The Next Generation of Refrigerants

How low-GWP and natural refrigerants are changing thermal systems — and what it means for aftermarket service.

The global shift toward lower-GWP refrigerants — including R1234yf, R290, and other emerging technologies — is reshaping A/C system design and service requirements across Europe. For technicians, staying current on refrigerant-specific handling, oil compatibility, and approved service equipment is becoming a core part of everyday work.

TECHNICAL READINESS

- **Stay current** on R1234yf, R290, and emerging low-GWP refrigerants.
- **Follow refrigerant-specific** handling and safety procedures.
- **Use dedicated** refrigerant-approved service equipment.
- **Verify compatibility** of compressor and oil for each refrigerant.
- **Pursue updated training** as new refrigerants are adopted.
- **Apply validated procedures** — never assumptions.

KEY TAKEAWAY

The future of thermal management will include multiple refrigerant pathways. Technicians who understand these evolving systems will be best prepared for the next generation of vehicle service.

Technical Reference
Product sales sheet and exploded-view service drawings are available from your TCCI representative.