

# Marine Products Guide

 **MOTEURS**  
**Baudouin**



For almost a century, Moteurs Baudouin is the power generation specialist for the marine and inland shipping sectors.

Supported by our historical marine spirit our business integrates the design, manufacturing, distribution and service of marine mechanical and electrical power solutions offering to our customers optimized investment, and operational savings.

Moteurs Baudouin offers a comprehensive range of propulsion solutions constituted with high speed marine diesel engines, and supplemented with marine diesel generators and auxiliary drives. We are thus pursuing our long term relationship policy by offering to Ship Owners, Shipping Companies and Shipyards, performing, durable and economic products whilst being environment friendly.

Our products and service in brief:

- Marine propulsion systems from 100 to 1214 kW
- Marine diesel generators from 60 to 950 kW
- Sales and service authorized distributors in over 95 countries

For more information about Moteurs Baudouin marine solutions, please visit our website:

[www.moteurs-baudouin.com](http://www.moteurs-baudouin.com)



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**ISO 9001 : 2008**

**BUREAU VERITAS**  
Certification



**Certificat n° : FR015055-1**  
**Affaire n° : 6085438**

# EMISSION, REGULATION, CERTIFICATION

## IMO emission

To reduce the pollution released from marine diesel engines, the International Maritime Organization drew up the MARPOL 73/78 Annex VI: Prevention of air pollution from ships, and it was passed in September 1997.

As a result, the regulation of NOx emission levels began for marine diesel engines with a power of above 130 kW on vessels built on or after January 1, 2000, referred to as IMO Tier I.

In October 2008, the Marine Environment Protection Committee (MEPC) of IMO adopted amendments to the MARPOL Annex VI regulations, the engines mounted in vessels built on or after January 1, 2011 face even stricter Tier II regulations. According to a speed-dependent function, about 20% NOx is reduced from IMO Tier levels.

| Tier     | Date        | Nox limit (g/kW.h) |                        |               |
|----------|-------------|--------------------|------------------------|---------------|
|          |             | $n^* < 130$        | $130 \leq n \leq 2000$ | $n \geq 2000$ |
| Tier I   | 2000        | 17                 | $45 \times n^{-02}$    | 9.8           |
| Tier II  | 2011        | 14.4               | $44 \times n^{-023}$   | 7.7           |
| Tier III | in progress | 3.4                | $9 \times n^{-02}$     | 1.96          |

$n^*$ : rpm

## EU regulation

### EU regulation commercial craft directive 97/68/EC

The directive regulates exhaust emissions from various mobile machinery in the European Community (EC) area. After January 1, 2007, this directive covered all propulsion and auxiliary engines used aboard inland waterway vessels. The directive contains a phased implementation based upon per cylinder displacement and application of the subject engine.

## CCNR regulation

CCNR Central Commission for the Navigation of the Rhine implemented its stage II emissions regulation for diesel engines in July 2007. This regulation is only effective for engines with a rated power at or above 37 kW. In an amendment to the CCNR regulation, according to the EU directives, EC type certification is considered equal to the CCNR's stage II certification. Therefore engines certified to the non-road mobile machinery directive (97/68/EC) will be accepted without direct certification to the CCNR regulation.



## Stage III A standard for inland waterway vessels

| Category | Displacement (D)<br>dm <sup>3</sup> per cylinder | Date    | CO | NOx + HC<br>g/kWh | PM   |
|----------|--------------------------------------------------|---------|----|-------------------|------|
| V1:1     | $D \leq 0.9, P > 37 \text{ kW}$                  | 2007.01 | 5  | 7.5               | 0.4  |
| V1:2     | $0.9 < D \leq 1.2$                               |         | 5  | 7.2               | 0.3  |
| V1:3     | $1.2 < D \leq 2.5$                               |         | 5  | 7.2               | 0.2  |
| V1:4     | $2.5 < D \leq 5$                                 |         | 5  | 7.2               | 0.2  |
| V2:1     | $5 < D \leq 15$                                  | 2009.01 | 5  | 7.8               | 0.27 |
| V2:2     | $15 < D \leq 20, P \leq 3300 \text{ kW}$         |         | 5  | 8.7               | 0.5  |
| V2:3     | $15 < D \leq 20, P > 3300 \text{ kW}$            |         | 5  | 9.8               | 0.5  |
| V2:4     | $20 < D \leq 25$                                 |         | 5  | 9.8               | 0.5  |
| V2:5     | $25 < D \leq 30$                                 |         | 5  | 11                | 0.5  |

### Classification societies

Moteurs Baudouin designs and builds marine products in compliance with the strictest safety standards. Moteurs Baudouin obtains type approvals from major marine classification societies worldwide including:

- American Bureau of Shipping (ABS)
- Bureau Veritas (BV)
- China Classification Society (CCS)
- Det Norske Veritas (DNV)
- Germanischer Lloyd (GL)
- Korean Register of Shipping (KRS)
- Lloyd's Register (LR)
- Register Italiano Navale (RINA)
- Russian Maritime Register of Shipping (RMRS)
- Russian River Register (RRR)
- Turkish Lloyd (TL)

### Type approval list

|         | ABS | BV | CCS | DNV | GL | KRS | LR | RINA | RMRS | RRR | TL |
|---------|-----|----|-----|-----|----|-----|----|------|------|-----|----|
| 4W105   |     |    |     |     |    |     |    |      |      |     |    |
| 6W105   |     |    |     |     |    |     |    |      |      |     |    |
| 6M16    |     |    |     |     |    |     |    |      |      |     |    |
| 6W126   |     |    |     |     |    |     |    |      |      |     |    |
| 6M19.3  |     |    |     |     |    |     |    |      |      |     |    |
| 6M26.2  |     |    |     |     |    |     |    |      |      |     |    |
| 8M26.2  |     |    |     |     |    |     |    |      |      |     |    |
| 12M26.2 |     |    |     |     |    |     |    |      |      |     |    |
| 6M26.3  |     |    |     |     |    |     |    |      |      |     |    |
| 12M26.3 |     |    |     |     |    |     |    |      |      |     |    |

PREVIEW

For more information on emission or certification, please contact your local Moteurs Baudouin distributor.

# RATING GUIDELINES

**Power definition** (Standard ISO 3046/1 – 1995 F - Units are metric)

## Reference conditions

|                       |               |
|-----------------------|---------------|
| Ambient temperature   | 25 °C / 77 °F |
| Barometric pressure   | 100 kPa       |
| Relative humidity     | 30 %          |
| Raw water temperature | 25 °C / 77 °F |

## Fuel oil

|                         |               |
|-------------------------|---------------|
| Relative density        | 0,840 ± 0,005 |
| Lower calorific power   | 42 700 kJ/kg  |
| Consumption tolerances  | 0 ± 5 %       |
| Inlet limit temperature | 35 °C / 95 °F |

Our ratings also comply with classification societies maximum temperature definition without power derating.

|                       |                |
|-----------------------|----------------|
| Ambient temperature   | 45 °C / 113 °F |
| Raw water temperature | 32 °C / 90 °F  |

## Propulsion engines

### Power class

### Definition

|    |                   |                                                                                                                  |
|----|-------------------|------------------------------------------------------------------------------------------------------------------|
| P1 | Continuous duty   | Unrestricted continuous with full load<br>80 to 100% load factor<br>Operating time from 5000 to 7000 hrs/year    |
| P2 | Heavy duty        | Continuous with load variation<br>30 to 80% load factor<br>Operating time from 3000 to 5000 hrs/year             |
| P3 | Intermittent duty | Intermittent with important load variation<br>50% load factor<br>Operating time from 1000 to 3000 hrs/year       |
| P4 | Light duty        | High performance with very important load variation<br>30% load factor<br>Operating time less than 1000 hrs/year |

