

Flushing and Preconditioning Fluid

Cleaning Solution for Systems Involved in:

- HVAC/R
- Food & beverage
- Solar Applications
- Geothermal energy
- Process cooling & heating
- Ice & snow melting systems
- Refrigeration systems
- Line heaters
- Plastic extrusion

■ DynaFlush Overview

DynaFlush is a water-based cleaning solution designed to remove residual fluid, scale, debris, oil and other contaminants from heat transfer systems. DynaFlush should be used prior to installing water-based fluids such as glycols and brines (e.g., calcium chloride). It should not be used with hydrocarbon- or silicone-based heat transfer fluids.

DynaFlush eliminates trapped contaminants and debris from newly constructed and used systems prior to installing a clean heat transfer fluid. These contaminants can potentially degrade the fluid over time and act as a catalyst for corrosion. Pre-cleaning the system with DynaFlush ensures the heat transfer performance of the fluid is maximized for years of system operation.

Our flushing fluid uses non-toxic, non-flammable ingredients that are extremely effective at cleaning out any foreign matter left behind in your system. DynaFlush is offered in a ready-to-use product as DynaFlush LD, or in a 40X concentrate as DynaFlush Max. See page 2 for the DynaFlush Max dilution table.

■ Benefits of Choosing DynaFlush

- Extremely effective cleaning
- Removes degraded fluid residue
- Safe to use
- Non-flammable
- Available worldwide
- Cost-effective
- Water-based flush does not leave behind any oily residues

■ Properties of DynaFlush LD

For health and safety information or to request a Safety Data Sheet, contact our Dyalene sales representatives.

Composition:	Water, cleaning concentrate
Appearance:	Clear
Odor:	None
Freezing Point:	0°C (32°F)
Boiling Point:	100°C (212°F)
Flash Point:	None
pH:	11.0 – 12.0

General Cleaning Specifications:

Flushing Temperature Range:
10°C (50°F) to 80°C (176°F)

Flushing Duration:
4 hours minimum

Flushing Fluid Velocity:
Sufficient to create turbulent flow is recommended for most efficient cleaning

Flushing Procedure:

1. For most effective scale and debris removal, it is recommended to install a strainer with a mesh size of 20 or higher.
2. For new systems, rinse several times with distilled/deionized water (or soft tap water if distilled/deionized is unavailable) until most particulates are removed.
3. For used systems, drain original heat transfer fluid and rinse thoroughly with water to dilute previous fluid and remove particulates.
4. Install DynaFlush directly into the system. Circulate for several hours, cleaning the strainer if necessary.
5. After circulation, drain DynaFlush with the pump still on to prevent sediments from settling inside the system. Continue to drain with the pump on until almost all the DynaFlush is removed.
6. (Optional) Purge existing DynaFlush with compressed air or an inert gas to dry the system.
7. Rinse one final time with distilled/deionized water (or soft tap water).
8. Install new heat transfer fluid. Dyalene advises sampling the newly installed heat transfer fluid after start up to check the condition of the fluid.

DynaFlush Max Dilution

1. Dynalene recommends distilled/deionized water for dilution. If distilled/deionized water is unavailable, use tap water with a total water hardness amount less than 100 ppm.
2. If soft tap water is unavailable, Dynalene offers DynaFlush LD, which is a ready-to-use solution prepared with deionized water.
3. DynaFlush Max requires a 1:40 dilution. See the tables below to determine how much DynaFlush Max your system requires.

System Volume gal	DynaFlush Max Required gal
10	0.25
20	0.50
30	0.75
40	1.00
50	1.25
100	2.50
200	5.00
300	7.50
400	10.0
500	12.5
1000	25.0
2000	50.0
3000	75.0
4000	100
5000	125
10000	250

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Published July 2020