

Chilled Water – Condensation Control Thickness's

Ambient temperature: 25 °C

Line temperature: 10 °C

Wind speed: 0 m/s

Relative Humidity: 75%

Outer Surface Temperature: 20.2 °C

Calculated thickness's to prevent condensation

Copper		Kaiflex ST Class O				
OD	NB	Req. Thickness	Nom. Thickness	λ-Value	Item Code	hse
mm	mm	mm	mm	W/m · K		W/m ² K
8	6.6	5.1	6	0.0355	ST-06x010	10.3
10	8.6	5.4	6	0.0355	ST-06x010	10.1
12	10.8	5.6	6	0.0355	ST-06x012	10
15	13.6	5.9	6	0.0355	ST-06x015	9.8
22	20.2	6.4	9	0.0355	ST-09x022	9.6
28	26.2	6.7	9	0.0355	ST-09x028	9.4
35	32.6	7.1	9	0.0355	ST-09x035	9.2
42	39.6	7.3	9	0.0355	ST-09x042	9.1
54	51.6	7.6	9	0.0355	ST-09x054	8.9
67	64.6	7.9	13	0.0355	ST-13x067	8.7
76.1	73.1	8.1	13	0.0355	ST-13x076	8.6
108	105	8.5	9	0.0355	ST-09-E	8.4
133	130	8.7	9	0.0355	ST-09-E	8.2
159	155	8.9	9	0.0355	ST-09-E	8.1

Ambient temperature: 25 °C

Line temperature: 5 °C

Relative Humidity: 75%

Outer Surface Temperature: 20.2 °C

Wind speed: 0 m/s

Calculated thickness's to prevent condensation

Copper		Kaiflex ST Class O				
OD	NB	Req. Thickness	Nom. Thickness	λ-Value	Item Code	hse
mm	mm	mm	mm	W/m · K		W/m ² K
8	6.6	7.1	9	0.0353	ST-09x010	10.1
10	8.6	7.3	9	0.0353	ST-09x010	10
12	10.8	7.8	9	0.0353	ST-09x012	9.8
15	13.6	8.2	9	0.0353	ST-09x015	9.7
22	20.2	9	13	0.0353	ST-13x022	9.4
28	26.2	9.8	13	0.0353	ST-13x028	9.2
35	32.6	10	13	0.0353	ST-13x035	9.1
42	39.6	10.4	13	0.0353	ST-13x042	9
54	51.6	10.9	13	0.0353	ST-13x054	8.8
67	64.6	11.3	13	0.0353	ST-13x067	8.7
76.1	73.1	11.6	13	0.0353	ST-13x076	8.6
108	105	12.3	13	0.0353	ST-13-E	8.3
133	130	12.7	13	0.0353	ST-13-E	8.2
159	155	13	13	0.0353	ST-13-E	8.1

Ambient temperature: 25 °C

Line temperature: 0 °C

Relative Humidity: 75%

Outer Surface Temperature: 20.2 °C

Wind speed: 0 m/s

Calculated thickness's to prevent condensation

Steel		Kaiflex ST Class O				
OD	NB	Req. Thickness	Nom. Thickness	λ -Value	Item Code	hse
mm	inch	mm	mm	W/m · K		W/m ² K
8	6.6	8.9	9	0.035	ST-09x010	9.9
10	8.6	9.8	13	0.035	ST-13x010	9.7
12	10.8	9.9	13	0.035	ST-13x012	9.7
15	13.6	10.5	13	0.035	ST-13x015	9.5
22	20.2	11.5	13	0.035	ST-13x022	9.3
28	26.2	12.2	13	0.035	ST-13x028	9.1
35	32.6	12.8	13	0.035	ST-13x035	9
42	39.6	13.3	19	0.035	ST-19x042	8.9
54	51.6	14	19	0.035	ST-19x054	8.7
67	64.6	14.6	19	0.035	ST-19x067	8.6
76.1	73.1	14.6	19	0.035	ST-19x076	8.5
108	105	15.9	19	0.035	ST-19-E	8.3
133	130	16.4	19	0.035	ST-19-E	8.2
159	155	16.8	19	0.035	ST-19-E	8.1