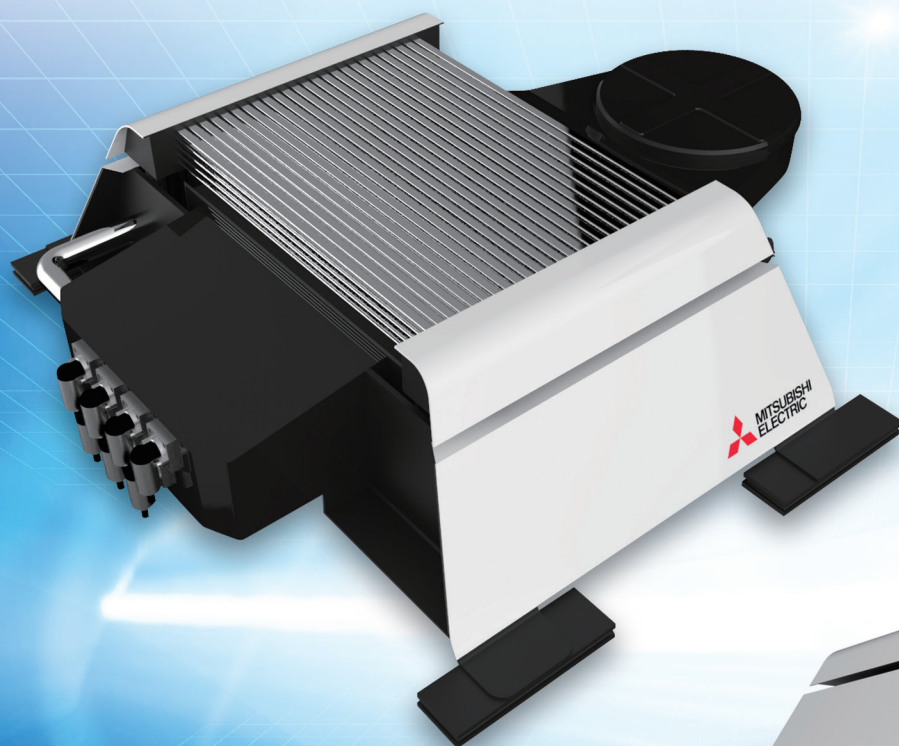


# Traction Transformer

## Eco Transformer



**IRIS**  
Certification

MELCO traction transformers  
are IRIS certified.  
(Category-4, power system)

**Loss**

**50%**  
*reduction*

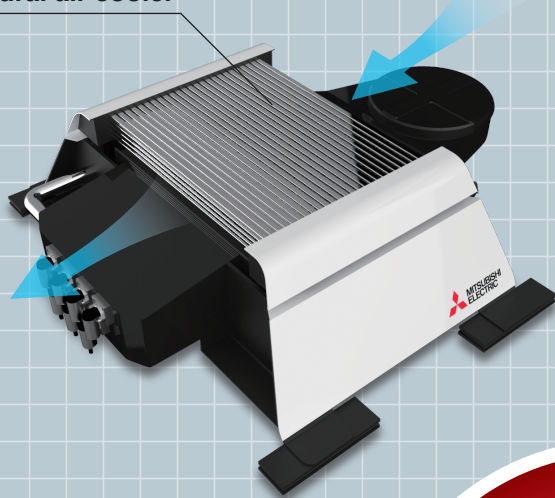
**Sound**

**13 dB**  
*reduction*

**LCC**

**70%**  
*reduction*

Natural air cooler



## Natural Air Cooling System

**Design**  
(Appearance)

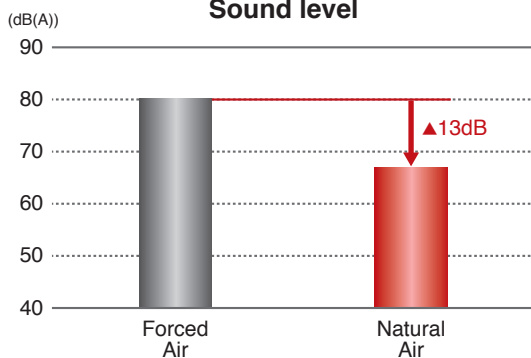
**Energy saving**

**Silent**

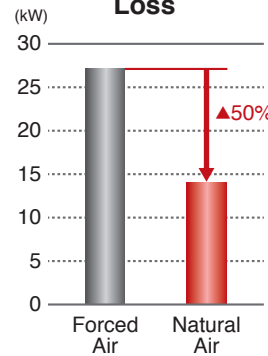
**Lower LCC**

- Sound power level can be reduced 13dB by applying natural air cooling system. (80dB → 67dB).
- Comfortable and quite space can be achieved by sound power level reduction, inside the cabin and at the platform.

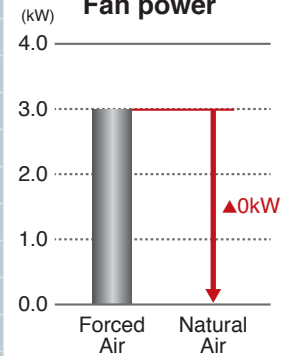
Sound level



Loss



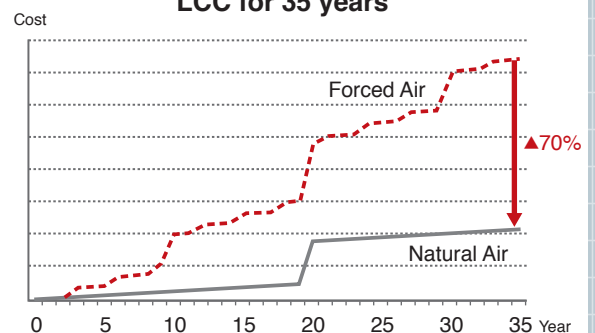
Fan power



- Loss can be reduced by MELCO's weight/size reduction technology.
- Fan power can be reduced to 0kW by applying natural air cooling system.
- Higher efficiency can be achieved by energy saving tech.

- LCC can be reduced by MELCO's technical features.
  - No maintenance of blower
  - No cleaning of cooler
  - No exchange of oil
  - Less maintenance by high reliability and high quality

LCC for 35 years



In-house comparison

**MITSUBISHI ELECTRIC CORPORATION**

<http://www.MitsubishiElectric.com>