## Generator sets and auxiliary engines

### Power class

### Definition

|     |                  |                                                                                                                                    |
|-----|------------------|------------------------------------------------------------------------------------------------------------------------------------|
| COP | Continuous power | Operating time is unlimited per year<br>Unrestricted load variation<br>Unrestricted running time<br>10% overload 1 hr/12 hrs       |
| PRP | Prime power      | Unrestricted running time<br>Time at full load ≤ 500 hrs / year<br>Load variation ≤ 75% of rated power<br>10% overload 1 hr/12 hrs |

\* kW COP = kW PRP unless otherwise specified

# PRODUCTS LISTING

## Marine propulsion engines

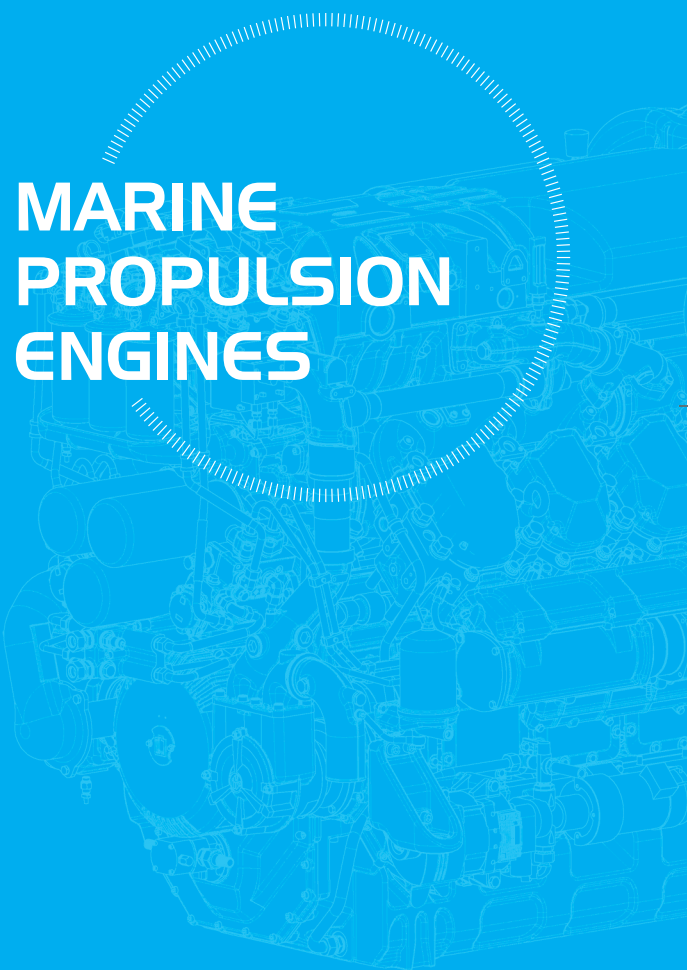
| <b>KW</b> | <b>HP</b> | <b>RPM</b> | <b>Engine model</b> | <b>Rating</b> | <b>Page</b> |
|-----------|-----------|------------|---------------------|---------------|-------------|
| 136       | 185       | 2100       | 6 W105M             | P2            | 10          |
| 168       | 228       | 2425       | 6 W105M             | P3            | 10          |
| 185       | 252       | 2500       | 6 W105M             | P4            | 10          |
| 264       | 360       | 2100       | 6 M16               | P2            | 11          |
| 294       | 400       | 1800       | 6 W126M             | P1            | 12          |
| 331       | 450       | 1800       | 6 M19.3             | P1            | 13          |
| 331       | 450       | 1800       | 6 M26.2             | P1            | 14          |
| 331       | 450       | 2100       | 6 W126M             | P2            | 12          |
| 368       | 500       | 1800       | 6 M26.2             | P1            | 14          |
| 368       | 500       | 2100       | 6 M19.3             | P2            | 13          |
| 404       | 550       | 1600       | 6 M26.3             | P1            | 15          |
| 404       | 550       | 1900       | 6 M26.2             | P2            | 14          |
| 404       | 550       | 2100       | 6 M19.3             | P3            | 13          |
| 425       | 578       | 2200       | 6 M19.3             | P4            | 13          |
| 441       | 600       | 1800       | 6 M26.3             | P1            | 15          |
| 441       | 600       | 1950       | 6 M26.2             | P2            | 14          |
| 485       | 660       | 1800       | 6 M26.3             | P2            | 15          |
| 491       | 668       | 1800       | 8 M26.2             | P1            | 16          |
| 515       | 700       | 2000       | 6 M26.3             | P2            | 15          |
| 539       | 733       | 1900       | 8 M26.2             | P2            | 16          |
| 551       | 750       | 2100       | 6 M26.3             | P2            | 15          |
| 588       | 800       | 1950       | 8 M26.2             | P2            | 16          |
| 599       | 815       | 2100       | 6 M26.3             | P3            | 15          |
| 662       | 900       | 1800       | 12 M26.2            | P1            | 17          |
| 736       | 1000      | 1800       | 12 M26.2            | P1            | 17          |
| 808       | 1100      | 1600       | 12 M26.3            | P1            | 18          |
| 808       | 1100      | 1900       | 12 M26.2            | P2            | 17          |
| 883       | 1200      | 1800       | 12 M26.3            | P1            | 18          |
| 883       | 1200      | 1950       | 12 M26.2            | P2            | 17          |
| 970       | 1320      | 1800       | 12 M26.3            | P2            | 18          |
| 1030      | 1400      | 2100       | 12 M26.3            | P2            | 18          |
| 1104      | 1500      | 2200       | 12 M26.3            | P2            | 18          |
| 1214      | 1650      | 2300       | 12 M26.3            | P3            | 18          |

**Marine generator sets PRP ratings**

| kWe            | RPM  | Frequency | Engine model | Page    |
|----------------|------|-----------|--------------|---------|
| 68             | 1500 | 50        | 4 W105S      | 20      |
| 84             | 1800 | 60        | 4 W105S      | 20      |
| 120            | 1500 | 50        | 6 W105S      | 21      |
| 136            | 1800 | 60        | 6 W105S      | 21      |
| 272            | 1500 | 50        | 6 W126S      | 22      |
| 280            | 1800 | 60        | 6 W126S      | 22      |
| 320            | 1500 | 50        | 6 M19.3      | 23      |
| 360            | 1800 | 60        | 6 M19.3      | 23      |
| 416            | 1500 | 50        | 6 M26.2      | 24      |
| 436            | 1800 | 60        | 6 M26.2      | 24      |
| 836            | 1500 | 50        | 12 M26.2     | 25      |
| 872            | 1800 | 60        | 12 M26.2     | 25      |
| 413 to 475 kWe |      |           | 6 M26.3      | PREVIEW |
| 827 to 950 kWe |      |           | 12 M26.3     |         |

