# **KOSHIN**



# PERFORMANCE CURVE 10 20 30 40 50 60 70 80 90 100 PBX7-65011 PBX7-55011 PBX7-55022 PBX-65011 PBX-55011 PBX-55022 DELIVERY VOLUME (L/min)

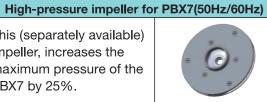
PBX-50 / PBX7-50

#### **SPECIFICATIONS**

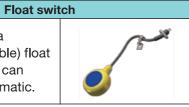
MODEL		PBX-55022	PBX-55011	PBX-65011	PBX7-55022	PBX7-55011	PBX7-65011
Connection Dia	mm	50		50			
	inch	2			2		
Max.Head	m	9.5		10	1	5	16
	ft	31		33	50		54
Max.Delivery	L/min	310			330		
	GPH	4,870			5,240		
Output [W]		400			750		
Revolution [rpm]		2,800		3,200	2,8	3,200	
Rated Current [A]		4.2	8.1	8.7	6.0	12.0	
Consumption [W]		680	690	750	1,250		
Voltage [V]		AC 220	AC 110		AC 220	AC 110	
Frequency [Hz]		50		60	5	50 60	
Net Weight [kg] **without cable		13.4			13.6	13.7	

Optional	
parts	

This (separately available) impeller, increases the maximum pressure of the PBX7 by 25%.

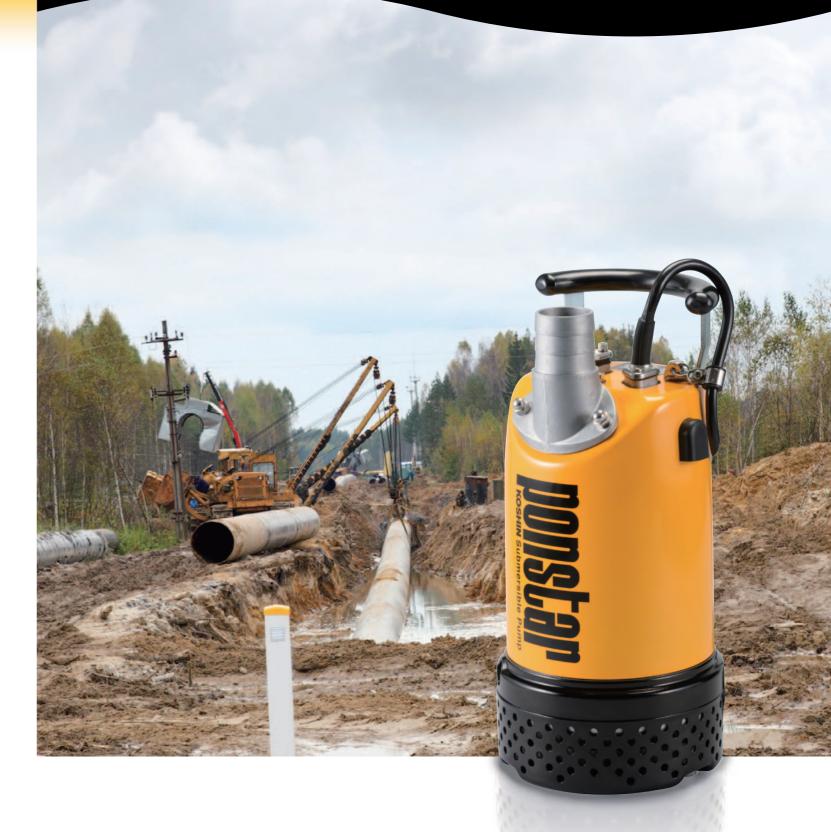


When fitted with a (separately available) float switch, the pump can operate fully automatic.



**KOSHIN LTD. KYOTO, JAPAN** 

www.koshinpump.com



# **Heavy Duty Contractor Pump**

Suitable for dry-running and for use with sandy water

**PBX/PBX7 Series** 

# POWERFUL PERFORMANCE!

## **PONSTAR PBX Series**



### Trouble free operation, even in low water or dry-run situations!

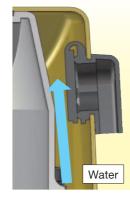
## With air valve function

When conventional pumps run dry, the electric motor will overheat, causing the thermal protector to activate to protect the motor. However, continuous overheating will eventually cause internal damage to the windings. With an air valve, a continuous airflow will cool the motor while running dry. Preventing the motor from overheating at any time. (The thermal switch will activate if an abnormal level of heat is generated, which exceeds the cooling capacity of the airflow—in situations such as an impeller lock or sticky mechanical seals.)



# The PBX dry-run capability

When the PBX pump is running dry (without water), the motor is cooled by air, forced through the pump by the impeller and exiting the pump via the air valve. Preventing the motor from overheating.



# Pump operating and discharging water

When the pump operates normally, the air valves will be closed by the water pressure inside the pump.

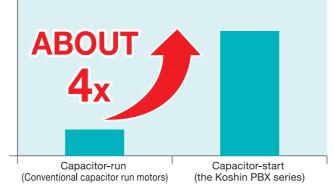


## **Extra Powerful Startup Torque!**

# The Koshin centrifugal force switch

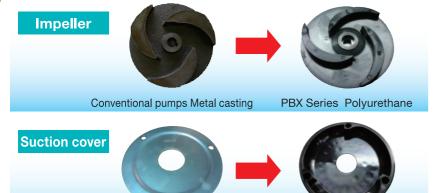
The Koshin PBX capacitor-start motors (fitted with a centrifugal force switch) have a 400% higher starting torque than standard capacitor-run motors, largely eliminating startup failures caused by sticky mechanical seal or impeller clogging.







## Designed specifically for use in muddy and sandy water, using strong and durable materials



Conventional pumps Steel / metal casting PBX Series Steel with polyurethane cover

The highly wear resistant materials used, have increased the durability of important wear parts by about

300% compared to conventional parts.



The direction of the delivery flange can easily be changed to suit the required direction of water flow!

#### 2-way flange

Change delivery flange direction and delivery hose will never be bent again.





OFF water level

100mm~130mr

Automatic start / stop function with a





#### Easy maintenance

- Easy to retro-fit or replace float switch
- Uses only 2 bolts (The float switch is an optional component.)
- Fixing bolts are wear protected to allow for easy access and disassembly, even when the pump has been in prolonged heavy duty use.

The special polyurethane insert, protects delicate parts from wear and tear. Easy maintenance.

#### Float switch connector

The float switch has been separated from the power supply cord.

Take off 2 bolts and cover & cap then just plug in the float switch

#### Air valve

### Capacitor-start motor (with a centrifugal switch)

A high starting torque prevents startup failures caused by mechanical seals sticking, or impeller locks.

#### Inner casing

The polyurethane used for the protective insert, is highly wear resistant.
The insert is easy to replace, if required.

#### Impeller

#### Cable drainage

The soldered bare cores inside the vulcanized plug prevents water from entering the motor through any cut or damage to the power cable.

#### Thermal protector

If the motor overheats or draws excessive current, the motor protection device (thermal protector) will activate and protect the motor.

### All-water-conduit type (Forced-air-cooled motor type)

As the pumped medium is used to cool the motor during operation, the cooling effect on the motor is high even during low level water operation. Cooling the motor completely from all 360 degrees around the motor unit.

Large-capacity oil chamber

#### Double mechanical seal

A reliable SIC/SIC - C/C, double mechanical seal is used to prevent water from entering the motor.