

Safety Power's Simplex Urea Transfer System (UP201)

Description

SCR systems work by injecting urea over a catalyst bed to convert NOx into harmless nitrogen gas and water vapor. SPI's control & dosing panel contains a compact injection pump that is capable of drawing up to 8ft of suction head. As a result, sites where the urea supply tank is at a significant distance or at a lower elevation require a Urea Transfer System. Multi-engine SCR installations with a common urea tank will also need a Urea Supply System. These systems must take into account unique urea liquid issues, the reliable delivery of the liquid and finally ease of use for the operators of the facility. The Urea Transfer System described herein is suitable for installations with 1-5MW (1-3 gensets) that do not require redundancy.

It is important that the transfer pump be equipped with filters that are suitable for urea service. It is best to pick a vendor who has experience with urea transfer systems as there are considerable differences from fuel systems.

For installations that are larger or require redundancy please ask about Safety Power's Duplex Urea Transfer System (UP202).

Features

- Reliable duplex pump configuration
- Transfer pump system built-in to control panel
- Stainless Steel 304 construction
- Fully integrated with Safety Power's control panel & display
- Tank high/low level alarm display
- Pressure high/low alarm display
- Lockable panel
- Check valve
- Built in filter



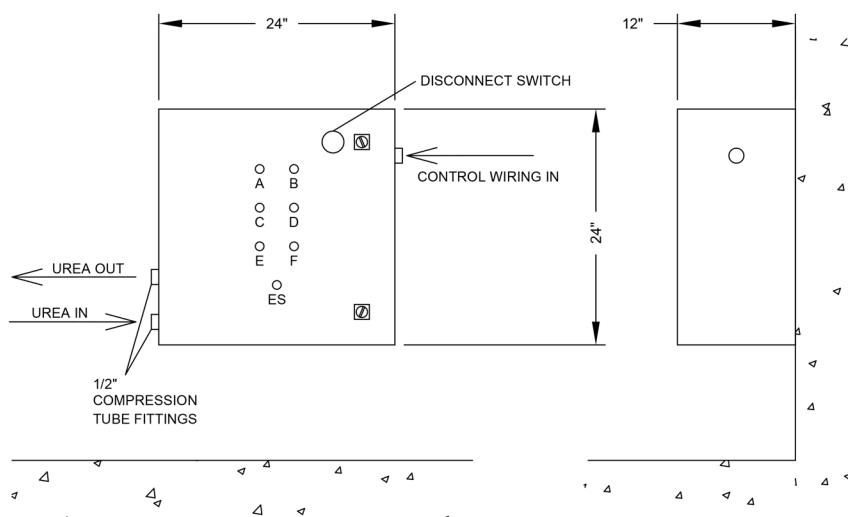
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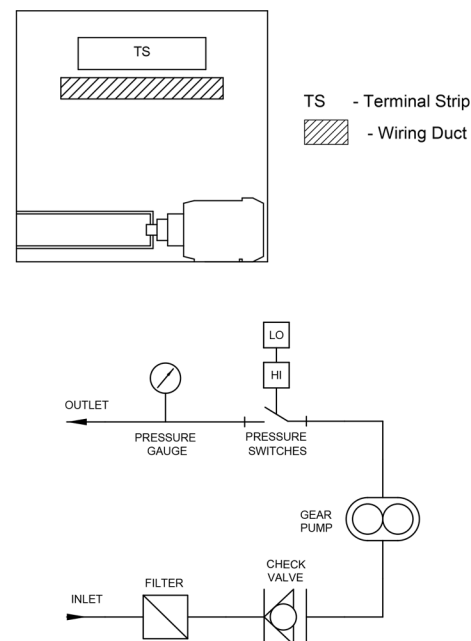
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DIMENSIONAL DRAWING



A - Panel Power ON Indicator • B - Pump Running Indicator • C - Low Pressure Indicator • D - High Pressure Indicator
E - Off / Auto / Manual Switch • F - Fault Reset Push Button • ES - Emergency Stop

BLOCK DIAGRAM



INSTALLATION REQUIREMENTS

- Panel to be installed indoors
- Minimum ambient room temperature is 0°C (32°F)
- Maximum ambient room temperature is 50°C (122°F)
- If installed in same room as SCR or generators, ensure that there is sufficient ventilation to keep room temperature below 50°C (122°F)
- Panel not to be mounted within 6ft of a heat source (Engine, SCR or other)
- Install isolation ball valves on urea in and urea out lines for ease of servicing

INSTALLATION GUIDELINES

- Install pumps in close proximity to urea storage tank
- Install pumps such that urea tank provides gravity fed supply to urea inlet
- Consult with Safety Power to determine ideal installation location

About Us

Safety Power is the global innovator in emissions control for large scale diesel and natural gas engines. The company manufactures the ecoCUBE® SCR, ecoTUBE™ SCR, FOx® and Ox™ range of product that reduce NOx, CO, VOC and PM emissions on engines from 500kW up to 20MW and beyond.

Safety Power also has extensive experience with the associated urea storage & transfer system accessories. This includes urea tanks, air compressors, urea transfer pump systems, fill stations and more.

For more information about our emissions control systems & accessories please contact info@safetypower.ca