**Auxiliary marine engines PRP ratings**

| kW  | RPM  | Frequency | Engine model | Page |
|-----|------|-----------|--------------|------|
| 75  | 1500 | 50        | 4 W105S      | 28   |
| 92  | 1800 | 60        | 4 W105S      | 28   |
| 129 | 1500 | 50        | 6 W105S      | 29   |
| 145 | 1800 | 60        | 6 W105S      | 29   |
| 290 | 1500 | 50        | 6 W126S      | 30   |
| 300 | 1800 | 60        | 6 W126S      | 30   |
| 339 | 1500 | 50        | 6 M19.3      | 31   |
| 355 | 1500 | 50        | 6 M26.2      | 32   |
| 368 | 1800 | 60        | 6 M26.2      | 32   |
| 380 | 1800 | 60        | 6 M19.3      | 31   |
| 473 | 1500 | 50        | 8 M26.2      | 33   |
| 491 | 1800 | 60        | 8 M26.2      | 33   |
| 710 | 1500 | 50        | 12 M26.2     | 34   |
| 736 | 1800 | 60        | 12 M26.2     | 34   |

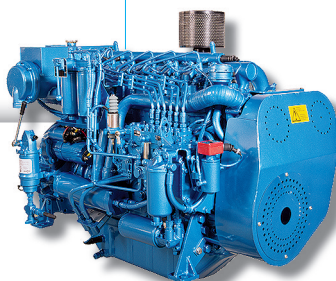


# MARINE PROPULSION ENGINES



# 6 W105M

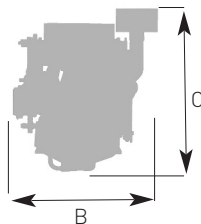
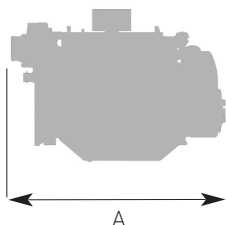
|                     |                  |
|---------------------|------------------|
| Number of cylinders | 6 in line        |
| Bore and stroke     | 105 x 130 mm     |
| Total displacement  | 6.75 l           |
| Engine rotation     | counterclockwise |
| Idle speed          | 650 rpm          |
| Flywheel housing    | SAE 3            |
| Flywheel            | SAE 11.5"        |



| Rating | kW  | Hp  | rpm  | g/kWh | l/h | IMO |
|--------|-----|-----|------|-------|-----|-----|
| P2     | 136 | 185 | 2100 | 211   | 34  | II  |
| P3     | 168 | 228 | 2425 | 216   | 43  | II  |
| P4     | 185 | 252 | 2500 | 226   | 50  | -   |

## Main dimensions and weight (mm/kg)

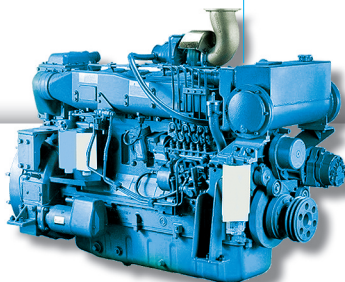
| A    | B   | C    | Weight |
|------|-----|------|--------|
| 1417 | 885 | 1076 | 810    |



# 6 M16

|                     |                  |
|---------------------|------------------|
| Number of cylinders | 6 in line        |
| Bore and stroke     | 126 x 130 mm     |
| Total displacement  | 9.70 l           |
| Engine rotation     | counterclockwise |
| Idle speed          | 650 rpm          |
| Flywheel housing    | SAE 1            |
| Flywheel            | SAE 14"          |

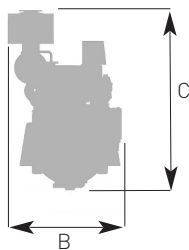
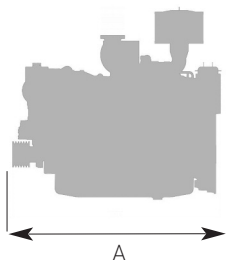
Marine propulsion engines



| Rating | kW  | Hp  | rpm  | g/kWh | IMO |
|--------|-----|-----|------|-------|-----|
| P2     | 264 | 360 | 2100 | 210   | II  |

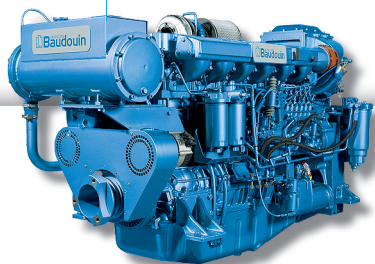
## Main dimensions and weight (mm/kg)

| A    | B   | C    | Weight |
|------|-----|------|--------|
| 1514 | 878 | 1381 | 1056   |



# 6 W126M

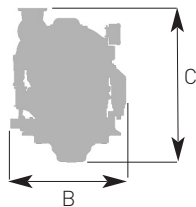
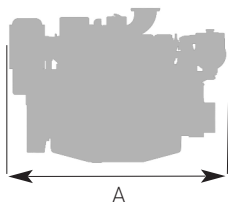
|                     |                  |
|---------------------|------------------|
| Number of cylinders | 6 in line        |
| Bore and stroke     | 126 x 155 mm     |
| Total displacement  | 11.60 l          |
| Engine rotation     | counterclockwise |
| Idle speed          | 600 rpm          |
| Flywheel housing    | SAE 1            |
| Flywheel            | SAE 14"          |



| Rating | kW  | Hp  | rpm  | g/kWh | l/h | IMO | CCNR |
|--------|-----|-----|------|-------|-----|-----|------|
| P1     | 294 | 400 | 1800 | 200   | 70  | II  | II   |
| P2     | 331 | 450 | 2100 | 210   | 83  | II  | II   |

## Main dimensions and weight (mm/kg)

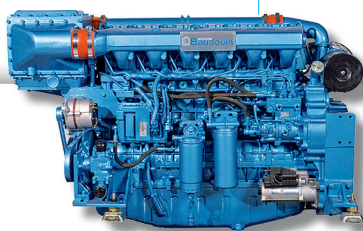
| A    | B   | C    | Weight |
|------|-----|------|--------|
| 1695 | 883 | 1128 | 1200   |



# 6 M19.3

|                     |                  |
|---------------------|------------------|
| Number of cylinders | 6 in line        |
| Bore and stroke     | 126 x 155 mm     |
| Total displacement  | 11.60 l          |
| Engine rotation     | counterclockwise |
| Idle speed          | 600 rpm          |
| Flywheel housing    | SAE 1            |
| Flywheel            | SAE 14"          |

Common-rail injection

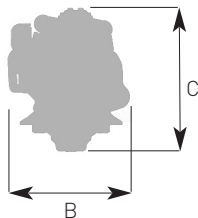
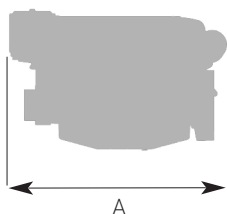


Marine propulsion engines

| Rating | kW  | Hp  | rpm  | g/kWh | l/h | IMO | CCNR |
|--------|-----|-----|------|-------|-----|-----|------|
| P1     | 331 | 450 | 1800 | 199   | 78  | II  | II   |
| P2     | 368 | 500 | 2100 | 205   | 90  | II  | II   |
| P3     | 404 | 550 | 2100 | 209   | 101 | II  | II   |
| P4     | 425 | 578 | 2200 | 218   | 110 | II  | II   |

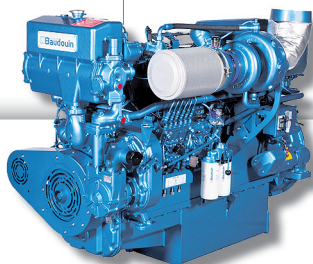
## Main dimensions and weight (mm/kg)

| A    | B    | C    | Weight |
|------|------|------|--------|
| 1665 | 1021 | 1091 | 1200   |



