













WUOLAH

Age Group	Percentage
18-24	100
25-34	90
35-44	80
45-54	70
55-64	60
65-74	50
75-84	40
85+	10



WATER

100





300

1

100

100

1000

1000 10

1000 1000 1000

1000 1000 1000

1000 1000 1000

1000 1000

1000 1000

1000 1000

1000

1000

1000

1000





90.0

80

70

60

50.0

40.0

30.0

10.0 1 20.0

10.0 1 20.0

10.0 1 20.0

10.0 1 20.0

10.0 1 20.0

10.0 1 20.0

10.0

0.00

0.00

0.00





1000

1500

1000

1500

1000

1500

1000

1500

1500

1500

1500

1500

1500

1500

1500

1500

1500





LOMBARDINI

SPICE & STRATTON
 1 Lombardini Drive, (Rt. 104)
 10000 Stratton, Ohio 44134
 Phone: (216) 885-0771 Telex: 500000 LOMBARDINI

5LD825-2/L



24 HP (22 kW) (max)

1000-2800 RPM



GROUP 1

Technical specifications subject to change without notice

Model		5LD825-2/L	
Cylinder		4	
Bore		75mm	2.9531 in.
Stroke		85mm	3.3465 in.
Displacement		2500 cc	152.31 cu in.
Compression ratio		16.5:1	
Max. speed		2800	
Weight	Net weight	125 kg	275.6 lb
	Gross weight	140 kg	308.6 lb
Max. torque		20.5 kg-m (150 ft-lb)	150.5 ft-lb (20.5 kg-m)
Cooling system		Water pump	Water pump
Oil pump		Oil pump	Oil pump
Fuel system		Injection	Injection

STANDARD INDUSTRIAL SPEC

Lombardini engines are designed and built to meet the most exacting standards of performance and reliability. They are built to last, and to provide the highest quality of service. They are built to last, and to provide the highest quality of service. They are built to last, and to provide the highest quality of service.

1000 RPM

1. The engine is designed to operate at 1000 RPM. It is not recommended to operate the engine at higher speeds.
2. The engine is designed to operate at 1000 RPM. It is not recommended to operate the engine at higher speeds.
3. The engine is designed to operate at 1000 RPM. It is not recommended to operate the engine at higher speeds.
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5. The engine is designed to operate at 1000 RPM. It is not recommended to operate the engine at higher speeds.



LOMBARDINI

BRIDGE & STRUTTON
 LOMBARDINI DIESEL, INC.
 10000 Highway 100, Suite 100
 Dallas, Texas 75243-2071, U.S.A. (214) 343-0100

25 TO 24 HP (44-8000)
 2000 TO 2200 RPM

MODEL 8LD 600-2

MODEL 8LD 865-2



Model		8LD 600-2	8LD 865-2
Capacity		600	865
Bore		100	110
Stroke		90	100
Displacement		590	865
Cylinder diameter		100	110
Stroke		90	100
Power kW	1500 RPM	100	130
	1800 RPM	110	140
Max. torque kg/cm ²	1500 RPM	1.80	2.20
	1800 RPM	1.80	2.20
Max. torque kg/cm ²		1.80	2.20
Max. torque kg/cm ²		1.80	2.20
Max. torque kg/cm ²		1.80	2.20
Max. torque kg/cm ²		1.80	2.20
Max. torque kg/cm ²		1.80	2.20
Max. torque kg/cm ²		1.80	2.20
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Max. torque kg/cm ²		1.80	2.20
Max. torque kg/cm ²		1.80	2.20
Max. torque kg/cm ²		1.80	2.20
Max. torque kg/cm ²		1.80	2.2



8 LD 340-2

3

50

50

1120

17.5 / 1

1000

99 / 33.0

13.0 / 33.0

10.0 / 24.0

100 (C) 3400

140 (C) 3000

140 (C) 3400

10

0.05

3.0

110



[illegible]

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Advantages of Reciprocating

- High compression ratio possible
- Wide range of capacity
- Wide range of operating pressure
- Simple design
- High efficiency at low capacity
- High efficiency at high capacity
- High efficiency at high pressure
- High efficiency at low pressure
- High efficiency at high temperature
- High efficiency at low temperature
- High efficiency at high speed
- High efficiency at low speed
- High efficiency at high pressure ratio
- High efficiency at low pressure ratio
- High efficiency at high capacity
- High efficiency at low capacity

