

# STAY COOL,



# WE'VE GOT YOU PROTECTED!

Penray has been the leader in cooling system technology for decades. With an impressive line-up of filters, liquids, test strips, and cleaners we can help you maintain any cooling system. Maybe that's why Penray technology is approved for use by every major engine manufacturer including Caterpillar, Cummins, Detroit Diesel, Deutz, EMD, MTU, Scania, and Wartsilla. Not to mention that we are standard factory fill at American LaFrance, Freightliner, Kenworth, Mack, MCI Coaches, Peterbilt, Volvo, and Western Star. Plus, the Need-Release® Extended Life filter is a standard option at all truck and coach manufacturers.

Penray works for all engine applications, including on-highway, marine, construction, industrial, refrigeration units, generators, and more. So use Penray and stay cool.

**We've got you protected.**

**THE PENRAY COMPANIES, INC.**

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## COOLING SYSTEM FILTERS

Part No.	Product	Description	Treats	Lasts
NF2088	Need-Release® Extended Life Cooling System Filter	Standard filter bracket Detroit, Caterpillar, Cummins, International	8-20 gal	150,000 miles, 15 months, or 3,000 hours
NF20891		Fits Mack, Mid-Liner, Mack V-8 65 and Econodyne Series Engines	8-20 gal	150,000 miles, 15 months, or 3,000 hours
NFC2090		Fits Mack ESI, E-9, and Maxi-Dyne Engines	8-20 gal	150,000 miles, 15 months, or 3,000 hours
NF2091		Mid-Range standard filter bracket Detroit, Caterpillar, Cummins, International	1-8 gal	150,000 miles, 15 months, or 3,000 hours
NF2095		Fits Cummins® ISX Engines	8-20 gal	150,000 miles, 15 months, or 3,000 hours
NF2096		Fits Mack MP7 and MP8, and Volvo D11, D13, and D16 Engines	8-20 gal	150,000 miles, 15 months, or 3,000 hours
NF3000	Pencool® Cooling System Filter	Single dose of Pencool® 3000	4-16 gal	1 regular maintenance interval
NF2999	Non-Charged Coolant Filter	Blank coolant filter	N/A	50,000 miles

All filter treat rates listed are maintenance doses. If the coolant does not contain any inhibitors prior to filter use, a portion of the inhibitor used in the typical maintenance dose will be used to bring the coolant up to par, thus reducing the maintenance life of the filter. Penray recommends that you start your coolant maintenance by using TMC type RP-329 or RP-330 antifreeze.

## LIQUID COOLING SYSTEM TREATMENTS

Part No.	Product	Description	Contents	Treat Directions
300005	Pencool® 3000 with Stabil-Aid® Cooling System Treatment	Prevents the formation of deposits that plug radiator passages. Maintains proper coolign system characteristics. Reduces water pump wear. Reduces scale and corrosion. Prevents cavitation. Lubricates water pumps and metal surfaces. Recommended for coolants containing ethylene or propylene glycol.	5 gal	Precharge= 1 pint per 4 gals cool. syst. cap. Maintain= 1 pint per 20 gals of cool. syst. cap.
300016			16 fl oz	
300055			55 gal	
300064			64 fl oz	
200005	Pencool® 2000 Cooling System Treatment	Reduces scale and corrosion. Controls formation of deposits. Reduces metal corrosion and cavitation. Ideal for marine and other non-glycol applications.	5 gal	Precharge= 1 pint per 4 gals cool. syst. cap. Maintain= 1 pint per 20 gals of cool. syst. cap.
200016			16 fl oz	
200055			55 gal	
200064			64 fl oz	

## TEST STRIPS

Part No.	Product	Description	Contents	Usage Information
TS100	Penray Heavy-Duty Test Strips	Quick and accurate results in seconds. Tests freeze point and nitrites.	50 Strips	Dip strip and check results
TS102			10 Strips	
TS200	Penray Universal 3-Way Heavy-Duty Test Strips	Quick and accurate results in seconds. Tests freeze point and nitrites.	25 Strips	Dip strip and check results
2038	Automotive Test Strips	Quick and accurate results in seconds. Tests freezepoint and pH in automotive coolants.	25 Strips	Dip strip and check results

## COOLING SYSTEM CLEANERS

Part No.	Product	Description	Contents	Usage Information
200164	On-Line Cooling System Cleaner	Cleans cooling systems while they remain in service. Eliminates light scale and corrosion. Removes harmful mineral and oxide deposits	64 fl oz	Add 1/2 gal per 8 gals cooling system capacity. At next maintenance interval, flush and refill with Coolant and Pencool® 3000
200105			5 gal	
200155			55 gal	
201549	Off-Line Cooling System Cleaner	Removes harmful scale and sludge deposits. Removes oil. Flushes the entire system of all deposits.	2- 8 lb bot	Requires engine shutdown