

Proposed Animation

DEF RECIRCULATION

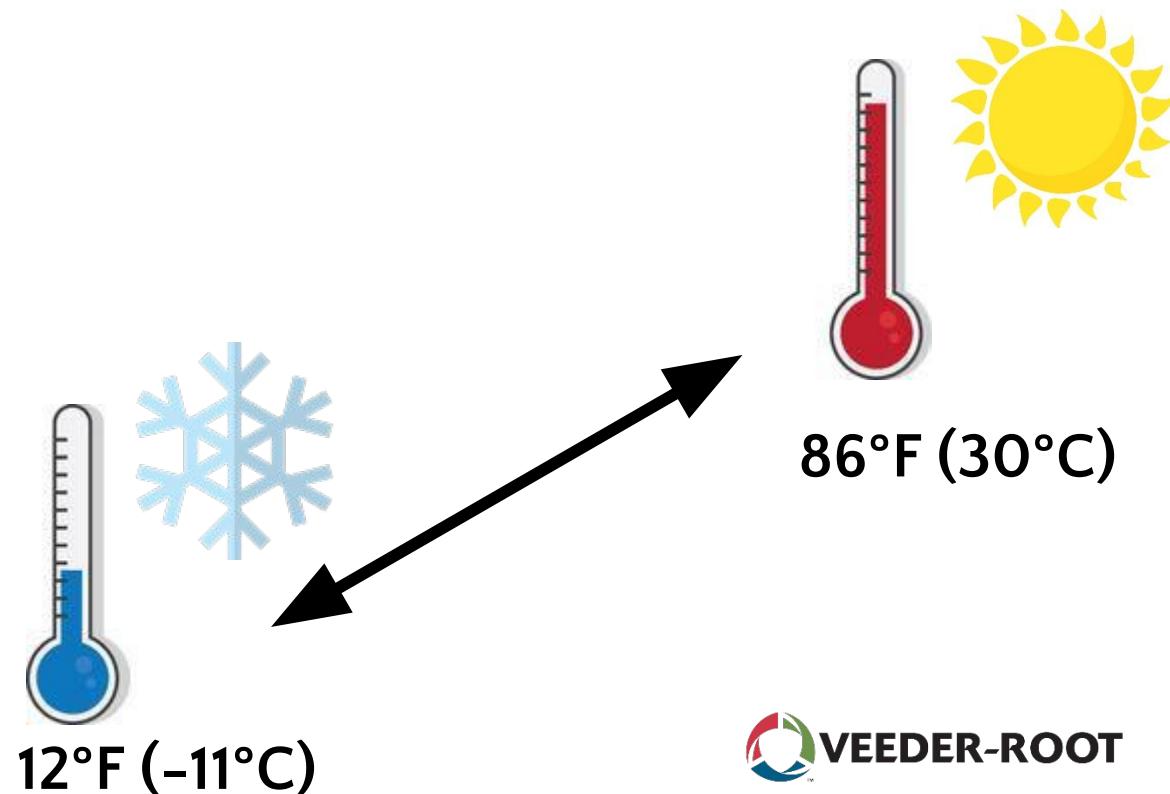
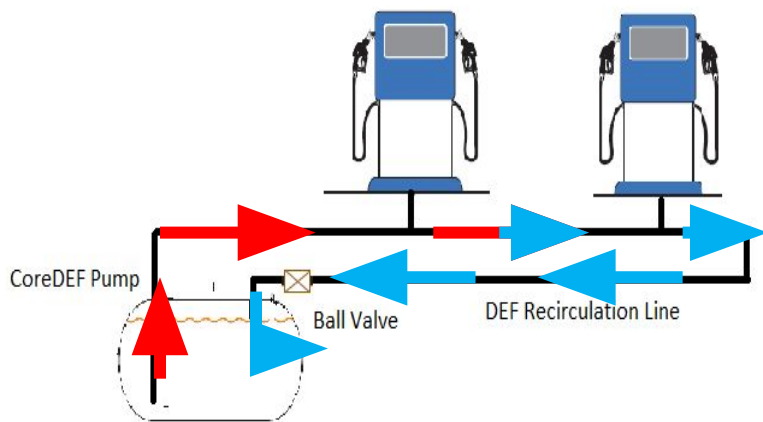
AND TEMPERATURE CONTROL

