

Heat Transfer Tables

- ❖ 800 Series Spin-Glas® Board Insulation..... Page 1-6
- ❖ 1000 Series Spin-Glas® Board Insulation Page 7
- ❖ Precipitator Spin-Glas® Board Insulation Page 8
- ❖ HTB High Temperature Blanket Insulation Page 9-10
- ❖ Dew Point temperature Chart Page 11
- ❖ Recommended Thickness for Condensation Control (814 & 817 Spin-Glas®) Page 12

**814 Series Spin-Glas® Board
Vertical Flat Surface (Sides)**

Plain or AP Facing

Ambient Temperature = 75°F

Wind = 0

Insulation Thickness (inches)	Operating Temperature (°F)																	
	50		100		150		200		250		300		350		400		450	
	HG	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST
Bare	35	50	36	100	133	150	253	200	395	250	562	300	756	350	979	400	1234	450
½	8	69	9	82	29	94	51	107	77	120	106	134	140	149	178	165	221	182
1	5	71	5	79	16	86	29	94	43	102	59	111	77	120	98	130	122	141
1½	3	72	4	78	11	83	20	89	30	95	41	101	54	108	68	115	84	123
2	3	73	3	77	9	81	15	86	23	90	31	96	41	101	52	107	64	114
2½	2	73	2	77	7	80	12	84	18	88	25	92	33	97	42	102	52	107
3	2	74	2	77	6	80	10	83	16	86	21	90	28	94	35	98	44	103
3½	2	74	2	76	5	79	9	82	13	85	18	88	24	91	31	95	38	99
4	1	74	1	76	4	79	8	81	12	84	16	86	21	89	27	93	33	97
4½	1	74	1	76	4	78	7	80	11	83	14	85	19	88	24	91	30	95
5	1	74	1	76	4	78	6	80	10	82	13	84	17	87	22	90	27	93
5½	1	74	1	76	3	78	6	79	9	81	12	84	16	86	20	89	24	91
6	1	74	1	76	3	77	5	79	8	81	11	83	14	85	18	88	22	90
6½	1	74	1	76	3	77	5	79	7	81	10	82	13	84	17	87	21	89
7	1	74	1	76	3	77	5	79	7	80	9	82	12	84	16	86	19	88
7½	1	74	1	76	2	77	4	78	6	80	9	82	11	83	15	85	18	87
8	1	74	1	76	2	77	4	78	6	80	8	81	11	83	14	85	17	87
8½	1	74	1	76	2	77	4	78	6	79	8	81	10	82	13	84	16	86
9	1	74	1	76	2	77	4	78	5	79	7	81	10	82	12	84	15	86
9½	1	74	1	76	2	77	3	78	5	79	7	80	9	82	12	83	14	85
10	1	75	1	76	2	77	3	78	5	79	7	80	9	81	11	83	14	85

FSK Facing or Metal Jacket

Insulation Thickness (inches)	Operating Temperature (°F)																	
	50		100		150		200		250		300		350		400		450	
	HG	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST
Bare	34	50	36	100	133	150	253	200	395	250	562	300	756	350	979	400	1234	450
½	6	64	6	87	22	107	41	127	62	147	87	169	114	193	146	218	181	245
1	4	67	4	83	14	96	25	109	37	123	52	138	69	153	87	170	109	188
1½	3	69	3	81	10	91	18	101	27	112	37	123	49	135	62	147	77	161
2	2	70	2	80	8	88	14	97	21	105	29	114	38	124	49	134	60	146
2½	2	71	2	79	6	86	11	93	17	101	24	108	31	117	40	125	49	135
3	2	71	2	79	5	85	10	91	15	97	20	104	26	111	34	119	42	128
3½	1	72	1	78	5	84	8	89	13	95	18	101	23	107	29	114	36	122
4	1	72	1	78	4	83	8	88	11	93	15	98	20	104	26	111	32	117
4½	1	72	1	78	4	82	7	87	10	92	14	96	18	102	23	107	29	114
5	1	73	1	78	3	82	6	86	9	90	13	95	16	100	21	105	26	111
5½	1	73	1	77	3	81	6	85	8	89	11	93	15	98	19	103	24	108
6	1	73	1	77	3	81	5	85	8	88	11	92	14	96	18	101	22	106
6½	1	73	1	77	3	81	5	84	7	87	10	91	13	95	16	99	20	104
7	1	73	1	77	3	80	4	83	7	87	9	90	12	94	15	98	19	102
7½	1	73	1	77	2	80	4	83	6	86	9	90	11	93	14	97	18	101
8	1	73	1	77	2	80	4	83	6	86	8	89	11	92	13	96	17	100
8½	1	73	1	77	2	79	4	82	5	85	8	88	10	91	13	95	16	99
9	1	73	1	77	2	79	3	82	5	85	7	88	9	91	12	94	15	98
9½	1	74	1	77	2	79	3	82	5	84	7	87	9	90	11	93	14	97
10	1	74	1	76	2	79	3	81	5	84	6	87	8	89	11	92	13	96

