



**System Characteristic**

Start up to system ready  
 Thermal repeatability  
 Thermal symmetry  
 Relative power consumption  
 Batch or In-line  
 ESD generation potential  
 Relative Heat transfer rate  
 Delta T nominal at peak  
 Ramp rate  
 Leaded and lead free capable  
 Thermal recovery  
 Inert atmosphere  
 Production Applicability  
 Ease of profiling and setup  
 Maintenance intervals  
 Cost of ownership

	Asscon Vapor Phase	Vapor Phase	Convection Reflow
Start up to system ready	~20 minutes	~20 minutes	~30 minutes
Thermal repeatability	+/- 1 deg preheat and reflow	+/- 5 deg preheat. +/- 1 deg reflow	+/- 10 deg
Thermal symmetry	Excellent	Excellent	Average
Relative power consumption	1	1.25	3 to 5
Batch or In-line	Batch and In-line	Batch and in-line	In-line
ESD generation potential	NO	Yes in Preheat	YES
Relative Heat transfer rate	10	10	1 to 3
Delta T nominal at peak	0 deg	0 deg	5 to 15 deg
Ramp rate	0.5 to 3.5 deg/sec programmable	0.5 to 3.5 deg/sec programmable	0.5 deg to 10 deg/sec programmable
Leaded and lead free capable	Yes	Yes	Yes
Thermal recovery	10	10	3 to 5
Inert atmosphere	Standard thru process	Only at Peak	Optional and only partial
Production Applicability	Lot size 1 to millions	Lot size 10 to millions	Lot size 100 to millions
Ease of profiling and setup	2 pass max	3-5 passes	5+
Maintenance intervals	Qtrly	Qtrly	Monthly
Cost of ownership	Low	Low	Medium/High



Batch to Full In-Line Smea compatible systems