Introduction

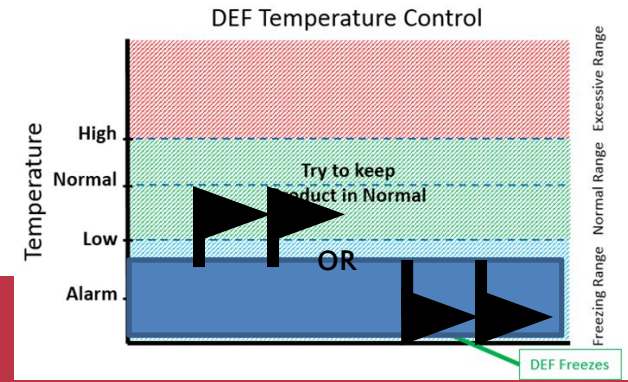
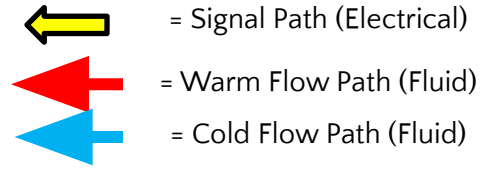
Example

Purpose: Use the movement of fluid to control the line temperature

- DEF freezes at 12°F (-11°C)
- Breaks down above 86°F (30°C)



