Beyond Expectations

LEADING BRAND OF RADIATOR & AC CONDENSER IN AFTERMARKET INDUSTRY

NAGOYA JAPAN SINCE 1956

Over 60 Years Experience in Heat Exchange Industry

OE Equivalent Quality

Over 4000 Part Number

Low Defect Rate Of 0.22%
Radiator Quality Comparison

**KOYORAD**

1. Mounting Nut
2. Fin alignment
3. Fin louver
4. Tank thickness
5. Brazing
6. Oil cooler inner fin

**HEAT RADIATION COMPARISON**

KOYORAD (16mm core thickness) performance is 23% higher than other brand (27mm core thickness).

- **KOYORAD**: OE product, KOYORAD product, Other product

**KOYORAD**

- Uniformed alignment
- Uniform thickness of 3.5mm

**OTHER BRAND**

- Inconsistent alignment leads to less heat dissipation
- Uneven thickness between 2.0-3.5mm, higher risk of leakage due to constant pressure attack at the thinnest area

**KOYORAD**

- Precision-cut louvers ensure high cooling performance
- Strong brazing bonds

**OTHER BRAND**

- Without stopper, higher risk of dislodging
- Insufficient and poorly cut louvers
- Poor brazing susceptible to tube leakage

**KOYORAD**

- Inner fin of concentric oil cooler
- Flattened 10mm

**OTHER BRAND**

- Inner fin of concentric oil cooler
- Flattened 10mm

Compare to other brand, exposed surface area is 80% more and finer fin forming ensures higher heat exchange.
Condenser Quality Comparison

1. **Inlet union**
   - OE spec appearance
   - Shape different from OE spec

2. **Upper bracket**
   - Stamped & drawn parts are fitted with rivet

3. **Lower bracket**
   - With mounting rubber parts as per OE spec
   - Without mounting rubber parts, usually reuse from OE unit

4. **Tube cut-section**
   - 15 holes
   - More holes, allows optimum flow to maximize refrigerant efficiency
   - Fewer and bigger holes, creates faster refrigerant flow which result in less cooling performance

5. **Fin louver**
   - 12 louvers. Consistent & clear louver cuts, high cooling performance
   - 8 louvers. Inconsistent louver cuts with burr, less cooling performance

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**FLOW RATE COMPARISON**

- High refrigerant flow rate results in less cooling performance
- Entrance pressure (MPa) vs. Flow rate (L/min)
  - OE product
  - KOYORAD product
  - Other product

KOYORAD's standard test conditions
KOYORAD INTERNATIONAL OPERATIONS PTE LTD

SINGAPURE
8 Temasek Boulevard,
#40-03 Suntec City Tower 3,
Singapore 038988
Tel: +65 6235 2003  |  Fax: +65 6235 3207
Email: info@koyorad.com.sg

THE NETHERLANDS (Warehouse Sales)
Rietveldenkade 28,
5222 AJ's-Hertogenbosch,
The Netherlands
Tel: +31 (0) 73 6205 600  |  Fax: +31 (0) 73 6205 609
Email: info@koyorad.nl

The Pursuit of Infinite Possibilities of Heat Exchange Technology