

# Have you considered the energy cost of compressors?

**"Energy consumption" accounts for approximately 80% of the lifecycle cost.**

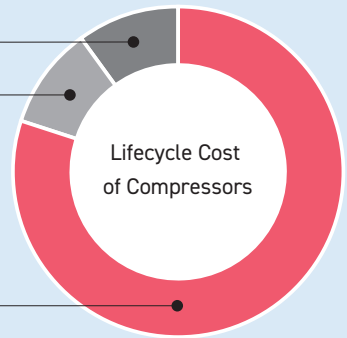
The initial investment and maintenance costs each represent about 10%, with the majority being energy consumption.

Maintenance 10%

Initial Investment 10%

Energy Consumption

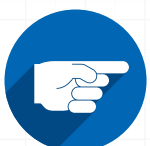
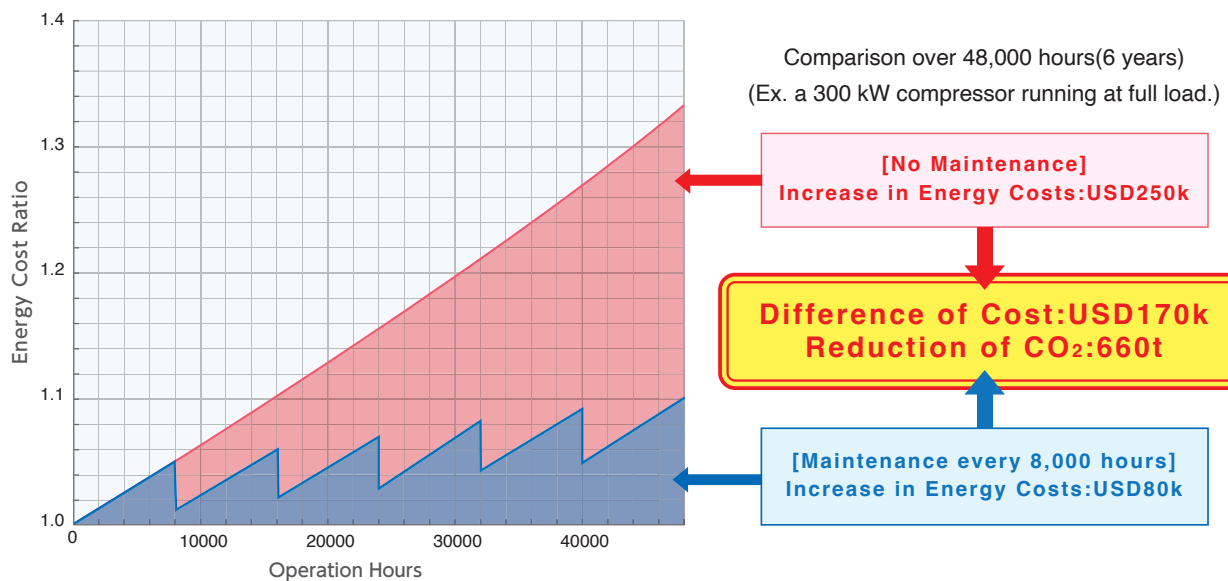
**80%**



## As the operating hours of compressors increase, energy costs continue to rise.

The specific power consumption of compressors deteriorates due to the accumulation of dirt during operation. As a result, the required shaft power per unit flow rate increases, leading to higher energy costs. Even if the compressor appears to be operating without any abnormalities, the energy consumption is actually increasing.

- ▶ If operated without maintenance for 48,000 hours, the energy costs can worsen to approximately 1.3 times compared to the initial condition.
- ▶ Regular maintenance can minimize the specific power consumption and limit energy cost increases.



Understanding the current performance and energy costs is the key to optimal maintenance and renewal planning.

# IHI Air-Audit

(Field Performance eValuation)

**We promise to our best solutions can be good fit to your compressors management.**

- High-precision measurement devices
- Detailed analysis of efficiency costs
- Optimization proposals based on measurement results
- Consultation by IHI authorezed engineers

\*Performance diagnostics for compressors from other manufacturers also available