Heat Loss (Gain) in BTU/ hr. per square foot of surface

ST: Surface Temperature, °F

814 Series Spin-Glas® Board
Top of Tank or Duct

Plain or AP Facing

Ambient Temperature = 75°F

Wind = 0

Insulation Thickness (inches)	Operating Temperature (°F)																	
	50		100		150		200		250		300		350		400		450	
	HG	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST
Bare	38	50	40	100	149	149	282	200	441	250	624	300	835	350	1076	400	135	450
½	9	69	9	81	29	29	52	104	78	117	108	130	142	144	181	159	225	175
1	5	71	5	79	16	16	29	93	43	100	60	108	78	117	99	126	123	136
1½	3	72	4	78	11	11	20	88	30	93	41	99	54	105	68	112	85	120
2	3	73	3	77	9	9	15	85	23	89	31	94	41	99	52	105	65	111
2½	2	73	2	77	7	7	12	83	19	87	26	91	33	95	42	100	52	105
3	2	74	2	76	6	6	10	82	16	85	21	88	28	92	36	96	44	100
3½	2	74	2	76	5	5	9	81	13	84	18	87	24	90	31	94	38	97
4	1	74	1	76	4	4	8	81	12	83	16	86	21	88	27	92	33	95
4½	1	74	1	76	4	4	7	80	11	82	14	85	19	87	24	90	30	93
5	1	74	1	76	4	4	6	80	10	82	13	84	17	86	22	89	27	91
5½	1	74	1	76	3	3	6	79	9	81	12	83	16	85	20	88	24	90
6	1	74	1	76	3	3	5	79	8	81	11	82	14	84	18	87	22	89
6½	1	74	1	76	3	3	5	79	7	80	10	82	13	84	17	86	21	88
7	1	74	1	76	3	3	5	78	7	80	9	81	12	83	16	85	19	87
7½	1	74	1	76	2	2	4	78	6	80	9	81	12	83	15	85	18	87
8	1	74	1	76	2	2	4	78	6	79	8	81	11	82	14	84	17	86
8½	1	74	1	76	2	2	4	78	6	79	8	80	10	82	13	84	16	85
9	1	74	1	76	2	2	4	78	5	79	7	80	10	82	12	83	15	85
9½	1	75	1	76	2	2	3	78	5	79	7	80	9	81	12	83	14	84
10	1	75	1	75	2	2	3	77	5	79	7	80	9	81	11	82	14	84

FSK Facing or Metal Jacket

Insulation Thickness (inches)	Operating Temperature (°F)																	
	50		100		150		200		250		300		350		400		450	
	HG	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST
Bare	38	50	40	100	149	150	282	200	441	250	624	300	835	350	1076	400	135	450
½	7	65	7	85	24	103	44	121	67	139	93	159	122	180	156	202	194	226
1	4	68	4	82	14	94	26	105	39	117	54	129	71	143	91	157	113	173
1½	3	70	3	80	10	89	18	98	28	107	38	116	50	126	64	137	80	149
2	2	71	2	79	8	87	14	94	22	101	30	109	39	117	50	126	62	135
2½	2	71	2	79	7	85	12	91	18	97	24	103	32	110	40	118	40	126
3	2	72	2	78	6	84	10	89	15	94	21	100	27	106	34	113	42	120
3½	1	72	1	78	5	83	9	87	13	92	18	97	23	103	30	108	37	115
4	1	72	1	78	4	82	8	86	11	90	16	95	21	100	26	105	32	111
4½	1	73	1	77	4	81	7	85	10	89	14	93	18	98	23	103	29	108
5	1	73	1	77	3	81	6	84	9	88	13	92	17	96	21	100	26	105
5½	1	73	1	77	3	80	6	84	8	87	12	91	15	94	19	99	24	103
6	1	73	1	77	3	80	5	83	6	86	11	90	14	93	18	97	22	101
6½	1	73	1	77	3	80	5	83	7	86	10	89	13	92	16	96	20	100
7	1	73	1	77	3	79	4	82	7	85	9	88	12	91	15	95	19	98
7½	1	73	1	77	2	79	4	82	6	85	9	87	11	90	14	94	18	97
8	1	74	1	77	2	79	4	81	6	84	8	87	11	90	13	93	17	96
8½	1	74	1	76	2	79	4	81	6	84	8	86	10	89	13	92	16	95
9	1	74	1	76	2	79	4	81	5	83	7	86	9	88	12	91	15	94
9½	1	74	1	76	2	79	3	81	5	83	7	85	9	88	11	90	14	93
10	1	74	1	76	2	78	3	80	5	83	7	85	9	87	11	90	13	93

Heat Loss (Gain) in BTU/ hr. per square foot of surface

ST: Surface Temperature, °F

814 Series Spin-Glas® Board
Bottom of Tank or Duct

Plain or AP Facing

Ambient Temperature = 75°F

Wind = 0

Insulation Thickness (inches)	Operating Temperature (°F)																	
	50		100		150		200		250		300		350		400		450	
	HG	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST
Bare	28	50	31	100	113	150	215	200	338	250	484	300	655	350	855	400	1087	450
½	8	68	9	82	28	96	49	110	74	124	103	140	135	156	172	174	215	192
1	5	71	5	79	16	87	28	96	42	105	58	115	76	125	96	137	120	149
1½	3	72	3	78	11	84	20	90	29	97	40	104	53	112	67	120	83	129
2	3	73	3	77	9	82	15	87	23	92	31	98	41	104	51	111	64	118
2½	2	73	2	77	7	81	12	85	18	89	25	94	33	99	42	105	52	111
3	2	73	2	77	6	80	10	83	15	87	21	91	28	96	35	101	44	106
3½	2	74	2	76	5	79	9	82	13	86	18	89	24	93	30	97	38	102
4	1	74	1	76	4	79	8	82	12	84	16	88	21	91	27	95	33	99
4½	1	74	1	76	4	78	7	81	10	84	14	86	19	90	24	93	30	97
5	1	74	1	76	4	78	6	80	9	83	13	85	17	88	22	91	27	95
5½	1	74	1	76	3	78	6	80	9	82	12	85	16	87	20	90	24	93
6	1	74	1	76	3	78	5	80	8	82	11	84	14	86	18	89	22	92
6½	1	74	1	76	3	77	5	79	7	81	10	83	13	86	17	88	21	91
7	1	74	1	76	3	77	5	79	7	81	9	83	12	85	16	87	19	90
7½	1	74	1	76	2	77	4	79	6	80	9	82	11	84	15	86	18	89
8	1	74	1	76	2	77	4	78	6	80	8	82	11	84	14	86	17	88
8½	1	74	1	76	2	77	4	78	6	80	8	81	10	83	13	85	16	87
9	1	74	1	76	2	77	4	78	5	80	7	81	10	83	12	85	15	87
9½	1	74	1	76	2	77	3	78	5	79	7	81	9	82	12	84	14	86
10	1	74	1	76	2	77	3	78	5	79	7	81	9	82	11	84	14	86