# 6 M26.2

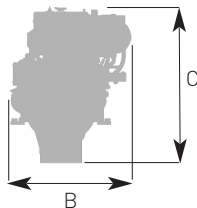
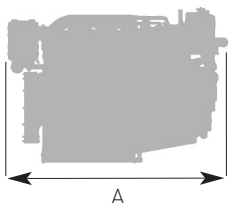
|                     |                  |
|---------------------|------------------|
| Number of cylinders | 6 in line        |
| Bore and stroke     | 150 x 150 mm     |
| Total displacement  | 15.90 l          |
| Engine rotation     | counterclockwise |
| Idle speed          | 700 rpm          |
| Flywheel housing    | SAE 1            |
| Flywheel            | SAE 14"          |



| Rating | kW  | Hp  | rpm  | g/kWh | l/h | IMO | CCNR | CE97/68 |
|--------|-----|-----|------|-------|-----|-----|------|---------|
| P1     | 331 | 450 | 1800 | 198   | 78  | II  | II   | IIIA    |
| P1     | 368 | 500 | 1800 | 205   | 90  | II  | II   | IIIA    |
| P2     | 404 | 550 | 1900 | 209   | 101 | II  | II   | IIIA    |
| P2     | 442 | 600 | 1950 | 211   | 111 | II  | -    | -       |

## Main dimensions and weight (mm/kg)

| A    | B    | C    | Weight |
|------|------|------|--------|
| 1880 | 1144 | 1348 | 1785   |



# 6 M26.3

|                     |                  |
|---------------------|------------------|
| Number of cylinders | 6 in line        |
| Bore and stroke     | 150 x 150 mm     |
| Total displacement  | 15.90 l          |
| Engine rotation     | counterclockwise |
| Idle speed          | 700 rpm          |
| Flywheel housing    | SAE 1            |
| Flywheel            | SAE 14"          |

Common-rail injection

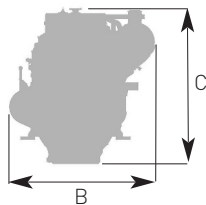
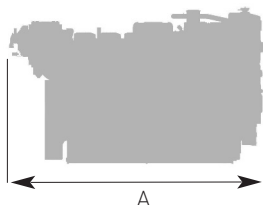


Marine propulsion engines

| Rating | kW  | Hp  | rpm  | g/kWh | l/h | IMO | EPA | CCNR | CE97/68 |
|--------|-----|-----|------|-------|-----|-----|-----|------|---------|
| P1     | 404 | 550 | 1600 | 206   | 81  | II  | -   | II   | IIIA    |
| P1     | 441 | 600 | 1800 | 197   | 103 | II  | III | II   | IIIA    |
| P2     | 485 | 660 | 1800 | 207   | 119 | II  | -   | II   | IIIA    |
| P2     | 515 | 700 | 2000 | 203   | 124 | II  | III | II   | IIIA    |
| P2     | 551 | 750 | 2100 | 209   | 137 | II  | III | II   | IIIA    |
| P3     | 599 | 815 | 2100 | 216   | 154 | II  | III | -    | -       |

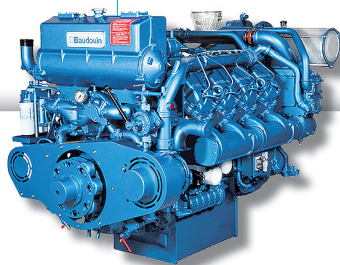
## Main dimensions and weight (mm/kg)

| A    | B    | C    | Weight |
|------|------|------|--------|
| 2034 | 1078 | 1239 | 1785   |



# 8 M26.2

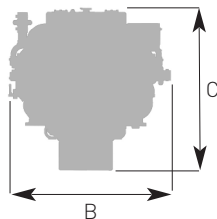
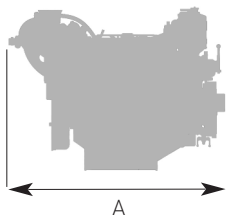
|                     |                  |
|---------------------|------------------|
| Number of cylinders | 8 in V @ 90°     |
| Bore and stroke     | 150 x 150 mm     |
| Total displacement  | 21.20 l          |
| Engine rotation     | counterclockwise |
| Idle speed          | 700 rpm          |
| Flywheel housing    | SAE 0            |
| Flywheel            | SAE 14"          |



| Rating | kW  | Hp  | rpm  | g/kWh | l/h | IMO | CCNR | CE97/68 |
|--------|-----|-----|------|-------|-----|-----|------|---------|
| P1     | 442 | 600 | 1800 | 203   | 107 | II  | II   | IIIA    |
| P1     | 491 | 668 | 1800 | 209   | 122 | II  | II   | IIIA    |
| P2     | 539 | 733 | 1900 | 220   | 141 | II  | II   | IIIA    |
| P2     | 588 | 800 | 1950 | 233   | 163 | II  | -    | -       |

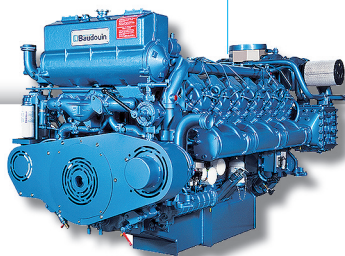
## Main dimensions and weight (mm/kg)

| A    | B    | C    | Weight |
|------|------|------|--------|
| 1871 | 1392 | 1454 | 2475   |



# 12 M26.2

|                     |                  |
|---------------------|------------------|
| Number of cylinders | 12 in V @ 90°    |
| Bore and stroke     | 150 x 150 mm     |
| Total displacement  | 31.80 l          |
| Engine rotation     | counterclockwise |
| Idle speed          | 700 rpm          |
| Flywheel housing    | SAE 0            |
| Flywheel            | SAE 18"          |

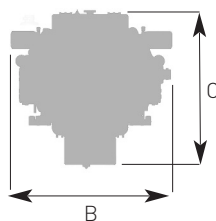


Marine propulsion engines

| Rating | kW  | Hp   | rpm  | g/kWh | l/h | IMO | CCNR | CE97/68 |
|--------|-----|------|------|-------|-----|-----|------|---------|
| P1     | 662 | 900  | 1800 | 198   | 156 | II  | II   | IIIA    |
| P1     | 736 | 1000 | 1800 | 197   | 173 | II  | II   | IIIA    |
| P2     | 808 | 1100 | 1900 | 200   | 192 | II  | II   | IIIA    |
| P2     | 883 | 1200 | 1950 | 201   | 211 | II  | -    | -       |

## Main dimensions and weight (mm/kg)

| A    | B    | C    | Weight |
|------|------|------|--------|
| 2446 | 1355 | 1419 | 3400   |

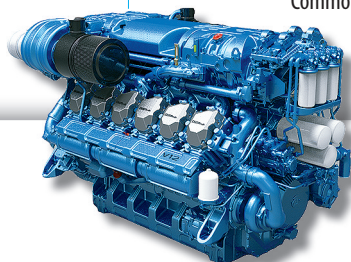




# 12 M26.3

|                     |                  |
|---------------------|------------------|
| Number of cylinders | 12 in V @ 90°    |
| Bore and stroke     | 150 x 150 mm     |
| Total displacement  | 31.80 l          |
| Engine rotation     | counterclockwise |
| Idle speed          | 600 rpm          |
| Flywheel housing    | SAE 0            |
| Flywheel            | SAE 18"          |

