

Comparison of Benefits & Risks

	Batch	Thermo-siphon	Open loop direct	Glycol closed loop	Drainback	Sunnovations
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INSTALLATION BENEFITS

Lightweight			✓	✓	✓	✓
Easy installation & infrequent service	✓	✓	✓			✓

CUSTOMER BENEFITS

Passive operation (no pumps or controls)	✓	✓				✓
Unobtrusive			✓	✓	✓	✓
Low cost	✓	✓	✓			✓
Freeze-proof				✓	✓	✓

RISKS	GLYCOL SYSTEM	SUNNOVATIONS
Stagnation or overheating	YES	NO
Pump failure	YES	NO
Sensor or wiring failure	YES	NO
Controller failure	YES	NO
Down during power failure	YES	NO
Valve failure	YES	NO
Glycol thermal breakdown	YES	NO
Pump noise, drain-down noise	YES	NO



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