

### CHARACTERISTICS

Direct injection, 4 valves, direct injection

Rated and Gross Power	100/110
Rated and Gross Torque	30/32
Displacement	5.2 litres
Compression ratio	17.5
Number of valves per cylinder	4
Stroke (mm)	86
Stroke (inches)	3.39
Weight without water and oil	275 kg
Weight (with water and oil)	300 kg
Height	200 mm



### RATING

CLASS OF DUTY	SPEED rpm	POWER		CONSUMPTION	
		HP	kW	g/kwh	g/kwh
Propulsion use	1800	105	76	175	201
Auxiliary on board	1800	100	73	160	200
generator sets	1800	105	76	175	201

#### Maximum service fuel

ISO 22847 - 1997 0% standard  
 Propane: 1000 cc/gallon  
 Gasoline: 1000 cc/gallon  
 21°C

Water: 1000 cc/gal.

Oil:

Water: 1000 cc/gal.

Oil: 1000 cc/gal.

Full consumption: 175 g/kwh

Oil consumption: 20 g/kwh

Water consumption: 1000 cc/gal.

PROPELLANT TABLE

Injection system propulsion use	Injection gph	Use with 2000	Propane injection gph	Propane injection gph	Water injection gph	Oil injection gph
PROP	1.00 1.00 1.00	75 80 85	100 100 100	L	-	-
WATER	1.00 1.00 1.00	80 85 90	100 100 100	L	-	1000
PROP	1.00	80	100	L	1000	-

**CHARACTERISTICS OF DIFFERENT SYSTEMS**

<ul style="list-style-type: none"> <li>• <b>Fixed hydrocarbon circuit under pressure</b>                      (R410A/R32)                      Fixed circuit capacity                      Temperature stability low                      Maximum subcooling/liquid temperature                      Mass preservation key</li> </ul>	Fixed value 100% 100% 100%	100% 100%
<ul style="list-style-type: none"> <li>• <b>Variable circuit under pressure</b>                      Mechanical expansion pump</li> </ul>	100%	100%
<ul style="list-style-type: none"> <li>• <b>Subcooling at circuit</b>                      List of products of strong speed movement                      Speed characteristics                      Total oil capacity at max. level of liquid (percentage indicated)                      Number of oil separators for fine settings                      Oil separator(s)                      List of applications</li> </ul>	100% 100% 100% 100% 100% 100% 100%	100% 100%
<ul style="list-style-type: none"> <li>• <b>Fast circuit</b>                      Variable oil charge over valve                      Fast expansion pump with variable mechanism/piston</li> </ul>	100%	100%
<ul style="list-style-type: none"> <li>• <b>Refrigerant expansion</b>                      Double system valve characteristic                      Double expansion valve                      Double expansion/variable capacity (percentage, °C)                      Maximum with built-in separator automatic expansion valve</li> </ul>	100% 100%	100% 100%
<ul style="list-style-type: none"> <li>• <b>No return system</b>                      Number of strokes per fill</li> </ul>	100%	100%
<ul style="list-style-type: none"> <li>• <b>Return system</b>                      Circuit configuration                      Circuit design                      Maximum subcooling/pressure</li> </ul>	100% 100% 100%	100% 100%
<ul style="list-style-type: none"> <li>• <b>Maximum indications</b>                      1. Maximum pressure                      2. Maximum temperature                      3. Maximum subcooling                      4. Maximum oil level at set point</li> </ul>	100% 100% 100% 100%	100% 100%

**DIMENSIONS**

Model - gas	Approximate weight in kg without water and oil
1.5 kW (R410A) 2.5 kW (R410A) 3.5 kW (R410A)	1000 1000 1000

\*The dimensions of the units are described below.





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Code: 0100  
 REFERENCE: 14-1480  
 DISTRIBUTION: F

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 902100000

## 6 M 26 S

Modelo de motor de  
 arranque para  
 maquinaria

### CHARACTERISTICS

Overweight of shaft, shaft injection, lubrication bearings and gears (mm).....	142 x 140
Number of cylinders.....	2
Displacement.....	10,3 dm <sup>3</sup>
Cylinder bore (mm).....	72
Number of valves per cylinder.....	2
Crane model (ISO) with standard - mechanical and electric start.....	600 000 0
Maximum shaft speed (rpm).....	1500
Shaft torque.....	240 (with 12V)
Speed.....	



