

Elmasonic X-tra Line 300 Flex 2

Modular ultrasonic cleaning & rinsing unit with oscillation device

Elma Order Nos.

Elma X-tra 300 MF2OSI	103 3311
Elma X-tra 300 MF2OSHI	103 3313
Elma X-tra 300 MF3OSI	103 3312
Elma X-tra 300 MF3OSHI	103 3314
Stainless steel cover EDO 300	100 4982
Stainless steel basket EKO 300	103 3083
Further accessoires on request	

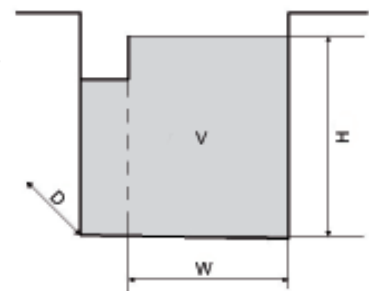


Pictured Elmasonic X-tra Line 550 Flex 2

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 35/130 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 (Vac)	1 x 230-240 V / N / PE	Tank filling volume V (L)	32
Mains plug / Connected load (A)	CEKON / 32	EKO Basket int. dim. W/D/H (mm)	248 / 258 / 188
Power consumption total ultrasonic cleaner(W)	2300	EKO Basket mesh size (mm)	8 / 8 / 1
Ultrasonic power effective (W)	600	EKO Basket loading max. (kg)	20
Ultrasonic peak performance max.* (W)	2400	Drain	1"
Heating rinsing tank** (W)	1700	Material tank	Stainless steel V4A
Power consumption oscillation (W)	170	Unit weight (kg)	80
Unit outer dimensions W / D / H (mm)	500 / 770 / 1100	Protection class	IP 23
Tank service dimensions W / D / H (mm)	327 / 332 / 250		

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

Elmasonic X-tra Line 550 Flex 2

Modular ultrasonic cleaning & rinsing unit with oscillation device

Elma Order Nos.

Elma X-tra 550 MF2OSI	103 3320
Elma X-tra 550 MF2OSHI	103 3322
Elma X-tra 550 MF3OSI	103 3321
Elma X-tra 550 MF3OSHI	103 3323
Stainless steel cover EDO 550	100 4972
Stainless steel basket EKO 550	100 2209
Further accessoires on request	

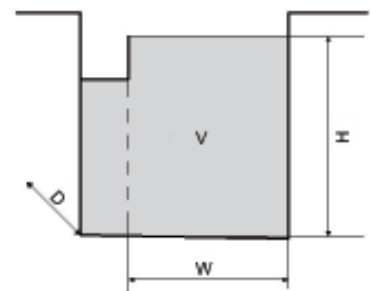


Pictured Elmasonic X-tra Line 550 Flex 2

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 35/130 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 (Vac)	3 x 400 V / N / PE	Tank filling volume V (L)	55
Mains plug / Connected load (A)	CEKON / 32	EKO Basket int. dim. W/D/H (mm)	248 / 428 / 224
Power consumption total ultrasonic cleaner(W)	3900	EKO Basket mesh size (mm)	8 / 8 / 1
Ultrasonic power effective (W)	1000	EKO Basket loading max. (kg)	20
Ultrasonic peak performance max.* (W)	4000	Drain	1"
Heating rinsing tank** (W)	2900	Material tank	Stainless steel V4A
Power consumption oscillation (W)	170	Unit Weight (kg)	180
Unit outer dimensions W / D / H (mm)	1000 / 940 / 1200	Protection class	IP 23
Tank service dimensions W / D / H (mm)	327 / 501 / 295		

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

Elmasonic X-tra Line 800 Flex 2

Modular ultrasonic cleaning & rinsing unit with oscillation device

Elma Order Nos.

