

Thermal Fluids

Water contains chemicals and minerals that corrode the materials in your HVAC system. Plain glycols, without corrosion inhibitors, can cause extensive corrosion damage. Plain glycols are even more corrosive than water. Automotive antifreeze has a short fluid life and can gel and clog your system. So what can you do about freeze protection? D.H. Jutzi's Thermal Fluids provide a lower freeze point and contain corrosion inhibitors that have been specially formulated for heating and air conditioning systems.



As shown in Table 1 the corrosion rate of ethylene glycol on iron, for example, is more than 2.5 times faster than water. On steel, it's 4.5 times faster. D.H. Jutzi's Thermal Fluids contain special inhibitors designed to reduce corrosion in HVAC systems. These inhibitors passivate the surface of metals in the HVAC system and minimize corrosion by buffering organic acids that form during normal operation. Only good quality water can be used with inhibited glycol fluids. This means water with low levels (<25 ppm) of chloride and sulfate ions, and less than 50 ppm of hardness ions. Distilled, deionized or reverse osmosis water is recommended.

Table 1 - Corrosion test results/weight loss in milligrams (mils penetration per year)

	Water	Ethylene Glycol	Propylene Glycol	D.H. Jutzi's Thermal Fluids
Copper	2	4	4	1
Solder	99	1780	1095	2
Brass	5	11	5	2
Mild Steel	212	974	214	1
Cast Iron	450	1190	345	1
Aluminum	110	165	15	+3

D.H. Jutzi Limited provides complete water analysis. Our analyses will determine freeze point, solution concentration, inhibitor condition, and reveal any significant changes in fluid quality that might signal leaks, contamination, or operating malfunctions. All that is required for maintenance is periodic testing to determine if additional corrosion inhibitors (also supplied by Jutzi) are required.

If the results of analysis indicate that the corrosion inhibitors are becoming depleted, D.H. Jutzi Limited has the capability to assist you in restoring corrosion protection. When properly maintained, D.H. Jutzi's Thermal Fluid has the capability of lasting 20 years or more, making D.H. Jutzi's Thermal Fluid more of an investment than an expense.



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Registered to
 ISO 9001

Thermal Fluid

Formula TF 5750 Series Freeze Points

Formula TF 5752	-8°C
Formula TF 5753	-15°C
Formula TF 5754	-24°C
Formula TF 5755	-36°C

Formula TF 5850 Series Freeze Points

Formula TF 5852	-7°C
Formula TF 5853	-13°C
Formula TF 5854	-21°C
Formula TF 5855	-31°C

D.H. Jutzi's Formula TF 5755 EG is a HD inhibited ethylene glycol fluid. It contains extra-strength corrosion inhibitors which require extremely low maintenance and suitable for high temperature operation (to 350°F).

D.H. Jutzi's Formula TF 5850 PG is a HD inhibited propylene glycol fluid. While low in toxicity, the extra-strength corrosion inhibitors permit high temperature operation (to 350°F) and low maintenance. Formula TF 5850 Series Thermal Fluids are CFIA approved for use in food plants.

Model SF100 Packaged Hydronic System Feeder

Features and Benefits

- 383 litre(100 US gallon) tank for storage and mixing
- Plugs into any standard 115 VAC outlet
- Fluid level switch shuts the pump off if the storage tank level gets low
- Accumulator tank prevents excessive pump cycling
- No direct connection to potable water supply eliminates need for backflow prevention
- Make-up fluid stored in the feeder tank can be pre-treated
- Diverter valve for purging of air on initial start-up and manual agitation of solution
- Prevents major floods - in the event of system rupture, only the contents of the tank can be pumped into the system
- Provides leak detection - dropping fluid level provides immediate notice that the system has developed a leak
- Fluid drained for service can easily be put back into the system
- Flexible connection hose with system check valve makes installation easy

