



**D6 INDUSTRIES**  
**STANDARD PRODUCT**  
**HT-TAP800-4**  
**SIMULATION RESULTS**

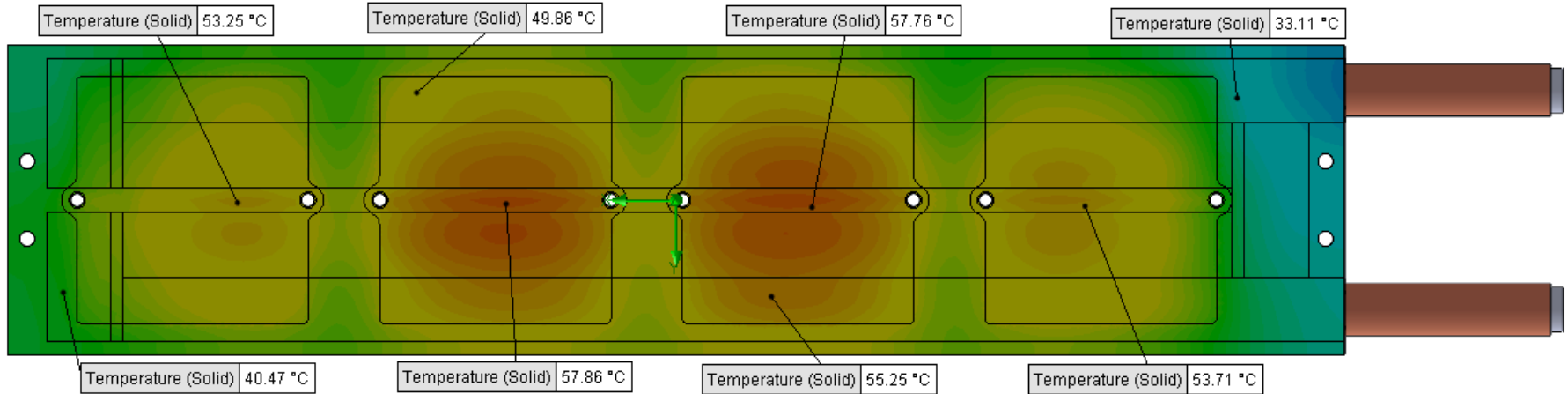
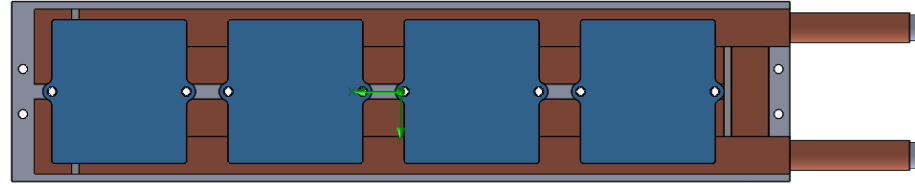
1-3 gpm flow rates  
4X 800W Heat Load

# D6 STANDARD HT-TAP800-4



## PARAMETERS

Fluid: Water  
 Inlet Flow: 1 gpm  
 Inlet Fluid Temp: 20°C  
 Heat Source: 4 blue squares= 3200W (shown right)  
 Tube: ½ OD round copper inlet/outlet



## Simulation Data

Goal Name	Unit	Value
SG Min Temperature (Solid) 1	[°C]	25.94613202
SG Av Temperature (Solid) 1	[°C]	47.32657741
SG Max Temperature (Solid) 1	[°C]	58.17778395
SG FLUID OUT	[°C]	32.12071755
PRESSURE DROP	[lbf/in^2]	1.33456938

SG-Surface goal is a parameter on selected surface(s).  
 In this case, it is the entire tube side surface area.

