

# WESTERBEKE MARINE DIESEL GENERATING SETS



Yacht WILWAT  
by Burger

## 10, 15, 20, 30 and 45 kw

### FEATURES:

#### Brushless Construction

Greatly improved electronic voltage regulation.  
No moving parts or multiple contact points.  
Easy to service, no delicate adjusting necessary.

#### Precision Governor

Good frequency regulation . . .  
electronic devices function better  
and save fuel.

#### Quiet, Smooth-running

Low decibel engine-generator  
assemblies are vibration isolated  
on flexible rubber mounts.

#### Easier Starting

High cranking speed makes cold weather  
starting easy.

#### Lightweight, Compact

Engineered to save inches, yet preserve  
accessibility.



## 10 kw & 15 kw

### ENGINE:

**Type:** Diesel, 4 Cylinder in line, 4 Cycle

**Displacement:** 108 cu. in. Bore 3.125 in. Stroke 3.5 in.

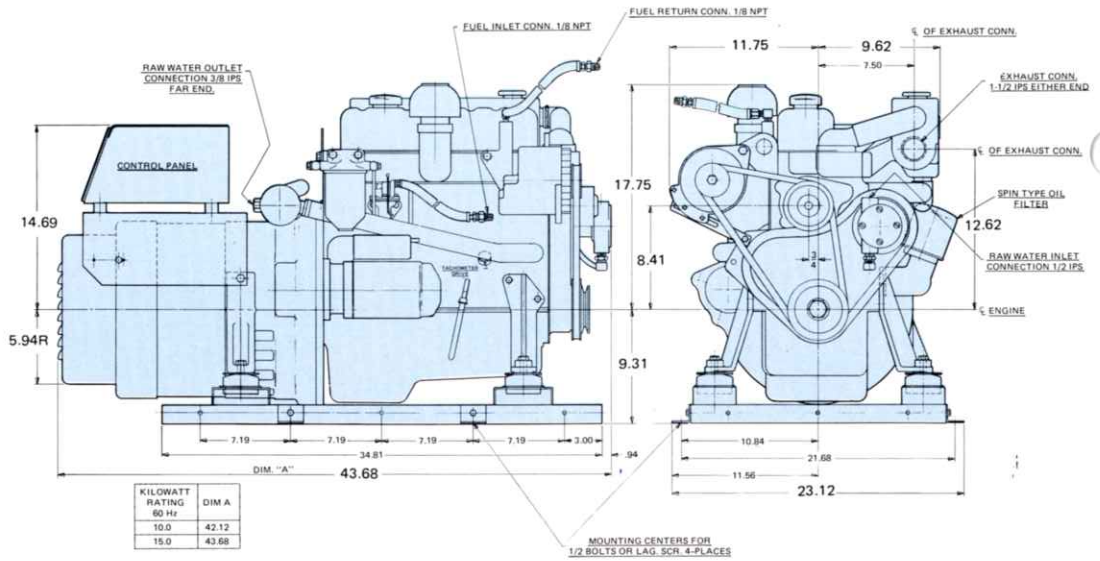
**Compression Ratio:** 22:1

**Power:** 27 hp at 1800 rpm

**Rated Output as Percent of Engine Power:**

10 kw 60%, 15 kw 88%

**Weight:** 10 kw 771 lbs.  
15 kw 827 lbs.



## 20 kw

### ENGINE:

**Type:** Diesel, 4 Cylinder in line, 4 Cycle

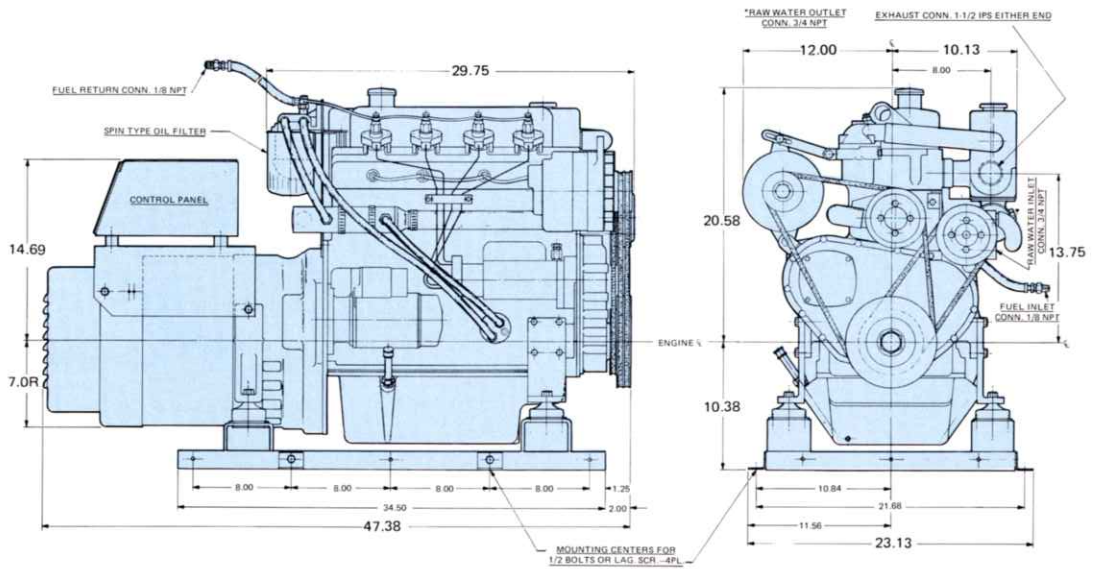
**Displacement:** 154 cu. in. Bore 3.5 in. Stroke 4 in.

**Compression Ratio:** 19.5:1

**Power:** 36 hp at 1800 rpm

**Rated Output as Percent of Engine Power:** 88%

**Weight:** 1062 lbs.



## 30 kw

### ENGINE:

**Type:** Diesel, 4 Cylinder in line, 4 Cycle

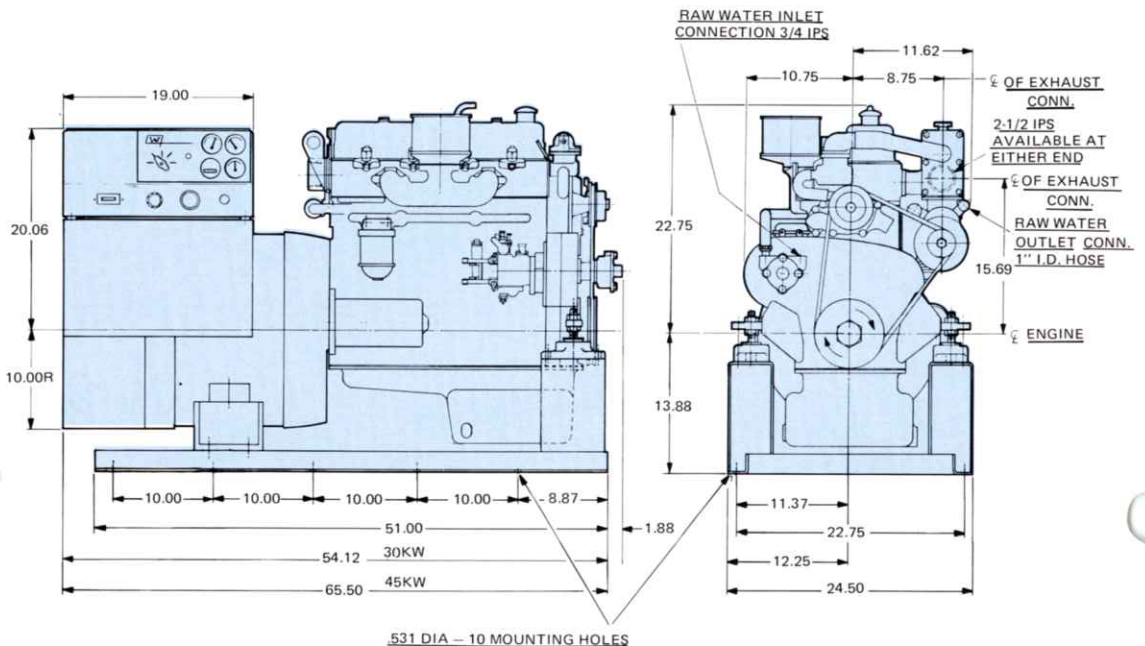
**Displacement:** 230.2 cu. in. Bore 3.86 in. Stroke 4.92 in.

