



D6 INDUSTRIES
STANDARD PRODUCT
HT-TAP800-5
SIMULATION RESULTS

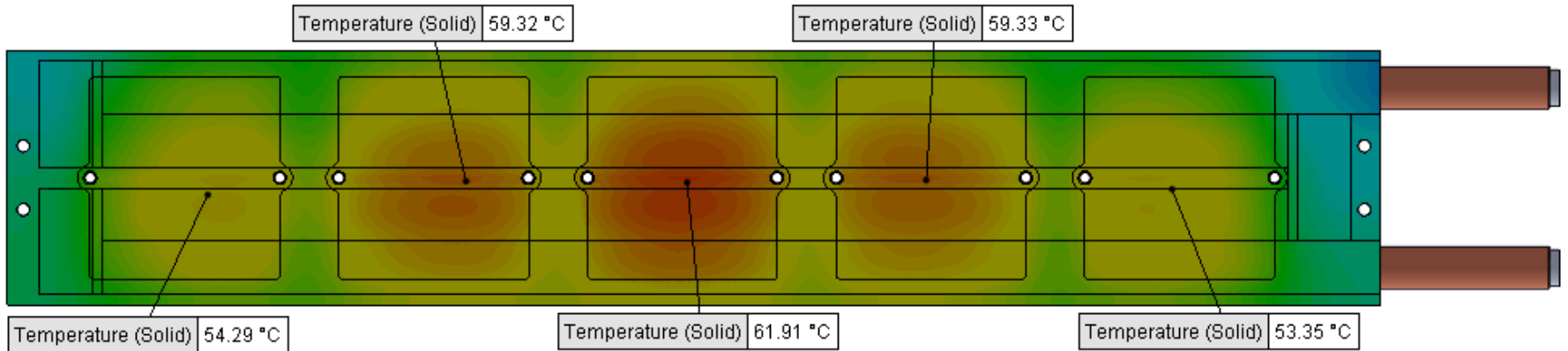
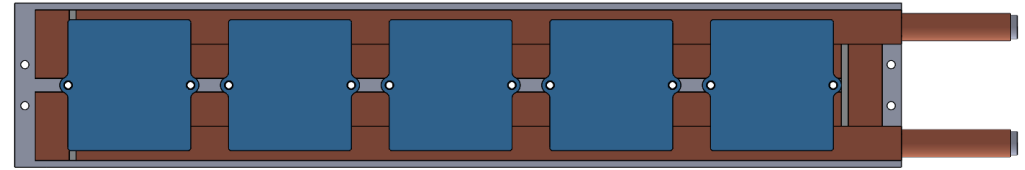
1-3 gpm flow rates
5X 800W Heat Load

D6 STANDARD HT-TAP800-5



PARAMETERS

Fluid: Water
 Inlet Flow: 1 gpm
 Inlet Fluid Temp: 20°C
 Heat Source: 5 blue squares= 4000W (shown right)
 Tube: ½ OD round copper inlet/outlet



Simulation Data

Goal Name	Unit	Value
SG Min Temperature (Solid) 1	[°C]	26.36709694
SG Av Temperature (Solid) 1	[°C]	49.43634804
SG Max Temperature (Solid) 1	[°C]	62.3683146
SG FLUID OUT	[°C]	35.04451035
PRESSURE DROP	[lbf/in^2]	1.328139179

