

# Elmasonic X-tra Line 1600 Flex 2

Modular ultrasonic cleaning & rinsing unit with oscillation device

### Elma Order Nos.

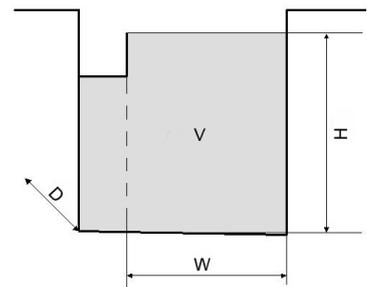
Elma X-tra 1600 MF2OSI	103 3349
Elma X-tra 1600 MF2OSHI	103 3351
Elma X-tra 1600 MF3OSI	103 3350
Elma X-tra 1600 MF3OSHI	103 3352
Stainless steel cover EDO 1600	101 1744
Stainless steel basket EKO 1600	102 2016
Further accessoires on request	



Modular cleaning line consisting of ultrasonic cleaning unit plus rinsing unit, available in 5 different unit sizes (300, 550, 800, 1200 and 1600). There are two different models for each size: multi-frequency 25/45 kHz (MF2) or 37/130 kHz (MF3). Available rinsing tank models (S): with heating (H) or without heating. The oscillation device for the cleaning basket assists and improves the cleaning and rinsing effect and also provides a drip-off support for the stainless-steel basket (EKO). The cleaning line can be fitted with a hot air dryer (WLT) of the relevant size. The units are delivered including support frame.

### Product features:

- ultrasonic tank made of extremely cavitation-proof stainless steel (V4A)
- inclined tank floor to facilitate the draining of the cleaning liquid
- skimming ledge for the optional surface skimming, e.g. of oil
- bottom scouring of removed sediments (optional)
- sandwich-type performance transducer systems
- two ultrasonic frequencies, switchable in one unit (version MF2 25 kHz/45 kHz or version MF3 37 kHz/130kHz), for either intensive, or gentle cleaning
- user-friendly operation by keys and display; 5 display languages available
- setting and starting of up to 5 user-defined cleaning programmes
- timer for the programming of day controlled or time controlled cleaning start, and user-defined switch-off
- activatable sweep mode for a continuous shifting of sound field maxima, guarantees a more homogeneous sound field distribution in the bath
- activatable pulse mode for an intensified ultrasonic cleaning power for tenacious contaminations.
- activatable degas mode for the efficient degassing of the cleaning liquid and for special laboratory cleaning tasks
- manual setting of ultrasonic intensity
- heating with temperature control (30°C – 80°C)
- automatic safety switch-off after 12 h operation to prevent unintended permanent operation
- automatic safety switch-off at 90 °C to protect the cleaning items against excess temperatures
- level monitoring with integrated automatic safety switch-off in case of too low liquid level
- housing made of V2A stainless steel
- drain duct made of V2A stainless steel, mounted to the unit rear
- connection ducts for the optional connection of peripheric equipment (e.g. filter-pump system, oil separator)
- connection to an external control system possible (PLC / PC)



### Technical data

Mains voltage unit (Vac)	3 x 400 V / N / PE	Tank filling volume V (L)	167
Mains plug / Connected load (A)	CEKON / 32	EKO Basket int. dim. W/D/H (mm)	436 / 509 / 372
Power consumption total ultrasonic cleaner(W)	9500	EKO Basket mesh size (mm)	8 / 8 / 1
Ultrasonic power effective (W)	2000	EKO Basket loading max. (kg)	40
Ultrasonic peak performance max.* (W)	8000	Drain	1"
Heating rinsing tank** (W)	7500	Material tank	Stainless steel V4A
Power consumption oscillation (W)	320	Unit Weight (kg)	450
Unit outer dimensions W / D / H (mm)	1450 / 1070 / 1700	Protection class	IP 23
Tank service dimensions W / D / H (mm)	550 / 600 / 456		

\* The signal form of the wave results in a factor 4 for the ultrasonic peak max.  
 \*\* Rinsing tank with heating