



*Genuine Thermo King Filters*  
*Maximum filter effectiveness.*





# Genuine Thermo King Filters

reduce operating costs while  
keeping your fleet green!

- Reduce your maintenance costs by at least 45% over imitation
- One Thermo King filter has the capacity and efficiency equivalent to as many as 5 imitation filters
- Reduce labor cost associated with multiple filter changes
- Reduce clean-up and disposal costs
- Reduce environmental impact with less spillage and waste
- Extend your engine life with maximum filtration efficiency
- Free up inventory by reducing the need to stock excess filters



Thermo King saves you money by engineering specifically-designed filters with unmatched:



**Construction.** With a design that is created uniquely for our application, these filters meet the our customers needs.



**Capacity.** Increases the life of the filter to match our Extended Maintenance Interval (EMI) for Thermo King units.



**Efficiency.** We maximize the amount of particles that can be captured in the filter to ensure your engine keeps running for a long time.



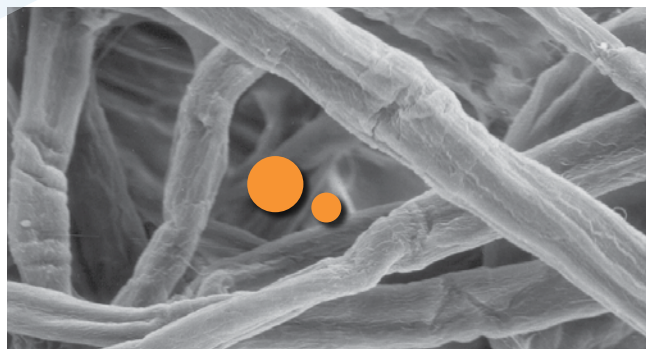
## Thermo King is the Green Leader

*Thermo King offers industry-leading products and solutions that enable businesses around the world to reduce energy consumption and costs while decreasing harmful emissions.*

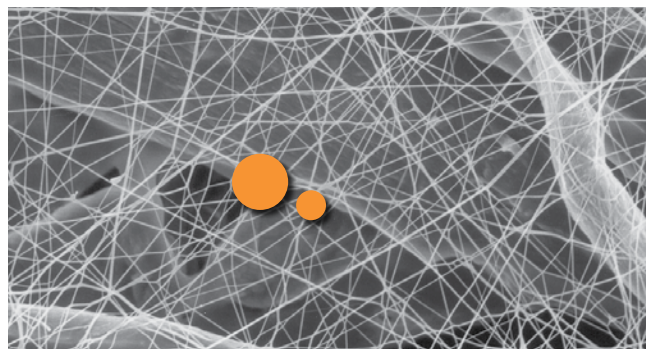


# EMI 3000 Air Cleaner Assembly & Filter System

Orange circles represent the diameter of a 2μ and a 5μ particle.



Cellulose fibers are larger and have larger spaces between the fibers, causing contaminant to load in the depth of the media and plug the airflow path; resulting in higher restriction and less capacity.

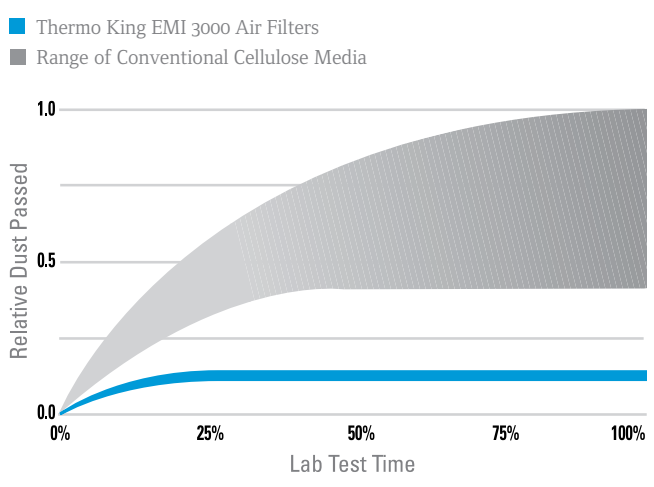


The fibers in the Thermo King filter media have submicron diameter and small interfiber spaces, which result in more contaminant being captured on the surface of the media and lower restriction.

