

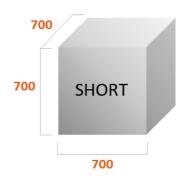


Datasheet

COMBO 1 Short

with oscillation

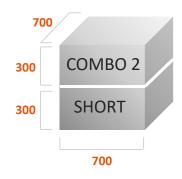
Usable space of basket: $700 \times 700 \times 700 \text{ mm}$ $(W \times D \times H)$



COMBO 2 Short

with oscillation

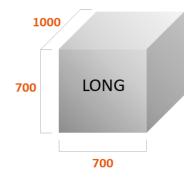
Usable space of basket: $700 \times 700 \times 2 \times 300 \text{ mm}$ $(W \times D \times H)$



COMBO 1 Long

no oscillation

Usable space of basket: $700 \times 1000 \times 700 \text{ mm}$ (W × D × H)





HyperCLEAN II

Wash + Rinse (Tap/DI Water) + Drying

PROCESS DATA	
Machine dimensions (W × L × H)	1,600 × 2,500 × 2,200 mm
Weight (without liquid, accessories)	1,200 kg
Machine noise level	L _{Aeq} <70 dB
Power supply	3/N/PE AC 400/230 V 50 Hz
rowei suppiy	3/N/PE AC 400/230 V 60 Hz
Input power	32 kW
Average power consumption per cycle Using predefined "PCBA cleaning" program Wash: 22 minutes; Temperature 60 °C 1st Rinse: 8 minutes; Temperature 40 ° Drying: 20 minutes; Temperature 110 °C Total cycle time: 50 minutes	6.5 kWh
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)

d
C *
C *
°C *
d

^{*} Minimal operating temperature depends on operating environment and other factors.

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

TECHNOLOGICAL PARAMETERS	
Volume of the storage tanks	114 L
COMBO 1 Short (60 Hz) pressure on nozzles	
Wash	3.1–4.1 bar
1 st Rinse	3.1–4.1 bar
COMBO 1 Long (50 Hz) pressure on nozzles	
Wash	1.8–2.8 bar
1 st Rinse	1.8–2.8 bar

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.

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HyperCLEAN II

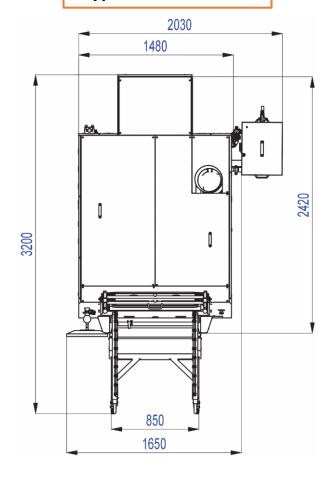
Wash + Rinse (Tap/DI Water) + Drying

CONNECTION	
CONNECTION	Voltage: 3/N/PE AC 400/230 V 50 Hz
	, ,
	Voltage: 3/N/PE AC 400/230 V 60 Hz
Mains electricity	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
	Type: TN-S (L1-L2-L3-N-PE outputs)
	Power: 32 kW
Isolation transformer (Needed only for operations with power supply other	Voltage: 400/230 V
than 400/230 V)	Frequency: 50/60 Hz
,	Short-circuit protection: as per transformer
	manufacturer specifications
	Pressure: 0.5–0.8 MPa
	Class of air quality: 3.4.3 (according to ISO 8573-1)
Compressed air	Connection: SMC hose Ø8 mm (outer diameter)
	Air consumption: 600 L/hour (machines with oscillatio mechanism)
Water inlet	Pressure: 1–5 bar
	Flowrate: max. 30 L/min
	Connection: 1" hose
Wash tank discharge	Connection: 1" hose + control valve
Rinse tank discharge	Connection: 1" hose + control valve
	Capacity: 1 300 m ³ /h
Air exhaust	Under-pressure: 500 Pa (exhaust flap closed), 370 Pa
All exilidust	(exhaust flap in operating position 45°)
	Connection: hose ø225 mm (outer dimension)

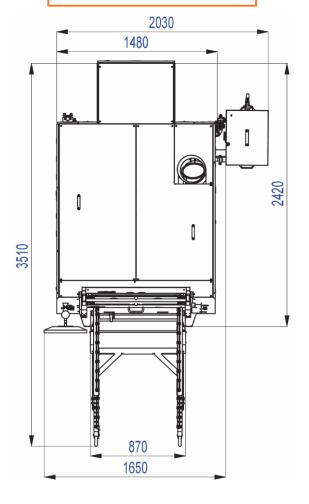
REQUIRED SPACE AND MAINTENANCE AREA	
From the front min. 1,400 mm	Space for machine operation and maintenance (access to tanks with liquids)
From the right min. 700 mm	Access to door for maintenance
From the left min. 1,000 mm	Access area into switchboard (in accordance with IEC 60364-1:2005), main switch
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

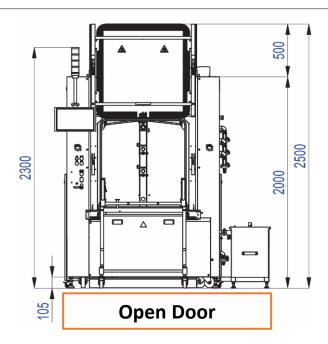


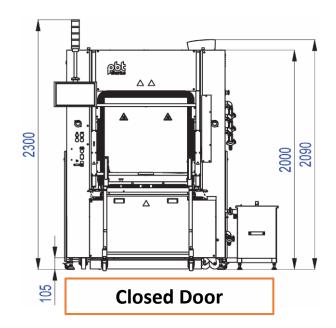
HyperCLEAN II Short



HyperCLEAN II Long









HYPERCLEAN DIMENSIONS – REQUIRED SPACE

SERVICE / MAINTENANCE

