

# Energy efficiency potential in refrigeration

Plate heat exchanger technology enables a 10% energy reduction compared to shell-and-tube technology.

Alfa Laval offers a complete product range that can handle all types of natural refrigerants



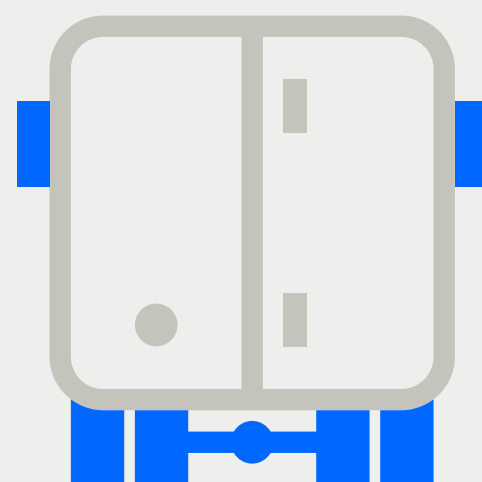
## Alfa Laval's contribution

### Yearly new installations

Every year, new Alfa Laval plate heat exchangers save 367 GWh of electrical power and reduce CO<sub>2</sub> by 84,000 tonnes, compared to traditional technologies. That is the annual amount of CO<sub>2</sub> emitted by:

**1,000**

Heavy trucks

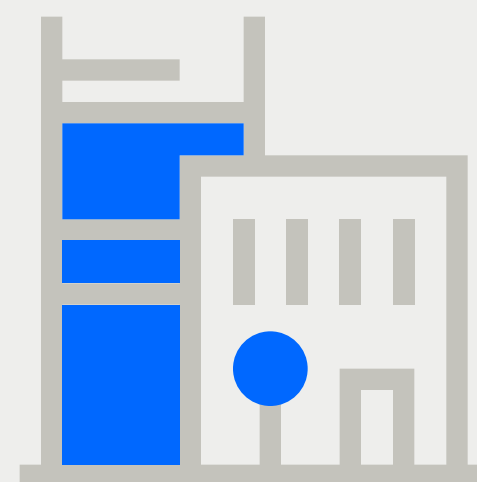


### Total installed base

Alfa Laval's installed base of heat exchangers annually saves 5.5 Twh of energy and 1.25 million tonnes of CO<sub>2</sub>. That is enough energy to cool:

**2,5 million**

Singaporean homes

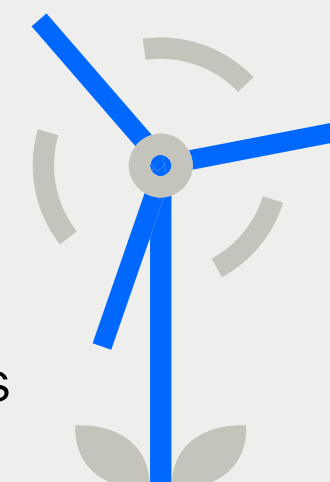


### Service potential

If all plate heat exchangers in refrigeration were serviced to optimize heat transfer efficiency, energy consumption could be reduced by 400 GWh per year – the same amount generated by:

**40**

Wind turbines



### Imagine if...

...all refrigeration plants used plate heat exchangers instead of traditional technology. That would save 628 GWh of electrical power every year and reduce CO<sub>2</sub> emissions by 144,000 tonnes. That is equivalent to:

**470**

Flights between London – Shanghai

