

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 cavitation 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 | 1AB6166** | 1AA8058 1AA8698 | 1AB5846** | 1AB5847** |
|--|--------------------------------------|--------------------------------------|--------------------------------------|---------------------------------------|---|
| Power Input | 230 VAC* 440 VAC | 230 VAC | 230 440 VAC | 440 VAC | 440 VAC |
| Phase | 1φ 3φ | 1φ | 1φ 3φ | 3φ | 3φ |
| Tank Volume | 60 liters (15.5 gallons) | 90 liters (24 gallons) | 200 liters (52.5 gallons) | 325 liters (86.0 gallons) | 650 liters (172 gallons) |
| Tank Size (LxWxH) | 50 x 40 x 30 cm (20 x 16 x 12 in) | 55 x 40 x 45 cm (22 x 16 x 18 in) | 80 x 50 x 50 cm (32 x 20 x 20 in) | 54 x 50 x 122 cm (22 x 20 x 48 in) | 110 x 70 x 85 cm (44 x 28 x 34 in) |
| Max weight of parts to be immersed – for optimal cleaning result | up to 30 kg (65 lb) | up to 50 kg (110 lb) | up to 100 kg (220 lb) | up to 165 kg (360 lb) | up to 330 kg (725 lb) |
| Ultrasonic Power | 600 Watts | 800 Watts | 1200 Watts | 2800 Watts | 3600 Watts |
| Heating Power | 2000 Watts | 2000 Watts | 4000 Watts | 6000 Watts | 12000 Watts |
| Unit Size (LxWxH) | 58 x 72 x 70 cm (23 x 29 x 28 in) | 63 x 72 x 85 cm (25 x 29 x 34 in) | 88 x 82 x 90 cm (35 x 33 x 36 in) | 86 x 83 x 162 cm (34 x 33 x 64 in) | 122 x 104 x 130 cm (48 x 41 x 52 in) |
| Unit Weight | 63 kg 139 lb | 78 kg 172 lb | 92 kg 203 lb | 200 kg 441 lb | 310 lb 683 lb |

Common technical information

| | |
|----------------------|-------------------------|
| Line Frequency | 50/60 Hz |
| Transducer Type | Piezoelectric |
| Transducer Frequency | 28 kHz |
| Thermostat | 30 – 120°C (86 – 248°F) |
| Timer | 0 – 60 min |
| Material | Stainless steel |

*115 VAC Model available upon request

**These models are made to order



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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 conactor (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 |
| Cooling fan | 1AB6265 |

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



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