



The multiple modular possibilities of the Elma X-tra line



Single cleaning station



3 chamber unit



3 chamber unit with dryer

Elma X-tra line Flex 2

3-step cleaning process in 2 tanks

Extras as a standard	Usage	Cleaning	Rinsing
Single frequency 35 kHz	for reliable cleaning	yes	optional
Multi-frequency 25/45 kHz	for stronger cleaning of tough substances	yes	optional
Multi-frequency 35/135 kHz	for cleaning of more refined parts	yes	optional
Sweep	for more even cleaning in the tank	yes	optional
Degas	speeds up start of cleaning	yes	optional
Ultrasonic power adjustment	more gentle cleaning effect	yes	optional
Temperature	optimised cleaning	yes	optional
Agitation	cleansing rinsing effect	yes	yes
Optional			
Draining position basket	reduces water spillage	yes	yes
Filter-pump unit	prolongs life of medium	optional	optional
Oil separator	prolongs service life of bath	optional	optional
Draining station	rinsing and blow-drying of cleaned parts	-	yes
Handheld shower	improves cleaning effect	-	yes

Further advantages of the rinsing tank:

- Small footprint with short working distance
- Reduces water spillage in working environment
- Handheld shower: Refreshing & replenishing of rinsing water
Cleaner surfaces
- Hot air dryer as additional unit improves the drying process

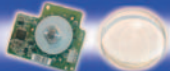
Technical Data X-tra line Flex 2

		X-tra 250	X-tra 550	X-tra 800
Tank volume max. (per tank)	(L/gal)	25 / 6,6	50 / 13	80 / 21
Tank dimensions (WxDxH)	(mm)	377 x 332 x 250	377 x 500 x 348	377 x 500 x 498
Unit external dimensions (WxDxH) (total)	(mm)	1000 x 630 x 1500	1000 x 800 x 1500	1000 x 800 x 1500
Weight (ca.) (in total)	(kg)	ca. 160kg	ca. 180kg	ca. 180kg
Material tank / housing		stainless steel	stainless steel	stainless steel
Drain	(inch)	1" 2-way	1" 2-way	1" 2-way
Basket internal dimensions (WxDxH)	(mm)	260 x 270 x 300	260 x 440 x 340	260 x 440 x 550
Basket mesh size (WxDxH)	(mm)	248 x 258 x 120	244 x 424 x 220	244 x 424 x 340
Max. basket load	(kg)	10	10	10
Voltage	(Vac)	400 / 208	400 / 208	400 / 208
Mains frequency	(kHz)	50 / 60	50 / 60	50 / 60
Power connection		3 Ph.; 1N, 1 PE	3 Ph.; 1N, 1 PE	3 Ph.; 1N, 1 PE
Power consumption total (per tank)	(W)	1300	3600	4900
Ultrasonic single frequency	(kHz)	35	35	35
Ultrasonic multifrequency	(kHz)	25/45 or 35/130	25/45 or 35/130	25/45 or 35/130
Ultrasonic power effective (per tank)	(W)	300	600	900
Ultrasonic peak max *	(W)	1200	2400	3600
Heating power (per tank)	(W)	1000	3000	4000
Heating adjustable		20-80°C	20-80°C	20-80°C
Sweep function		✓	✓	✓
Degas function		✓	✓	✓
Ultrasonic power adjustment		✓	✓	✓
Timer 15 min / continuous		✓	✓	✓

* The Ultrasonic units use the impulse waveform. The peak value of the ultrasonic power is the fourfold of the true rms power occurring twice in the main period.

Powerful cleaners for almost any industrial cleaning task

A1



elma tec clean A1

Cleaner for electronics and fine optics
The mildly alkaline elma tec clean A1 has been developed specifically for the fine cleaning of printed circuit boards and electro-mechanical components. It removes remnants of fluxing agents, finger prints or dust.

A2



elma tec clean A2

Intensive cleaner with brightening effect
elma tec clean A2 contains ammonia. Due to this chemical items made of brass and copper are not only cleaned but also brightened up and shine as new. It is therefore used e.g. for the treatment of brass cartridge cases in the weapons and arms business.

A3



elma tec clean A3

Iron and metal cleaner

An emulsifying alkaline cleaner. Ideal for the cleaning of metals after mechanical treatment and suitable for stainless steel, steel, iron metals, gray cast iron, titanium and precious metals after turning on a lathe, milling, lapping, polishing, grinding, drawing and punching.

A4

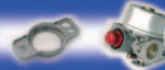


elma tec clean A4

Universal alkaline cleaner

The universal alkaline cleaner is suitable for the treatment of metals, nonferrous heavy metals, light metals, glass, rubber, ceramics and alkaline-resistant plastics. It thoroughly removes normal contaminations such as oil, grease, remnants of polishing media etc.. It causes the removed oil, grease and wax to separate and float on the surface so that these particles can be skimmed off in an ultrasonic unit with skimming edge.

A5



elma tec clean A5

Powerful cleaner for iron and light metals

This highly alkaline cleaning powder is perfect for the removal of tenacious contaminations, such as resinification, coking, tar remnants or remnants of paint or lacquer. It is frequently used for the overhaul cleaning of parts of motor vehicles, of metal cutting tools and other machinery parts.

N1



elma tec clean N1

Neutral cleaner

This efficient neutral cleaning concentrate is very gentle to the material. It is used for the treatment of highly sensitive pieces and removes oil, grease and other organic particles. We recommend to use elma tec clean N1 e.g. for the cleaning of only lightly dirty aluminium pieces.

S1



elma tec clean S1 - Mild acid cleaner

elma tec clean S1 is a mildly acid cleaning concentrate. It is suitable for the use in ultrasonic cleaning baths for the cleaning of nonferrous heavy metals, aluminium, stainless steel, plastics and glass. Brass and copper alloys are brightened up.

S2



elma tec clean S2

Strong acid cleaner

elma tec clean S2 is a highly acid cleaning concentrate. It easily removes oxide films, rust, lime and verdigris. S2 is suitable for the cleaning of nonferrous heavy metals, brass, stainless steel and precious metals.