## Filtration Performance Comparison

Thermo King EMI 3000 vs. Conventional Cellulose Air Filters

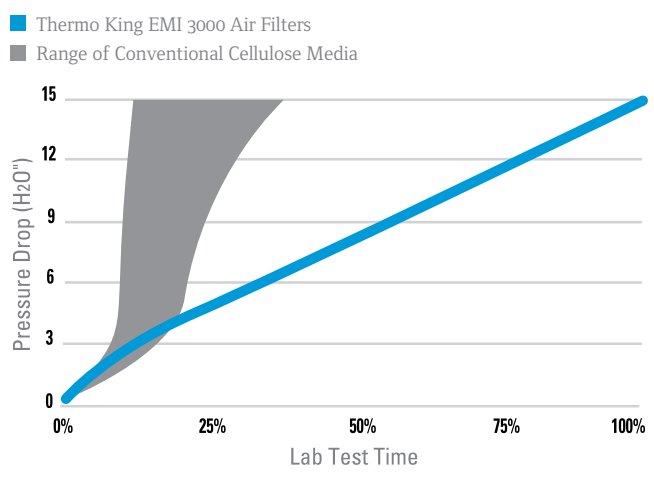
### Efficiency (Tested with Submicron Particles)



### Longer Engine Life

In laboratory and field tests conducted by Thermo King, air filters with this new filter media deliver better engine protection by allowing less contaminant to pass through the media than cellulose air filters. The filter media in the Thermo King filter also reaches a 99.99% initial efficiency faster than cellulose filters.

### Capacity (Tested with Submicron Particles)



### Longer Filter Life

The Thermo King air filter holds up to five times more contaminant than cellulose air filters, making it ideal for 3,000 hour extended maintenance intervals of the Thermo King Extended Maintenance Interval product line.

# Genuine Thermo King Fuel Filters

*offer you maximum protection against the unwanted water and impurities found in fuel.*

## EMI-3000 Fuel Filters

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*A fuel filter's job is to trap contaminants large enough to damage the fuel injection system. Damaging water, impurities and contaminants can be harsh enough to oxidize steel components within your engine and ultimately cause corrosion and rust.*

### Deliver maximum protection through:

- ✓ Coated and lined canisters to prevent corrosion
- ✓ Spring insulator to reduce electrolysis and corrosion inside the can
- ✓ Engine life is extended by avoiding the risk of corrosion caused by water
- ✓ Patented pickup tube inside the filter that returns water to fuel tank so water does not have to manually be drained from the filter and eliminates the risk that water enters the fuel pump and injectors
- ✓ Patented design that automatically removes potentially damaging water from the filter sump and returns it back to the fuel tank to be drained
- ✓ High strength gasket that resists heat and distortion for extended seal life
- ✓ Heavy-duty baseplate with double-roll tuck-lock seam that resists seal leakage due to pressure distortion
- ✓ High strength cellulose/glass media that offers superior contaminate filtering capacity and efficiency
- ✓ Water stripping media that removes water before it can damage the fuel system and extends life of engine by avoiding corrosion caused by water
- ✓ Heavy-duty, epoxy coated housing is impervious to cracking and corrosion

Protect yourself against costly engine repairs or replacement  
- use only Genuine Thermo King Fuel Filters.

# Genuine Thermo King Oil Filters

*provide your engine maximum protection against dirt and particles that can cause costly damage.*

## EMI-3000 Oil Filters



*An oil filter's job is to trap contaminants large enough to immediately damage the engine, while also capturing smaller particles (such as soot) that can affect lubrication and efficiency of your engine.*

### Deliver maximum protection through:

- ✓ High efficiency full-flow element developed for use on Thermo King units to support the extended maintenance interval and provide clean lubricant to the engine
- ✓ Designed specifically for Thermo King applications with maximum capacity and efficiency to prevent excessive engine wear and damage
- ✓ High strength gasket that resists heat and distortion for extended seal life
- ✓ Heavy-duty baseplate with double-roll tuck-lock seam that resists seal leakage due to pressure distortion
- ✓ Spiral center tube that prevents media breakdown to maximize flow
- ✓ High strength cellulose/glass media that offers superior contaminant filtering capacity and efficiency
- ✓ A patented two-stage arrangement that provides more filtering surface to increase holding capacity and filter life by directing the oil through a full-flow section and a metered portion that continues through the by-pass section while removing finer contaminants
- ✓ Steel spring that maintains pressure on seal while keeping oil from bypassing filter element
- ✓ Heavy-duty, epoxy coated housing is impervious to cracking and corrosion

Protect yourself against costly engine repairs or replacement  
– use only Genuine Thermo King Oil Filters.

