



Pump de Eco

The TORISHIMA Eco pump "CA series" leads the world!

End Suction Volute Pumps - OH1

Saving energy

- High efficiency design
- Impeller of three dimensions
- Ultra high efficiency motor

Saving resources

- Speed-up and miniaturizing thanks to 2-pole motor spec.

Saving power

- Maintenance-free mechanical seal
- High interchangeability of main parts
- Back pull-out design



High efficiency pump contributes to saving energy and CO₂ reduction.

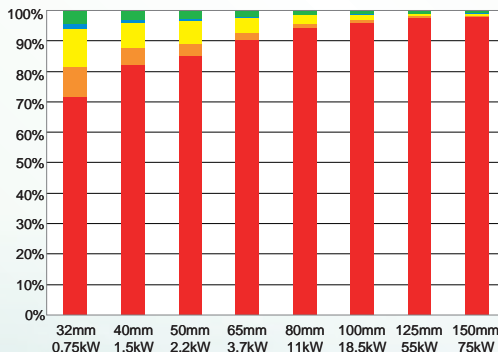
Reduction of LCC (Life Cycle Cost)

The main component of LCC is an Electrical Cost which is occupying approx. 70% to 90% as shown in figure.
Thus, you can reduce your LCC Cost by saving energy greatly.

< Operating condition >

- Pumps Size : 32 ~ 150mm
- Operation period : 131,400 hours (8,760hr/year × 15years)
- Prerequisite : 60Hz-4P
Clean water (Normal temp.)
- Electric cost : 10 yen/kWh
- Main replacement parts (The number of times of exchange)
Casing (1), Impeller (2), Shaft (2), Wear ring (2), Bearing (7), Gasket (7), Coupling (1), Coupling rubber (7), Mechanical seal (7)

< Total cost >



Running cost : Electricity cost (Red), Labor charge (Orange), Parts (Yellow)
Initial cost : Labor charge (Blue), Pump (Green)

< Example (Type : CAL) >

Pump size : 150mm Motor : 75kW			
Improvement in efficiency	5%	10%	15%
Power reduction	3.7kW	7.5kW	11.2kW
Amount of reduction of annual electricity power consumption	32,850kWh	65,700kWh	98,550kWh
Cost cut (yen)	4,920,000	9,850,000	14,780,000
Annual amount of CO ₂ reduction	12t-CO ₂ <small>(32,850x0.000366)</small>	24t-CO ₂ <small>(65,700x0.000366)</small>	36t-CO ₂ <small>(98,550x0.000366)</small>

※ Cost cut = Power reduction × 131,400hours × 10yen
 ※ 0.000366(t-CO₂/kWh) is the coefficient of CO₂ emitting amount by the 2007's data of the Kansai Electric Power Co., Inc.