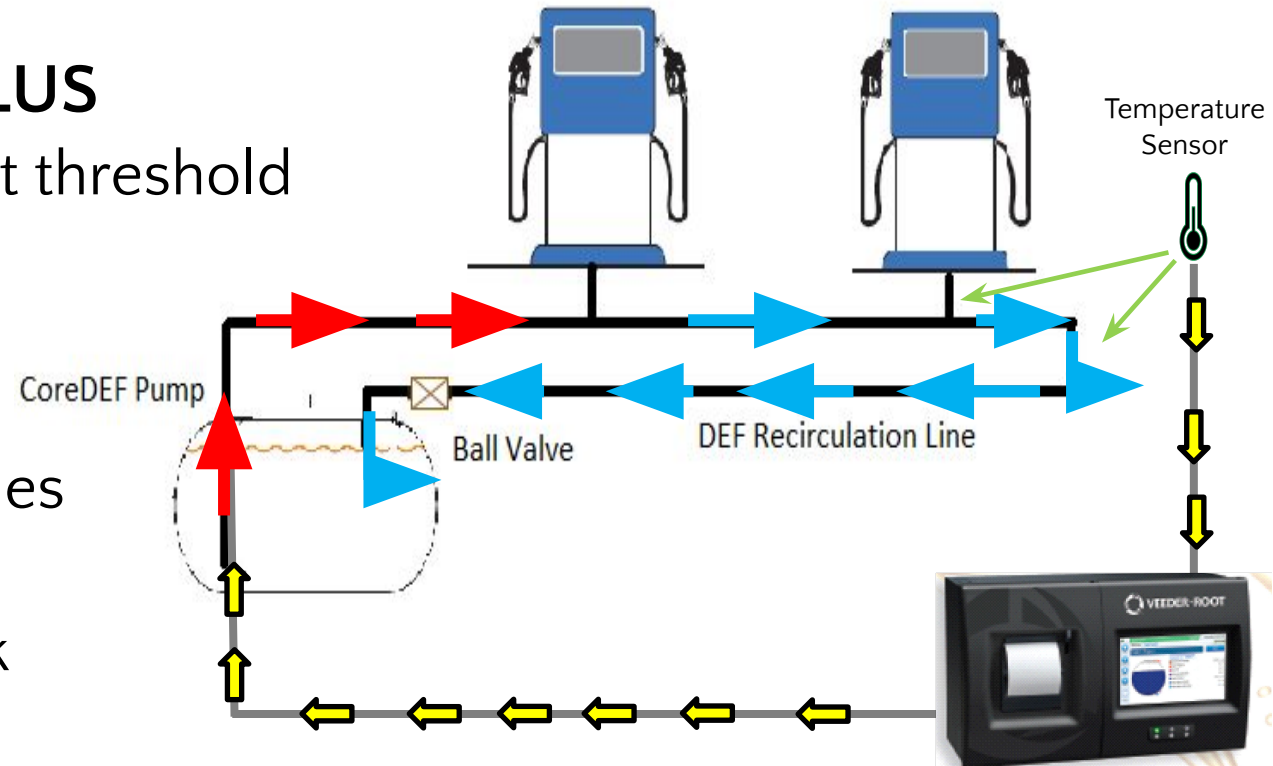
Scenario 1



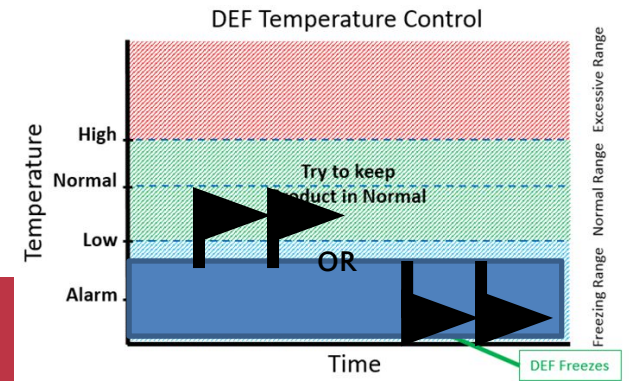
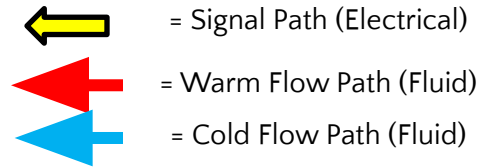
Recirculation

DEF Recirculation with the TLS-450PLUS

1. Temperature drops below the user-set threshold
2. ATG Activates DEF Pump (CoreDEF)
3. Warm Product in Tank Pushed into Lines
4. Cold Product in Lines Pushed into tank (controlled temp environment)



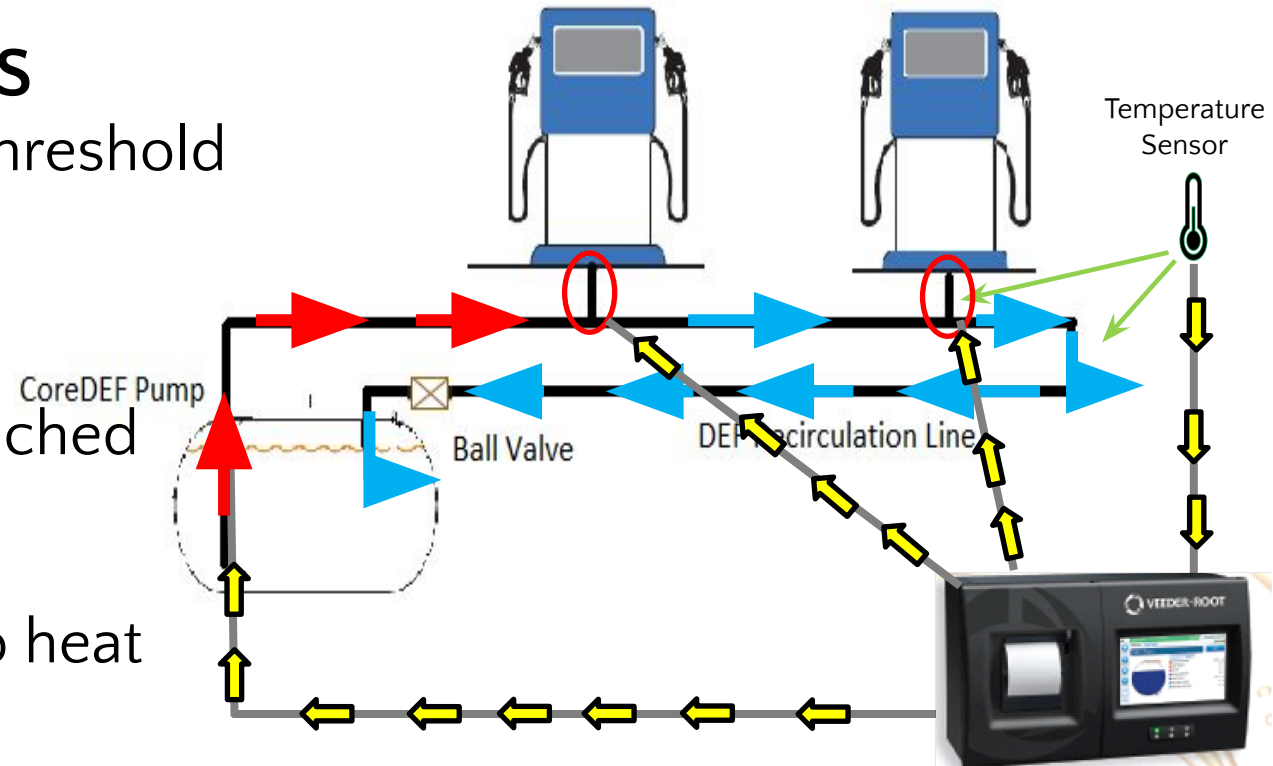
Scenario 2



Recirculation and Temperature Control

DEF Recirculation with the TLS-450PLUS

1. Temperature drops below the user-set threshold
2. ATG Activates DEF Pump (CoreDEF)
3. Recirculation cannot move product branched piping
4. ATG Relay Activates Heat-trace piping to heat product in lines



DEF Recirculation



System Overview

