



## Diesel Engines 20V 4000 M93/M93L

For Fast Vessels with Low Load  
Factors (1DS)

<b>Engine Type</b>	<b>20V4000 M93</b>	
Rated power ICFN	3900 kW	5230 bhp
Speed	2100 rpm	
Number of cylinders	20	
Bore mm - in	170 mm	6.7 in
Stroke mm - in	190 mm	7.5 in
Displacement, total l : cu - in	86.2 cu	5260 in
Flywheel housing	SAE 00	
Gearbox type **	ZF 9055	
Optimization of exhaust emissions *	IMO II/EPA 2	
Fuel consumption at rated power	213 g/kWh	
	982.0 l/h	
	259.5 gal/h	

\*\* Gearbox variants "Down Angle A" and "V-Drive" available on request

### Engine Dimensions

#### 20V4000 M93

Dimensions (L x W x H) mm - in	4015 x 1470 x 2440 mm	158.1 x 57.8 x 96.1 in
Dry weight kg - lbs	12080 kg	26631 lbs

#### 20V4000 M93 - with gearbox type

Dimensions (L x W x H) mm - in	5720 x 1470 x 2440 mm	225.2 x 57.8 x 96.1 in
Dry weight kg - lbs	14785 kg	32595 lbs

<b>Engine Type</b>	<b>20V4000 M93L</b>	
Rated power ICFN	4300 kW	5766 bhp
Speed	2100 rpm	
Number of cylinders	20	
Bore mm - in	170 mm	6.7 in
Stroke mm - in	190 mm	7.5 in
Displacement, total l : cu - in	86.2 cu	5260 in
Flywheel housing	SAE 00	
Gearbox type **	ZF 23 560 C	
Optimization of exhaust emissions *	IMO II/EPA 2	

Fuel consumption at rated power      220 g/kWh  
1103.0 l/h  
291.5 gal/h

\*\* Gearbox variants "Down Angle A" and "V-Drive" available on request

### **Engine dimensions**

#### **20V4000 M93L**

Dimensions (L x W x H) mm - in	4015 x 1470 x 2440 mm	158.1 x 57.8 x 96.1 in
Dry weight kg - lbs	12080 kg	26631 lbs

#### **20V4000 M93L - with gearbox type**

Dimensions (L x W x H) mm - in	5720 x 1470 x 2440 mm	225.2 x 57.8 x 96.1 in
Dry weight kg - lbs	14785 kg	32595 lbs

\* IMO - International Maritime Organization (MARPOL)  
EPA - US marine directive 40 CFR 94

**Website: [www.pps-bv.nl](http://www.pps-bv.nl)**