

# DEF FILTRATION

## INTRODUCTION

Northside Industries (NSI) Diesel Exhaust Fluid (DEF) Filtration Unit provides end users a simple and effective means of filtering DEF.

**DEF** is a non-toxic, non-hazardous, non-flammable solution consisting of 67.5% de-ionized water and 32.5% urea.

**DEF** is used in Selective Catalytic Reduction (SCR) systems found in medium and heavy-duty diesel trucks in order to meet EPA 2010 emission standards as well as the Canadian Environmental Protection Act for off road compression ignition engines. DEF cleanliness is crucial to SCR performance and equipment operation.

**DEF** is easily contaminated resulting in such issues as increased emissions, SCR system shutdowns and potential catalyst damage and voiding manufacturers warranty.

## DEF FILTRATION UNIT

The NSI DEF Filtration Unit is a mobile unit allowing users to store, filter and close-end feed cleaned DEF back into vehicles onboard storage tanks.

Consisting of a stainless-steel storage tank c/w level indicator and heater for freeze protection, the DEF unit is supplied with input and output hose lines for connection to user couplings and/or nozzles. DEF specific pump and filter provides pumping and filtration.

Ease of use is achieved via standard plug in power supply to pump and heater (if required) circuits. Just connect input hose to DEF tank/source and gravity feed DEF into unit's storage tank. To return cleaned DEF, connect output hose to desired location, turn on pump and filtered DEF will flow. Storage tank level is visible via level gauge.

### TECHNICAL INFORMATION:

Tank: 71 US Gal (270ltr.)  
Pump: 9 US GPM, 120V, 60Hz, 500W  
Filter: 1 micron @ Beta 5000 (99.98% Efficiency)  
Material: 304 Stainless Steel  
Hose Lines: 10ft, 3/4" c/w NPT thread  
Heater: 120V, 60Hz, 1200W thermostatically controlled

**OPTIONS:** Various tank capacities and flow rates available.