FSK Facing or Metal Jacket

Insulation Thickness (inches)	Operating Temperature (°F)																	
	50		100		150		200		250		300		350		400		450	
	HG	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST
Bare	28	50	31	100	113	150	215	200	338	250	484	300	655	350	855	400	1087	450
½	5	62	6	88	19	113	36	137	54	162	76	189	100	217	127	246	158	277
1	4	66	4	85	12	101	23	118	34	135	48	154	63	173	80	194	100	216
1½	3	68	3	83	9	96	17	109	24	122	35	136	46	151	59	168	73	185
2	3	69	2	81	7	92	13	103	20	114	28	125	36	138	46	152	57	166
2½	2	70	2	80	6	90	11	99	16	108	23	118	30	129	38	141	47	153
3	2	70	2	80	5	88	9	96	14	104	19	113	26	122	32	133	40	144
3½	1	71	1	79	5	86	8	94	12	101	17	109	22	117	28	127	35	136
4	1	71	1	79	4	85	7	92	11	99	15	106	20	113	25	122	31	131
4½	1	72	1	79	4	85	7	91	10	97	13	103	18	110	23	118	28	126
5	1	72	1	78	3	84	6	89	9	95	12	101	16	107	20	114	25	122
5½	1	72	1	78	3	83	5	88	8	94	11	99	15	105	19	112	23	119
6	1	72	1	78	3	83	5	87	8	92	10	98	14	103	17	109	21	116
6½	1	72	1	78	3	82	5	87	7	91	10	96	13	102	16	107	20	114
7	1	73	1	78	2	82	4	86	7	90	9	95	12	100	15	106	18	111
7½	1	73	1	77	2	81	4	85	6	90	8	94	11	99	14	104	17	110
8	1	73	1	77	2	81	4	85	6	89	8	93	10	98	13	103	16	108
8½	1	73	1	77	2	81	4	85	5	88	7	92	10	97	12	101	15	106
9	1	73	1	77	2	81	3	84	5	88	7	92	9	96	12	100	15	105
9½	1	73	1	77	2	80	3	84	5	87	7	91	9	95	11	99	14	104
10	1	73	1	77	2	80	3	83	5	87	6	90	8	94	11	98	13	103

Heat Loss (Gain) in BTU/ hr. per square foot of surface

ST: Surface Temperature, °F

817 Series Spin-Glas® Board
Vertical Flat Surface (sides)

Plain or AP Facing

Ambient Temperature = 75°F

Wind = 0

Insulation Thickness (inches)	Operating Temperature (°F)																	
	50		100		150		200		250		300		350		400		450	
	HG	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST
Bare	34	50	36	100	133	150	253	200	395	250	562	300	756	350	979	400	1234	450
½	8	69	9	81	27	93	47	104	70	116	95	128	123	141	154	155	189	169
1	5	71	5	79	15	86	26	93	39	100	52	107	67	115	85	124	104	133
1½	3	72	3	78	11	83	18	88	27	93	36	98	47	104	58	110	72	117
2	3	73	3	77	8	81	14	85	21	89	28	93	36	98	45	103	55	108
2½	3	73	2	77	7	80	11	83	17	87	22	90	29	94	36	98	44	103
3	2	74	2	76	6	79	10	82	14	85	19	88	24	91	30	95	37	99
3½	2	74	2	76	5	79	8	81	12	84	16	86	21	89	26	93	32	96
4	1	74	1	76	4	78	7	80	11	83	14	85	18	88	23	91	28	94
4½	1	74	1	76	4	78	6	80	9	82	13	84	16	87	21	89	25	92
5	1	74	1	76	3	78	6	79	9	81	12	83	15	85	19	88	23	90
5½	1	74	1	76	3	77	5	79	8	81	11	83	14	85	17	87	21	89
6	1	74	1	76	3	77	5	79	7	80	10	82	12	84	16	86	19	88
6½	1	74	1	76	3	77	5	79	7	80	9	82	12	83	14	85	18	87
7	1	74	1	76	2	77	4	78	6	80	8	81	11	83	13	85	16	86
7½	1	74	1	76	2	77	4	78	6	79	8	81	10	82	12	84	15	86
8	1	74	1	76	2	77	4	78	5	79	7	81	9	82	12	83	14	85
8½	1	74	1	76	2	77	3	78	5	79	7	80	9	82	11	83	14	85
9	1	74	1	76	2	77	3	78	5	79	6	80	8	81	10	83	13	84
9½	1	74	1	76	2	77	3	78	5	79	6	80	8	81	10	82	12	84
10	1	75	1	75	2	76	3	77	4	78	6	79	8	81	9	82	12	83

