

## Case Study: Air-con plant water pump shaft sealing

### Problem

Costly shut downs from short seal life

Frequent and costly pump shut downs caused by mechanical seal failures: average seal life of just two months on single seal arrangement, resulting in unnecessarily high maintenance costs.

### James Walker solution

Replacement of mechanical seal with a KlickFix® cartridge containing six sequentially deployable sealing lips.

Stored lips are easily and quickly deployed when required and the pump put back on-line within seconds. This allows for simplified scheduling of maintenance and avoids unnecessary downtime.



### Results and benefits

The first KlickFix® sealing lip lasted for two months - matching the average mechanical seal life but the KlickFix cartridge contains a further five sealing elements.

Helping customer achieve goals of adopting innovative technology and improving sustainability.

Seal life extended by up to **6x**

### Application

Cold water pump within air conditioning unit at a pharmaceutical plant in Brazil.

Omel Pumps A-130, horizontal configuration, 4¾" (120 mm) nominal shaft diameter.



### Existing solution

Silicon carbide faced mechanical seals on the pump shaft.



Mean time between replacement increased by a factor of six



Elimination of unscheduled downtime



Zero leakage in operation



Reduced maintenance and simplified maintenance planning