



EBSRAY PUMPS

End Suction Pump Range

PSB LABELLED FIRE PUMPS

Design Construction

EBSRAY Streamline fire pump is horizontal, single stage, end suction with vertical discharge centrifugal pump, complying with the requirements of European standard BS EN733(DIN 24255). Most models are suitable for 1600kPa (16bar) working pressure. The back pull out design allows for easy maintenance and repair of the pump without disturbing the system pipe work connected to the casing or the pump's alignment.



Performance

EBSRAY offers the extensive range of Streamline end suction fire pumps, they are designed to meet a range of flow rates required in the various hazard group duties, the Ordinary Hazard Class for fire sprinkler systems; OH Group 1, 2 & 3 and OH Group Special Classes. That is why EBSRAY Streamline fire pumps are designed for the very particular needs of the fire protection systems and are approved by PSB Singapore.



Typical Applications & Installations

Streamline fire pumps are installed to protect the lives and minimize the loss of properties in various fire protection systems such as Fire Sprinkler system, Hydrant system and Wet Riser system in commercial buildings and facilities.

- Hotels and Shopping malls
- Office buildings
- Hospitals and Sports complexes
- Schools and Public buildings
- Warehouses
- Factories and other Industrial facilities



Pump-Set Package

Streamline fire pumps are available for duties ranging from OH1-15m to OH3 Special-75m and are suitable for electric motor or diesel engine drives. Fire pump can be supplied in an assembled pump-set package unit comprising the pump and its driver mounted on the common base plate. The package shall also include fire pump controller, which is designed to meet the requirements of locally applicable fire rules and regulations. Diesel engine driven pump-set also include fuel tank and starting batteries.



The table below demonstrates how the range of *Streamline* fire pumps are designed to cover most normal duty requirements.

Hazard Group	Nominal Rating		Pump Model	Driver Rating	
	Flow (L/min)	Pressure (kPa)		kW	RPM
OH1 - 15m	900	120	50-16	5.5	2900
OH1 - 30m	1150	190	50-20	11	2900
OH1 - 45m	1340	260	50-20	15	2900
OH1 - 60m	1500	330	65-26	30	2900
OH1 - 75m	1650	400	65-26	37	2900
OH2 - 15m	1700	130	65-16	11	2900
OH2 - 30m	2050	200	65-20	18.5	2900
OH2 - 45m	2350	260	80-20	37	2900
OH2 - 60m	2650	320	65-26	45	2900
OH2 - 75m	2900	380	80-26	55	2900
OH3 - 15m	2250	140	65-16	15	2900
OH3 - 30m	2700	200	80-20	30	2900
OH3 - 45m	3100	250	80-26	37	2900
OH3 - 60m	3400	320	80-26	55	2900
OH3 - 75m	3700	380	80-26	75	2900
OH3 Special- 15m	2650	190	80-20	30	2900
OH3 Special- 30m	3050	240	80-20	37	2900
OH3 Special- 45m	3400	310	80-26	45	2900
OH3 Special- 60m	3750	370	80-26	75	2900
OH3 Special- 75m	4050	430	80-32H	90	2900

Pump Design

Streamline pump range performance and dimensions fully complies to the European standard BS EN733 / DIN24255.

Pump Specification

- Maximum Capacity: 150 l/sec
- Maximum Head: 150 m
- Maximum Working Pressure: 1600 kPa
- Temperature Range: -10°C to 105°C
- Speed: 50Hz or 60Hz
- Direction of Rotation: Clockwise viewed from drive end

Materials of Construction

- Casing: Cast Iron as standard (Ductile Iron optional)
- Impeller: Bronze as standard (Stainless Steel optional)
- Shaft: Stainless Steel 420 as standard
- Shaft Seal: Gland Packing or Mechanical Seal
- Shaft Sleeve: Stainless Steel
- Lantern Ring: Cast iron
- Gland: Cast Iron

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Quality
Endorsed
Company
ISO 9001
Lic 3332
Standards Australia

No. Spare Part

- 1 Volute Casing
- 2 Impeller Nut
- 3 Wear Ring
- 4 Impeller
- 5 Casing Cover
- 6 Shaft Spacer
- 7 Mechanical Seal
- 8 Seal Cover
- 9 Slinger
- 10 Bearing Housing
- 11 Shaft
- 12 Bearing
- 13 Bearing Cover
- 14 Support Foot
- 15 Packing Sleeve
- 16 Seal Cage
- 17 Gland Packing
- 18 Gland Cover

Gland Packing