FSK Facing or Metal Jacket

Insulation Thickness (inches)	Operating Temperature (°F)																	
	50		100		150		200		250		300		350		400		450	
	HG	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST
Bare	34	50	36	100	133	150	253	200	395	250	562	300	756	350	979	400	1234	450
½	6	64	6	86	21	105	38	124	57	142	78	162	102	182	129	204	159	228
1	4	67	4	83	13	95	23	107	34	119	46	132	60	146	76	160	93	175
1½	3	69	3	81	9	91	16	100	24	109	33	119	43	129	54	139	66	151
2	2	70	2	80	7	88	13	95	19	103	26	110	33	119	42	128	51	137
2½	2	71	2	79	6	86	11	92	16	99	21	105	27	112	34	120	42	128
3	2	71	2	79	5	85	9	90	13	96	18	101	23	107	29	114	35	121
3½	1	72	1	78	4	83	8	88	11	93	15	99	20	104	25	110	31	116
4	1	72	1	78	4	83	7	87	10	92	14	96	18	101	22	106	27	112
4½	1	72	1	78	4	82	6	86	9	90	12	94	16	99	20	104	24	109
5	1	73	1	77	3	81	6	85	8	89	11	93	14	97	18	101	22	106
5½	1	73	1	77	3	81	5	85	7	88	10	92	13	95	16	100	20	104
6	1	73	1	77	3	81	5	84	7	87	9	91	12	94	15	98	18	102
6½	1	73	1	77	3	80	4	83	6	86	9	90	11	93	14	97	17	100
7	1	73	1	77	2	80	4	83	6	86	8	89	10	92	13	95	16	99
7½	1	73	1	77	2	80	4	82	6	85	8	88	10	91	12	94	15	98
8	1	73	1	77	2	79	4	82	5	85	7	87	9	90	11	93	14	97
8½	1	73	1	77	2	79	3	82	5	84	7	87	9	90	11	93	13	96
9	1	73	1	77	2	79	3	81	5	84	6	86	8	89	10	92	13	95
9½	1	74	1	76	2	79	3	81	4	83	6	86	8	88	10	91	12	94
10	1	74	1	76	2	79	3	81	4	83	6	85	7	88	9	90	11	93

Heat Loss (Gain) in BTU/ hr. per square foot of surface

ST: Surface Temperature, °F

817 Series Spin-Glas® Board
Top of Tank or Duct

Plain or AP Facing

Ambient Temperature = 75°F

Wind = 0

Insulation Thickness (inches)	Operating Temperature (°F)																	
	50		100		150		200		250		300		350		400		450	
	HG	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST
Bare	38	50	40	100	149	150	282	200	441	250	624	300	835	350	1076	400	1350	450
½	8	69	9	81	27	92	48	102	71	113	96	125	125	137	157	149	193	163
1	5	71	5	79	15	85	27	91	39	98	53	105	68	112	85	120	105	128
1½	3	72	3	78	11	82	18	87	27	92	36	97	47	102	59	108	72	114
2	3	73	3	77	8	81	14	84	21	88	28	92	36	96	45	101	55	106
2½	2	73	2	77	7	80	11	83	17	86	23	89	29	93	36	97	44	101
3	2	74	2	76	6	79	10	82	14	84	19	87	24	90	31	93	37	97
3½	2	74	2	76	5	79	8	81	12	83	16	86	21	88	26	91	32	94
4	1	74	1	76	4	78	7	80	11	82	14	84	18	87	23	89	28	92
4½	1	74	1	76	4	78	6	80	9	82	13	84	16	86	21	88	25	91
5	1	74	1	76	3	78	6	79	9	81	12	83	15	85	19	87	23	89
5½	1	74	1	76	3	77	5	79	8	80	11	82	14	84	17	86	21	88
6	1	74	1	76	3	77	5	79	7	80	10	82	12	83	16	85	19	87
6½	1	74	1	76	3	77	5	78	7	80	9	81	12	83	14	84	18	86
7	1	74	1	76	2	77	4	78	6	79	8	81	11	82	13	84	16	86
7½	1	74	1	76	2	77	4	78	6	79	8	80	10	82	13	83	15	85
8	1	74	1	76	2	77	4	78	5	79	7	80	9	81	12	83	14	84
8½	1	74	1	76	2	77	3	78	5	79	7	80	9	81	11	82	14	84
9	1	74	1	76	2	77	3	77	5	79	7	80	8	81	10	82	13	84
9½	1	75	1	75	2	76	3	77	5	78	6	79	8	81	10	82	12	83
10	1	75	1	75	2	76	3	77	4	78	6	79	8	80	9	81	12	83

FSK Facing or Metal Jacket

Insulation Thickness (inches)	Operating Temperature (°F)																	
	50		100		150		200		250		300		350		400		450	
	HG	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST
Bare	38	50	40	100	149	150	282	200	441	250	624	300	835	350	1076	400	1350	450
½	7	65	7	85	23	102	41	118	61	135	83	152	108	170	137	189	168	210
1	4	68	4	82	14	93	24	103	35	114	48	125	62	136	79	148	97	162
1½	3	70	3	80	10	89	17	96	25	104	34	112	44	121	55	130	68	140
2	2	71	2	79	8	86	13	92	19	99	26	105	34	112	43	120	52	128
2½	2	71	2	79	6	84	11	90	16	95	21	101	28	107	35	113	43	120
3	2	72	2	78	5	83	9	88	13	93	18	98	23	103	29	108	36	114
3½	1	72	1	78	5	82	8	86	12	91	16	95	20	100	25	105	31	110
4	1	73	1	78	4	82	7	85	10	89	14	93	18	97	22	102	27	107
4½	1	73	1	77	4	81	6	85	9	88	12	92	16	95	20	99	25	104
5	1	73	1	77	3	81	6	84	8	87	11	90	14	94	18	97	22	101
5½	1	73	1	77	3	80	5	83	8	86	10	89	13	92	17	96	20	100
6	1	73	1	77	3	80	5	83	7	85	9	88	12	91	15	95	19	98
6½	1	73	1	77	3	79	4	82	6	85	9	87	11	90	14	93	17	97
7	1	73	1	77	2	79	4	82	6	84	8	87	10	89	13	92	16	95
7½	1	73	1	77	2	79	4	81	6	84	8	86	10	89	12	91	15	94
8	1	74	1	76	2	79	4	81	5	83	7	86	9	88	12	91	14	93
8½	1	74	1	76	2	79	3	81	5	83	7	85	9	87	11	90	13	92
9	1	74	1	76	2	78	3	80	5	83	6	85	8	87	10	89	13	92
9½	1	74	1	76	2	78	3	80	4	82	6	84	8	86	10	89	12	91
10	1	74	1	76	2	78	3	80	4	82	6	84	7	86	9	88	11	90