### STARTING

CLASS OF DUTY	SPEED rpm	POWER		CONSUMPTION	
		kW	HP	g/kwh	g/kwh
Population and	1500	200	270	180	200
Autarky on board	1500	200	270	180	200
generator sets	1500	200	270	180	200

64 mm bore, 140 mm stroke  
 1500 rpm - 1500 rpm standard  
 Crankshaft / 1000 mm (standard)  
 Crankshaft / 1000 mm (standard)  
 2V  
 Maximum torque 240 Nm  
 12V  
 Maximum speed 1500/1500  
 Consumption: 180/200 g/kwh  
 Fuel consumption: 180 g/kwh  
 Minimum speed: 1000/1500 rpm

### STARTING DATA TABLE

Maximum starting propulsion	Injection start	Low start 2 mm	Proposed starting value 2 mm	Proposed starting	Proposed starting value 2 mm
100%	0,20 0,21 0,22	0 0 0	100 100 100	0 0 0	- - 100
100%	0,20	100	100	1	100

**CHARACTERISTICS OF DIFFERENT SYSTEMS**

<b>1. Heating system (mixed circuit with pressure)</b> Single circuit Water temperature Thermostatic opening valve Temperature of water before temperature Water pressure at tap	Fresh water 90 70-80 80-90 0.2	0-100 0-100
<b>2. Hot water (mixed circuit with pressure)</b> Hot water tap water pump	90	0-100
<b>3. Lubricating oil circuit</b> Oil circulation at driving speed (minimum) Minimum oil pressure Temperature of oil after heat exchanger (intermediate) Maximum pressure at maximum flow (average) Minimum oil flow Oil temperature	0.2 0.2 80 1.0 60-70-80-90	0-100 0-100
<b>4. Fuel circuit</b> Fuel tank with change over valve Fuel injection pump (at "idle speed" mechanical pressure)	2	
<b>5. Electrical equipment</b> Electric system (voltage/alternator) Electric starting motor power Electric starting system (average/maximum amp. at 12V) Alternator voltage at regular and maximum engine speed (rpm)	24V 24V 24V 24	0-100 0-100
<b>6. Air intake system</b> Number air filters on the air intake (mechanical filter)	1 1.0	0
<b>7. Exhaust system</b> Exhaust gas temperature Exhaust gas flow Maximum exhaust back pressure	80 80 0.2	0-100 0-100
<b>8. Reverse circulation</b> Temperature water Temperature engine Exhausted system on each side	80-90 80-90 0.2	0-100 0-100

**DIMENSIONS**

Motor - gear	Approx. weight in kg without water intake
4 1/2 1000	100
4 1/2 1000 + 1000	

The dimensions of the units are described below.





INDUSTRIAL GROUP

# INFORMATIONS TECHNIQUES TECHNICAL INFORMATION INFORMACIONES TECNICAS

Model: **6M**  
 REFRIGERANT: **24-4000**  
 DESCRIPTION: **3**

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Model  
6M  
304

## 6 M 26 SR

Model number 6M 26 SR  
 6M 26 SR 26 SR 26 SR  
 6M 26 SR 26 SR 26 SR

### CHARACTERISTICS

Rated output 4 stroke, direct injection, turbocharged  
 Diesel, 2400 rpm  
 Bore and stroke (mm) ..... 102 x 110  
 Number of cylinders ..... 6  
 Displacement ..... 104 liter  
 Compression ratio ..... 16.7  
 Number of valves per cylinder ..... 4  
 Output (kW) @ 2400 rpm (ISO standard) ..... 100/100  
 Output (hp) ..... 136/136  
 Output (CV) @ 2400 rpm ..... 136/136  
 Output (CV) @ 2400 rpm ..... 136/136  
 Output (CV) @ 2400 rpm ..... 136/136



### RATING

CLASS GROUP	rpm	POWER		CONSUMPTION	
		kW	CV	g/kWh	g/kWh
Power unit intermediate	2400	100	136	190	210
Power unit intermediate	2400	110	149	190	210
Power unit intermediate	2400	110	149	190	210
Power unit intermediate	2400	110	149	190	210

### PARAMETERS

Efficiency: 38% (at 2400 rpm)  
 Efficiency: 38% (at 2400 rpm)  
 Efficiency: 38% (at 2400 rpm)  
 Efficiency: 38% (at 2400 rpm)  
 Efficiency: 38% (at 2400 rpm)  
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 Efficiency: 38% (at 2400 rpm)  
 Efficiency: 38% (at 2400 rpm)

### PROPULSION TABLE (CONTINUOUS RATING)

Engine model	Rated rpm	Rated Power (kW)	Rated Torque (Nm)	Rated Speed (km/h)	Rated Volume (m³/h)
6M 26 SR	2400	100	136	100	100
6M 26 SR	2400	100	136	100	100
6M 26 SR	2400	100	136	100	100
6M 26 SR	2400	100	136	100	100

