



D6 INDUSTRIES
STANDARD PRODUCT
HT-TAP800-3
SIMULATION RESULTS

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

D6 STANDARD HT-TAP800-3



PARAMETERS

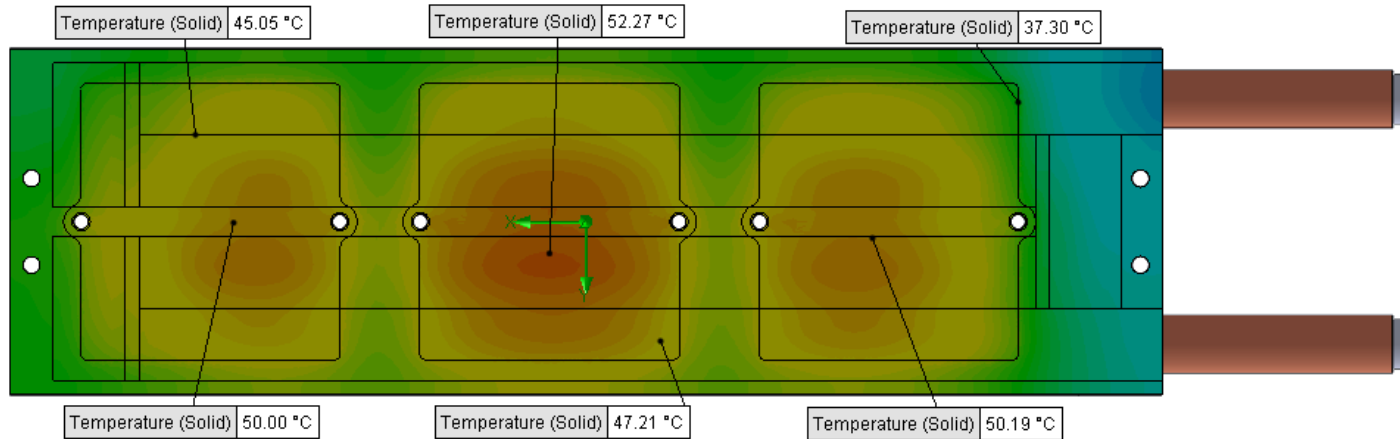
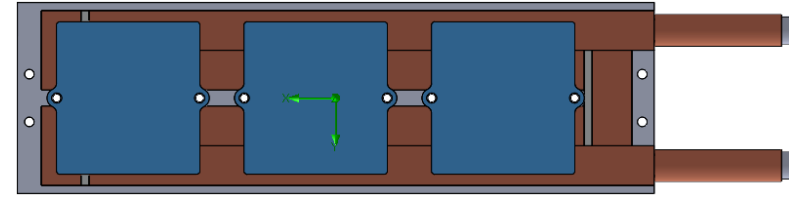
Fluid: Water

Inlet Flow: 1 gpm

Inlet Fluid Temp: 20°C

Heat Source: 3 blue squares=2400W (shown right)

Tube: ½ OD round copper inlet/outlet



Simulation Data

Goal Name	Unit	Value
SG Min Temperature (Solid) 1	[°C]	25.3140414
SG Av Temperature (Solid) 1	[°C]	43.19443204
SG Max Temperature (Solid) 1	[°C]	52.61866777
SG FLUID OUT	[°C]	29.09946712
PRESSURE DROP	[lbf/in^2]	1.289235627

