

# Heat Transfer



Storage



Conveying



Drying



Blending/Feeding



## Heat Transfer



Size Reduction



Upstream



Downstream

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# Heat Transfer Quick Reference

Models	Temperature Range °F	Process Fluid	Pump Range (Hp)	Heater Range (kW)	No. of Zones	Cooling Method
<b>Temperature Control Units</b>						
Thermolator® TW-V	40 to 250	water	0.75 or 2	12	1	Direct Injection
Thermolator® TW-S	40 to 250	water	0.75 to 10	9 to 48	1 or 2	Direct Injection
Thermolator® TW-P	40 to 250	water	0.75 to 10	6 to 48	1 or 2	Direct Injection
Thermolator® TW-P	40 to 250	water	0.75 to 10	9 to 36	1 or 2	Closed Circuit
Thermolator® microTemp (MTC)	32 to 250	water	0.33 to 0.5	3 or 6	1	Direct Injection
Thermolator® vacuTrac (VTR)	32 to 180	water	2.0 to 7.5	9 to 12	1 or 2	Direct Injection
Thermolator® heaTrac (HTR)	70 to 500	oil	1.0 to 3	6, 12 or 18	1	Optional Isolated Circuit

Models	Capacity Range (tons)	Pump Range (Hp)	Standard Process Flow Rate (GPM)	Refrigerant	Cooling Method
<b>Portable Chillers</b>					
EP1A Series (Air-Cooled)	1.0 to 3.0	0.25 to 3.0	2 to 7	R-407C	Air
EP1W Series (Water-Cooled)	2.2 & 3.3	1.0 to 3.0	5 to 8	R-407C	Water
EP1R Series (Remote)	3.0	1.0 to 3.0	7	R-407C	Remote
EP2A Series (Air-Cooled)	4.5 to 29.9	1.5 to 10	11 to 72	R-410A	Air
EP2W Series (Water-Cooled)	5.3 to 38.4	1.5 to 10	13 to 92	R-410A	Water
EP2R Series (Remote)	5.3 to 38.4	1.5 to 10	13 to 92	R-410A	Remote

Models	Capacity Range (tons)	Fan Motor Range (Hp)	Standard Process Flow Rate (GPM)	Material of Construction
<b>Cooling Towers</b>				
E1F Series	38 to 120	2 to 5	114 to 360	Fiberglass
E2F Series	100 to 240	3 to 7.5	300 to 600	Fiberglass
E2 Series	55 to 250	2 to 15	165 to 750	Polyethylene
E4 Series	300 to 810	2x5 to 4x15	900 to 2430	Polyethylene
EarthSmart™ Adiabatic Towers	17 to 195	2x3 to 18x3	45 to 510	Galvanized Paint

Models	Capacity Range (tons)	Compressor Range (Qty @ Hp)	Compressor Type	Refrigerant	Cooling Method
<b>Central Chillers</b>					
ESA Series (Small Air-Cooled)	21.6 to 135.9	2x10 to 4x30	Scroll	R-410A	Air
A-SK Series (Large Air-Cooled)	1525 to 5010	2x75 to 4x125	Screw	R-134A	Air
ESE Series (Remote Air-Cooled)	10 to 157.5	2x10 to 4x40	Scroll	R-410A	Air
ESE Series (Water-Cooled)	10.9 to 172.5	2x10 to 4x40	Scroll	R-410A	Water
W-SK Series (Medium Water-Cooled)	2075 to 5645	2x40 to 2x125	Screw	R-134A	Water
W-SK-RC Series (Remote Condenser)	265 to 5645	2x40 to 2x125	Screw	R-134A	Remote
W-SK Series (Large Water-Cooled)	275 to 2200	1	Screw	R-134A	Water

Models	Tank Capacity (gallons)	Chiller Capacity Range (tons)	Tower Capacity Range (tons)	Material of Construction
<b>Pump Tanks</b>				
PTSS Series	265 to 5645	30 to 1500	25 to 1000	Stainless Steel Welded Tank
PTFG Series	275 to 2200	30 to 600	25 to 400	Molded Fiberglass

Models	Process Flow Rate (GPM)	Chiller Capacity Range (tons)	Tower Capacity Range (tons)
<b>Accessories</b>			
Full Flow Strainers (CFS Series)	10 to 1000	20 to 850	10 to 650
Sand and Gravel Units (SMF Series)	N/A	N/A	10 to 1590
Isolation Heat Exchanges (PF Series)	60 to 1900	N/A	20 to 620