

Turnkey Radiators for CAT® 3500C Engines.

At API Heat Transfer, our turnkey radiators are the perfect alternate solution when CAT factory options do not meet project specifications. Choose from pre-engineered models or request a custom-sized solution based on your specific rating and site conditions.

Our 3500C cooling packages feature unique high-performance cores and a low-horsepower fan, engineered into a compact envelope that includes the drive kit and pipe kit. It's a high-quality, integrated solution, providing the durability and performance your application demands.

Specifications.

Radiator core.

High-strength, proprietary LF-20™ lead-free cores provide eight times the fatigue strength of conventional cores.

ATAAC core.

Our patented TBAR-brazed aluminum cores handle high temperatures and extreme pressures for reliable, trouble-free service.

Radiator skid.

The radiator base is custom-designed to interface with your engine/skid assembly. The component features our robust H-frame structural channel construction.

Fan and fan drive.

The fan and fan drive are engineered to provide maximum cooling effectiveness while minimizing parasitic fan hp draw. Our reliable and easy-to-adjust belt-tensioning design provides ease of maintenance.

Bearings.

The highest-quality double-row tapered roller bearings feature contact seals for long life. Two bearings used with each machined shaft ensure improved bearing performance for the life of the cooling system.

Pipe kit.

Custom-designed formed pipes feature flanged connections to interface with your engine/skid assembly. The kit includes all necessary Aeroquip flexible couplings, hump hoses, bellows, clamps, and supports.

Paint and plating.

All-steel components are powder-coated in any color you specify to provide superior adhesion and corrosion resistance.

Serviceability.

Cooling packages feature core cleanout panels, quick-access service panels on belt guards to facilitate maintenance, and externally accessible bearing grease fittings that provide exceptional ease of service.



Standard features.

- Drive kit with premium sheaves, belts, and stub shaft
- Hardware kits to mount the radiator skid to the engine skid
- Murphy Level Swichgag® and sight glasses
- JW pipe kit with Aeroquip® flexible couplings
- OSHA-approved fan guard and belt guard
- Integrated fuel cooler
- Black medium-gloss powder-coat paint for exceptional protection
- ATAAC pipe kits with premium high-temp hump hoses, bellows, constant torque t-bolt clamps, supports, and restraints
- Engineered vibration-isolated ATAAC mounts for trouble-free operation

Optional features.

- Custom designs available for any application and site conditions
- Vast array of high-performance core types to accommodate any end-use application
- Premium mechanically bonded cores available for extreme duty
- Radiators can be fitted with our exclusive Sand-Blast Grid to protect/extend life of core
- Low noise configurations
- High and low ambient temperature configurations
- Corrosion-resistant packages
- RhinoDrive™ eliminates harsh inertia stress and backlash conditions; reduces stress on fan-drive components during high-torque startup and shutdown

Performance chart.

| Engine Model | Standby Rating (EKW) | RPM | LAT (°F) | Elevation (ft.) | External Restriction (H ₂ O) | Size (sq. ft.) | Model # |
|--------------|----------------------|------|----------|-----------------|---|----------------|-------------------|
| 3512C | 1500 | 1800 | 104 | 1000 | 0.50 | 51 | 15-104-10-0.50-51 |
| 3512C | 1500 | 1800 | 104 | 3000 | 0.50 | 51 | 15-104-30-0.50-51 |
| 3512C | 1500 | 1800 | 104 | 1000 | 1.00 | 51 | 15-104-10-1.00-51 |
| 3512C | 1500 | 1800 | 104 | 3000 | 1.00 | 51 | 15-104-30-1.00-51 |
| 3512C | 1500 | 1800 | 122 | 1000 | 0.50 | 56 | 15-122-10-0.50-56 |
| 3512C | 1500 | 1800 | 122 | 3000 | 0.50 | 56 | 15-122-30-0.50-56 |
| 3512C | 1500 | 1800 | 122 | 1000 | 1.00 | 56 | 15-122-10-1.00-56 |
| 3512C | 1500 | 1800 | 122 | 3000 | 1.00 | 56 | 15-122-30-1.00-56 |
| 3516C | 2000 | 1800 | 104 | 1000 | 0.50 | 56 | 20-104-10-0.50-56 |
| 3516C | 2000 | 1800 | 104 | 3000 | 0.50 | 56 | 20-104-30-0.50-56 |
| 3516C | 2000 | 1800 | 104 | 1000 | 1.00 | 56 | 20-104-10-1.00-56 |
| 3516C | 2000 | 1800 | 104 | 3000 | 1.00 | 56 | 20-104-30-1.00-56 |
| 3516C | 2000 | 1800 | 122 | 1000 | 0.50 | 61 | 20-122-10-0.50-61 |
| 3516C | 2000 | 1800 | 122 | 3000 | 0.50 | 61 | 20-122-30-0.50-61 |
| 3516C | 2000 | 1800 | 122 | 1000 | 1.00 | 61 | 20-122-10-1.00-61 |
| 3516C | 2000 | 1800 | 122 | 3000 | 1.00 | 61 | 20-122-30-1.00-61 |
| 3516C | 2500 | 1800 | 104 | 1000 | 0.50 | 61 | 25-104-10-0.50-61 |
| 3516C | 2500 | 1800 | 104 | 3000 | 0.50 | 61 | 25-104-30-0.50-61 |
| 3516C | 2500 | 1800 | 104 | 1000 | 1.00 | 61 | 25-104-10-1.00-61 |
| 3516C | 2500 | 1800 | 104 | 3000 | 1.00 | 61 | 25-104-30-1.00-61 |
| 3516C | 2500 | 1800 | 122 | 1000 | 0.50 | 69 | 25-122-10-0.50-69 |
| 3516C | 2500 | 1800 | 122 | 3000 | 0.50 | 69 | 25-122-30-0.50-69 |
| 3516C | 2500 | 1800 | 122 | 1000 | 1.00 | 69 | 25-122-10-1.00-69 |



Sizing chart.

| Size (sq. ft.) | Height (in.) | Width (in.) | Depth (in.) |
|----------------|--------------|-------------|-------------|
| 51 | 107.00 | 101.88 | 84.31 |
| 56 | 115.00 | 101.88 | 84.31 |
| 61 | 122.88 | 101.88 | 84.31 |
| 69 | 128.88 | 108.13 | 84.31 |

Custom configurations available for other ratings and site conditions. Consult factory for TIER IV requirements.