ITW Insulation Systems

TRYMER* 2000 XP Insulation For Chilled Water Applications

Ambient Temp = 90°F	Outer surface = Saran, PVC, ASJ, or mastic (e = 0.90)
Ambient Relative Humidity = 80% & 85%	Wind Velocity = 1 mph
Dewpoints = 83°F & 84.9°F	Geometry = Horizontal Pipe

Insulation Thickness (in) Necessary To Prevent Condensation

Relative Humidity = 80%

NPS	Service Temperature (°F)		
(in)	38	40	42
0.5	1	1	1
1	1	1	1
2	1	1	1
3	1	1	1
4	1	1	1
5	1	1	1
6	1	1	1
7	1	1	1
8	1	1	1
9	1	1	1
10	1	1	1
11	1	1	1
12	1	1	1
14	1	1	1
15	1	1	1
16	1	1	1
17	1	1	1
18	1	1	1
19	1	1	1
20	1	1	1
21	1	1	1
22	1	1	1
23	1	1	1
24	1	1	1

Relative Humidity = 85%

NPS	Service Temperature (°F)		
(in)	38	40	42
0.5	1	1	1
1	1	1	1
2	1	1	1
3	1	1	1
4	1	1	1
5	1	1	1
6	1	1	1
7	1	1	1
8	1	1	1
9	1	1	1
10	1	1	1
11	1	1	1
12	1	1	1
14	1.5	1.5	1
15	1.5	1.5	1.5
16	1.5	1.5	1.5
17	1.5	1.5	1.5
18	1.5	1.5	1.5
19	1.5	1.5	1.5
20	1.5	1.5	1.5
21	1.5	1.5	1.5
22	1.5	1.5	1.5
23	1.5	1.5	1.5
24	1.5	1.5	1.5

This table is based on ASTM C 680-95 heat transfer algorithms. The suggested insulation thickness values assume proper system design and installation, do not include a safety factor, and are applicable only for the specified scenario. ITW recommends that the user consult a qualified design engineer familiar with this type of construction for proper system design and specification.