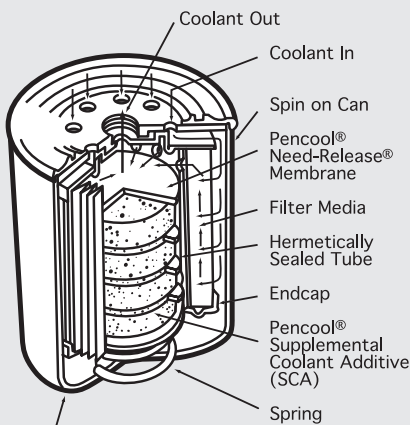




NEED-RELEASE® EXTENDED SERVICE Coolant Filter



Need-Release® Filters

NF2088
Fits standard filter bracket for Detroit Diesel, Caterpillar, Cummins, Ford, etc. engines. Compatible with an 8-20 gallon cooling system capacity that has been pre-charged with 1200-1400 PPM nitrite.

NF20891
Fits Mack, Mid-Liner, Mack V-8, 65, and Econo-Dyne series engines. Compatible with an 8-20 gallon cooling system capacity that has been pre-charged with 1200-1400 PPM nitrite.

NFC2090
Fits Mack, ESI, E-9, and Maxi-Dyne engines. Compatible with an 8-20 gallon cooling system capacity that has been pre-charged with 1200-1400 PPM nitrite.

NF2091
Fits standard filter bracket for Detroit Diesel, Caterpillar, Cummins, Ford, etc. engines. Compatible with an 8 gallon or less cooling system capacity that has been pre-charged with 1200-1400 PPM nitrite.

The PENRAY **NEED-RELEASE**® extended life cooling system treatment senses the coolant condition and releases the exact amount of additive necessary to properly protect the system. This **NEED-RELEASE**® filter is used in Penray's **FILL-FOR-LIFE**® extended service coolant program.

Eliminates Over-Inhibited or Under-Inhibited Cooling Systems

- The **NEED-RELEASE**® cartridge's patented membrane technology continuously monitors the condition of the coolant. The SCA is released as needed, not when spun on. As the inhibitors deplete, these sensitive membranes sense coolant condition and release fresh SCA. The filter lasts 150,000 miles, 15 months, or 3,000 hours.

Reduces Costs

- Helps eliminate costly downtime - 40% of all down-time is related to cooling system failures.
- Reduces labor costs because one cartridge replaces 8 to 10 ordinary filters.

Minimizes Waste

- Reduces filter waste up to 90 percent.
- Low total dissolved solids (TDS) extends coolant life to overhaul, which means less coolant for disposal.

Laboratory Tested/Road Proven

- Thousands of hours and billions of miles of fleet use have validated this incredible technology.

For more information, contact:

**Penray Technical Service at
1-800-322-2143**

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