



Ultrasonic washing machines ECO

IBERKLEEN



IBERKLEEN ECO models are industrial ultrasonic washers designed to offer high performance in cleaning mechanical parts, moulds, automotive components and general industry.

It works by means of ultrasonic cavitation, which removes grease, oil, carbon deposits, oxides and encrusted dirt, even in hard-to-reach areas.

Constructed entirely from **2.0 mm thick SUS304 stainless steel**, they offer outstanding resistance to acids, alkalis and cleaning agents, ensuring a long service life even under intensive working conditions. The tank is protected with thermal and acoustic insulation, reducing both heat loss and noise levels in the working environment.

The ultrasonic technology incorporates **German-made CeramTec piezoelectric chips**, renowned for their reliability and consistent power, mounted in easily replaceable transducer modules.

The control system incorporates **new-generation Siemens electronic boards with IGBT modules that are highly resistant to pressure and temperature**, ensuring stable and long-lasting performance.

Main advantages of the ECO range:

- ◆ Easy adjustment of time and temperature for each wash cycle.
- ◆ Linearly adjustable ultrasonic power depending on the type of part.
- ◆ Frequency of 28 kHz.
- ◆ Rapid degassing function to optimise the cavitation effect.
- ◆ Auto-adjustment of frequency with Sweep technology for greater stability.
- ◆ High-power heating with long-lasting heating elements.
- ◆ Tilted tank for easier maintenance.
- ◆ Water filling valve and side drain for oil separation.
- ◆ Stainless steel basket included to protect parts and tank.
- ◆ Wheels with brakes for easy mobility and secure positioning of the machine.



MAIN SWITCH

The main switch, located at the rear, allows the power to be cut off even when the machine is switched on.

ELECTROMAGNETIC VALVE FOR FILLING

The water inlet solenoid valve allows for both automatic filling and lateral sweeping of surface water to remove oils and contaminants from the top of the tank.

OVERFLOW VALVE

The overflow valve must be opened when performing lateral sweeping to allow the upper water in the tank, contaminated with oil and other products, to drain out.

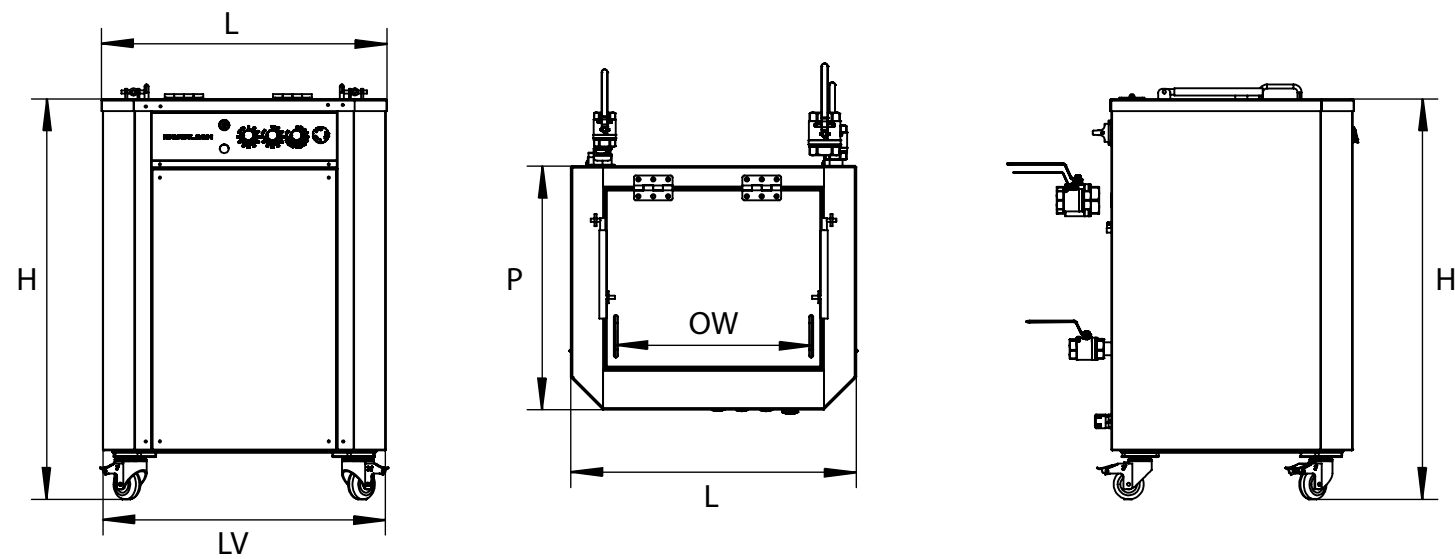
DISCHARGE VALVE

Allows quick and easy emptying of the wash tank by gravity, further facilitated by the tank base sloping towards the drain valve.