Elma X-tra 800 MF2OSI	103 3333
Elma X-tra 800 MF2OSHI	103 3335
Elma X-tra 800 MF3OSI	103 3334
Elma X-tra 800 MF3OSHI	103 3336
Stainless steel cover EDO 800	100 4972
Stainless steel basket EKO 800	100 2211
Further accessoires on request	

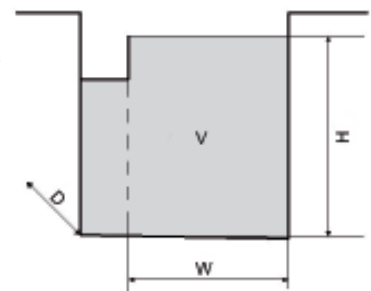


Pictured Elmasonic X-tra Line 550 Flex 2

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 35/130 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 (Vac)	3 x 400 V / N / PE	Tank filling volume V (L)	84
Mains plug / Connected load (A)	CEKON / 32	EKO Basket int. dim. W/D/H (mm)	244 / 424 / 372
Power consumption total ultrasonic cleaner(W)	6800	EKO Basket mesh size (mm)	8 / 8 / 1
Ultrasonic power effective (W)	1000	EKO Basket loading max. (kg)	20
Ultrasonic peak performance max.* (W)	4000	Drain	1"
Heating rinsing tank** (W)	5800	Material tank	Stainless steel V4A
Power consumption total oscillation (W)	170	Unit Weight (kg)	210
Unit outer dimensions W / D / H (mm)	1000 / 940 / 1500	Protection class	IP 23
Tank service dimensions W / D / H (mm)	327 / 501 / 445	* The signal form of the wave results in a factor 4 for the ultrasonic peak max. ** Rinsing tank with heating	

Elmasonic X-tra Line 1200 Flex 2

Modular ultrasonic cleaning & rinsing unit with oscillation device

Elma Order Nos.

Elma X-tra 1200 MF2OSI	103 3341
Elma X-tra 1200 MF2OSHI	103 3343
Elma X-tra 1200 MF3OSI	103 3342
Elma X-tra 1200 MF3OSHI	103 3344
Stainless steel cover EDO 1200	101 1744
Stainless steel basket EKO 1200	101 1662
Further accessoires on request	

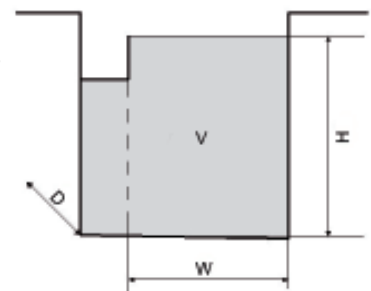


Pictured Elmasonic X-tra Line 550 Flex 2

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 35/130 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)	112
Mains plug / Connected load (A)	CEKON / 32	EKO Basket int. dim. W/D/H (mm)	436 / 509 / 222
Power consumption total ultrasonic cleaner (W)	9300	EKO Basket mesh size (mm)	8 / 8 / 1
Ultrasonic power effective (W)	1800	EKO Basket loading max. (kg)	40
Ultrasonic peak performance max.* (W)	7200	Drain	1"
Heating rinsing tank** (W)	7500	Material tank	Stainless steel V4A
Power consumption oscillation (W)	320	Unit Weight (kg)	400
Unit outer dimensions W / D / H (mm)	1450 / 1070 / 1500	Protection class	IP 23
Tank service dimensions W / D / H (mm)	550 / 600 / 303	* The signal form of the wave results in a factor 4 for the ultrasonic peak max. ** Rinsing tank with heating	

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	

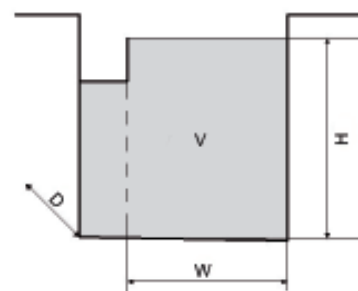


Pictured Elmasonic X-tra Line 550 Flex 2

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 35/130 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