

Elution testing shaker TS-20N

Suitable for Soil elution testing, Soil harmful metals contained testing, and the leaching operation of harmful metals contained from industrial waste.

• "Planetary centrifugal stirrer for volatile substance elution GR-5" --> P.096



TS-20 with Polyethylene jar (horizontal placement)

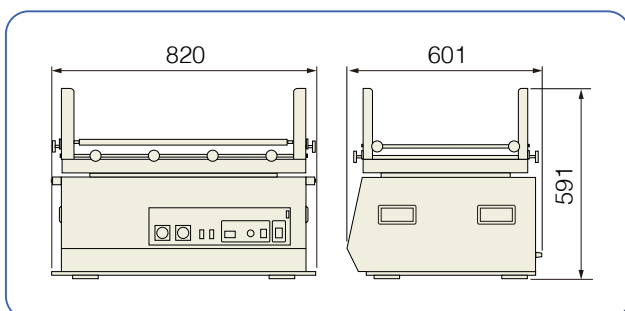
Model	TS-20N
Shaking motion	Reciprocal shaking
Shaking speed/width	25 to 200 r/min, 10 to 50 mm, Stepless (Default: 45 mm) (*1)
Capacity	Polyethylene jar: Max. 6 pcs for 5 L/Max. 14 pcs for 2 L (See right figure)
Maximum load	Approx. 20 kg (Shaking platform and Vessel press bars are not included)
Timer	Timer operation function (1 min to 99 h 59 min) (*When the timer function is not being used, it can count the time.) •ON-END •OFF-ON •OFF-ON-END Integral timer display 1 to 99 h 59 min or after: 100 h to 9999 h
Speed display/Setting	Digital display/Input
Safety devices/functions	Motor protection circuit at overload, Fuse
Dimensions (WxDxH)	820 × 601 × 591 mm (*2)
Weight	Approx. 100 kg
Power supply	AC100V-240V/1A (universal power supply)
Standard accessories	Vessel press bars (long 4/short 4) for TS-20, Adjustment screwdriver for Timer × 1 pc

(*1) Please ask us to adjust the shaking width. (*2) External dimensions have been changed for shipments from the second half of 2013 (for accommodation of polyethylene jars and the change in the capacity of vessels).

Optional: Vessel press bars (for addition)

Product Name/Model	Remarks
Vessel press bar (long) for TS-20	Please purchase any as necessary referring to the upper right capacity.
Vessel press bar (short) for TS-20	

Dimensions



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Features

- Powerful shaking of Polyethylene jars, Capacity: 6 pcs for 5 L/14 pcs for 2 L (See below)
- Dedicate for Polyethylene jars. Capacity and Max. load double those of TS-10N
- Max. load 20 kg, Energy-saving 70 Wh, with Timer

Applications

- Harmful metals contained from soil and industrial waste
- Extraction of analytical samples with Polyethylene jars
- Various mixing-stirring, etc.

Capacity for Polyethylene jars

(The number of capacities has been changed for shipments from the second half of 2013.)

Placement	Volume and Capacity				
	Horizontally	5 L	3 L	2 L	1 L
6 pcs		10 pcs	14 pcs	21 pcs	44 pcs
Vertically	5 L	3 L	2 L	1 L	500 mL
	6 pcs (*1)	8 pcs (*2)	12 pcs (*2)	20 pcs (*3)	30 pcs

(*1) The addition of Vessel press bars (4 pcs/short) is required. (*2) The addition of Vessel press bars (6 pcs/short) is required. (*3) The addition of Vessel press bars (8 pcs/short) is required.

*In all cases, use within the maximum load.

Leaching operation of heavy metals, etc. in soil harmful metals contained testing and TS-20N

① Mix 6 g or more of sample and solvent at a ratio of 3% by weight to volume. The Vessel is made of polyethylene or one that does not adsorb and elute the target substance and has a volume at least 1.5 times that of the solvent.

Size and capacity when installed horizontally at 1/2 volume of working volume

5 L	3 L	2 L	1 L
8 pcs	10 pcs	20 pcs	36 pcs

*Use vessels made by SUNPLATEC (1 L and 2 L: quick bottles, 3 L and 5 L: PE wide-mouth bottles). Please adjust the number of vessels according to the amount of solution.

*When installing and using the above number of pcs, please make sure that the weight is within the maximum load.

② Continuous shaking for 2 hours at 200 r/min and 4 to 5 cm shaking width at room temperature and normal pressure

--> The timer function of the TS-20N also contributes to the reproducibility of shaking time.

Transmission output is possible

The available speed signal output from 1 to 5 V makes it possible to connect to a recorder, etc. It is recommended for customers who need data in the working process.