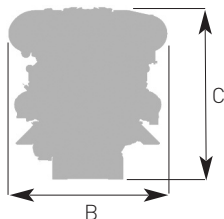
Common-rail injection

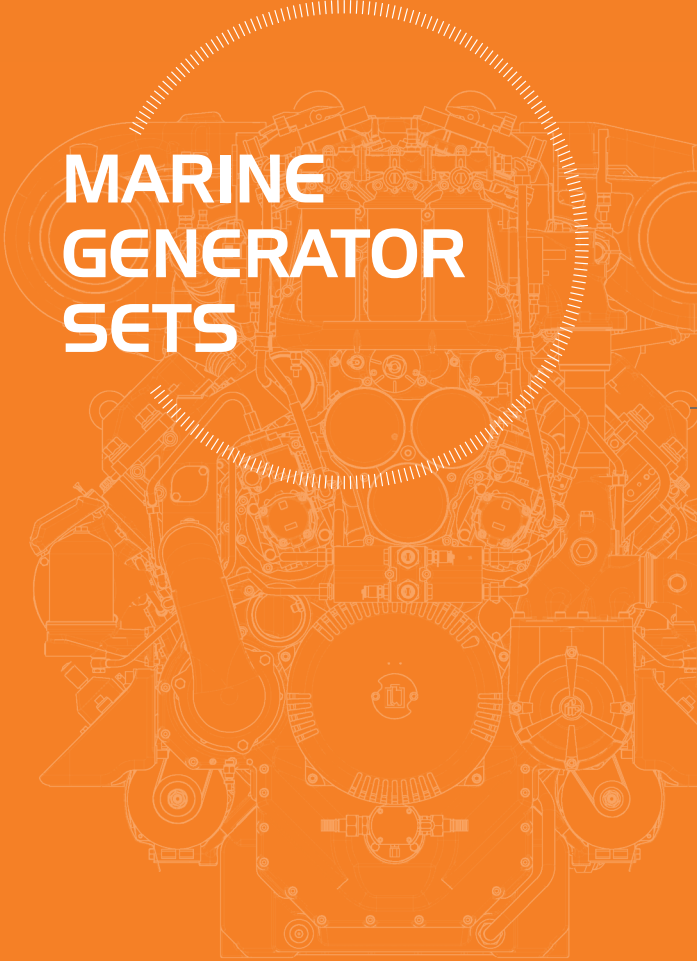


| Rating | kW   | Hp   | rpm  | g/kWh | l/h | IMO | EPA | CCNR | CE97/68 |
|--------|------|------|------|-------|-----|-----|-----|------|---------|
| P1     | 808  | 1100 | 1600 | 206   | 198 | II  | -   | II   | IIIA    |
| P1     | 883  | 1200 | 1800 | 197   | 207 | II  | III | II   | IIIA    |
| P2     | 970  | 1320 | 1800 | 201   | 232 | II  | -   | II   | IIIA    |
| P2     | 1030 | 1400 | 2100 | 204   | 250 | II  | III | II   | IIIA    |
| P2     | 1104 | 1500 | 2200 | 209   | 275 | II  | III | II   | IIIA    |
| P3     | 1214 | 1650 | 2300 | 215   | 311 | II  | III | -    | -       |

## Main dimensions and weight (mm/kg)

| A    | B    | C    | Weight |
|------|------|------|--------|
| 2333 | 1350 | 1494 | 3215   |

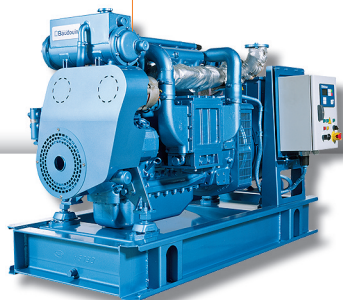




# MARINE GENERATOR SETS

# 4 W105S

|                     |                  |
|---------------------|------------------|
| Number of cylinders | 4 in line        |
| Bore and stroke     | 105 x 130 mm     |
| Total displacement  | 4.50 l           |
| Engine rotation     | counterclockwise |
| Idle speed          | 650 rpm          |

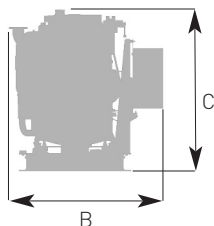
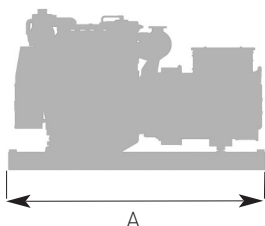


| Rating | Hz | kVA | kWe | rpm  | g/kWh | l/h | IMO |
|--------|----|-----|-----|------|-------|-----|-----|
| PRP    | 50 | 85  | 68  | 1500 | 194   | 17  | NA* |
| PRP    | 60 | 105 | 84  | 1800 | 198   | 22  | NA* |

\*Not applicable

## Main dimensions and weight (mm/kg)

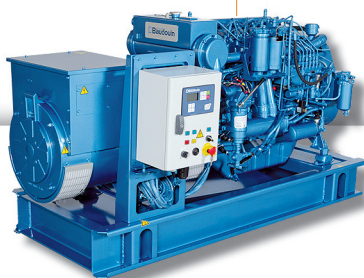
| A    | B   | C    | Weight |
|------|-----|------|--------|
| 1730 | 856 | 1110 | 1100   |



# 6 W105S

|                     |                  |
|---------------------|------------------|
| Number of cylinders | 6 in line        |
| Bore and stroke     | 105 x 130 mm     |
| Total displacement  | 6.75 l           |
| Engine rotation     | counterclockwise |
| Idle speed          | 650 rpm          |

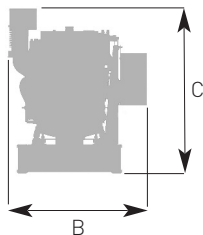
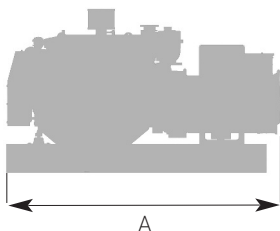
Marine generator sets



| Rating | Hz | kVA | kWe | rpm  | g/kWh | l/h | IMO |
|--------|----|-----|-----|------|-------|-----|-----|
| PRP    | 50 | 150 | 120 | 1500 | 193   | 30  | II  |
| PRP    | 60 | 170 | 136 | 1800 | 204   | 35  | II  |

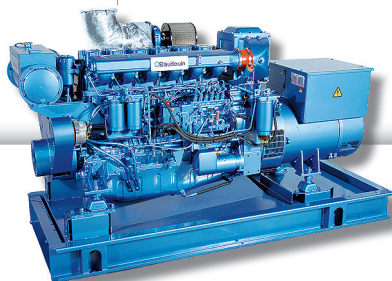
## Main dimensions and weight (mm/kg)

| A    | B   | C    | Weight |
|------|-----|------|--------|
| 2109 | 866 | 1261 | 1500   |



# 6 W126S

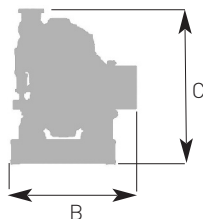
|                     |                  |
|---------------------|------------------|
| Number of cylinders | 6 in line        |
| Bore and stroke     | 126 x 155 mm     |
| Total displacement  | 11.60 l          |
| Engine rotation     | counterclockwise |
| Idle speed          | 600 rpm          |



| Rating | Hz | kVA | kWe | rpm  | g/kWh | l/h | IMO | CCNR |
|--------|----|-----|-----|------|-------|-----|-----|------|
| PRP    | 50 | 340 | 272 | 1500 | 198   | 68  | II  | II   |
| PRP    | 60 | 350 | 280 | 1800 | 205   | 73  | II  | II   |