**Compression Ratio:** 16.5:1

**Power:** 59 hp at 1800 rpm

**Rated Output as Percent of Engine Power:** 79%

**Weight:** 1550 lbs.



## 45 kw

### ENGINE:

**Type:** Diesel, 6 Cylinder in line, 4 Cycle

**Displacement:** 345.3 cu. in. Bore 3.86 in. Stroke 4.92 in.

**Compression Ratio:** 16.5:1

**Power:** 90 hp at 1800 rpm

**Rated Output as Percent of Engine Power:** 78%

**Weight:** 1965 lbs.

.531 DIA - 10 MOUNTING HOLES

## WESTERBEKE DEPENDABILITY

Brushless construction reduces generator maintenance and makes use of non-moving electronic circuits to regulate voltage output so that sudden severe load changes will not affect sensitive electronic equipment. Our reliable generator sets have been installed in many of the world's finest yachts and commercial vessels, providing shore-power convenience anywhere on the water. Important reasons for their selection include: light weight, compact size, quick unfailing starts, smooth and quiet operation, superior design, quality components, and excellent performance records. These performance records have been helped by the accessibility and ease of servicing the set. Westerbeke Generator Sets will add pleasure and dependability to any diesel powered vessel.

## STANDARD EQUIPMENT

Engine-generator assembly rubber-mounted on drip pan base, raw and fresh water pumps, heat exchanger engine mounted, surge tank included in fresh water cooled exhaust manifold . . . choice of exhaust connections; air intake silencer; lube oil pump; spin-on full flow lube oil filter; sump pump and hose; flexible fuel inlet and return hoses; primary and secondary fuel filters; fuel lift pump; fuel solenoid; precision governor; 12 volt starting motor; completely prewired engine control system including starter, ammeter, temperature and pressure instrumentation and safety shutoffs; brushless construction; completely detailed instruction book.

## ENGINES — GENERAL

**Type:** Diesel 4 Stroke Cycle

**Starting:** 12 volt positive engaging heavy-duty starting motor

**Fuel System:** Distributor type fuel pump with solenoid operated fuel valve

Fuel lift pump with hand primer, primary and secondary fuel filters

**Cooling System:** Fresh water, with pumps and heat exchanger mounted. Fresh water cooled exhaust manifold and surge tank combination

**Mounting:** Engine-generator assembly rubber mounted on integral drip pan to minimize vibration

**Fuel Consumption:** .09 gallon per kilowatt-hour

**Control:** Control panel engine-mounted or remote

## ALTERNATOR

**Output:** 10 kw, 15 kw, 20 kw, 30 kw or 45 kw as rated, for continuous operation

**Voltage:** 120/240 volt  $\pm$  1% for steady loads;  $\pm$  3% for 100% load changes

**Frequency:** 60 cycles governed to within  $\pm$  1½ cycles, no load to full load. 50 cycles available at reduced rating

