

DREW ULTRASONIC TANKS



DESCRIPTION

DREW ULTRASONIC TANKS are complementary to the chemical cleaning products of Drew Marine. They are designed for modern shipboard maintenance where highly effective cleaning results are required with little manual intervention.

The tanks are made from 316 stainless steel, delivered complete with a stainless steel basket and lid. Heating and temperature controls are easily accessed.

Ultrasonic cleaning works on the principle of cavitation. High frequency (28 kHz) sound waves are generated and introduced in the cleaning liquid. The process of ultrasound creates numerous tiny vacuum bubbles in the cleaning solution which consequently implode. The energy released when these tiny bubbles implode on the surface of parts exposed to the cleaning solution causes an extremely effective cleaning force.

As the temperature of the cleaning solution is directly related to the cavitational effect of the ultrasonic energy, DREW ULTRASONIC TANKS are delivered with built-in electrical heating elements complete with thermostatic controls. The optimal cleaning can be obtained by using a 20 percent solution of ENVIROMATE 2000 general purpose cleaner at the appropriate cleaning temperature (50-70° C).

APPLICATION AND USE

DREW ULTRASONIC TANKS are typically designed for quick and thorough cleaning of:

- Fuel, lube, hydraulic oil filters
- Reuse filters that usually are thrown away
- Injection nozzles
- Purifier parts
- Turbocharger parts
- Heaters and coolers

DIRECTIONS FOR USE

- Install the tank in an easily accessible area of the engine room or workshop.
- Connect to correct electrical power supply and fill with fresh water to minimum level.
- Prepare recommended ultrasonic cleaning solution (e.g., 20% ENVIROMATE 2000 solution).



PCN 1AA8057

- Raise temperature to 50-70° C .
- De-aerate cleaning solution by switching Ultrasonic Tank on for 10-20 minutes prior to adding parts to be cleaned.
- Place components in the basket and switch on ultrasonic unit. For optimal cleaning results, do not exceed the 'Max weight of Parts to be immersed' which are listed in the Specification. If necessary, sonicate parts to be cleaned in multiple batches or use a larger sized Ultrasonic Tank.
- Set timer to the desired cleaning time.
- Remove cleaned components and rinse briefly in a second Ultrasonic Tank that contains clean-virgin solution or rinse thoroughly.

Always remember to properly manage the spent cleaning solution and please follow the instructions in the product manual that comes with the DREW ULTRASONIC TANK.



Contact your Drew Marine representative for more information

SPECIFICATIONS

DREW ULTRASONIC TANKS and spare parts are available in the following models:

Specification	1AA8057	1AA8696	1AA8058	1AA8698	1AB5846	1AB5847
Power Input	230 VAC 50/60Hz 1ø	440 VAC 50/60Hz 3ø	230 VAC 50/60Hz 1ø	440 VAC 50/60Hz 3ø	440 VAC 50/60Hz 3ø	440 VAC 50/60Hz 3ø
Tank Volume	60 liters (15.5 gallons)	60 liters (15.5 gallons)	200 liters (52.5 gallons)	200 liters (52.5 gallons)	325 liters (86.0 gallons)	650 liters (172 gallons)
Tank Size (LxWxH)	500 x 400 x 300 mm (19.7 x 15.7 x 11.8 in)	500 x 400 x 300 mm (19.7 x 15.7 x 11.8 in)	800 x 500 x 500 mm (31.5 x 19.7 x 19.7 in)	800 x 500 x 500 mm (31.5 x 19.7 x 19.7 in)	540 x 500 x 1220 mm (21.3 x 19.7 x 48.0 in)	1100 x 700 x 850 mm (43.3 x 27.6 x 33.5 in)
Max weight of parts to be immersed – for optimal cleaning result	up to 30 kg (65 lb)	up to 30 kg (65 lb)	up to 100 kg (220 lb)	up to 100 kg (220 lb)	up to 165 kg (360 lb)	up to 330 kg (725 lb)
Transducer Type	Piezoelectric	Piezoelectric	Piezoelectric	Piezoelectric	Piezoelectric	Piezoelectric
Frequency	28 kHz	28 kHz	28 kHz	28 kHz	28 kHz	28 kHz
Ultrasonic Power	600 Watts	600 Watts	1200 Watts	1200 Watts	2800 Watts	3600 Watts
Heating Power	2000 Watts	2000 Watts	4000 Watts	4000 Watts	6000 Watts	12000 Watts
Thermostat	30 – 120°C (86 – 248°F)	30 – 120°C (86 – 248°F)	30 – 120°C (86 – 248°F)	30 – 120°C (86 – 248°F)	30 – 120°C (86 – 248°F)	30 – 120°C (86 – 248°F)
Timer	0 – 60 min	0 – 60 min	0 – 60 min	0 – 60 min	0 – 60 min	0 – 60 min
Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Unit Size (LxWxH)	580 x 720 x 700 mm (22.8 x 28.3 x 27.6 in)	580 x 720 x 700 mm (22.8 x 28.3 x 27.6 in)	880 x 820 x 900 mm (34.6 x 32.3 x35.4 in)	880 x 820 x 900 mm (34.6 x 32.3 x35.4 in)	860 x 830 x 1620 mm (33.9 x 32.7 x 63.8 in)	1220 x 1040 x 1300 mm (48.0 x 40.9 x 51.2 in)
Unit Weight	63 kg 139 lb	63 kg 139 lb	92 kg 203 lb		200 kg 441 lb	310 lb 683 lb



Contact your Drew Marine representative for more information

Ordering Information - Spare Parts

Description	PCN
Frequency PCB	1AB5192
Electric PCB	1AB5193
Scanning PCB	1AB5194
Strengthen Scan PCB	1AB5195
Control panel	1AB5196
Impedence coil	1AB5197
Heater 2000W 440VAC	1AB5198
Heater 2000W 220VAC	1AB5199
Heater 4000W 440VAC	1AB5200
Heater 4000W 220VAC	1AB5201
Heater 6000W 440VAC	1AB5848
Magnetic contactor (S-P11)	1AB6118
Fuse, 6A	1AB6119
Temperature control with knob	1AB6120
Power on-off switch	1AB6121
Time control with knob	1AB6122
Magnetic contactor (S-P25)	1AB6123
Indicator light	1AB6124
Control panel cover	1AB6125
Transformer	1AB6126

Note: For all other spare part inquiries, please contact your Drew Marine representative.



Contact your Drew Marine representative for more information

Drew Marine maintains Safety Data Sheets on all of its products. These documents contain health and safety information for the development of appropriate product handling procedures to protect your employees. Safety Data Sheets should be read and understood by all of your supervisory personnel and employees before using Drew Marine products.



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