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

RESULTS

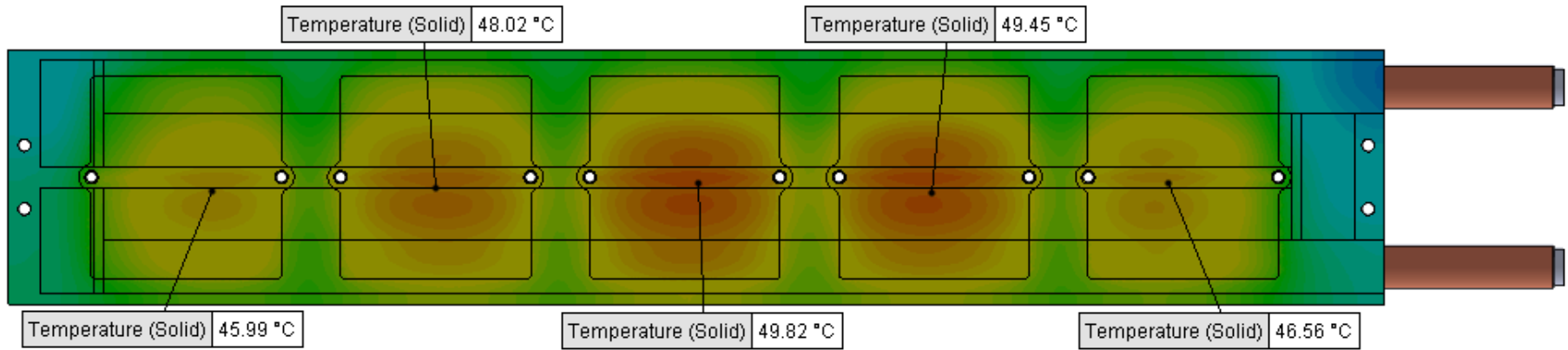
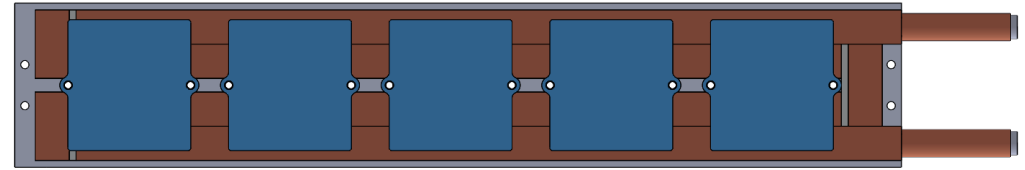
Thermal Resistance: 0.0073°C/W
 Pressure Drop: 1.32psi
 Min Surface Temp: 26.36°C
 Max Surface Temp: 62.36°C
 Water Temp Out: 35.04°C

D6 STANDARD HT-TAP800-5



PARAMETERS

Fluid: Water
 Inlet Flow: 1.5 gpm
 Inlet Fluid Temp: 20°C
 Heat Source: 5 blue squares= 4000W (shown right)
 Tube: ½ OD round copper inlet/outlet



Simulation Data

Goal Name	Unit	Value
SG Min Temperature (Solid) 1	[°C]	23.75104705
SG Av Temperature (Solid) 1	[°C]	40.79478272
SG Max Temperature (Solid) 1	[°C]	50.41920843
SG FLUID OUT	[°C]	29.98136606
PRESSURE DROP	[lbf/in^2]	2.969533712

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

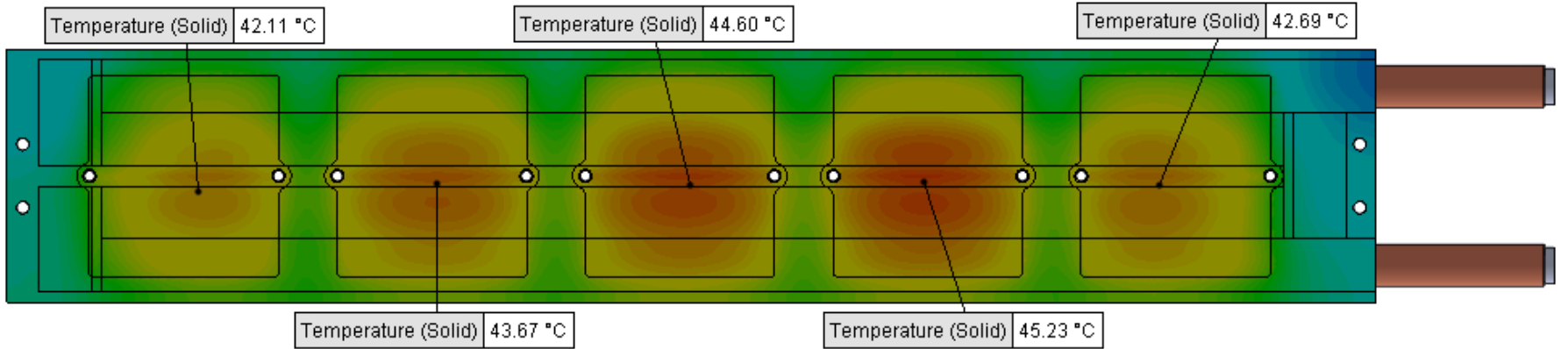
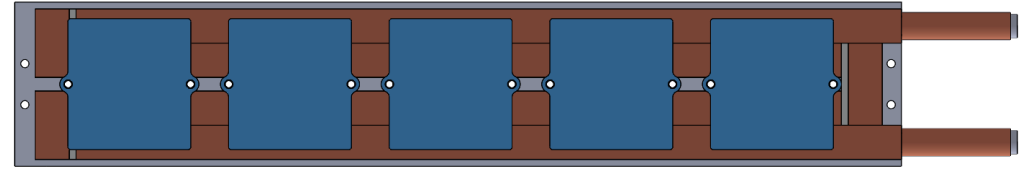
Thermal Resistance: 0.0051°C/W
 Pressure Drop: 2.96psi
 Min Surface Temp: 23.75°C
 Max Surface Temp: 50.41°C
 Water Temp Out: 29.98°C

