

# Elmasolvex® VA

## Watch / small parts cleaning machine

### Elma Order Nos

Elmasolvex VA (230V)	103 8651
Elmasolvex VA (115V)	105 2330
Elmasolvex VA (100V)	105 2331
Basket set complete Ø 80mm	105 5836
Basket set complete Ø 64mm	105 2351
Activated carbon unit (set)	105 3376
Movement holder Var. 1	104 6733



The Elmasolvex® VA is a completely automatic cleaning unit for cleaning mechanical precision parts. These are mainly small parts of wristwatches (gear wheels, balance wheels, springs or case) as can be found in the watch industry.

Elmasolvex® VA has its own self-contained intrinsic Ex-protection due to the vacuum technology used and all the measures required by TÜV and the applicable technical regulations for explosion safety. This means that the explosion protection measures integrated in the machine already rule out any fire hazard in the primary zone, operation in compliance with the manual provided. The use of ultrasound is thus legally possible and permitted. The TÜV test performed confirms the requirements for the use of the prescribed CE mark.

The new standard for the use of flammable solvents in watch movement cleaning:

- Ex-certified solvent-based cleaning of watch movements (TÜV Rheinland)
- Protection against solvent vapours and odours using extraction or self-contained filter system
- Vacuum technology also reaches difficult-to-access places and removes gas bubbles from the movements
- Cleaning and rinsing using multi-frequency ultrasound in rotation or oscillation process
- Machine can be completely rotated, media containers and connections are very easily accessible
- Media containers are easy to replace and rinse out; integrated particle filter for increasing the service life of the cleaning and rinsing solutions
- Wide range of practical accessories; see accessories catalogue
- maximum cleanliness due to removal of interfering gas bubbles
- explosion safety due to the Ex-protection, measures integrated in the machine
- Ultrasonic / vacuum process for solvents in the rotation or oscillation process
- Solvent cleaning: ex-certified for flammable solvents with flashpoint  $\geq 12^\circ \text{C}$ , e.g. elma wf pro, 3 x elma suprol pro, drying

### Technical data

Machine ext. dimensions (mm)	Ø 600mm, H 610 mm	Effective ultrasound power (W)	50 can be regulated 30% to 100%
Weight (kg)	39	Cleaning media	Solvent
Cleaning basket diameter (mm)	80 or 64	Rotation speed range in cleaning / rinsing mode (rpm)	1 to 20
Exhaust air connection	DN 6mm (active)	Frequency rate oscillation / vibration mode (1/s)	1 - 14
Total maximum power consumption (W)	220	Deflection oscillation/vibration mode (°)	1 - 60
Number of programs	7 fixed, 13 freely definable	Spinning speed range freely adjustable up to max. (rpm)	1400
Switchable ultrasound frequencies (kHz)	40 / 80	Drying process	Vacuum, heater-supported