Heat Loss (Gain) in BTU/ hr. per square foot of surface

ST: Surface Temperature, °F

817 Series Spin-Glas® Board
Bottom of Tank or Duct

Plain or AP Facing

Ambient Temperature = 75°F

Wind = 0

Insulation Thickness (inches)	Operating Temperature (°F)																	
	50		100		150		200		250		300		350		400		450	
	HG	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST
Bare	28	50	31	100	113	150	215	200	338	250	484	300	655	350	855	400	1087	450
½	8	68	8	82	26	95	46	107	68	120	92	134	119	148	150	163	184	179
1	5	71	5	79	15	87	26	94	38	102	51	111	66	120	83	129	102	139
1½	3	72	3	78	10	83	18	89	26	95	36	101	46	108	58	115	71	122
2	3	73	3	77	8	82	14	86	20	91	27	96	35	101	44	106	54	113
2½	2	73	2	77	7	80	11	84	17	88	22	92	29	96	36	101	44	106
3	2	73	2	77	5	80	10	83	14	86	19	90	24	93	30	97	37	102
3½	1	74	2	76	5	79	8	82	12	85	16	88	21	91	26	95	32	99
4	1	74	1	76	4	79	7	81	11	84	14	86	18	89	23	92	28	96
4½	1	74	1	76	4	78	6	80	9	83	13	85	16	88	20	91	25	94
5	1	74	1	76	3	78	6	80	9	82	11	84	15	87	18	89	23	92
5½	1	74	1	76	3	78	5	80	8	81	10	84	13	86	17	88	21	91
6	1	74	1	76	3	77	5	79	7	81	10	83	12	85	15	87	19	90
6½	1	74	1	76	3	77	5	79	7	81	9	82	11	84	14	86	18	89
7	1	74	1	76	2	77	4	79	6	80	8	82	11	84	13	86	16	88
7½	1	74	1	76	2	77	4	78	6	80	8	81	10	83	12	85	15	87
8	1	74	1	76	2	77	4	78	5	80	7	81	9	83	12	84	14	86
8½	1	74	1	76	2	77	3	78	5	79	7	81	9	82	11	84	13	86
9	1	74	1	76	2	77	3	78	5	79	6	80	8	82	10	83	13	85
9½	1	74	1	76	2	77	3	78	5	79	6	80	8	82	10	83	12	85
10	1	74	1	76	2	77	3	78	4	79	6	80	8	81	9	83	11	84

FSK Facing or Metal Jacket

Insulation Thickness (inches)	Operating Temperature (°F)																	
	50		100		150		200		250		300		350		400		450	
	HG	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST
Bare	28	50	31	100	113	150	215	200	338	250	484	300	655	350	855	400	1087	450
½	5	62	5	88	18	111	33	134	50	157	69	180	90	205	114	232	140	259
1	3	66	4	84	12	100	21	115	31	131	43	147	56	164	70	182	86	201
1½	3	68	3	82	9	95	15	106	23	118	31	131	40	144	51	158	63	173
2	2	69	2	81	7	91	12	101	18	111	25	121	32	132	40	143	49	155
2½	2	70	2	80	6	89	10	97	15	106	20	114	26	123	33	133	40	144
3	2	70	2	80	5	87	9	94	13	102	17	109	22	117	28	126	34	135
3½	1	71	1	79	4	86	8	92	11	99	15	106	19	113	24	121	30	129
4	1	71	1	79	4	85	7	91	10	97	13	103	17	109	22	116	26	124
4½	1	72	1	78	3	84	6	89	9	95	12	100	15	106	19	113	24	120
5	1	72	1	78	3	83	5	88	8	93	11	99	14	104	18	110	22	116
5½	1	72	1	78	3	83	5	87	7	92	10	97	13	102	16	107	20	113
6	1	72	1	78	3	82	5	87	7	91	9	95	12	100	15	105	18	111
6½	1	72	1	78	2	82	4	86	6	90	8	94	11	99	14	104	17	109
7	1	72	1	77	2	81	4	85	6	89	8	93	10	97	13	102	16	107
7½	1	73	1	77	2	81	4	85	5	88	7	92	10	96	12	101	15	105
8	1	73	1	77	2	81	4	84	5	88	7	91	9	95	11	99	14	104
8½	1	73	1	77	2	81	3	84	5	87	7	91	9	94	11	98	13	102
9	1	73	1	77	2	80	3	83	5	87	6	90	8	93	10	97	12	101
9½	1	73	1	77	2	80	3	83	4	86	6	89	8	93	10	96	12	100
10	1	73	1	77	2	80	3	83	4	86	6	89	7	92	9	95	11	99