# Genuine Thermo King Air Filters

*offer ultimate protection against contaminants that can cause damage and reduce fuel efficiency.*

## EMI-3000 Air Filters



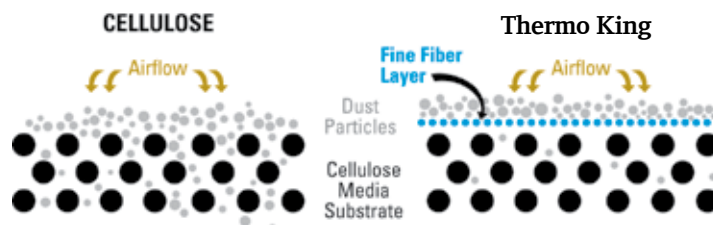
### Deliver maximum protection through:

- ✓ Patented built in cyclonic separator that filters heavier particles which get automatically discharged through the evacuation valve, preventing 75% of particles from reaching media
- ✓ Built in sonic choke for intake silencing
- ✓ High efficiency patented filter design developed for use on Thermo King units to support our extended maintenance interval
- ✓ Unique and patented filter media specially designed for Thermo King units and constructed for on-highway application
- ✓ Special media outperforms standard cellulose media by delivering higher efficiency and capturing more contaminant with less restriction
- ✓ Thermo King filter media holds up to five times more contaminant than standard cellulose air filters
- ✓ Durable polypropylene housing

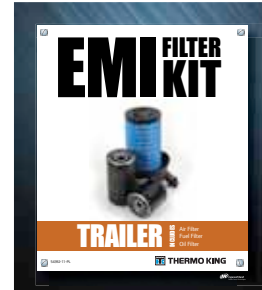
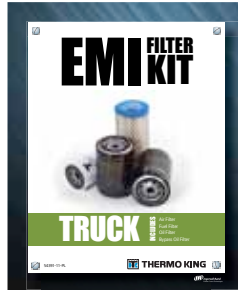
## Thermo King High Efficiency Filtration

The patented filter media in the Thermo King EMI-3000 air filter causes submicron contaminant to load on the surface rather than dispersing throughout the depth of the filter where there is less area for the air to flow. Therefore, in on-highway applications, where the contaminant is primarily soot (submicron in size), the Thermo King air filter has less restriction than filters with cellulose media. The smaller, interfiber spaces of filter media deliver higher efficiency and capture more contaminant.

### Filter Media Comparative Cross Section



## EMI Filter Kits (Truck & Trailer)



	10-416	10-417
Oil Filter	11-6182	11-9182
ByPass Oil Filter	11-9321	
Air Filter	11-9059	11-9300
Fuel Filter	11-9341	11-9342

## EMI Filter Kits (TriPac)



	10-393 (TriPac w/rubber fuel lines)	10-395 (TriPac w/nylon fuel lines built after 12/06)
Oil Filter	11-6182	11-6182
Air Filter	11-9059	11-9059
Air Filter	13-658	13-658
Fuel Filter	11-9342	11-9342
Fuel Filter	13-649	13-864

## EMI 3000 Conversion Kits

EMI conversion kits are available if your Thermo King trailer is equipped with pre-2001 filters and you want to convert to the EMI 3000 filters



Engine Conversion	Part #
Converts DI 2.2, SE 2.2 and TK 486 to spin on fuel/water filter	10-325
Converts SE 2.2 engines to EMI 3000 filters	90-329
Converts TK 482/486 engines to EMI 3000 filters	90-330
Converts TK DI 2.2, se 2.2 or TK 482/486 engines to EMI 3000 air filters	90-332



Ingersoll Rand's Climate Solutions sector delivers energy-efficient HVACR solutions for customers globally. Its world class brands include Hussmann, a manufacturer of refrigeration and food merchandising solutions, Thermo King, the leader in transport temperature control and Trane, a provider of energy efficient heating, ventilating and air conditioning systems, building and contracting services, parts support and advanced controls for commercial buildings and homes.