

Mechanical System vs Eutectic Plate

	Mechanical System	Eutectic Plate
<u>Operating Scenario/route application</u>	Excellent for long service runs (time on road)	Excellent for daily runs (up to 10-12 hours)
<u>Insurance</u>	Refrigeration failure means a crisis for product protection	Excellent for product protection
<u>Initial Cost</u>	Average	Average
<u>Life Cycle Cost</u>	High	Low
<u>Temperature Response</u>	Excellent response to temperature increase	Slower response to temperature increase
<u>Complexity</u>	High	Simple
<u>Down Time</u>	Pre-cooling up to 2 hours, periodical maintenance, repairs	Initial charge 7 hours, once every 2 weeks, 4 hours charge per delivery round.
<u>Reliability</u>	Good	Excellent
<u>Operating Cost</u>	High	Low
<u>Maintainability</u>	1000-1500 hrs. scheduled maintenance, highly skilled personnel required	Little maintenance; low skill levels required
<u>Flexibility</u>	Good	Adequate
<u>Environmental Compatibility</u>	Exhaust discharge and high noise level, inoperable in certain high population areas	Few moving parts, quiet, no pollutants
<u>Effective System Life</u>	5 years with proper maintenance	Life of truck plus