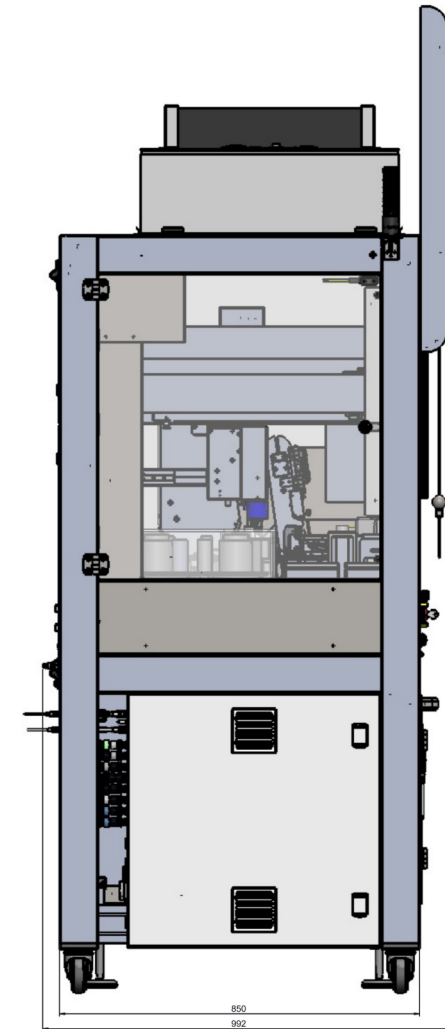
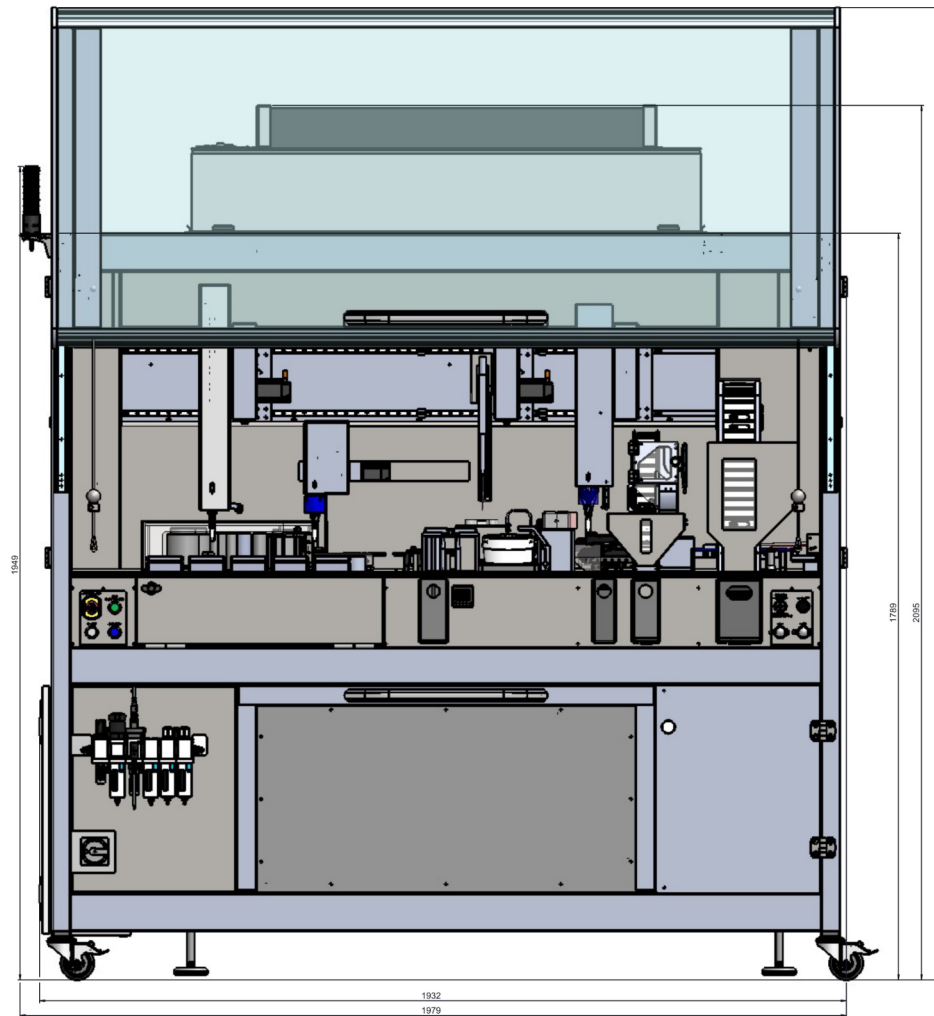


