

## BLAZEMASTER SERIES

### YANMAR ENGINE DRIVE PUMPS

#### SINGLE & TWIN IMPELLER PUMPS



BM70Y



#### FEATURES

Lightweight high grade corrosion resistant materials.

Large pump casing with raised suction port and inbuilt non-return valve for better priming capabilities.

Computational Fluid Dynamics designed hydraulic components for higher performance and efficiency.

Strong and durable construction.

Max. head - 102m.

Max. flow - 590lpm.

#### APPLICATIONS

- Fire fighting.
- Tank filling.
- Water transfer.
- Irrigation and spraying.

#### PUMP INFORMATION

Horizontal, single-stage or twin-stage, surface mounted centrifugal pump with closed impeller/s for pumping debris free water coupled to a Yanmar 4.7HP (L48N), 6.7HP (L70N) or 10HP (L100N) engine.

#### OPERATING CONDITIONS

Suitable for pumping clean non-aggressive liquids without solids or fibres in suspension.

|                              |          |
|------------------------------|----------|
| Fluid:                       | Water.*  |
| Maximum water temperature:   | 55°C.    |
| Minimum water temperature:   | 1°C.     |
| Maximum ambient temperature: | 40°C.**  |
| Maximum casing pressure:     | 1300kPa. |

\*For liquids outside of this range please consult your local Onga office for product suitability.  
Viton seal kit available as replacement service part.

\*\*Engine performance greatly reduced with increased ambient temperature and/or altitude, clarify with Engine Manufacturer.

## ENGINE DATA

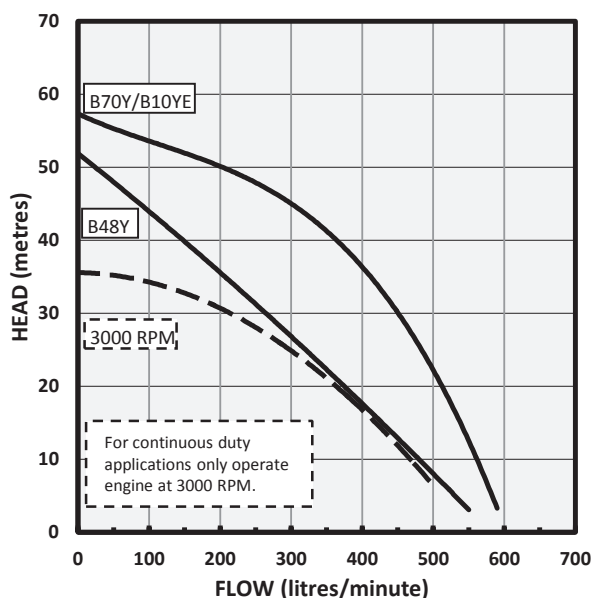
| Type          | Engine | Model | Nominal HP | Displacement | Continuous duty | Fuel tank capacity | Fuel   | Recommended oil type | Oil capacity |
|---------------|--------|-------|------------|--------------|-----------------|--------------------|--------|----------------------|--------------|
| <b>B48Y</b>   | Yanmar | L48N  | 4.7        | 0.219 litres | 3000 RPM        | 1.9 litres         | Diesel | Refer to manual      | 0.8 litres   |
| <b>B70Y</b>   | Yanmar | L70N  | 6.7        | 0.320 litres | 3000 RPM        | 2.7 litres         | Diesel | Refer to manual      | 1.05 litres  |
| <b>B10YE</b>  | Yanmar | L100N | 10         | 0.435 litres | 3000 RPM        | 4.7 litres         | Diesel | Refer to manual      | 1.6 litres   |
| <b>BM70Y</b>  | Yanmar | L70N  | 6.7        | 0.320 litres | 3000 RPM        | 2.7 litres         | Diesel | Refer to manual      | 1.05 litres  |
| <b>BM10YE</b> | Yanmar | L100N | 10         | 0.435 litres | 3000 RPM        | 4.7 litres         | Diesel | Refer to manual      | 1.6 litres   |

