



**D6 INDUSTRIES**  
**STANDARD PRODUCT**  
**HT-TAP800-1**  
**SIMULATION RESULTS**

1-3 gpm flow rates  
800W Heat Load

# D6 STANDARD HT-TAP800-1



## PARAMETERS

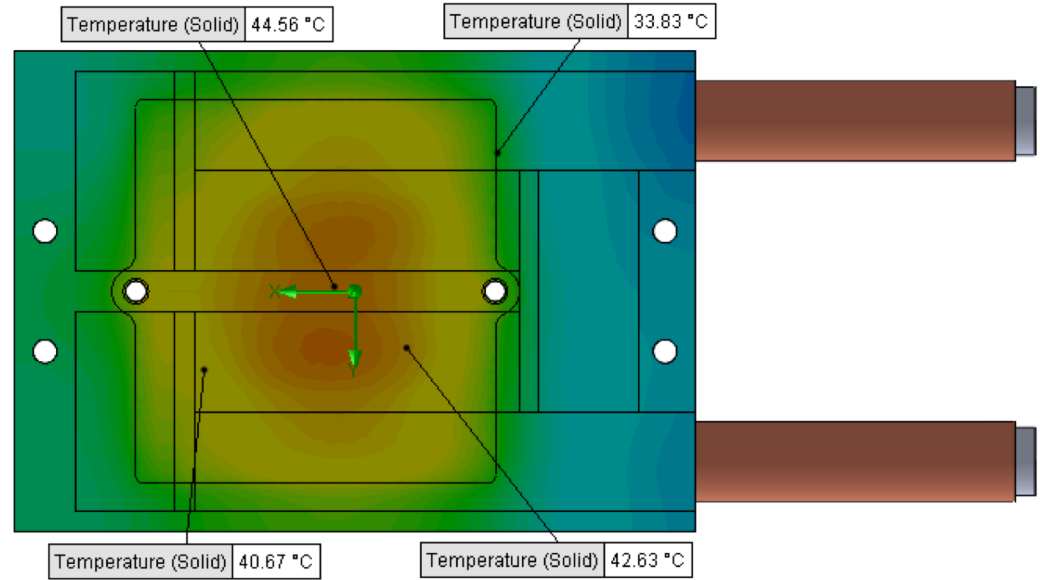
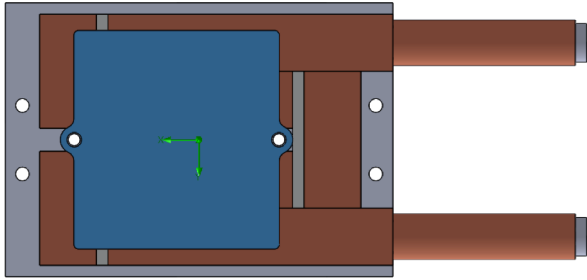
Fluid: Water

Inlet Flow: 1 gpm

Inlet Fluid Temp: 20°C

Heat Source: 1 blue square=800W (shown below)

Tube: ½ OD round copper inlet/outlet



## Simulation Data

Goal Name	Unit	Value
SG Min Temperature (Solid) 1	[°C]	24.29678161
SG Av Temperature (Solid) 1	[°C]	34.78452612
SG Max Temperature (Solid) 1	[°C]	45.23113481
WATER OUT	[°C]	23.03699695
PRESSURE DROP	[lbf/in <sup>2</sup> ]	1.164241204

