

Ultrasonic Homogenizer VP-300N

Easy operation. High output is suitable for large volume samples. Used with the stand. Various options such as Cup horn makes it possible for Non-contact sonication.

Features

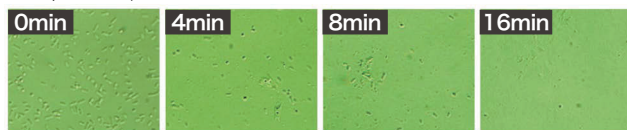
- High output type using with stand. Standard throughput is 10mL to 250mL.
- Easy tuning completed in about 5 seconds
- Oscillation function and various operation modes according to the chip used

Applications

- Disruption and Solubilization of E. coli that protein expressed.
- Random fragmentation of Genomic DNA. Emulsification of samples.
- Non-contact sonication with Cup horn [option]

Oscillation and Operation mode

Optimal oscillation is done by setting the chip used on the screen. PWM operation mode that automatically adjusts the output according to the viscosity change of the sample. POW operation mode that performs stable oscillation when the sample viscosity and temp. SEN operation mode that controls the output so that the value of oscillation sensor inside constantly (Effective for Sonicating for a long time with optional continuous disruption cell)



Disruption of E. coli 35ml (50ml Centrifuge tube and φ12mm standard horn used)

Optional Please be sure to read the next page for the combinations.

Product Name/Model	Remarks
φ12mm Standard horn VP-HN12 *standard accessory of VP-300N	For 10 - 250mL sample (*). This product includes VP-ET12
φ20mm Standard horn VP-HN20	For 25 - 500mL sample(*). This product includes VP-ET20
φ12mm Tip VP-ET12	For Replacement when consumed
φ20mm Tip VP-ET20	For Replacement when consumed
φ12mm Extender VP-EX12	L 100mm version of VP-ET12
φ20mm Extender VP-EX20	L 100mm version of VP-ET20
φ3mm Tapered Micro Tip VP-MT03	For 1 - 10mL, Tip diameter φ3.5mm
φ5mm Tapered Micro Tip VP-MT05	For 2 - 10mL, Tip diameter φ5mm
φ6mm Tapered Micro Tip VP-MT06	3 - 10mL, Tip diameter φ6.6mm
Coupler VP-CP01	For connection with Stepped Micro Tip
φ2mm Stepped Micro Tip VP-MS02	For 0.1 - 10mL, Tip diameter φ2.2mm
φ3mm Stepped Micro Tip VP-MS03	For 0.25 - 10mL, Tip diameter φ3mm
φ6mm Stepped Micro Tip VP-MS06	For 2 - 10mL, Tip diameter φ6mm
φ38mm Cup horn VP-CH38	Enables processing without contact
φ51mm Cup horn VP-CH51	Enables processing without contact
Continuous crashing cell (For φ12mm) VP-CC05	Enables Flow-through processing (Approx. 19 L/h)
Continuous crashing cell (For φ20mm) VP-CC06	Enables Flow-through processing (Approx. 19 L/h)
Dedicated stand VP-ST30	Almost required in VP-300N
Absorption silencer VP-SB01	No need to stand when use
Foot switch VP-FS01	Foot switch

(*In E. coli, considering the efficiency, the throughput ideally around the described median. When it reaches Max amount, processing takes time (approx 15 min with about 35ml for crushing of above 90% in φ12 mm, approx 40 min with 250 ml).

● Protuberances not included in Dimensions. ● Vessels of photo not included.

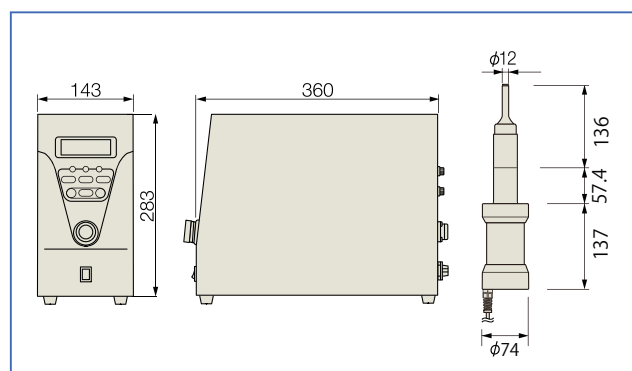


VP-300N with Optional stand

Model	VP-300N
High frequency output	Maximum 300W
Transducer normal output	50 to 200W (*)
Oscillation frequency range	19 to 21Hz
Turning	Automatically
Operation mode	PWM operation: Automatic output adjustment according to viscosity change of sample POW operation: Stable oscillation when change in viscosity or temp are small SEN operation: Controls the output so the value of oscillation sensor inside constantly
Other functions	Timer operation (1sec to 120min) Programmed interval operation (ON: 3 to 60sec, OFF: 1 to 60sec)
Display	Real time output value %, Output value setting %, Oscillation frequency, The tip used, Operation mode
Configuration	Main unit, Converter, φ12mm Standard horn (Pre-installed Tip)
Oscillation switch	Equipped in Main unit (Optional foot switch can be used)
Dimensions / Weight	143(W) x 360(D) x 283(H)mm, Approx. 6.7kg
Standard accessories	Standard horn (φ12mm: VP-HN12), Tip (φ12mm: VP-ET12)
Power supply	AC100V/5A

(*) The upper limit varies depending on the horn and the tip used.

Dimensions



- Selection guide
- Constant temperature incubator shaker
- CO₂ incubator shaker
- Shaker
- Mixer
- Rotator
- Stirrer
- Bead beater
- homogenizer
- Ultrasonic homogenizer
- Aluminum block bath
- Minimize bath
- Water bath
- Shaking water bath
- Immersion cooler
- Hybridization oven
- constant temperature chamber
- Centrifugal concentrator
- Cold trap
- Freeze dryer
- Electrophoresis and blotting apparatus
- Constant temperature circulating system [Chiller]
- Appendix