Heat Loss (Gain) in BTU/ hr. per square foot of surface

ST: Surface Temperature, °F

1000 SERIES SPIN-GLAS w/Metal Jacket

Insulation Thickness (inches)	Equipment Operating Temperature (°F)															
	150		250		350		450		550		650		750		850	
	HL*	ST*	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST
Bare	133	150	395	250	756	350	1234	450	1856	550	2651	650	3653	750	4899	850
1	14	95	35	118	61	143	94	170	135	202	187	239	251	281	329	328
1½	10	90	25	108	44	126	67	147	96	172	132	200	177	232	232	269
2	8	87	20	102	34	117	52	134	74	154	102	177	137	203	179	234
2½	6	86	16	98	28	110	42	125	60	142	83	161	112	184	146	210
3	5	84	14	95	23	106	36	119	51	133	70	150	94	170	123	193
3½	5	83	12	93	20	103	31	114	44	127	61	142	81	160	107	180
4	4	82	10	91	18	100	27	110	39	122	54	136	72	152	94	170
4½	4	82	9	90	16	98	24	107	35	118	48	130	64	145	84	162
5	3	81	8	88	15	96	22	104	32	114	43	126	58	140	76	155
5½	3	81	8	87	13	94	20	102	29	112	40	122	53	135	69	150
6	3	80	7	87	12	93	19	101	27	109	36	119	49	131	64	145
6½	3	80	7	86	11	92	17	99	25	107	34	117	45	128	59	141
7	2	80	6	85	11	91	16	98	23	105	31	114	42	125	55	137
7½	2	79	6	85	10	90	15	96	21	104	29	112	39	122	51	134
8	2	79	5	84	9	89	14	95	20	102	28	110	37	120	48	131
8½	2	79	5	84	9	89	13	94	19	101	26	109	35	118	46	128
9	2	79	5	83	8	88	13	94	18	100	25	107	33	116	43	126
9½	2	79	5	83	8	88	12	93	17	99	23	106	31	114	41	124
10	2	79	4	83	8	87	11	92	16	98	22	105	30	113	39	122

1000 SERIES SPIN-GLAS w/Dull Surface

Insulation Thickness (inches)	Equipment Operating Temperature (°F)															
	150		250		350		450		550		650		750		850	
	HL*	ST*	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST
Bare	133	150	395	250	756	350	1234	450	1856	550	2651	650	3653	750	4899	850
1	16	86	40	100	68	115	104	133	148	153	205	175	274	201	360	230
1½	11	83	27	93	47	104	72	117	102	132	141	149	189	169	247	191
2	8	81	21	89	36	98	55	109	78	120	108	134	144	151	188	169
2½	7	80	17	87	29	94	44	103	63	113	87	125	116	138	152	154
3	6	79	14	85	25	92	37	99	53	108	73	118	98	130	128	144
3½	5	79	12	84	21	89	32	96	46	104	63	113	84	123	110	136
4	4	78	11	83	19	88	28	94	40	101	55	109	74	118	97	129
4½	4	78	10	82	17	87	25	92	36	98	49	106	66	114	86	124
5	4	78	9	82	15	86	23	90	32	96	45	103	59	111	78	120
5½	3	78	8	81	14	85	21	89	30	95	41	101	54	108	71	117
6	3	77	7	81	13	84	19	88	27	93	37	99	50	106	65	114
6½	3	77	7	80	12	83	18	87	25	92	34	97	46	104	60	111
7	3	77	6	80	11	83	16	87	23	91	32	96	43	102	56	109
7½	2	77	6	80	10	82	15	86	22	90	30	95	40	100	52	107
8	2	77	6	79	10	82	14	85	21	89	28	94	38	99	49	105
8½	2	77	5	79	9	82	14	85	19	88	27	93	35	98	46	104
9	2	77	5	79	8	81	13	84	18	88	25	92	33	97	44	103
9½	2	77	5	79	8	81	12	84	17	87	24	91	32	96	41	101
10	2	77	4	79	8	81	12	83	16	87	23	90	30	95	39	100

HL: Heat Transfer, BTU/hr. per square ft.

ST: Surface Temperature, °F.

**Precipitator Spin-Glas®
Board Insulation**

PRECIPITATOR SPIN-GLAS w/Metal Jacket

Insulation Thickness (inches)	Equipment Operating Temperature (°F)															
	150		250		350		450		550		650		750		850	
	HL*	ST*	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST
Bare	133	150	395	250	756	350	1234	450	1856	550	2651	650	3653	750	4899	850
1	14	95	36	119	64	145	99	174	144	209	201	249	272	294	358	345
1½	10	90	26	108	45	128	70	150	102	177	142	207	192	242	254	282
2	8	87	20	102	35	118	55	136	79	158	110	183	149	212	196	245
2½	6	86	16	98	29	112	45	127	65	145	90	167	121	192	160	220
3	5	84	14	95	24	107	38	121	55	136	76	155	102	177	135	202
3½	5	83	12	93	21	103	33	116	47	130	66	146	89	166	117	188
4	4	82	11	91	19	101	29	112	42	124	58	140	78	157	103	177
4½	4	82	10	90	17	98	26	108	37	120	52	134	70	150	92	169
5	3	81	9	89	15	97	23	106	34	117	47	129	63	144	83	161
5½	3	81	8	88	14	95	21	104	31	114	43	125	58	139	76	155
6	3	80	7	87	13	94	20	102	28	111	39	122	53	135	70	150
6½	3	80	7	86	12	93	18	100	26	109	36	119	49	131	65	145
7	2	80	6	85	11	92	17	99	24	107	34	117	46	128	60	141
7½	2	79	6	85	10	91	16	97	23	105	32	115	43	125	56	138
8	2	79	6	84	10	90	15	96	21	104	30	113	40	123	53	135
8½	2	79	5	84	9	89	14	95	20	102	28	111	38	121	50	132
9	2	79	5	84	9	89	13	94	19	101	27	109	36	119	47	130
9½	2	79	5	83	8	88	13	94	18	100	25	108	34	117	45	127
10	2	79	4	83	8	87	12	93	17	99	24	106	32	115	43	125