## Main dimensions and weight (mm/kg)

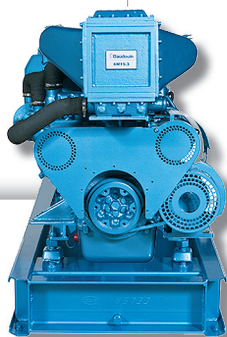
|                                                  | A    | B   | C    | Weight |
|--------------------------------------------------|------|-----|------|--------|
| 170 to 260 kVA @ 50 Hz<br>205 to 300 kVA @ 60 Hz | 2585 | 994 | 1390 | 2145   |
| 300 to 340 kVA @ 50 Hz<br>350 kVA @ 60 Hz        | 2727 | 994 | 1390 | 2345   |



# 6 M19.3

|                     |                  |
|---------------------|------------------|
| Number of cylinders | 6 in line        |
| Bore and stroke     | 126 x 155 mm     |
| Total displacement  | 11.60 l          |
| Engine rotation     | counterclockwise |
| Idle speed          | 600 rpm          |

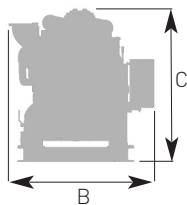
Marine generator sets



| Rating | Hz | kVA | kWe | rpm  | g/kWh | l/h | IMO |
|--------|----|-----|-----|------|-------|-----|-----|
| PRP    | 50 | 400 | 320 | 1500 | 199   | 80  | II  |
| PRP    | 60 | 450 | 360 | 1800 | 202   | 91  | II  |

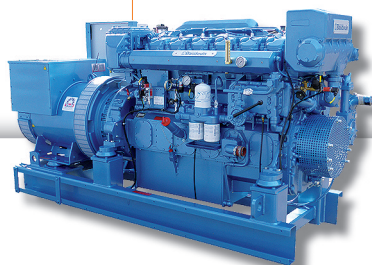
## Main dimensions and weight (mm/kg)

| A    | B    | C    | Weight |
|------|------|------|--------|
| 2608 | 1042 | 1270 | 2470   |



# 6 M26.2

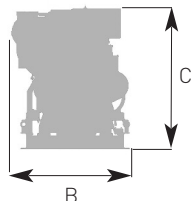
|                     |                  |
|---------------------|------------------|
| Number of cylinders | 6 in line        |
| Bore and stroke     | 150 x 150 mm     |
| Total displacement  | 15.90 l          |
| Engine rotation     | counterclockwise |
| Idle speed          | 700 rpm          |



| Rating | Hz | kVA | kWe | rpm  | g/kWh | l/h | IMO |
|--------|----|-----|-----|------|-------|-----|-----|
| PRP    | 50 | 520 | 416 | 1500 | 194   | 80  | II  |
|        | 60 | 545 | 436 | 1800 | 198   | 87  | II  |

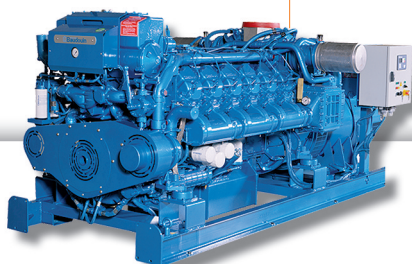
## Main dimensions and weight (mm/kg)

| A    | B    | C    | Weight |
|------|------|------|--------|
| 3174 | 1237 | 1337 | 3170   |



# I2 M26.2

|                     |                  |
|---------------------|------------------|
| Number of cylinders | 12 in V at 90°   |
| Bore and stroke     | 150 x 150 mm     |
| Total displacement  | 31.80 l          |
| Engine rotation     | counterclockwise |
| Idle speed          | 700 rpm          |

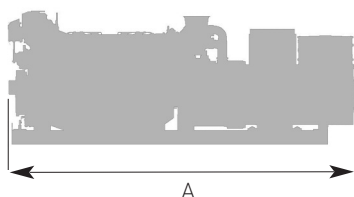


Marine generator sets

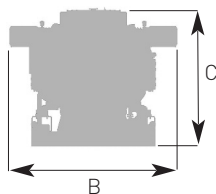
| Rating | Hz | kVA  | kWe | rpm  | g/kWh | l/h | IMO |
|--------|----|------|-----|------|-------|-----|-----|
| PRP    | 50 | 1045 | 836 | 1500 | 196   | 165 | II  |
|        | 60 | 1090 | 872 | 1800 | 199   | 174 | II  |

## Main dimensions and weight (mm/Kg)

| A    | B    | C    | Weight |
|------|------|------|--------|
| 3879 | 1456 | 1575 | 5930   |



A



B

C



# MOTEURS Baudouin

ECOLOGIE

SERVICE

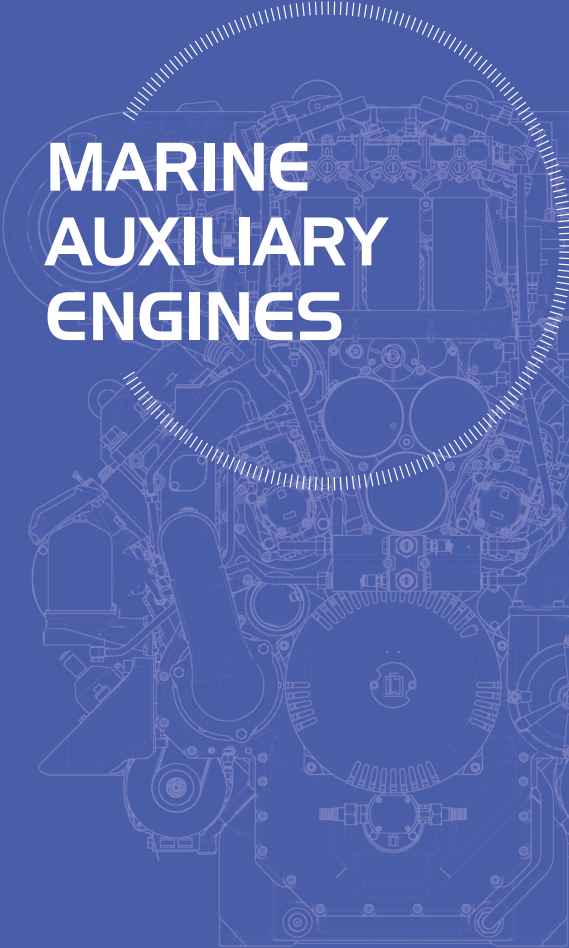
ADVANCED TECHNOLOGY

DYNAMISM

DYNAMISM

CREATIVENESS

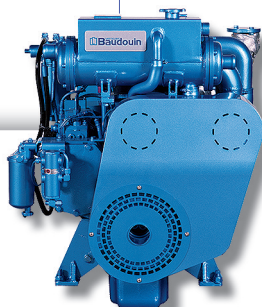




# MARINE AUXILIARY ENGINES

# 4 W105S

|                     |                  |
|---------------------|------------------|
| Number of cylinders | 4 in line        |
| Bore and stroke     | 105 x 130 mm     |
| Total displacement  | 4.50 l           |
| Engine rotation     | counterclockwise |
| Idle speed          | 650 rpm          |
| Flywheel housing    | SAE 3            |
| Flywheel            | SAE 11.5"        |