## PERFORMANCE

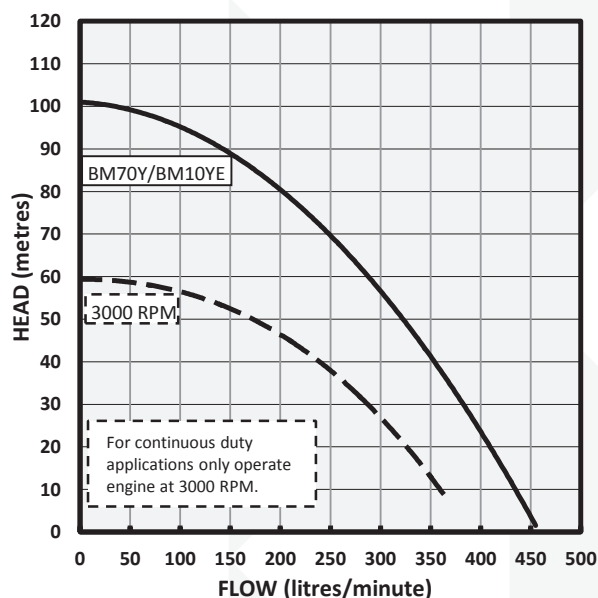
| Type          | P/No          | Delivery head H [m]             | 10  | 20  | 30  | 40  | 50  | 60  | 70  | 80  | 90  | 100 |
|---------------|---------------|---------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>B48Y</b>   | <b>B48Y</b>   | Capacity<br>[litres per minute] | 480 | 371 | 265 | 145 | 27  | -   | -   | -   | -   | -   |
| <b>B70Y</b>   | <b>B70Y</b>   |                                 | 561 | 512 | 452 | 365 | 206 | -   | -   | -   | -   | -   |
| <b>B10YE</b>  | <b>B10YE</b>  |                                 | 561 | 512 | 452 | 365 | 206 | -   | -   | -   | -   | -   |
| <b>BM70Y</b>  | <b>BM70Y</b>  |                                 | 434 | 410 | 382 | 353 | 322 | 288 | 247 | 203 | 144 | 38  |
| <b>BM10YE</b> | <b>BM10YE</b> |                                 | 434 | 410 | 382 | 353 | 322 | 288 | 247 | 203 | 144 | 38  |

## PERFORMANCE CURVE

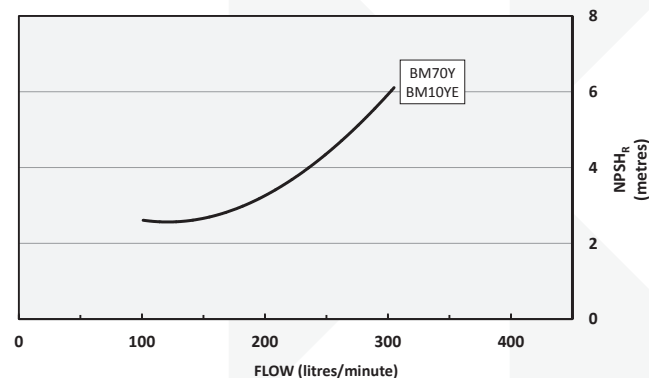
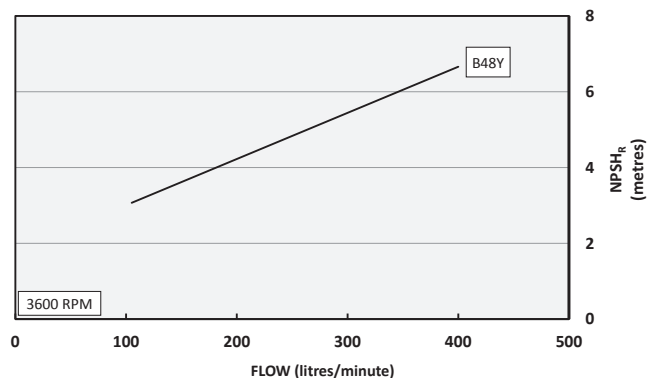
Single impeller