PRECIPITATOR SPIN-GLAS w/Dull Surface

Insulation Thickness (inches)	Equipment Operating Temperature (°F)															
	150		250		350		450		550		650		750		850	
	HL*	ST*	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST
Bare	133	150	395	250	756	350	1234	450	1856	550	2651	650	3653	750	4899	850
1	16	86	40	101	71	117	109	135	158	157	221	182	298	210	394	241
1½	11	83	28	94	49	105	76	119	109	135	152	154	205	176	270	200
2	8	81	21	90	38	99	58	110	84	123	116	138	156	156	206	176
2½	7	80	17	87	30	95	47	104	68	115	94	128	126	143	166	160
3	6	79	15	85	26	92	39	100	57	110	79	121	106	134	140	149
3½	5	79	13	84	22	90	34	97	49	105	68	115	91	127	120	140
4	4	78	11	83	19	88	30	95	43	102	60	111	80	122	106	134
4½	4	78	10	82	17	87	27	93	38	100	53	108	72	117	94	128
5	4	78	9	82	16	86	24	91	35	97	48	105	65	114	85	124
5½	3	78	8	81	14	85	22	90	32	96	44	103	59	111	78	120
6	3	77	8	81	13	84	20	89	29	94	40	101	54	108	71	117
6½	3	77	7	80	12	84	19	88	27	93	37	99	50	106	66	114
7	3	77	6	80	11	83	17	87	25	92	35	97	47	104	61	112
7½	2	77	6	80	11	83	16	86	23	91	32	96	43	102	57	110
8	2	77	6	79	10	82	15	86	22	90	30	95	41	101	54	108
8½	2	77	5	79	9	82	14	85	21	89	29	94	38	100	51	106
9	2	77	5	79	9	82	14	85	19	88	27	93	36	98	48	105
9½	2	77	5	79	8	81	13	84	18	88	26	92	34	97	45	103
10	2	77	5	79	8	81	12	84	18	87	24	91	33	96	43	102

HL: Heat Transfer, BTU/hr. per square ft.

ST: Surface Temperature, °F.

HTB 23 w/Metal Jacket

Insulation Thickness (inches)	Equipment Operating Temperature (°F)															
	150		250		350		450		550		650		750		850	
	HL*	ST*	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST
Bare	133	150	395	250	756	350	1234	450	1856	550	2651	650	3653	750	4899	850
1	14	95	37	120	68	148	107	181	157	218	220	261	298	310	392	363
1½	10	90	27	109	48	131	76	155	112	184	156	217	212	255	279	298
2	8	87	21	103	37	120	59	140	87	164	121	191	164	223	216	258
2½	6	86	17	99	31	113	48	131	71	151	99	174	134	201	176	232
3	5	84	14	96	26	109	41	124	60	141	84	162	113	185	149	212
3½	5	83	12	93	22	105	35	118	52	134	72	152	98	173	129	197
4	4	82	11	92	20	102	31	114	46	128	64	145	86	164	114	186
4½	4	82	10	90	18	100	28	111	41	124	57	139	77	156	102	176
5	3	81	9	89	16	98	25	108	37	120	52	134	70	150	92	168
5½	3	81	8	88	15	96	23	105	34	117	47	130	64	145	84	162
6	3	80	8	87	13	95	21	103	31	114	43	126	59	140	77	156
6½	3	80	7	86	13	93	20	102	29	111	40	123	54	136	71	151
7	2	80	6	86	12	92	18	100	27	109	37	120	50	133	66	147
7½	2	79	6	85	11	91	17	99	25	108	35	118	47	130	62	143
8	2	79	6	85	10	91	16	98	23	106	33	116	44	127	58	140
8½	2	79	5	84	10	90	15	97	22	104	31	114	42	125	55	137
9	2	79	5	84	9	89	14	96	21	103	29	112	40	122	52	134
9½	2	79	5	83	9	89	14	95	20	102	28	111	38	120	49	132
10	2	79	5	83	8	88	13	94	19	101	26	109	36	119	47	129

HTB 23 w/Dull Surface

Insulation Thickness (inches)	Equipment Operating Temperature (°F)															
	150		250		350		450		550		650		750		850	
	HL*	ST*	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST
Bare	133	150	395	250	756	350	1234	450	1856	550	2651	650	3653	750	4899	850
1	16	86	42	101	75	119	118	139	173	163	243	190	329	220	434	253
1½	11	83	29	94	52	107	82	122	120	140	167	160	226	184	298	210
2	8	81	22	90	40	100	62	113	91	127	128	144	173	163	228	184
2½	7	80	18	87	32	96	51	106	74	118	103	132	140	149	184	167
3	6	79	15	86	27	93	43	102	62	112	87	125	117	139	154	155
3½	5	79	13	84	23	91	37	99	54	108	75	119	101	131	133	146
4	4	78	11	83	21	89	32	96	47	104	66	114	89	126	117	139
4½	4	78	10	83	18	88	29	94	42	102	59	110	79	121	104	133
5	4	78	9	82	17	87	26	92	38	99	53	107	71	117	94	128
5½	3	78	8	81	15	86	24	91	35	97	48	105	65	114	86	124
6	3	77	8	81	14	85	22	90	32	96	44	103	60	111	79	121
6½	3	77	7	80	13	84	20	89	29	94	41	101	55	109	73	118
7	3	77	7	80	12	84	19	88	27	93	38	99	51	107	68	115
7½	2	77	6	80	11	83	17	87	25	92	36	98	48	105	63	113
8	2	77	6	80	10	83	16	87	24	91	33	97	45	103	59	111
8½	2	77	6	79	10	82	15	86	23	90	31	96	42	102	56	109
9	2	77	5	79	9	82	15	85	21	90	30	95	40	101	53	107
9½	2	77	5	79	9	82	14	85	20	89	28	94	38	99	50	106
10	2	76	5	79	8	81	13	84	19	88	27	93	36	98	48	105

HL: Heat Transfer, BTU/hr. per square ft.