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

RESULTS

Thermal Resistance: 0.0096°C/W

Pressure Drop: 1.28psi

Min Surface Temp: 25.31°C

Max Surface Temp: 52.61°C

Water Temp Out: 29.09°C

D6 STANDARD HT-TAP800-3



PARAMETERS

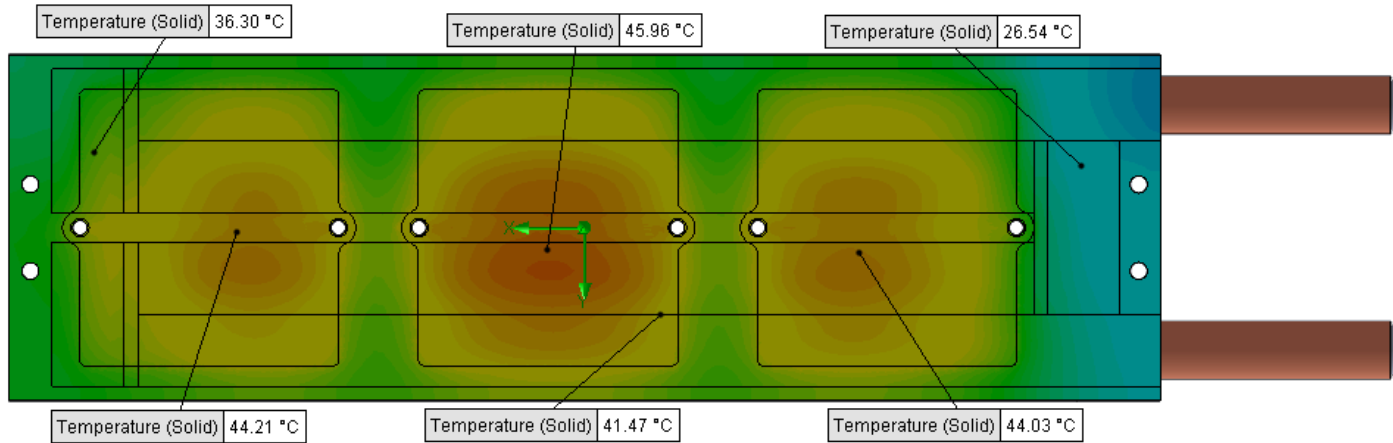
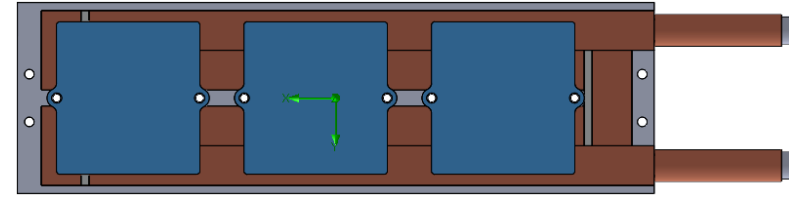
Fluid: Water

Inlet Flow: 1.5 gpm

Inlet Fluid Temp: 20°C

Heat Source: 3 blue squares=2400W (shown right)

Tube: ½ OD round copper inlet/outlet



Simulation Data

Goal Name	Unit	Value
SG Min Temperature (Solid) 1	[°C]	23.1504247
SG Av Temperature (Solid) 1	[°C]	37.67925713
SG Max Temperature (Solid) 1	[°C]	46.4047966
SG FLUID OUT	[°C]	26.07550726
PRESSURE DROP	[lbf/in^2]	2.855722936

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: 2.85psi

Min Surface Temp: 23.15°C

Max Surface Temp: 46.40°C

Water Temp Out: 26.07°C

D6 STANDARD HT-TAP800-3



PARAMETERS

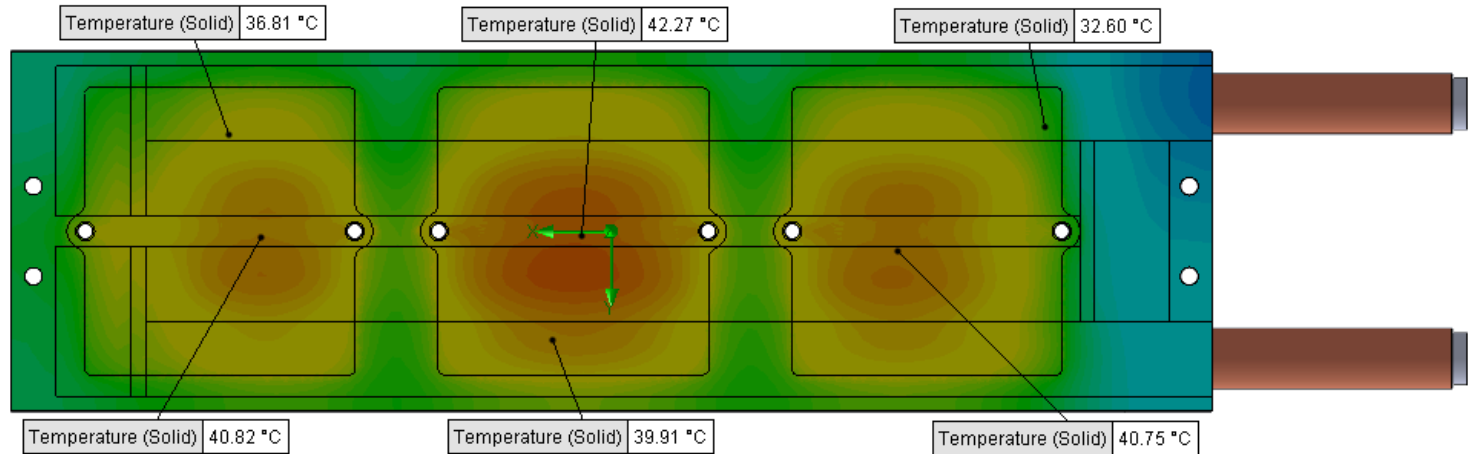
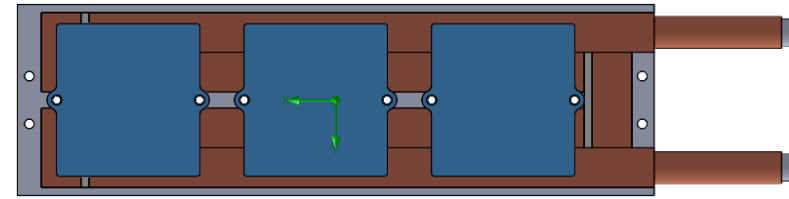
Fluid: Water