Twin impeller



## NPSHR

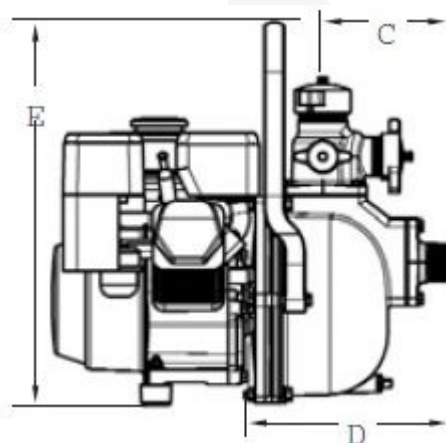
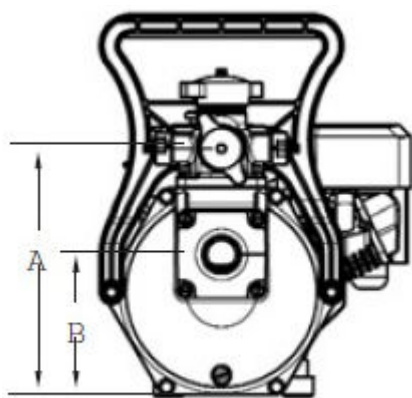


## PUMP CONSTRUCTION MATERIALS

| Component              | Material                |
|------------------------|-------------------------|
| Pump casing            | Powder coated Aluminium |
| Impeller/s             | 30% Glass Filled Nylon  |
| Diffuser               | Aluminium               |
| Priming/discharge caps | Glass Filled Nylon      |
| Seal flexible bellows  | Nitrile                 |
| Seal stationary face   | Ceramic                 |
| Seal rotating face     | Carbon                  |
| Seal spring            | Stainless Steel         |
| Motor shaft            | Mild Steel              |
| O'Rings                | Nitrile                 |

## DIMENSIONS

| Type          | Weight approx. | Inlet          | Outlets                | Carton L x W x H   | Packed weight |
|---------------|----------------|----------------|------------------------|--------------------|---------------|
| <b>B48Y</b>   | 31.2kg         | 1½" BSP (male) | 1", 1", 1½" BSP (male) | 620 x 460 x 560 mm | 39 kg         |
| <b>B70Y</b>   | 38.2kg         | 2" BSP (male)  | 1", 1", 2" BSP (male)  | -                  | -             |
| <b>B70YE</b>  | 45.2kg         | 2" BSP (male)  | 1", 1", 2" BSP (male)  | -                  | -             |
| <b>B10YE</b>  | 60.2kg         | 2" BSP (male)  | 1", 1", 2" BSP (male)  | -                  | -             |
| <b>BM70Y</b>  | 41.1kg         | 2" BSP (male)  | 1", 1", 2" BSP (male)  | -                  | -             |
| <b>BM70YE</b> | 46.1kg         | 2" BSP (male)  | 1", 1", 2" BSP (male)  | -                  | -             |
| <b>BM10YE</b> | 61.1kg         | 2" BSP (male)  | 1", 1", 2" BSP (male)  | 640 x 560 x 560 mm | 74 kg         |



| Type          | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) |
|---------------|--------|--------|--------|--------|--------|
| <b>B48Y</b>   | 320    | 185    | 166    | 271    | 480    |
| <b>B70Y</b>   | 327    | 193    | 166    | 271    | 495    |
| <b>B70YE</b>  | 327    | 193    | 166    | 271    | 495    |
| <b>BM70Y</b>  | 327    | 193    | 166    | 271    | 495    |
| <b>BM70YE</b> | 327    | 193    | 166    | 271    | 495    |
| <b>BM10YE</b> | 337    | 203    | 166    | 271    | 505    |



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