X-TubeProcessor[®]_Flex



BASIC DEVICE

Dimensions:	
height:	approx. 1.95 m standard / 2.10 m with HEPA-filter
depth:	approx. 0.90 m
width:	from 1.20 m until 2.00 m (depending on individual setup)

Weight:	approx. 300–600 kg (depending on individual setup)
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Electrical Supply:	
operating voltage:	100–240 VAC/50–60 Hz
power:	280 W (incl. emergency stop)

Pneumatic Supply:	100 l/min dry air @ min. 6 bar
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Connections:	electrical inlet, pneumatic inlet, USB connection, ethernet connection, database connection (after individual clarification)
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Ambient Conditions:	
room temperature:	15 °C to 35 °C
humidity:	10 % to 80 %

Basic modules (depending on machine setup):	
device housing:	aluminium, cleanable with regular detergents plexiglass doors with opening control sensor
device frame:	available widths: 120 cm, 160cm or 200 cm 4 reels with additional supporting feet
device control:	external computer
robotic arm:	up to 3 Universal-Turning-Grippers (patent pending)
clamping position:	pneumatic gripper control sensor for presence of tube
turning table:	aluminum rotary indexing table 6 tube positions
control lamp:	3 different light signals

Tubestorage:	
rackstorage:	holding plate for up to 9 SBS racks (adaption to specific racks after clarification)
drop-box:	bulk container for up to 1000 tubes with optional cooling function

Feeding modules:	
Cap-Feeder:	standard capacity of up to 1500 caps with orientation sensor with Quick-Empty function
Tube-Feeder:	standard capacity of up to 1500 tubes

ADDITIONAL UNITS

Liquid handling module:	
type:	Watson Marlow peristaltic pump
dispensing volumes:	> 50µl
calibration:	Individual calibration software tool
accuracy:	from 1–5 % depending on amount, density and tubing diameter
available tubing:	ID Ø 0.5 mm, ID Ø 0.8 mm, ID Ø 1.6 mm
source vessel:	500 ml, 1 l (larger bottles after individual clarification) with optional cooling function
suction-/dispensing-cannula:	available per each size of tubing stainless steel autoclavable
additional options:	Wall-Touch unit Empty-Bottle Detection unit

Air displacement pump:

type:	Hamilton Zeus pipetting channel
dispensing volumes:	10 - 1000µl
calibration:	8 point calibration program for each specific liquid class
accuracy:	from 1-5 % depending on amount, density and tip size multi and single dispense mode available
available tip sizes:	50 µl, 300µl, 1000µl tip box for up to 96 tips incl. tip waste box
source vessel:	15ml, 50ml (larger vessels after individual clarification) with optional cooling function

Label printer:

type:	Cab Hermes Q thermotransfer printer
max. label height:	35 mm
resolution:	600 dpi
labeldesign software:	Cablabel S3 (other software after individual clarification)
operating voltage:	100-240 VAC/50-60 Hz
power:	100 W

HEPA-filter system:

sterility class:	DIN EN ISO 14644 Class 5 (other after individual clarification)
filter type:	filter class H 14
operating voltage:	100-240 VAC/50-60 Hz
power:	85 W

APPLICABLE TUBES & CAPS

Caps:

sealing:	screw cap
height:	approx. 6 mm
manufacturer:	Sarstedt SSI Biozym Greiner VWR (other caps after technical evaluation)

Tubes:

size:	0.5, 1.5 and 2ml
manufacturer:	Sarstedt SSI Biozym Greiner VWR (other tubes after technical evaluation)

SPEED [depending on procedure]

Capping Filling (peristaltic pump)	Capping Labelling	Other procedures depending on setup
Up to 600 tubes/hour	Up to 450 tubes/hour	