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

## RESULTS

Thermal Resistance: 0.0184°C/W

Pressure Drop: 1.16psi

Min Surface Temp: 24.29°C

Max Surface Temp: 45.23°C

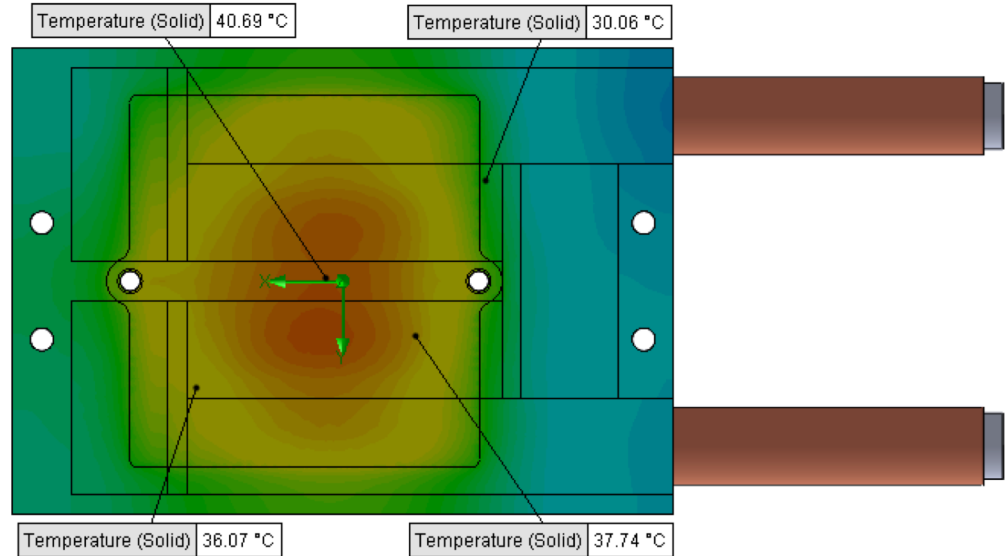
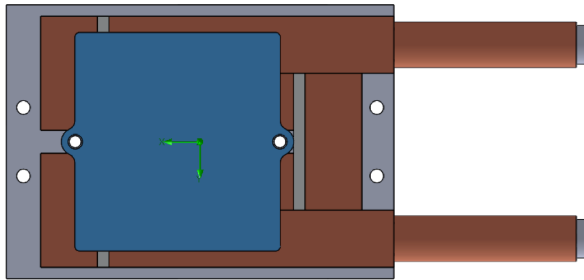
Water Temp Out: 23.03°C

# D6 STANDARD HT-TAP800-1



## PARAMETERS

Fluid: Water  
 Inlet Flow: 1.5 gpm  
 Inlet Fluid Temp: 20°C  
 Heat Source: 1 blue square=800W (shown below)  
 Tube: ½ OD round copper inlet/outlet



## Simulation Data

Goal Name	Unit	Value
SG Min Temperature (Solid) 1	[°C]	22.48554186
SG Av Temperature (Solid) 1	[°C]	31.36423685
SG Max Temperature (Solid) 1	[°C]	41.32639372
WATER OUT	[°C]	22.02467234
PRESSURE DROP	[lbf/in^2]	2.577502052

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

## RESULTS

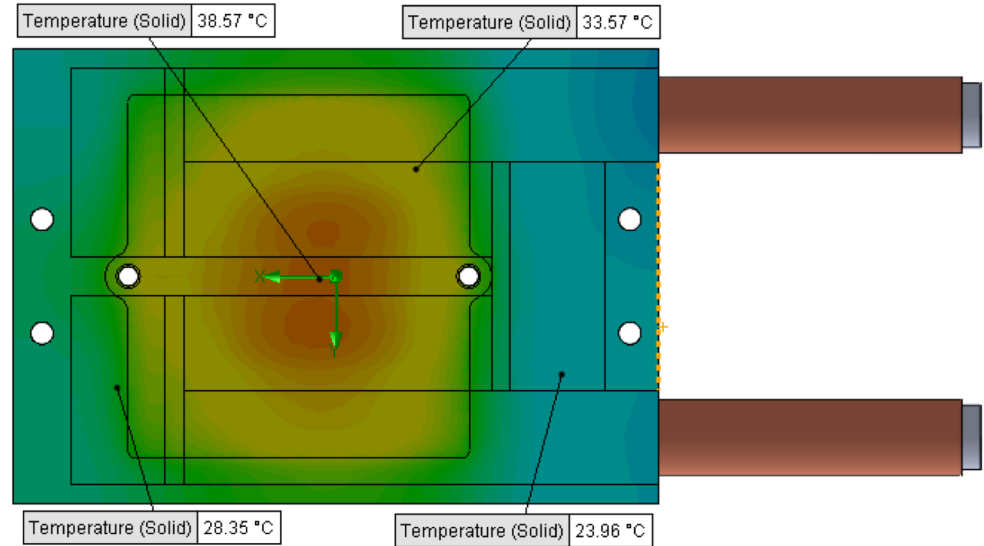
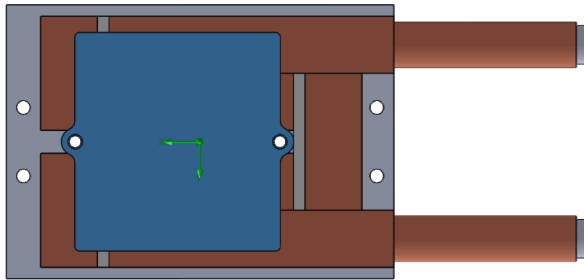
Thermal Resistance: 0.0142°C/W  
 Pressure Drop: 2.57psi  
 Min Surface Temp: 22.48°C  
 Max Surface Temp: 41.32°C  
 Water Temp Out: 22.02°C