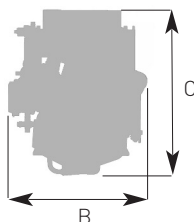
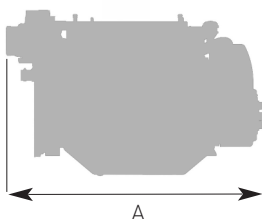


| Rating | hz | kW | hp  | rpm  | g/kWh | l/h | IMO |
|--------|----|----|-----|------|-------|-----|-----|
| PRP    | 50 | 75 | 102 | 1500 | 194   | 17  | NA* |
| PRP    | 60 | 92 | 125 | 1800 | 198   | 22  | NA* |

\*Not applicable

## Main dimensions and weight (mm/Kg)

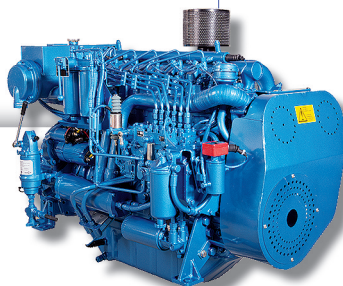
| A    | B   | C   | Weight |
|------|-----|-----|--------|
| 1014 | 821 | 990 | 650    |



# 6 W105S

|                     |                  |
|---------------------|------------------|
| Number of cylinders | 6 in line        |
| Bore and stroke     | 105 x 130 mm     |
| Total displacement  | 6.75 l           |
| Engine rotation     | counterclockwise |
| Idle speed          | 650 rpm          |
| Flywheel housing    | SAE 3            |
| Flywheel            | SAE 11.5"        |

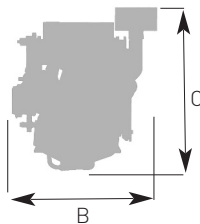
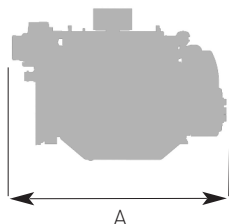
Marine auxiliary engines



| Rating | hz | kW  | hp  | rpm  | g/kWh | l/h | IMO |
|--------|----|-----|-----|------|-------|-----|-----|
| PRP    | 50 | 129 | 175 | 1500 | 193   | 30  | II  |
| PRP    | 60 | 145 | 197 | 1800 | 204   | 35  | II  |

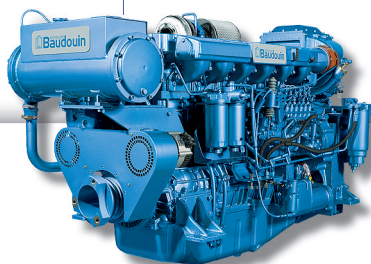
## Main dimensions and weight (mm/Kg)

| A    | B   | C    | Weight |
|------|-----|------|--------|
| 1417 | 885 | 1076 | 810    |



# 6 W126S

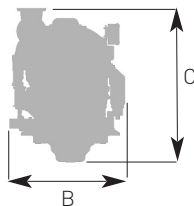
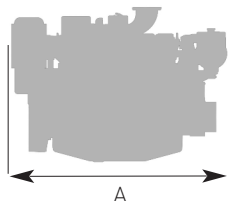
|                     |                  |
|---------------------|------------------|
| Number of cylinders | 6 in line        |
| Bore and stroke     | 126 x 155 mm     |
| Total displacement  | 11.60 l          |
| Engine rotation     | counterclockwise |
| Idle speed          | 600 rpm          |
| Flywheel housing    | SAE 1            |
| Flywheel            | SAE 14"          |



| Rating | hz | kW  | hp  | rpm  | g/kWh | l/h | IMO | CCNR |
|--------|----|-----|-----|------|-------|-----|-----|------|
| PRP    | 50 | 290 | 394 | 1500 | 198   | 68  | II  | II   |
| PRP    | 60 | 300 | 408 | 1800 | 205   | 73  | II  | II   |

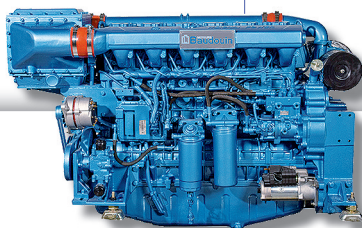
## Main dimensions and weight (mm/Kg)

| A    | B   | C    | Weight |
|------|-----|------|--------|
| 1695 | 883 | 1128 | 1200   |



# 6 M19.3

|                     |                  |
|---------------------|------------------|
| Number of cylinders | 6 in line        |
| Bore and stroke     | 126 x 155 mm     |
| Total displacement  | 11.56 l          |
| Engine rotation     | counterclockwise |
| Idle speed          | 600 rpm          |
| Flywheel housing    | SAE 1            |
| Flywheel            | SAE 14"          |

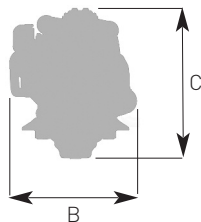
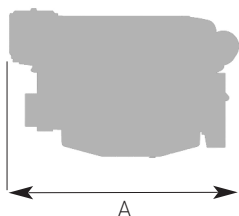


Marine auxiliary engines

| Rating | hz | kW  | hp  | rpm  | g/kWh | l/h | IMO |
|--------|----|-----|-----|------|-------|-----|-----|
| PRP    | 50 | 330 | 449 | 1500 | 199   | 80  | II  |
| PRP    | 60 | 380 | 517 | 1800 | 202   | 91  | II  |

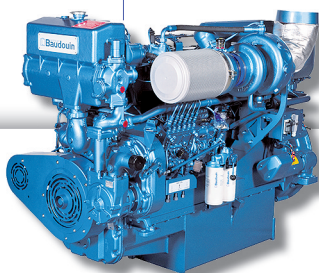
## Main dimensions and weight (mm/Kg)

| A    | B    | C    | Weight |
|------|------|------|--------|
| 1665 | 1021 | 1091 | 1200   |



# 6 M26.2

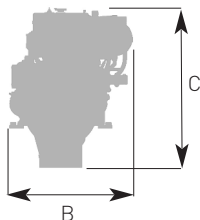
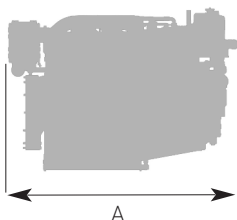
|                     |                  |
|---------------------|------------------|
| Number of cylinders | 6 in line        |
| Bore and stroke     | 150 x 150 mm     |
| Total displacement  | 15.90 l          |
| Engine rotation     | counterclockwise |
| Idle speed          | 700 rpm          |
| Flywheel housing    | SAE 1            |
| Flywheel            | SAE 14"          |



| Rating | hz | kW  | hp  | rpm  | g/kWh | l/h | IMO | CCNR | CE97/68 |
|--------|----|-----|-----|------|-------|-----|-----|------|---------|
| PRP    | 50 | 355 | 483 | 1500 | 194   | 82  | II  | II   | IIIA    |
| PRP    | 60 | 368 | 500 | 1800 | 198   | 87  | II  | II   | IIIA    |

## Main dimensions and weight (mm/Kg)

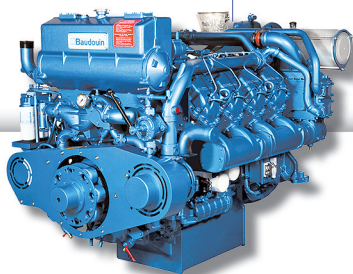
| A    | B    | C    | Weight |
|------|------|------|--------|
| 1880 | 1144 | 1348 | 1785   |