Inlet Flow: 2 gpm

Inlet Fluid Temp: 20°C

Heat Source: 3 blue squares=2400W (shown right)

Tube: ½ OD round copper inlet/outlet



Simulation Data

Goal Name	Unit	Value
SG Min Temperature (Solid) 1	[°C]	22.08123083
SG Av Temperature (Solid) 1	[°C]	34.51185933
SG Max Temperature (Solid) 1	[°C]	42.58704808
SG FLUID OUT	[°C]	24.5582777
PRESSURE DROP	[lbf/in^2]	5.055664772

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

RESULTS

Thermal Resistance: 0.0060°C/W

Pressure Drop: 5.05psi

Min Surface Temp: 22.08°C

Max Surface Temp: 42.58°C

Water Temp Out: 24.55°C

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PARAMETERS

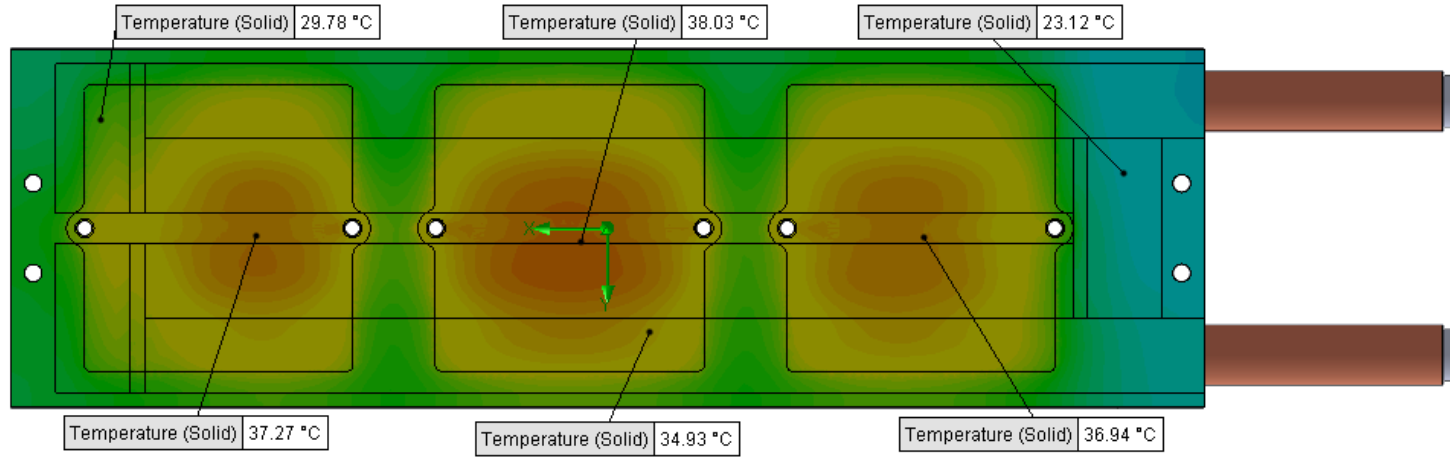
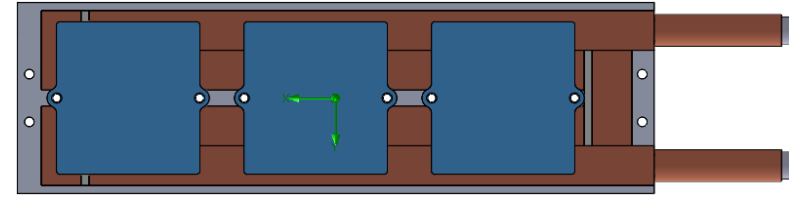
Fluid: Water

Inlet Flow: 3 gpm

Inlet Fluid Temp: 20°C

Heat Source: 3 blue squares=2400W (shown right)

Tube: ½ OD round copper inlet/outlet



Simulation Data

Goal Name	Unit	Value
SG Min Temperature (Solid) 1	[°C]	21.1169488
SG Av Temperature (Solid) 1	[°C]	31.21650767
SG Max Temperature (Solid) 1	[°C]	38.41671251
SG FLUID OUT	[°C]	23.05232387
PRESSURE DROP	[lbf/in^2]	11.35802974

RESULTS

Thermal Resistance: 0.0046°C/W

Pressure Drop: 11.35psi

Min Surface Temp: 21.11°C

Max Surface Temp: 38.41°C

Water Temp Out: 23.05°C

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