

NAIMA 3EPlus V4.1

Dammon Engineering
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Item ID = 1

Item Description =

System Application = Duct - Rectangular Horz.

Dimensional Standard = ASTM C 585 Rigid

Calculation Type = Condensation Control Report

Process Temperature = 65

Ambient Temperature = 95

Wind Speed = 0.0

Relative Humidity = 95

Dew Point = 93.4

Condensation Control Thickness = 0

Duct Width = 14 Duct Depth = 14

Bare Metal = Steel

Bare Surface Emittance = 0.8

Insulation Layer 1 = Duct Wrap, 1.5 pcf, C1290-11

Outer Jacket Material = Aluminum, oxidized, in service

Outer Surface Emittance = 0.1

Variable Insulation Thickness	Surface Temp (°F)	Heat Gain (BTU/hr/ft)	Efficiency (%)
Bare	65.0	198.40	
0.5	76.4	33.58	83.08
1.0	81.2	21.35	89.24
1.5	83.9	15.79	92.04
2.0	85.7	12.56	93.67
2.5	86.9	10.45	94.74
3.0	87.9	8.95	95.49
3.5	88.6	7.83	96.05
4.0	89.2	6.96	96.49
4.5	89.7	6.27	96.84
5.0	90.1	5.71	97.12
5.5	90.4	5.23	97.36
6.0	90.7	4.84	97.56
6.5	91.0	4.49	97.74
7.0	91.2	4.20	97.88
7.5	91.4	3.94	98.02
8.0	91.6	3.71	98.13
8.5	91.8	3.50	98.23
9.0	91.9	3.32	98.33

9.5	92.0	3.16	98.41
10.0	92.2	3.01	98.48

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