# 8 M26.2

|                     |                  |
|---------------------|------------------|
| Number of cylinders | 8 in V at 90°    |
| Bore and stroke     | 150 x 150 mm     |
| Total displacement  | 21.20 l          |
| Engine rotation     | counterclockwise |
| Idle speed          | 700 rpm          |
| Flywheel housing    | SAE 0            |
| Flywheel            | SAE 14"          |

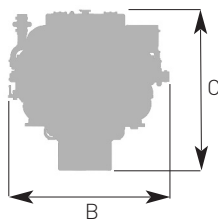
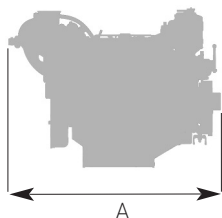
Marine auxiliary engines



| Rating | hz | kW  | hp  | rpm  | g/kWh | l/h | IMO | CCNR | CE97/68 |
|--------|----|-----|-----|------|-------|-----|-----|------|---------|
| PRP    | 50 | 473 | 643 | 1500 | 210   | 118 | II  | II   | IIIA    |
| PRP    | 60 | 491 | 668 | 1800 | 217   | 127 | II  | II   | IIIA    |

## Main dimensions and weight (mm/Kg)

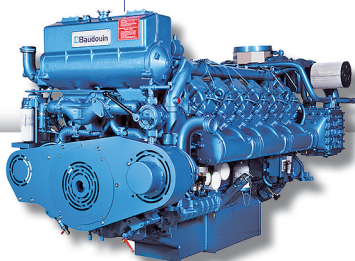
| A    | B    | C    | Weight |
|------|------|------|--------|
| 1871 | 1392 | 1454 | 2475   |





## 12 M26.2

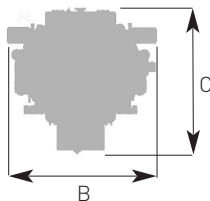
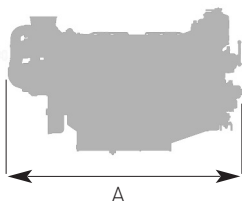
|                     |                  |
|---------------------|------------------|
| Number of cylinders | 12 in V at 90°   |
| Bore and stroke     | 150 x 150 mm     |
| Total displacement  | 31.80 l          |
| Engine rotation     | counterclockwise |
| Idle speed          | 700 rpm          |
| Flywheel housing    | SAE 0            |
| Flywheel            | SAE 18"          |



| Rating | hz | kW  | hp   | rpm  | g/kWh | l/h | IMO | CCNR | CE97/68 |
|--------|----|-----|------|------|-------|-----|-----|------|---------|
| PRP    | 50 | 710 | 965  | 1500 | 196   | 165 | II  | II   | IIIA    |
| PRP    | 60 | 736 | 1001 | 1800 | 199   | 174 | II  | II   | IIIA    |

## Main dimensions and weight (mm/Kg)

| A    | B    | C    | Weight |
|------|------|------|--------|
| 2446 | 1355 | 1419 | 3400   |





# MARINE CONTROL & MONITORING SOLUTIONS

Moteurs Baudouin develops specific and dedicated control and monitoring solutions in a wide and flexible system configurations. From the most economical and simple display to complex and interfaced solution each product level is supplemented with modular customization features.

## MINI

The MINI control system is the simple controller providing engine and gearboxes necessary parameters information and safeties management. MINI is particularly adapted to smaller vessels and simple installations.



### Main features

- 3 lines digital parameters display
- Engine start /stop
- Emergency stop
- Buzzer
- Override
- Dimmer

## ECO

The ECO control system is the non-classified application highly flexible solution. Including up to two control stations ECO can also communicate with various ship management systems via its canbus protocol (j1939).



### Main features

- 5.7" bridge color display
- Engine start /stop
- Emergency stop
- Buzzer
- Override
- Light on/off
- Engine room panel with monochrome display
- Up to 30 m wiring with bridge station



## MASTER

The MASTER control system is the ultimate control and monitoring solution. With up to five possible stations, can bus communication interface within a comprehensive option list, MASTER is typically designed for high project customization level or more complex installations.

### Main features

- 5.7" bridge color display (propulsion)
- Engine start /stop
- Emergency stop
- Buzzer
- Override
- Light on/off
- Engine room cabinet with monochrome display
- Local/remote control switch
- Up to 50 m wiring with bridge station

The MASTER control system is approved by the marine classification societies.

|                                                |         | CONTROL SYSTEM |     |        |
|------------------------------------------------|---------|----------------|-----|--------|
|                                                |         | MINI           | ECO | MASTER |
| P<br>R<br>O<br>P<br>U<br>L<br>S<br>I<br>O<br>N | 6 W105  |                |     |        |
|                                                | 6 W126  |                |     |        |
|                                                | 6 M16   |                |     |        |
|                                                | 6 M19.3 |                |     |        |
|                                                | M26.2   |                |     |        |
|                                                | M26.3   |                |     |        |

## GENERATOR SETS & AUXILIARY ENGINES

**MASTER** engine room cabinet is the classified applications standard.

## Common conversions

### Power

1 kW = 1.36 metric HP

1 kW = 1.341 BHP

1 BHP = 1.014 metric HP

### Specific fuel oil consumption (SFOC)

SFOC (g/kWh) = L/hr \* 840/kW

### Length

1 cm = 0.3937 in

1 m = 3.28 ft

1 naut. mile = 1.853 km

1 mile = 1.609 km

### Mass

1 g = 0.035 oz

1 kg = 2.2 lb

1 metric ton = 1.1 short ton

### Temperature

1°C = (1°F-32)/1.8

### Torque

1 Nm = 0.102 mkg

1 Nm = 0.74 lb ft

Nm = kW\*9549 / rpm

### Energy

1 cal = 4.187 J

### Pressure

1 mm Hg = 1.333 mbar

1mm H<sub>2</sub>O = 0.981 mbar

1 mbar = 100 Pa

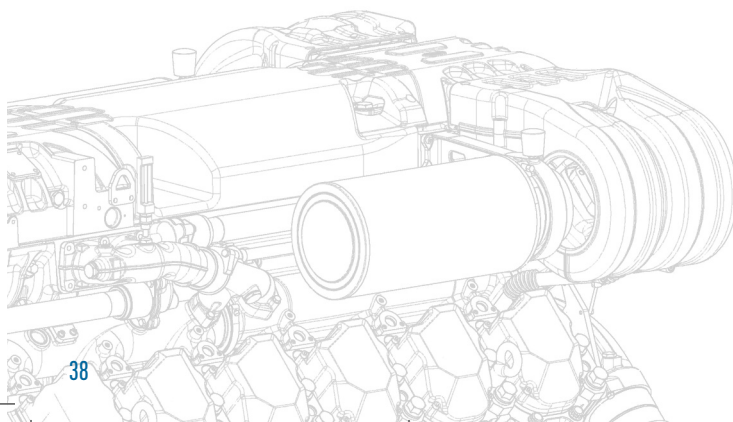
1 bar = 14.50 psi

### Volume

1L = 0.26 gallon (US)

1L = 0.21 gallon (UK)

1L = 61.02 in<sup>3</sup>



## NOTES

IC202A - September 2015 - Moteurs Baudouin reserves the right to modify these specifications without notice. Document not contractual.

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