**LEASING (ENGINE EQUIPMENT - CONTINUOUS RATING)**

<b>1</b> Working system (total rated under pressure) Engine rated by Manufacturer's rating Manufacturer's rating Manufacturer's rating Manufacturer's rating	Fuel/air ratio 17.5 18.5 18.5 18.5	8000 8000 8000 8000
<b>2</b> No water (waterproof system) Challenge for water pump	18	8000
<b>3</b> Lubrication system Lubrication system (continuous) Lubrication system Lubrication system (total of 2 stages) Lubrication system (total of 2 stages) Lubrication system Lubrication system	18 18 18 18 18 18 18	8000 8000 8000 8000 8000 8000 8000
<b>4</b> Fuel system Fuel system (continuous) Fuel system (total of 2 stages)	18	8000
<b>5</b> Electrical equipment Electrical equipment Electrical equipment Electrical equipment (total of 2 stages) Electrical equipment (total of 2 stages)	18 18 18 18 18	8000 8000 8000 8000 8000
<b>6</b> Air intake system Air intake system Air intake system (total of 2 stages)	18 18 18	8000 8000 8000
<b>7</b> Exhaust system Exhaust system Exhaust system Exhaust system (total of 2 stages)	18 18 18 18	8000 8000 8000 8000
<b>8</b> Hydraulic system Hydraulic system Hydraulic system Hydraulic system (total of 2 stages)	18 18 18 18	8000 8000 8000 8000

**CONNECTIONS**

Engine configuration	Rated weight in kg (max. weight in kg)
4 CYLINDER (1000)	1000
6 CYLINDER (1000)	1000

The structure of the unit is detailed below.





DELTA  
TECHNICAL INFORMATION

DELTA - 2000

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Code: 0000  
 Designation: JA - 1400  
 Identification: 0

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## 8 M 26 SR

Product group: 0000  
 Product: 0000000000  
 Product code:

### CHARACTERISTICS

Direct injection 4 stroke, Diesel engine, turbocharged, cooled, 8000 RPM.

Maximum power (kW)	100x100
Number of cylinders	4
Displacement	21.100cc
Compression ratio	14.5
Number of valves per cylinder	4
Engine speed (RPM) standard	2000/2200
Max speed	4000 RPM
Maximum torque (Nm)	210x10
Oil sump capacity	10.00
Weight	40



### PERFORM

CLASS CATEGORY	RPM	POWER		CONSUMPTION	
		HP	CV	g/kWh	g/kWh
Medium duty intermediate	1800	100	100	180	170
Medium duty	1800	100	100	180	170
Medium duty intermediate	1800	100	100	180	170
Medium duty intermediate	1800	100	100	180	170

### MAJOR DIMENSIONS

1800x1800 - 1800x2000  
 1800x1800 - 1800x2000  
 1800x1800 - 1800x2000  
 1800x1800 - 1800x2000

1800x1800 - 1800x2000  
 1800x1800 - 1800x2000  
 1800x1800 - 1800x2000  
 1800x1800 - 1800x2000  
 1800x1800 - 1800x2000

### PROPORTION TABLE (CONTINUOUS PERFORM)

Maximum power (kW)	Power (kW)	Speed (RPM)	Engine rotation (RPM)	Power (kW)	Speed (RPM)
100	0.100	100	100		
100	0.200	100	100	0	
100	0.300	100	100		
100	0.400	100	100	0	100
100	0.500	100	100		
100	0.600	100	100	0	100
100	0.700	100	100		
100	0.800	100	100	0	100
100	0.900	100	100		
100	1.000	100	100		







# INFORMATIONS TECHNIQUES TECHNICAL INFORMATION INFORMACIONES TECNICAS

**Date:** 2000  
**REVISION:** 04 - 1999  
**DRAWING:** 0

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**12 M 25 S**  
 MOTOR

**12 M 25 S**

**PROCESSIONAL**  
 PRODUCTION

## CHARACTERISTICS

Total weight with alternator (submerged)  
 Base and 12000 mm ..... 190,5 kg  
 Number of cylinders ..... 12  
 Displacement ..... 2174 cm<sup>3</sup>  
 Compression ratio ..... 17:1  
 Cooling system ..... Water  
 Lubrication system ..... Dry sump  
 Engine speed (RPM) 2000/min ..... 1500 rpm  
 Stroke without water spray ..... 180 mm  
 Stroke timing ..... 180 mm  
 Cycle ..... 4:1



## RATING

CLASS OF WORK	SPEED rpm	POWER		CONSUMPTION	
		HP	kW	g/kWh	g/kWh
Regulation work	1500	900	660	320	200
Auxiliary work	1500	900	660	310	190
generator work	1500	900	660	300	180

Fuel grade: 90 Fuel Index  
 Oil: 10W/30 - min. oil quantity  
 Protection: Water spray protection  
 Protection: Automatic oil draining  
 Oil  
 Cooling fan: 20%  
 Oil  
 Cooling device: 1000/1000  
 Control panel: 1000/1000  
 Fuel consumption: 3.5 kg/h  
 Oil consumption: 0.2 kg/h (normal operation)