Advantages of Centrifugal

- High compression ratio possible
- Wide range of capacity
- Wide range of operating pressure
- Simple design
- High efficiency at low capacity
- High efficiency at high capacity
- High efficiency at high pressure
- High efficiency at low pressure
- High efficiency at high temperature
- High efficiency at low temperature
- High efficiency at high speed
- High efficiency at low speed
- High efficiency at high pressure ratio
- High efficiency at low pressure ratio
- High efficiency at high capacity
- High efficiency at low capacity

Advantages of Screw

- High compression ratio possible
- Wide range of capacity
- Wide range of operating pressure
- Simple design
- High efficiency at low capacity
- High efficiency at high capacity
- High efficiency at high pressure
- High efficiency at low pressure
- High efficiency at high temperature
- High efficiency at low temperature
- High efficiency at high speed
- High efficiency at low speed
- High efficiency at high pressure ratio
- High efficiency at low pressure ratio
- High efficiency at high capacity
- High efficiency at low capacity

Advantages of Centrifugal

- High compression ratio possible
- Wide range of capacity
- Wide range of operating pressure
- Simple design
- High efficiency at low capacity
- High efficiency at high capacity
- High efficiency at high pressure
- High efficiency at low pressure
- High efficiency at high temperature
- High efficiency at low temperature
- High efficiency at high speed
- High efficiency at low speed
- High efficiency at high pressure ratio
- High efficiency at low pressure ratio
- High efficiency at high capacity
- High efficiency at low capacity

Capacity (m³/min)	Pressure Ratio	Efficiency (%)
100	1.5	85
200	1.5	85
300	1.5	85
400	1.5	85
500	1.5	85
600	1.5	85
700	1.5	85
800	1.5	85
900	1.5	85
1000	1.5	85
1100	1.5	85
1200	1.5	85
1300	1.5	85
1400	1.5	85
1500	1.5	85
1600	1.5	85
1700	1.5	85
1800	1.5	85
1900	1.5	85
2000	1.5	85
2100	1.5	85
2200	1.5	85
2300	1.5	85
2400	1.5	85
2500	1.5	85
2600	1.5	85
2700	1.5	85
2800	1.5	85
2900	1.5	85
3000	1.5	85
3100	1.5	85
3200	1.5	85
3300	1.5	85
3400	1.5	85
3500	1.5	85
3600	1.5	85
3700	1.5	85
3800	1.5	85
3900	1.5	85
4000	1.5	85
4100	1.5	85
4200	1.5	85
4300	1.5	85
4400	1.5	85
4500	1.5	85
4600	1.5	85
4700	1.5	85
4800	1.5	85
4900	1.5	85
5000	1.5	85
5100	1.5	85
5200	1.5	85
5300	1.5	85
5400	1.5	85
5500	1.5	85
5600	1.5	85
5700	1.5	85
5800	1.5	85
5900	1.5	85
6000	1.5	85
6100	1.5	85
6200	1.5	85
6300	1.5	85
6400	1.5	85
6500	1.5	85
6600	1.5	85
6700	1.5	85
6800	1.5	85
6900	1.5	85
7000	1.5	85
7100	1.5	85
7200	1.5	85
7300	1.5	85
7400	1.5	85
7500	1.5	85
7600	1.5	85
7700	1.5	85
7800	1.5	85
7900	1.5	85
8000	1.5	85
8100	1.5	85
8200	1.5	85
8300	1.5	85
8400	1.5	85
8500	1.5	85
8600	1.5	85
8700	1.5	85
8800	1.5	85
8900	1.5	85
9000	1.5	85
9100	1.5	85
9200	1.5	85
9300	1.5	85
9400	1.5	85
9500	1.5	85
9600	1.5	85
9700	1.5	85
9800	1.5	85
9900	1.5	85
10000	1.5	85



Capacity vs. Pressure Ratio

The capacity of a centrifugal compressor decreases as the pressure ratio increases. This is because the gas becomes denser as the pressure increases, and the volume of gas that can be compressed decreases. The graph shows that the capacity of a centrifugal compressor is highest at a pressure ratio of 1.0 and decreases as the pressure ratio increases. The capacity of a centrifugal compressor is also affected by the speed of the compressor. The capacity of a centrifugal compressor increases as the speed increases.

