



**D6 INDUSTRIES
STANDARD PRODUCT
HT-2P-0450**

SIMULATION RESULTS

1-3 gpm flow rates
Distributed 100W Heat Load

PARAMETERS

Fluid: Water

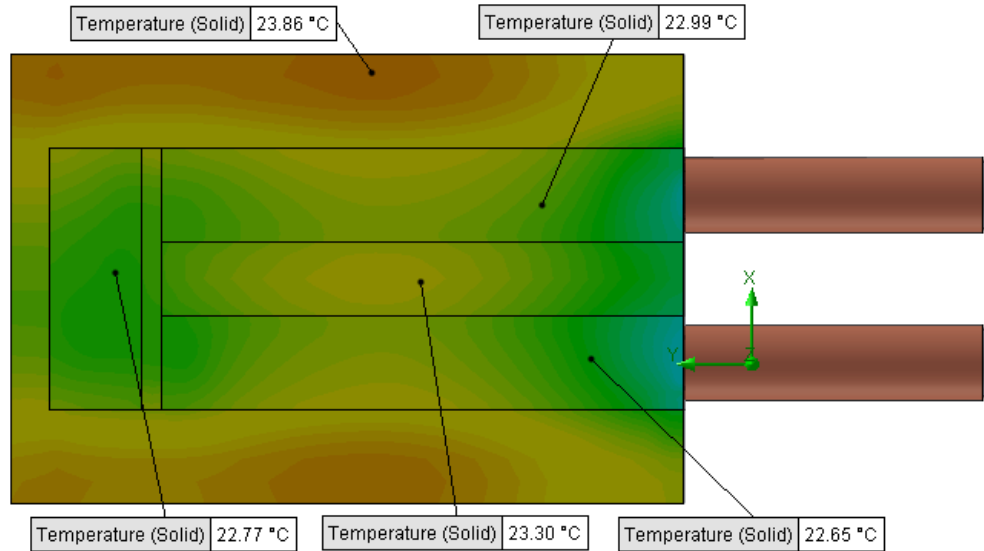
Inlet Flow: 1 gpm

Inlet Fluid Temp: 20°C

Heat Source: 100W distributed

Surface Area: 3.0" x 4.50"

Tube: 5/8 Square copper with
1/2 OD round copper inlet/outlet



Simulation Data

Goal Name	Unit	Value
SG Min Temperature (Solid) 1	[°C]	21.89227892
SG Av Temperature (Solid) 1	[°C]	23.24738583
SG Max Temperature (Solid) 1	[°C]	23.92816077
WATER OUT	[°C]	20.38094199
PRESSURE DROP	[lbf/in^2]	0.638946822