# D6 STANDARD HT-TAP800-1



## PARAMETERS

Fluid: Water  
 Inlet Flow: 2 gpm  
 Inlet Fluid Temp: 20°C  
 Heat Source: 1 blue square=800W (shown below)  
 Tube: ½ OD round copper inlet/outlet



## Simulation Data

Goal Name	Unit	Value
SG Min Temperature (Solid) 1	[°C]	21.67312884
SG Av Temperature (Solid) 1	[°C]	29.55688695
SG Max Temperature (Solid) 1	[°C]	39.13372898
WATER OUT	[°C]	21.52370623
PRESSURE DROP	[lbf/in^2]	4.568193739

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

## RESULTS

Thermal Resistance: 0.0119°C/W  
 Pressure Drop: 4.56psi  
 Min Surface Temp: 21.67°C  
 Max Surface Temp: 39.13°C  
 Water Temp Out: 21.52°C

# D6 STANDARD HT-TAP800-1



## PARAMETERS

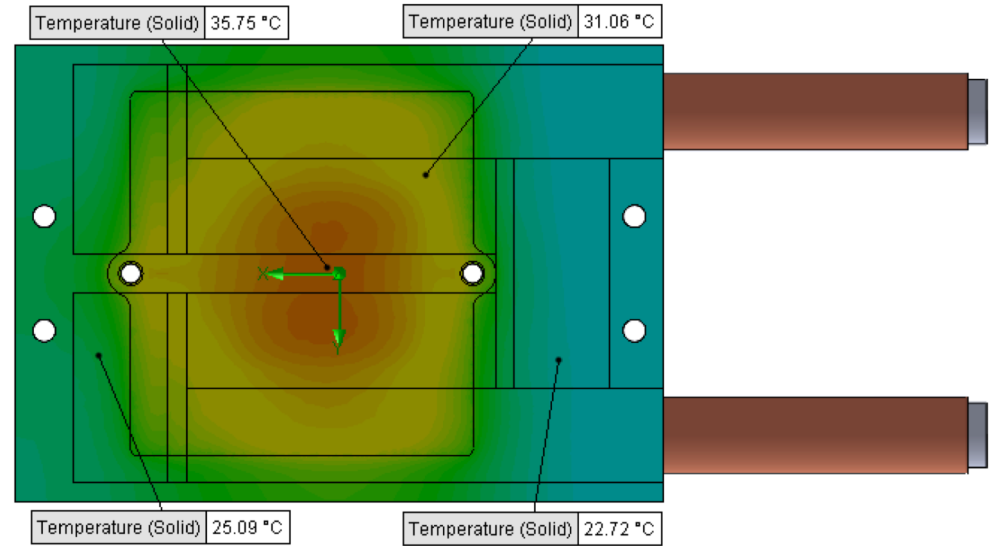
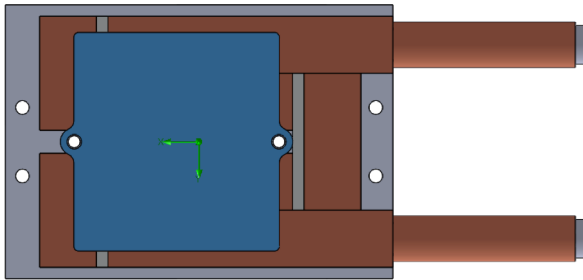
Fluid: Water

Inlet Flow: 3 gpm

Inlet Fluid Temp: 20°C

Heat Source: 1 blue square=800W (shown below)

Tube: ½ OD round copper inlet/outlet



## Simulation Data

Goal Name	Unit	Value
SG Min Temperature (Solid) 1	[°C]	20.90585266
SG Av Temperature (Solid) 1	[°C]	27.51126339
SG Max Temperature (Solid) 1	[°C]	36.38524673
WATER OUT	[°C]	21.02776962
PRESSURE DROP	[lbf/in^2]	10.24190301

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

## RESULTS

Thermal Resistance: 0.0093°C/W

Pressure Drop: 10.24psi

Min Surface Temp: 20.90°C

Max Surface Temp: 36.38°C

Water Temp Out: 21.02°C