



CLIMPULSE "F" SERIES ULTRASONIC CLEANER

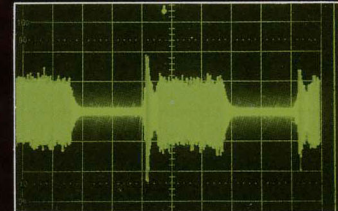


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CLIMPULSE is the popular name for the advanced ultrasonic cleaner that enable ultrasonic energy to be switched on/off within the period of a second. It becomes possible to effectively clean the contamination by using the instantaneous pulse shaped impulse wave generated when turned ON, as shown in the photograph. When OFF, the enhanced defoaming of the cleaning solution and the decreased attenuation of the ultrasonic energy allows cleaning by the more powerful impulse wave.



The sound pressure wave form in water
ON OFF

New pulse oscillating function

Since either the conventional continuous oscillation system or the new pulse oscillation system can be selected, it is possible to clean using the best system for each desired application.

P.L.L. frequency automatic tracking system

The unique P.L.L. system always oscillates at the optimum frequency, independent of the type, depth and temperature of the solution.

Wider ultrasonic irradiating area

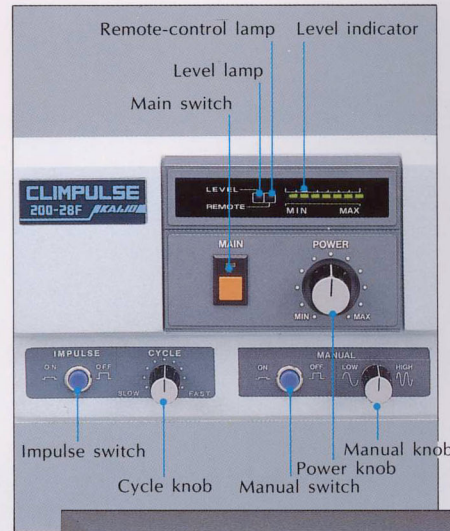
The ultrasonic irradiating area is wider than the conventional type by around 10 - 34% (our comparison) and provides an outstanding cleaning effect.

Uniform cleaning effect

Close arrangement of the oscillating elements allows uniform cleaning throughout the surface.

Quantitative control function

A level indicator is provided that uses multi-point LEDs which allow more accurate quantitative control than the conventional qualitative control.



Understanding the operation at a glance

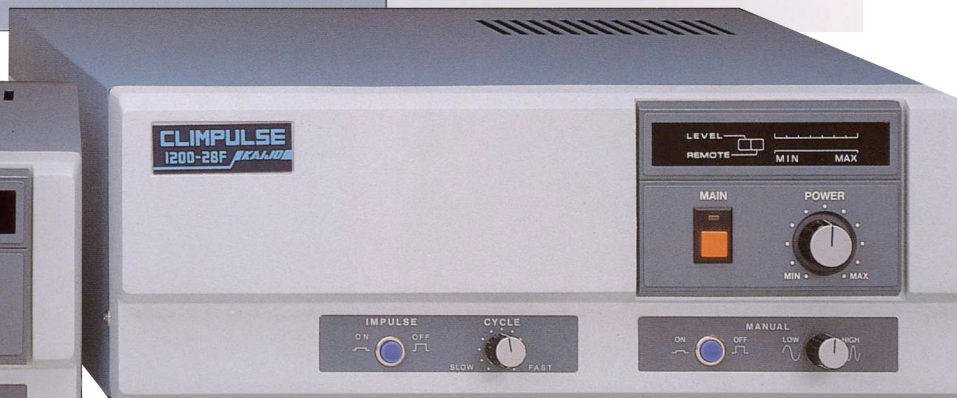
Provided with a level lamp and a remote lamp so as to give the operator clear information of the operating condition of machine at a glance.

Pursuing the highest cleaning effect

Various control knobs for easier adjustments are provided at outside to achieve the best cleaning effect.

Manual function for tuning frequency

The manual function, for cleaning at a desired frequency, can be set by pushing only one button.



Complete line-up of units

There are 4 models of units ranging in output from 200W to 1200W, with a total of 37 types for cleaning tank, plated transducer and immersible transducer available as standard units. (Units of different size than the standard units are also available.)

Dust-proof

Adoption of the special heat radiation system enables the casing to be airtight. Dust cannot enter from the outside.

Compact · lightweight

They are smaller than the conventional type by 29- 32% and are lighter by 26 - 56% (our comparison).

CLIMPULSE F SERIES Specifications

Items	Specifications			
Model	4341i	5341i	6341i	7341i
Effective output	200W	400W	600W	1200W
Frequency	28kHz ± 7%			
Oscillation system	VCO			
Frequency tuning	Automatic tracking P.L.L. system			
Output circuit method	Transistor, class D, PP method			
Power source	AC100V 5A 50/60Hz 1ϕ	AC100V 7A 50/60Hz 1ϕ	AC200V 6A 50/60Hz 1ϕ	AC200V 12A 50/60Hz 1ϕ
Remote control mechanism	Provided			
Pulse oscillation mechanism	Cycle 1 to 5 sec. (continuously variable)			
Output indication	7-point LED type level indicator			
Ambient operating temperature	0 - 40°C			
Auxiliary mechanism	<ul style="list-style-type: none"> ● Remote lamp·····Illuminates during remote control operation. ● Level lamp·····Illuminates when output drops below the set level such as wrong water depth. 			
Overall dimensions (including rubber feet) (W × L × H mm)	230 × 380 × 164	320 × 470 × 164	320 × 470 × 164	400 × 505 × 172
Weight	6 kgs	12 kgs	12 kgs	18 kgs