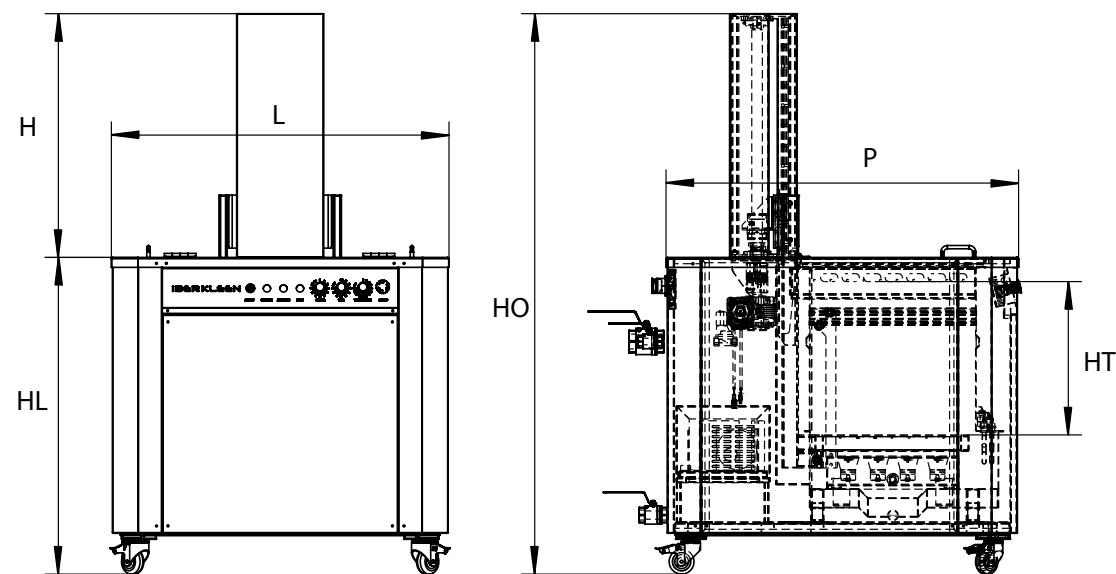
TRANSPORT WHEELS

The wheels allow for easy positioning for both work and unloading, if necessary.

ECO 60 - ECO 135



ECO 180 - ECO 250



MEASURES	ECO 60	ECO 135	ECO 180	ECO 250
L	710 mm	912 mm	1.040 mm	1.240 mm
LV	702 mm	904 mm	-	-
P	606 mm	938 mm	1.036 mm	1.086 mm
H	996 mm	862 mm	723 mm	723 mm
HL	-	-	563 mm	563 mm
HO	-	-	1.354 mm	1.354 mm
HT	-	-	432 mm	432 mm

ECO 60 - ECO 135



ECO 180 - ECO 250



TECHNICAL DATA/ MODEL	ECO 60	ECO 135	ECO 180	ECO 250
Internal dimensions	500 x 350 x 350 mm	700 x 480 x 400 mm	800 x 500 x 450 mm	1.000 x 550 x 450 mm
Useful dimensions	445 x 305 x 350 mm	650 x 435 x 400 mm	750 x 465 x 450 mm	950 x 500 x 450 mm
Tank capacity	60 L	135 L	180 L	250 L
Power supply	400V - 3PH + N+ T - 50 Hz			
Heating power	3 kW	5 kW	6 kW	8 kW
Ultrasonic power	1,2 kW	2,4 kW	2,8 kW	3,6 kW
Thermostat	90°C	90°C	90°C	90°C
Effective height tank	350 mm	400 mm	450 mm	450 mm
Ultrasound position	lower	lower	lower	lower



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