## PRODUCTION TABLE

Stroke rate without generator work	Production gpm	Use class at sea	Propeller rotational speed RPM	Propeller radius	Stroke rotational speed RPM
150	0.85	110	1300	0	-
	0.85	120	1300	0	1300
	0.85	130	1300	0	1300
1500 RPM	5.70	150	1700	1	1700
900	0.90	150	1300	0	1300





# INFORMATIONS TECHNIQUES TECHNICAL INFORMATION INFORMACIONES TECNICAS

Size : 600  
 REACTION : JA - LAMB  
 DISTRIBUTION : 2

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## 12 M 26 SR

12 M 26 SR  
 12 M 26 SR  
 12 M 26 SR

### CHARACTERISTICS

Clearance engine 4 stroke, direct injection, water-cooled, rotary with oil cooler.

Power with oil cooler	1000 CV
Number of cylinders	12
Compression ratio	23.2/1
Compression ratio	1.9
Number of lubrication systems	4
Engine speed (rpm) 1200/1500	1200/1500
Weight (kg)	400/450
Weight without water and oil	300/350
Installed loading	1400
Features	10



### RATING

CLASS OF RATED ENGINE ONLY	rpm (min-1)	POWER		CONSUMPTION	
		HP	kW	g/kWh	g/kWh
Propulsion RC without oil	1500	100	73	190	170
Rated with oil	1500	100	73	190	170
Propulsion RC with oil	1500	100	73	190	170
Maximum 100 CV at maximum rpm (1500 rpm)	1500	100	73	190	170

#### Rating Conditions

Sea level - 1013 hPa ambient  
 Pressure - 40°C/104°F ambient  
 Humidity - 70% relative humidity  
 I.C.V.  
 Engine speed 1500  
 Compression ratio  
 Specific gravity 0.85  
 Specific power - 6000 w/kg  
 Specific consumption - 170 g/kWh  
 Oil consumption - 1.5% of fuel consumption

### PROPULSION TABLE RC (CONTINUOUS RATING)

Maximum installed propulsion and	Engine rpm	Use shaft rpm	Propeller installed value Ø mm	Propeller rotation	Shaft installed value Ø mm
E30 271	1.50	150	1000	R	1000
	1.50	150	1000	R	
E30 301	1.50	150	1070	R	1000
	1.50	150	1070	R	
E30 371	1.50	150		L	1000
	1.50	150		L	
E30 401	1.50	150		L	1000
	1.50	150		L	

**TECHNICAL DATA (CONTINUED) - CONTINUOUS RATING**

<b>• Cooling system (air-cooled) under pressure:</b> Organized in Water circuit capacity Maximum capacity (see Maximum rated water inlet temperature Water pressure (bar)	Flow rate	
	100	100
	17.5 (3)	17.5 (3)
	30 (1.5)	30 (1.5)
	2.0	2.0
<b>• Seawater circuit (seawater):</b> Cooling/heat exchanger	10	10 (1)
<b>• Lubricating oil circuit:</b> Lit of product cooling speed (minimum) Maximum temperature Total oil capacity (litre) (level of liquid) (approximate) (indicated) Capacity of oil separator (litre) (average) Oil separator type Lit of oil separator	0.5	0.5
	100	100
	100	100
	100	100
	100	100
	see 17 (table)	
<b>• Fuel circuit:</b> Fuel tank oil capacity (litre) Fuel capacity (litre) with 100% mechanical pressure	0	
<b>• Electrical equipment:</b> Control system (remote available) Control (remote) (available) Maximum surge (continuous) capacity (continuous) (kW) Maximum oil flow (maximum) (continuous) (litre/minute) (approximate)	20	100
	0	0
	100	100
	100	100
	100 (1.5) (3) - 30 (1)	
<b>• Air intake system:</b> Maximum pressure (bar) (air) Air intake pressure (bar) (air)	1	10
	1.5	10
<b>• Exhaust system:</b> Exhaust gas temperature Exhaust gas flow Maximum exhaust back pressure	100	100 (1)
	100	100 (1)
	100	100 (1)
<b>• Maximum indications:</b> Continuous flow Maximum flow Maximum surge Maximum surge (continuous)	10	100 (1)
	10	100 (1)
	10	100 (1)
	10	100 (1)

**DIMENSIONS**

Engine and gearbox	Approximate weight in kg without water and oil
1000 cc (6) - 1000 cc (1)	1000
1000 cc (6) - 1000 cc (1)	1000
1000 cc (6) - 1000 cc (1)	1000

\*No dimensions other than the manufacturer's