## RESULTS

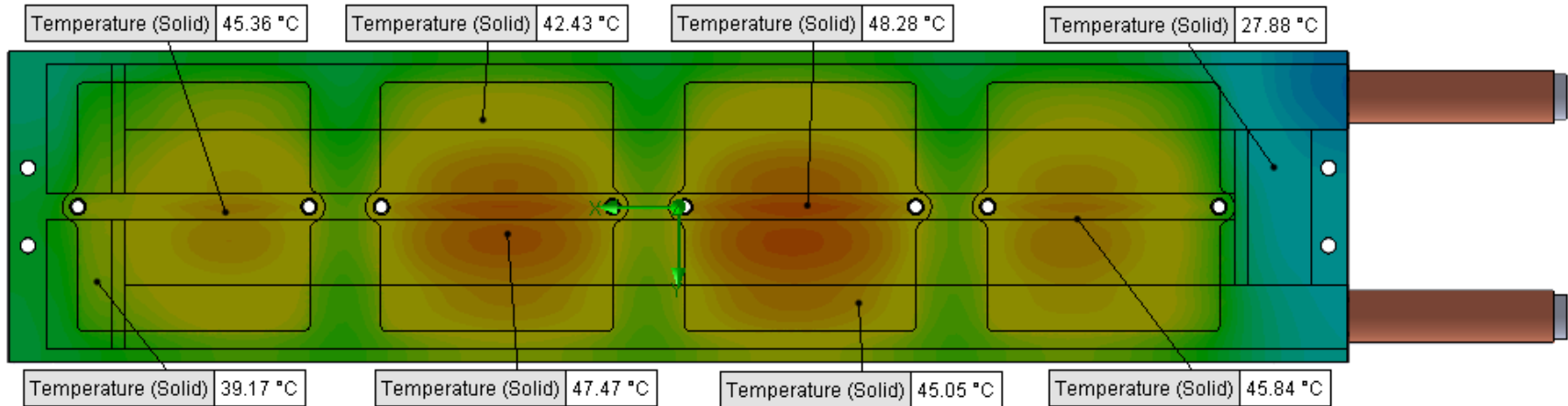
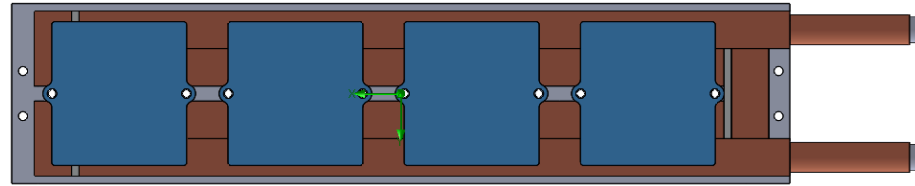
Thermal Resistance: 0.0085°C/W  
 Pressure Drop: 1.33psi  
 Min Surface Temp: 25.94°C  
 Max Surface Temp: 58.17°C  
 Water Temp Out: 32.12°C

# D6 STANDARD HT-TAP800-4



## PARAMETERS

Fluid: Water  
 Inlet Flow: 1.5 gpm  
 Inlet Fluid Temp: 20°C  
 Heat Source: 4 blue squares= 3200W (shown right)  
 Tube: ½ OD round copper inlet/outlet



## Simulation Data

Goal Name	Unit	Value
SG Min Temperature (Solid) 1	[°C]	23.51168386
SG Av Temperature (Solid) 1	[°C]	39.36803113
SG Max Temperature (Solid) 1	[°C]	48.51832406
SG FLUID OUT	[°C]	28.07506085
PRESSURE DROP	[lbf/in <sup>2</sup> ]	2.960072497

SG-Surface goal is a parameter on selected surface(s).  
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## RESULTS

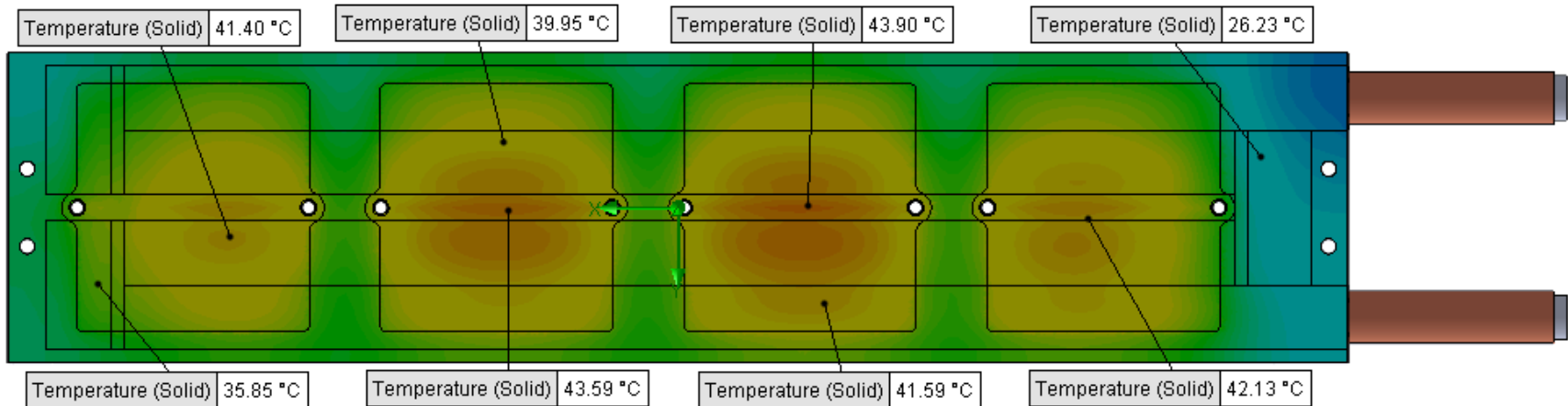
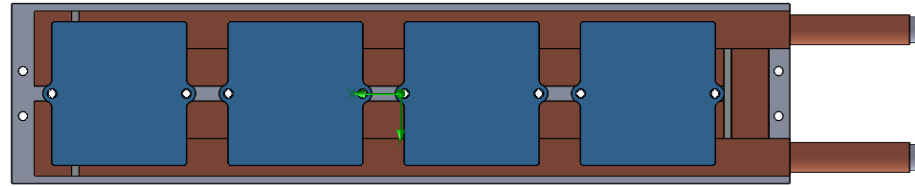
Thermal Resistance: 0.0060°C/W  
 Pressure Drop: 2.96psi  
 Min Surface Temp: 23.51°C  
 Max Surface Temp: 48.51°C  
 Water Temp Out: 28.07°C