**Phase:** Single, unity power factor. (Three phase, .8 power factor available)

**Current Options:** 120 or 120/240 volt. (A simple reconnection makes the change)

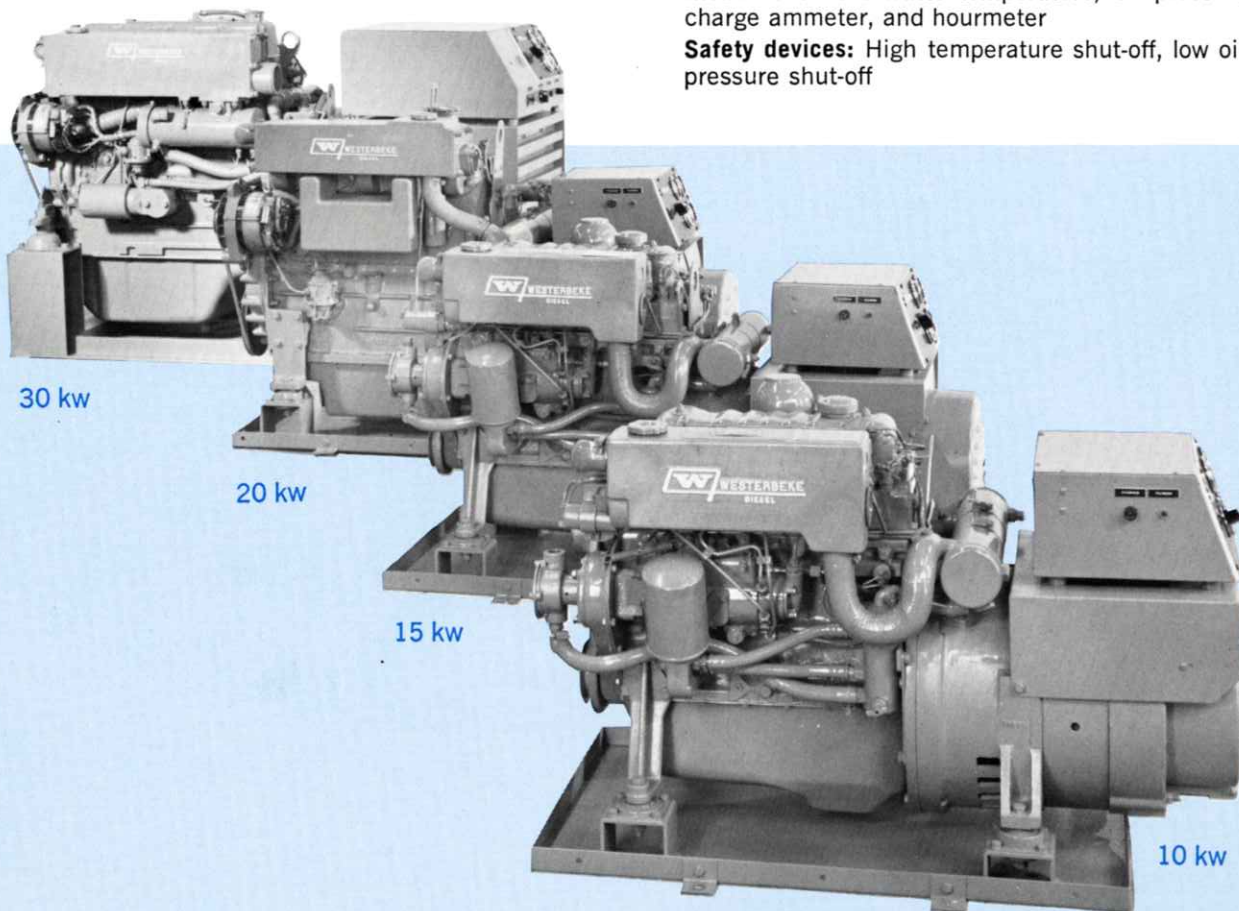
**Mounting:** Bolted directly to back of engine. Entire assembly is rubber mounted.

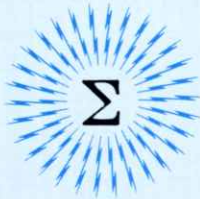
## CONTROLS

**Starter Control:** Dependable rotary start-stop switch on the set or at remote stations.

**Instrumentation:** Water temperature, oil pressure, battery charge ammeter, and hourmeter

**Safety devices:** High temperature shut-off, low oil pressure shut-off





## CUSTOM PRODUCTS DIVISION

Westerbeke Generators come with a long list of standard equipment, making them ideally suited for the majority of marine applications. However, specialized needs may require modification of the standard sets; a task easily accomplished by Westerbeke's Custom Product Division. Parallel operation, radiator or keel cooling, 50 cycle operation, extra alternators, 24 volt starting, are but a few of the

modifications that can be made to Westerbeke generators.

In addition, the Custom Products Division can design and manufacture complete power generating systems up to 1000 kilowatts in speed ranges of 900, 1200, or 1800 rpm and in various voltages. Please consult with the factory for details.

## OPTIONAL EQUIPMENT FOR GENERATORS

To complement Westerbeke Generators, a number of options are available, factory installed. A complete listing appears on the price and specification sheet for each model. A number of the more common accessories are shown below . . .



**Control Panel**  
This standard panel has a remote mountable face plate and a secondary panel is available for wheelhouse locations.



**Water Injected Exhaust Elbow**  
For water-cooled exhaust systems or installations using Westerbeke's Hydro Hush Muffler.



**Remote Control Switch**  
For Pilot House or Galley Mounting controls operation of the generator set. In addition to normal Start — Run — Stop function, there is a light emitting diode which glows red while generator is running.



**Hydro Hush Muffler**  
A stainless steel muffler for use on water lift exhaust systems. Fits 10, 15, and 20 kw generators.



**Fuel/Water Separator/Filter**  
Sediment bowl has water drain-off valve and contacts for high-water alarms.



**Ship-to-Shore Transfer Switch**  
120/240 volt, 3 wire, for use with 10, 15, 20, and 30 kw generators.

Although all descriptions and pictorial representations of the products herein are believed to be correct at the time of publication, accuracy cannot be guaranteed. The policy of J. H. Westerbeke Corporation, is one of continued improvement. Therefore, equipment, colors, materials and other specifications, model availability and prices are subject to change without notice or obligation.



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