

## BRUTE/B Model 107

### Marine Oil Water Separator Shipping Dimensions

107 Models	Dimensions (inches)	Cu M (cbm)	Crate Weight (lbs)
BRUTE/B 2.2TY/107	37x32x52	1.00	500
BRUTE/B 2.2T/107 YM	37x32x52	1.00	450
BRUTE/B 2.2T/107	37x44x65	1.50	650
BRUTE/B 5T/107	37x52x69	2.02	950
BRUTE/B 11T/107	41x63x86	3.33	1550
BRUTE/B 25T/107	45x52x86	3.15	1500
- 25 Polisher	37x36x81	1.70	1400
BRUTE/B 45T/107	57x65x89	4.90	2200
- 45 Polisher	43x42x81	3.61	2000

## BRUTE Oily Water Separators

**CERTIFIED TO LATEST IMO MEPC 107(49)**

***Simple & Solid – Design, Cost, Installation, Operation, Maintenance, Reliability, Efficiency, & Filtration***



**FOR SHIPS  
400-1600GT  
BRUTE 2.2T/107  
(0.5 m3/hr)**



**FOR SHIPS  
1600-4000GT  
BRUTE 5T/107  
(1.1 m3/hr)**



**FOR SHIPS  
4000-15000GT  
BRUTE 11T/107  
(2.5 m3/hr)**



**FOR SHIPS  
15000GT+  
BRUTE 25T/107  
(5.7 m3/hr)**



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**FOR RIGS & LARGE SHIPS  
 BRUTE 45T/107  
 (10.2 m3/hr)**

## BRUTE Oil Water Separators Specification Sheet 107(49)

Specifications	2.2 GPM	5 GPM	11 GPM	25 GPM	45 GPM
Height (inch/cm)	56 (127)	59 (142)	77 (175)	87 (183)	89 (191)
Width (inch/cm)	27 (69)	29 (71)	37 (91)	47 (104)	56 (137)
Depth (inch/cm)	40 (102)	49 (124)	58 (142)	78 (198)	99 (252)
Dry Weight (lbs./kilogram)	500 (204)	725 (329)	1250 (568)	2610 (1184)	3550 (1610)
Wet Weight (lbs./kilogram)	630 (286)	1165 (528)	2220 (1007)	4950 (2245)	7870 (3570)
Capacity gpm/ M <sup>3</sup> /hr	2.2(0.5)	5 (1.1)	11 (2.5)	25(5.7)	45(10.2)
Pipe Connections In/Out	¾" – ¾"	1" – ¾"	1 ½" – 1"	1 ½" -1½"	2" – 1 ½"

**U.S. COAST GUARD CERTIFIED**



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## All Units

Specifications	Value	Advantage
IMO MEPC Compliance	107(49)	Meets Latest Requirement
Expected Oil in Discharge Water (independent tests)	Less than 3.2 PPM	Far exceeds the required 15ppm Great for the environment
Emulsion Removal Method	High Capacity Filtration	Simpler/more trouble free than membranes
Expected Filtration Media Life	1 year	Extra long lasting without bypassing
Water Discharge Pressure	90Ft of Head	Designed for any situation
Oil Discharge Pressure	Makeup Water Pressure	Determined by makeup water
Oil Discharge Valve	Standard Check Valve	Optional MOV where Negative Head
Control System Type	Solid Circuit	Increased reliability – No PLC trouble
Control System Interface	6 dry contacts	Easy to interface with ship controls
Test PSIG	45	Quality Construction
Operating Temp Range	1-55 C	Generally not affected by temperature
Max Free Oil Concentration	35%	Large temporary slugs of oil up to 100%
Oil in Water Discharge with TPH	<15 ppm	Can be set to 1-15ppm
Single Phase Power Options	110/120vac 220vac	Any power option 1 phase
Three Phase Power Options	210/220vac 380/415vac 460/480vac 575/600vac	3 phase options to 600VAC
Frequency	50 or 60 Hz	Either frequency no problem
Max Amperage	3.3-7.7 amps	Recommend 15 amp circuit
Max Turbidity for Accurate TPH Reading	35 NTU standard	High Turbidity Options Available
Design Negative Inlet Head (Ft/M)	12 ft./ 3 M	High Lift 5 Meter Option Available
Level Sensor	Conductance	Highly Reliable- Trouble Free
Pump	Centrifugal w SS Housing	Highly Reliable - No emulsions created pump on the discharge side of separator
Coalescing Media	Polypropylene / HDPE	Excellent Coalescing - Very Efficient
Vessel Metallurgy	Carbon Steel	Marine Coated
Coating Specification	Epoxy/Urethane	Highest Quality Coating
Skid / Drip Pan	Standard without skid	Skid or Drip Pan Optional
Piping and Manual Valves	Bronze / Red Brass	Excellent

**Notes:**

Custom designs are available to vary specifications including hazardous area options.  
 Combinations of specs may have pricing implications.