# D6 STANDARD HT-TAP800-4



## PARAMETERS

Fluid: Water  
 Inlet Flow: 2 gpm  
 Inlet Fluid Temp: 20°C  
 Heat Source: 4 blue squares= 3200W (shown right)  
 Tube: ½ OD round copper inlet/outlet



## Simulation Data

Goal Name	Unit	Value
SG Min Temperature (Solid) 1	[°C]	22.34760378
SG Av Temperature (Solid) 1	[°C]	35.86034363
SG Max Temperature (Solid) 1	[°C]	44.12229852
SG FLUID OUT	[°C]	26.06451637
PRESSURE DROP	[lbf/in <sup>2</sup> ]	5.250502502

## RESULTS

Thermal Resistance: 0.0049°C/W  
 Pressure Drop: 5.25psi  
 Min Surface Temp: 22.34°C  
 Max Surface Temp: 44.12°C  
 Water Temp Out: 26.06°C

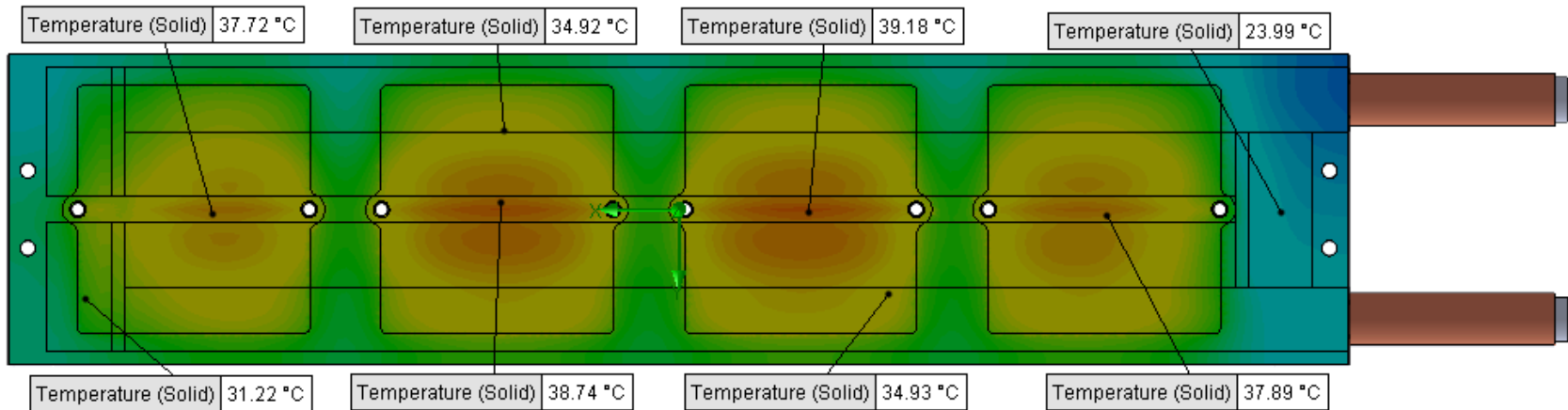
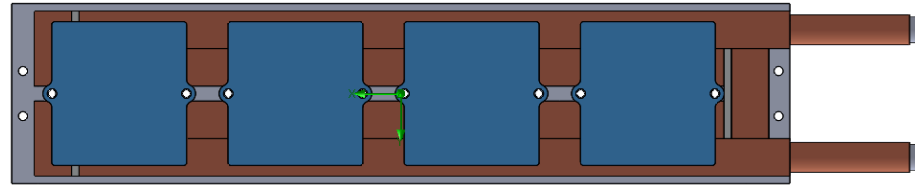
SG-Surface goal is a parameter on selected surface(s).  
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# D6 STANDARD HT-TAP800-4



## PARAMETERS

Fluid: Water  
 Inlet Flow: 3 gpm  
 Inlet Fluid Temp: 20°C  
 Heat Source: 4 blue squares= 3200W (shown right)  
 Tube: ½ OD round copper inlet/outlet



## Simulation Data

Goal Name	Unit	Value
SG Min Temperature (Solid) 1	[°C]	21.26469566
SG Av Temperature (Solid) 1	[°C]	32.0033377
SG Max Temperature (Solid) 1	[°C]	39.33537866
SG FLUID OUT	[°C]	24.07318965
PRESSURE DROP	[lbf/in <sup>2</sup> ]	11.75997759

SG-Surface goal is a parameter on selected surface(s).  
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## RESULTS

Thermal Resistance: 0.0037°C/W  
 Pressure Drop: 11.75psi  
 Min Surface Temp: 21.26°C  
 Max Surface Temp: 39.33°C  
 Water Temp Out: 24.07°C