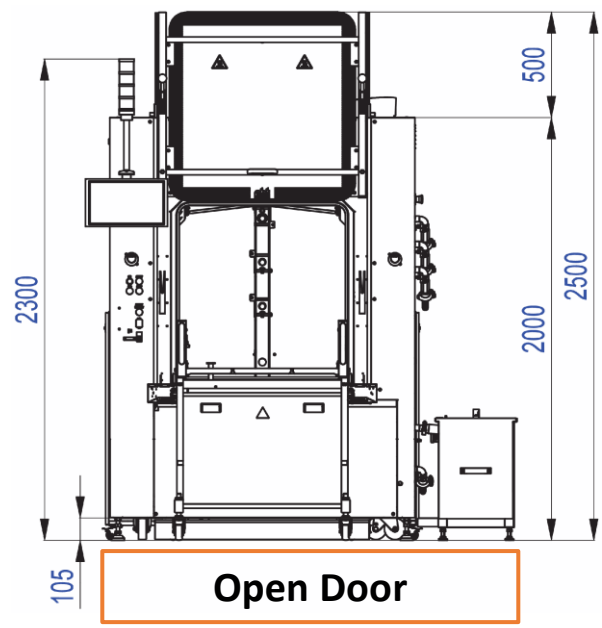
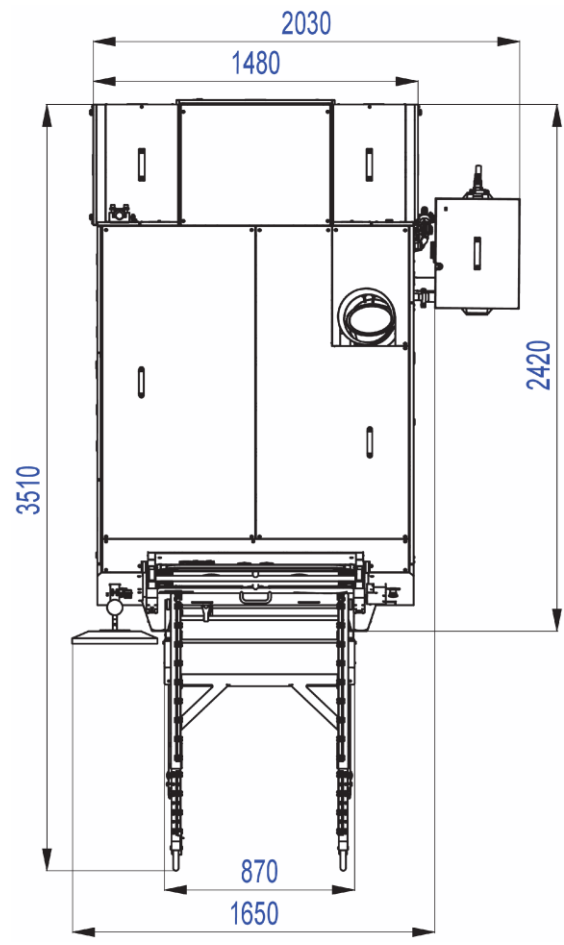
CONNECTION	
Mains electricity	Voltage: 3/N/PE AC 400/230 V 50 Hz 3/N/PE AC 400/230 V 60 Hz
	Protection: 63 A circuit breaker with “B” tripping characteristic
	Connection: H07RN-F 5Gx16 CGSG (5-wires, cross-section 16 mm ² , 63 A); max. 10 meters
Isolation transformer (Needed only for operations with power supply other than 400/230 V)	Type: TN-S (L1-L2-L3-N-PE outputs)
	Power: 36 kW
	Voltage: 400/230 V Frequency: 50/60 Hz Short-circuit protection: as per transformer manufacturer specifications
Compressed air	Pressure: 0.5–0.8 MPa Class of air quality: 3.4.3 (according to ISO 8573-1) Connection: SMC hose ø8 mm (outer diameter) Air consumption: 600 L/hour (machines with oscillation mechanism)
	Pressure: 1–5 bar
	Flowrate: max. 30 L/min
Water inlet	Connection: 1” hose
Wash tank discharge	Connection: 1” hose + control valve
Rinse tank discharge	Connection: 1” hose + control valve
Air exhaust	Capacity: 1 300 m ³ /h
	Under-pressure: 500 Pa (exhaust flap closed), 370 Pa (exhaust flap in operating position 45°)
	Connection: hose ø225 mm (outer dimension)

REQUIRED SPACE AND MAINTENANCE AREA	
From the front min. 1,400 mm	Space for machine operation and maintenance (access to tanks with liquids)
From the right min. 700 mm	Access to door for maintenance
From the left min. 1,000 mm	Access area into switchboard (in accordance with IEC 60364-1:2005), main switch
From the rear min. 600 mm	Space for manipulation with filtration carts, machine maintenance (filter cartridges replacement, etc.)
From the above min. 700 mm	Space for opening the door – ceiling height 2,500 mm

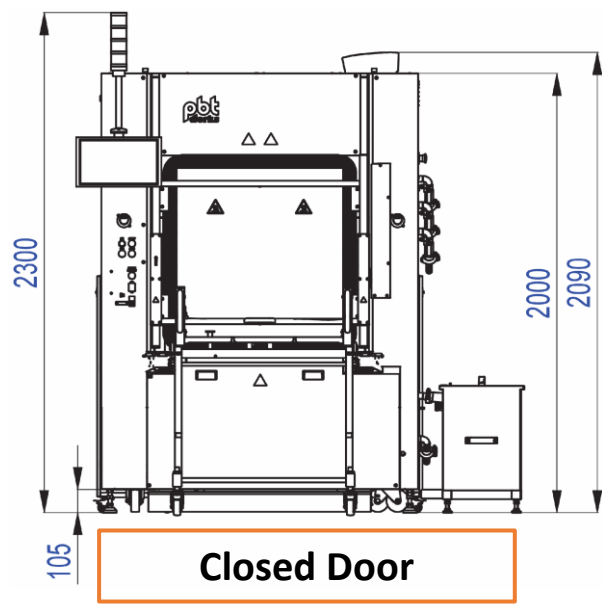
HyperCLEAN III Short



HyperCLEAN III Long



Open Door



Closed Door