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

RESULTS

Thermal Resistance: 0.0324°C/W

Pressure Drop: 0.64 psi

Min Surface Temp: 21.89°C

Max Surface Temp: 23.93°C

Water Temp Out: 20.38°C

D6 STANDARD-HT-2P-0450



PARAMETERS

Fluid: Water

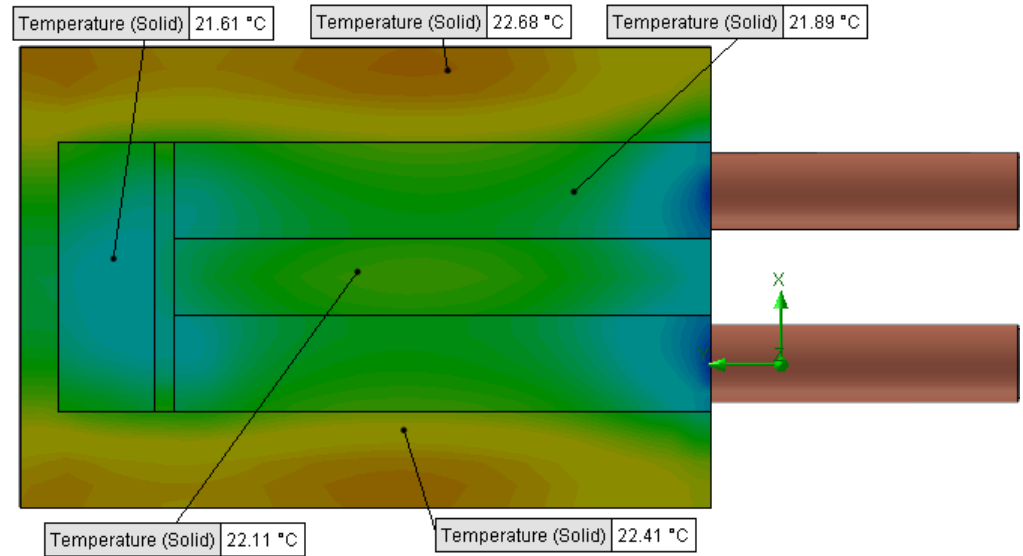
Inlet Flow: 2 gpm

Inlet Fluid Temp: 20°C

Heat Source: 100W distributed

Surface Area: 3.0" x 4.50"

Tube: 5/8 Square copper with
1/2 OD round copper inlet/outlet



Simulation Data

Goal Name	Unit	Value
SG Min Temperature (Solid) 1	[°C]	21.17033294
SG Av Temperature (Solid) 1	[°C]	22.13068306
SG Max Temperature (Solid) 1	[°C]	22.75529436
WATER OUT	[°C]	20.19354007
PRESSURE DROP	[lbf/in^2]	2.506128824

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

RESULTS

Thermal Resistance: 0.0213°C/W

Pressure Drop: 2.50 psi

Min Surface Temp: 21.17°C

Max Surface Temp: 22.75°C

Water Temp Out: 20.19°C

D6 STANDARD-HT-2P-0450



PARAMETERS

Fluid: Water

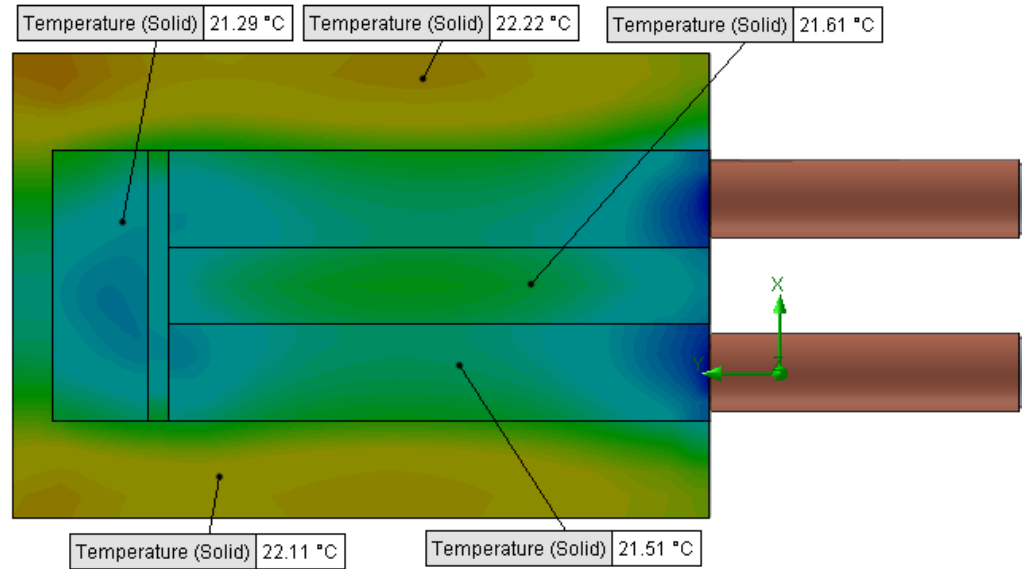
Inlet Flow: 3 gpm

Inlet Fluid Temp: 20°C

Heat Source: 100W distributed

Surface Area: 3.0" x 4.50"

Tube: 5/8 Square copper with
1/2 OD round copper inlet/outlet



Simulation Data

Goal Name	Unit	Value
SG Min Temperature (Solid) 1	[°C]	20.85541993
SG Av Temperature (Solid) 1	[°C]	21.70592123
SG Max Temperature (Solid) 1	[°C]	22.38709446
WATER OUT	[°C]	20.13521885
PRESSURE DROP	[lbf/in^2]	5.623847988

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

RESULTS

Thermal Resistance: 0.017°C/W

Pressure Drop: 5.62 psi

Min Surface Temp: 20.85°C

Max Surface Temp: 22.38°C

Water Temp Out: 20.13°C