Capacity vs. Pressure Ratio

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HONDA LCI 300-2

2

50

50

750

1000 / 1

3000

100.0 / 10.0

100.0 / 10.0

10.0 / 10.0

1.50 @ 3000

1.50 @ 3000

1.00 @ 1500

1

3000

2.0

50



DIESEL 12 LD 475-2

15.8 kW / 21.5 HP



31 400.000

The 12 LD 475-2 is a diesel engine with a displacement of 12 liters. It is designed for use in various applications, including agricultural machinery, construction equipment, and industrial power generation. The engine features a robust cast iron block and head, and is equipped with a variety of accessories and options to meet specific requirements.

Lombardini 12 LD 475-2 is a diesel engine with a displacement of 12 liters. It is designed for use in various applications, including agricultural machinery, construction equipment, and industrial power generation. The engine features a robust cast iron block and head, and is equipped with a variety of accessories and options to meet specific requirements.

LOMBARDINI



Cellular Structure	Cellular Function
Cell wall	• Provides structural support and protection
Cell membrane	• Controls the movement of substances in and out of the cell
Nucleus	• Contains genetic material (DNA) and controls cell activities
Chloroplast	• Site of photosynthesis in plant cells
Mitochondrion	• Site of cellular respiration in animal cells
Endoplasmic reticulum	• Site of protein synthesis and transport
Golgi apparatus	• Site of protein modification and transport
Lysosome	• Site of cellular digestion and waste removal
Vacuole	• Site of storage and waste removal in plant cells
Centrioles	• Site of cell division in animal cells

Cellular Structure	Cellular Function
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Photosynthesis
The process by which plants use light energy to convert carbon dioxide and water into glucose and oxygen.

Factors affecting photosynthesis:
• Light intensity
• Carbon dioxide concentration
• Temperature
• Water availability

Cellular Respiration
The process by which cells break down glucose to release energy for use in various cellular activities.

Types of cellular respiration:
• Aerobic respiration (requires oxygen)
• Anaerobic respiration (does not require oxygen)



LBA 6P3

3

35

35

1500

1500 / 15

3000

20.0 / 26.0

15.0 / 20.0

12.0 / 16.0

8.00  1500

8.00  1500

100  1500

15.0

0.000

8.00

100



CARATTERISTICHE

Capacità cilindrata (cm³) 4990
Velocità massima (km/h) 100
Consumo (litri/ora) 18,5

Il motore Diesel LDW 502 FOGG è un motore Diesel a iniezione diretta, a 4 cilindri, a 4 valvole per cilindro, a 1000 cc. di cilindrata. È dotato di un sistema di iniezione a iniezione diretta, a 4 valvole per cilindro, a 1000 cc. di cilindrata. È dotato di un sistema di iniezione a iniezione diretta, a 4 valvole per cilindro, a 1000 cc. di cilindrata.

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Il motore Diesel LDW 502 FOGG è un motore Diesel a iniezione diretta, a 4 cilindri, a 4 valvole per cilindro, a 1000 cc. di cilindrata. È dotato di un sistema di iniezione a iniezione diretta, a 4 valvole per cilindro, a 1000 cc. di cilindrata. È dotato di un sistema di iniezione a iniezione diretta, a 4 valvole per cilindro, a 1000 cc. di cilindrata.

Velocità massima (km/h) 100
Consumo (litri/ora) 18,5



LDW 502 FOGG

EQUIPAGGIAMENTO STANDARD ACCESSORI FACOLTATIVI

1. Motori Diesel 2. Motori Benzina 3. Motori Elettrici 4. Motori a Gas 5. Motori a Vapore 6. Motori a Pila 7. Motori a Razzo 8. Motori a Reattore 9. Motori a Fusione 10. Motori a Fissione	1. Motori Diesel 2. Motori Benzina 3. Motori Elettrici 4. Motori a Gas 5. Motori a Vapore 6. Motori a Pila 7. Motori a Razzo 8. Motori a Reattore 9. Motori a Fusione 10. Motori a Fissione	1. Motori Diesel 2. Motori Benzina 3. Motori Elettrici 4. Motori a Gas 5. Motori a Vapore 6. Motori a Pila 7. Motori a Razzo 8. Motori a Reattore 9. Motori a Fusione 10. Motori a Fissione	1. Motori Diesel 2. Motori Benzina 3. Motori Elettrici 4. Motori a Gas 5. Motori a Vapore 6. Motori a Pila 7. Motori a Razzo 8. Motori a Reattore 9. Motori a Fusione 10. Motori a Fissione	1. Motori Diesel 2. Motori Benzina 3. Motori Elettrici 4. Motori a Gas 5. Motori a Vapore 6. Motori a Pila 7. Motori a Razzo 8. Motori a Reattore 9. Motori a Fusione 10. Motori a Fissione
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ACCESSORI A RICHIESTA ACCESSORI FACOLTATIVI

