

*continuous purification ~ simple package ~ proven reliability*

# AmiPur<sup>®</sup>-PLUS

## **Most Advanced Amine Purification System for the Removal of Heat Stable Salts from Amine Circuits**

The **AmiPur<sup>®</sup>-PLUS**, using Recoflo<sup>®</sup> ion exchange technology, is a skid-mounted, compact system that continuously removes Heat Stable Salts (HSS) from amine solutions, including MEA, DEA, MDEA, DIPA, Sulfinol<sup>®</sup>, DGA<sup>®</sup> and proprietary and formulated amines. It cleans amines in refineries, gas plants, synthesis gas plants and integrated steel mills.

HSS are formed in amine circuits as a result of the introduction of trace contaminants produced in upstream operations or amine degradation. If allowed to continuously build up, the salts cause the following problems:

- Loss of acid gas absorption capacity
- Large amine losses
- Increased amine replacement and make-up
- Excessive foaming
- Corrosion

Removing and controlling the level of HSS not only maintains system capacity and capability, but also reduces corrosion and related operating instability.

The **AmiPur<sup>®</sup>-PLUS** offers increased capacity and added value\* compared to competing amine purification technologies including up to:

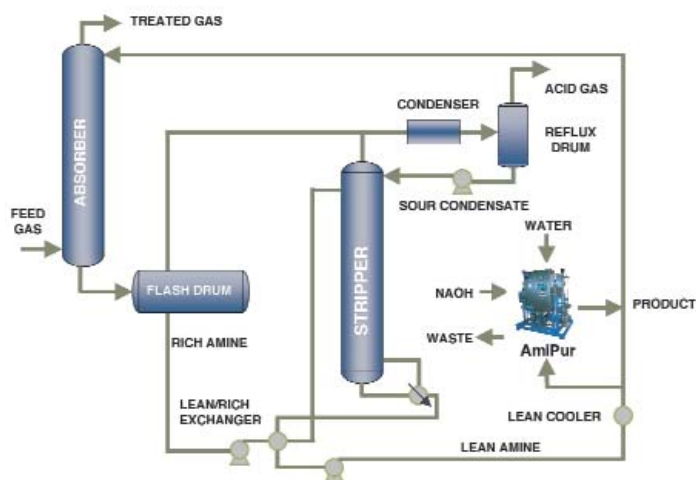
- **35%** less NaOH usage
- **35%** less waste volume
- **22%** less water usage
- **75%** less resin used



◀ Amine, before and after AmiPur<sup>®</sup> installation



**AmiPur<sup>®</sup>-PLUS**



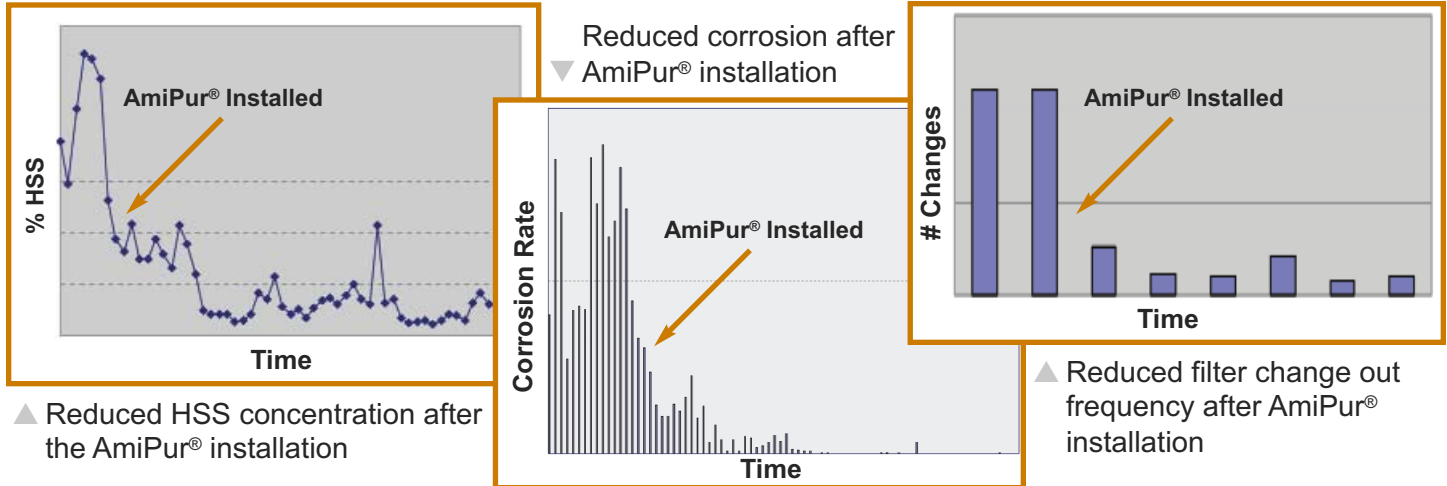
AmiPur<sup>®</sup>-PLUS continuous purification

\*per kg/hr of HSS removal

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## Installation and Operation

Eco-Tec **AmiPur®-PLUS** systems are designed based on international standards for installation in refineries and gas plants. The system is fully automated with all instrumentation, PLC and programming to operate unattended, efficiently and safely. A range of standard options is available to adapt the system to any refinery and plant specifications. Eco-Tec provides all manuals and training in English and other languages. At start-up, Eco-Tec provides a service engineer onsite for initial commissioning and training of operators.



**For a FREE system analysis, please fax completed form to 905-427-4477 or email to [amipur@eco-tec.com](mailto:amipur@eco-tec.com)**

Name \_\_\_\_\_ Company \_\_\_\_\_  
 Title \_\_\_\_\_ Email \_\_\_\_\_  
 Phone \_\_\_\_\_ Fax \_\_\_\_\_

Amine Type \_\_\_\_\_  
 Amine Volume in circulation \_\_\_\_\_ gallons (liters)  
 Current HSS concentration\* \_\_\_\_\_ wt% as equivalent amine  
 Desired HSS concentration \_\_\_\_\_ wt% as equivalent amine  
 Amine concentration \_\_\_\_\_ wt% as amine  
 Lean amine loading \_\_\_\_\_ mol/mol H<sub>2</sub>S+CO<sub>2</sub>

**OR**  
 HSS build up rate \_\_\_\_\_ lb/hour (kg/hour)

\*Unsure of your HSS concentration? **Contact us** to inquire about Eco-Tec's Amine HSS-Pak™, the portable HSS analysis kit for quick, reliable, accurate HSS calculations!



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