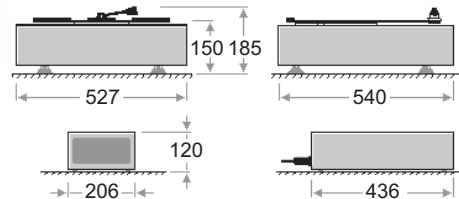


# Lab-Shaker (ES-X)

The Lab-Shaker ES-X is a specially designed shaker for installation in incubators (e.g. CO<sub>2</sub>-incubators). The extremely low power consumption of the shaker enables the user to run it in incubators without cooling (dependent on the environment temperature). The shaker (special edition) operates even under extreme temperatures as high as 80°C and relative humidity of 95%.



## Performance Features

- + separate control and shaker unit
- + designed for installation in incubators
- + casing made out of stainless steel
- + magnetic direct drive
- + highly efficient drive
- + maintenance free operation
- + extremely low energy consumption
- + precise shaking speed control
- + at least three adjustable shaking diameters
- + modular electronics with CAN-bus

Technical data	ES-X		
1 x Tray, size	F (800 x 420mm)		
or	EX (500 x 420mm)		
or	E (420 x 420mm)		
Loading, maximum	25kg		
Operating menu in	English, French, German		
Interface, standard	CAN-Bus		
Interface, optional	USB, Ethernet, digital, analogue		
Shaking unit	-20°C up to 80°C		
Control unit	0°C up to 60°C		
Consumption, maximum	65W (130W with high torque drive SMX1031)		
Consumption, typical	25W		
Total Weight	60kg		
Setting, digital	1 rpm	Acceleration	controlled
Accuracy, absolute	± 0.1 rpm	Active brake	adjustable
Timer	1s ... 999h	Stop on position	adjustable

Shaking motion	Speed	Mains connection	
* orbital, Ø 12.5mm	20...500 rpm	SMX1021:	220 - 240 V / 50-60 Hz
* orbital, Ø 25.0mm	20...400 rpm	SMX1022:	190 - 210 V / 50-60 Hz
* orbital, Ø 50.0mm	20...300 rpm	SMX1023:	110 - 120 V / 50-60 Hz
* can be changed		SMX1024:	95 - 105 V / 50-60 Hz
* linear motion available			

tray size	shake flask size														
	25 mL	50 mL	100 mL	150 mL	200 mL	250 mL	300 mL	500 mL	1000 mL	1500 mL	2000 mL	3000 mL	4000 mL	5000 mL	6000 mL
E 420x420	81	50	39	30	20	18	15	12	9	5	5	4	2	2	1
EX 500x420	90	62	42	36	27	22	21	14	9	8	6	4	3	2	2
F 800x420	153	100	74	60	40	40	30	26	16	12	9	8	5	4	3
EU 420x420	78	39	24	25	20	20	17	12	8	5	4	4	2	2	1
EXU 500x420	80	45	34	25	23	22	21	15	9	6	5	4	3	2	2
FU 800x420	109	89	50	50	38	38	34	26	15	12	9	7	5	4	4

The number of clamps on universal trays (CU/FU/EXU/EU) is a minimum value. Depending on the producer or country of manufacturing of glass / plastic flasks a higher number of clamps can be mounted on our universal trays.

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Subject to change