1. Motori Diesel 2. Motori Benzina 3. Motori Elettrici 4. Motori a Gas 5. Motori a Vapore 6. Motori a Pila 7. Motori a Razzo 8. Motori a Reattore 9. Motori a Fusione 10. Motori a Fissione	1. Motori Diesel 2. Motori Benzina 3. Motori Elettrici 4. Motori a Gas 5. Motori a Vapore 6. Motori a Pila 7. Motori a Razzo 8. Motori a Reattore 9. Motori a Fusione 10. Motori a Fissione	1. Motori Diesel 2. Motori Benzina 3. Motori Elettrici 4. Motori a Gas 5. Motori a Vapore 6. Motori a Pila 7. Motori a Razzo 8. Motori a Reattore 9. Motori a Fusione 10. Motori a Fissione	1. Motori Diesel 2. Motori Benzina 3. Motori Elettrici 4. Motori a Gas 5. Motori a Vapore 6. Motori a Pila 7. Motori a Razzo 8. Motori a Reattore 9. Motori a Fusione 10. Motori a Fissione	1. Motori Diesel 2. Motori Benzina 3. Motori Elettrici 4. Motori a Gas 5. Motori a Vapore 6. Motori a Pila 7. Motori a Razzo 8. Motori a Reattore 9. Motori a Fusione 10. Motori a Fissione
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LOMBARDINI

Marine



LOW 603M

LOMBARDINI, one of the largest engine manufacturers based in Italy, have designed the unique compact lightweight, independent, European Marine three-cylinder range, offering excellent power to weight ratio.

A compact, well-balanced engine range, with very low noise and vibration levels, and the cooling system developed for pleasure and very low running costs, due to Lombardini's unique lubrication system.

The 6000 Plus, European three-cylinder family of engines comply with both, CECS and ECE/EURO2 emission level standards, making this engine range one of the most environmentally friendly marine three-cylinder produced in Europe.

Five Feature Benefits of the LOW 603M are:

- Weight saving.
- Compact size (fits under the stern of this boat).
- Heat exchanger coated with hot water film all points.
- Anti-corrosion treatment.
- Stainless steel water injected exhaust valve.
- Cast-iron cylinder block.
- Monoblock stainless cylinder head.
- Forced lubrication with water pump on crankshaft.
- Fuel hose tube splitter.
- Indirect injection with rigid glow plug starting.

For more info

LDW 602M



MODEL LDW 602M SPECIFICATIONS

Number of Cylinders	3
Bore and Stroke	75x75
Rated Capacity	40 kW
Compression Ratio	17:1
Peak Mechanical Power	5.4
Engine max RPM	3600
Idle speed/min	450-550
Weight ex. Cooling	137 kg
Height	440 mm
Width	400 mm
Length	440 mm
Flange to Flange	300
Cooling	Heat Exchanger
Start	Electric
Rotation	Indirect
Installation Angle	15° max
Working Height	200 mm
Aluminum	40 mm
Steel Model	50 mm
Refrigerant/Refrigerant	10 mm
Refrigerant Recharge	100 mm



PERFORMANCE CURVES

1. Engine max power 5.4 kW
2. Engine max torque 10 kgm
3. Engine max speed 3600 RPM
4. Engine max RPM 3600
5. Engine max RPM 3600
6. Engine max RPM 3600
7. Engine max RPM 3600
8. Engine max RPM 3600
9. Engine max RPM 3600
10. Engine max RPM 3600

STANDARD EQUIPMENT

- Water separator
- Water pump
- Water separator
- Water separator
- Water separator
- Water separator
- Water separator
- Water separator
- Water separator
- Water separator

OPTIONAL ACCESSORIES

- Water separator
- Water separator
- Water separator
- Water separator
- Water separator
- Water separator
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- Water separator

SOLE U.S. IMPORTER

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ALTERNATIVE SOURCE



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