D6 STANDARD HT-TAP800-5



PARAMETERS

Fluid: Water
 Inlet Flow: 2 gpm
 Inlet Fluid Temp: 20°C
 Heat Source: 5 blue squares= 4000W (shown right)
 Tube: ½ OD round copper inlet/outlet



Simulation Data

Goal Name	Unit	Value
SG Min Temperature (Solid) 1	[°C]	22.57605406
SG Av Temperature (Solid) 1	[°C]	36.95333916
SG Max Temperature (Solid) 1	[°C]	45.83604643
SG FLUID OUT	[°C]	27.48097938
PRESSURE DROP	[lbf/in^2]	5.262066095

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

RESULTS

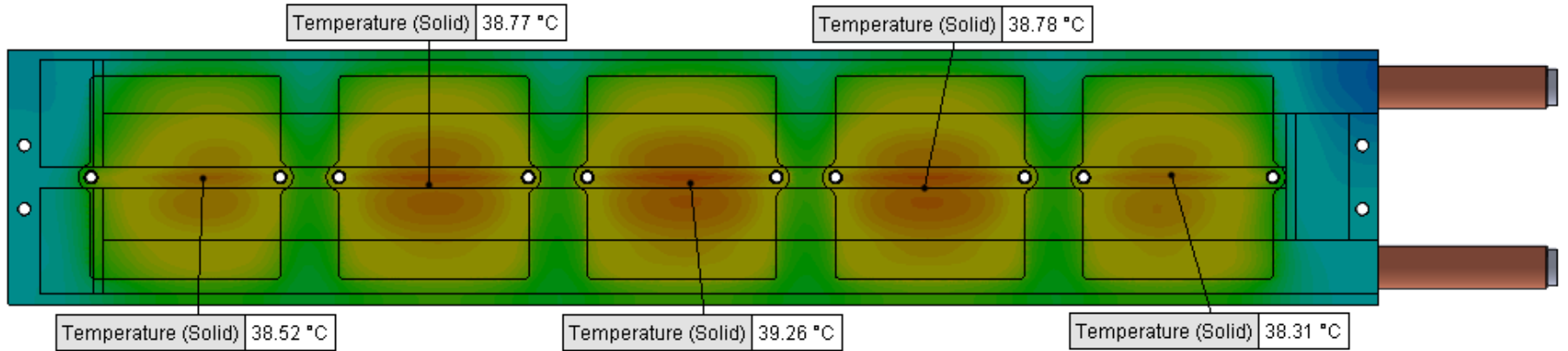
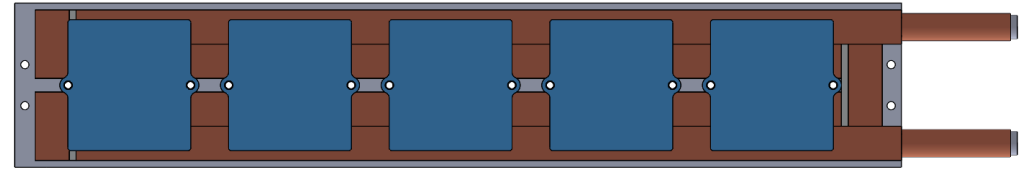
Thermal Resistance: 0.0042°C/W
 Pressure Drop: 5.26psi
 Min Surface Temp: 22.57°C
 Max Surface Temp: 45.83°C
 Water Temp Out: 27.48°C

D6 STANDARD HT-TAP800-5



PARAMETERS

Fluid: Water
 Inlet Flow: 3 gpm
 Inlet Fluid Temp: 20°C
 Heat Source: 5 blue squares= 4000W (shown right)
 Tube: ½ OD round copper inlet/outlet



Simulation Data

Goal Name	Unit	Value
SG Min Temperature (Solid) 1	[°C]	21.39894787
SG Av Temperature (Solid) 1	[°C]	32.52328059
SG Max Temperature (Solid) 1	[°C]	39.87838316
SG FLUID OUT	[°C]	25.06259888
PRESSURE DROP	[lbf/in ²]	11.8608379

RESULTS

Thermal Resistance: 0.0031°C/W
 Pressure Drop: 11.86psi
 Min Surface Temp: 21.39°C
 Max Surface Temp: 39.87°C
 Water Temp Out: 25.06°C

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