ST: Surface Temperature, °F.

HTB 26 w/Metal Jacket

Insulation Thickness (inches)	Equipment Operating Temperature (°F)															
	150		250		350		450		550		650		750		850	
	HL*	ST*	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST
Bare	133	150	395	250	756	350	1234	450	1856	550	2651	650	3653	750	4899	850
1	16	98	45	128	84	162	134	201	197	246	274	295	367	350	477	408
1½	12	93	33	116	61	142	97	172	142	207	198	246	266	290	346	338
2	9	89	26	108	47	130	75	155	111	183	155	216	208	253	271	293
2½	8	87	21	103	39	122	62	143	91	168	127	196	171	227	223	263
3	7	86	18	100	33	116	52	135	77	156	108	181	145	209	189	240
3½	6	85	16	97	29	111	46	128	67	147	93	170	125	195	164	223
4	5	84	14	95	25	108	40	123	59	141	82	161	111	184	145	209
4½	5	83	12	93	23	105	36	119	53	135	74	153	99	174	130	198
5	4	82	11	92	21	103	33	115	48	130	67	147	90	167	117	189
5½	4	82	10	91	19	101	30	113	44	126	61	142	82	160	107	181
6	3	81	9	90	17	99	27	110	40	123	56	138	76	155	99	174
6½	3	81	9	89	16	98	25	108	37	120	52	134	70	150	92	168
7	3	81	8	88	15	96	24	106	35	118	48	131	65	146	85	163
7½	3	80	8	87	14	95	22	105	33	115	45	128	61	142	80	158
8	3	80	7	87	13	94	21	103	31	113	43	125	57	139	75	154
8½	2	80	7	86	12	93	20	102	29	112	40	123	54	136	71	151
9	2	80	6	86	12	93	19	101	27	110	38	121	51	133	67	147
9½	2	79	6	85	11	92	18	100	26	109	36	119	49	131	63	144
10	2	79	6	85	11	91	17	99	25	107	34	117	46	129	60	142

HTB 26 w/Dull Surface

Insulation Thickness (inches)	Equipment Operating Temperature (°F)															
	150		250		350		450		550		650		750		850	
	HL*	ST*	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST	HL	ST
Bare	133	150	395	250	756	350	1234	450	1856	550	2651	650	3653	750	4899	850
1	19	88	52	107	95	129	151	154	222	182	310	214	418	248	547	285
1½	13	84	36	98	66	115	105	133	154	155	215	180	290	207	379	236
2	10	83	28	93	51	106	81	122	118	139	165	159	222	182	290	207
2½	8	81	23	90	41	101	65	114	96	129	134	146	180	166	235	187
3	7	80	19	88	35	98	55	109	81	122	113	137	151	154	198	173
3½	6	80	16	87	30	95	48	105	70	116	97	130	130	145	171	162
4	5	79	14	85	26	93	42	102	61	112	85	124	115	138	150	153
4½	5	79	13	84	24	91	37	99	55	108	76	119	102	132	134	146
5	4	78	12	83	21	90	34	97	49	106	69	116	92	127	121	140
5½	4	78	11	83	19	88	31	95	45	103	63	113	84	123	110	136
6	4	78	10	82	18	87	28	94	41	101	58	110	77	120	101	131
6½	3	78	9	82	17	87	26	92	38	100	53	108	72	117	94	128
7	3	78	8	81	15	86	24	91	36	98	50	106	67	115	87	125
7½	3	77	8	81	14	85	23	90	33	97	46	104	62	112	81	122
8	3	77	7	81	14	85	21	90	31	95	44	102	58	110	76	120
8½	3	77	7	80	13	84	20	89	29	94	41	101	55	109	72	117
9	2	77	7	80	12	84	19	88	28	93	39	100	52	107	68	115
9½	2	77	6	80	11	83	18	88	26	93	37	99	49	106	64	114
10	2	77	6	80	11	83	17	87	25	92	35	98	47	104	61	112

HL: Heat Transfer, BTU/hr. per square ft.

ST: Surface Temperature, °F.

Dew Point Temperatures

Dry-bulb Temp. (F)	Percent Relative Humidity																		
	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
5	-35	-30	-25	-21	-17	-14	-12	-10	-8	-6	-5	-4	-2	-1	1	2	3	4	5
10	-31	-25	-20	-16	-13	-10	-7	-5	-3	-2	0	2	3	4	5	7	8	9	10
15	-28	-21	-16	-12	-8	-5	-3	-1	1	3	5	6	8	9	10	12	13	14	15
20	-24	-16	-11	-8	-4	-2	2	4	6	8	10	11	13	14	15	16	18	19	20
25	-20	-15	-8	-4	0	3	6	8	10	12	15	16	18	19	20	21	23	24	25
30	-15	-9	-3	2	5	8	11	13	15	17	20	22	23	24	25	27	28	29	30
35	-12	-5	1	5	9	12	15	18	20	22	24	26	27	28	30	32	33	34	35
40	-7	0	5	9	14	16	19	22	24	26	28	29	31	33	35	36	38	39	40
45	-4	3	9	13	17	20	23	25	28	30	32	34	36	38	39	41	43	44	45
50	-1	7	13	17	21	24	27	30	32	34	37	39	41	42	44	45	47	49	50
55	3	11	16	21	25	28	32	34	37	39	41	43	45	47	49	50	52	53	55
60	6	14	20	25	29	32	35	39	42	44	46	48	50	52	54	55	57	59	60
65	10	18	24	28	33	38	40	43	46	49	51	53	55	57	59	60	62	63	65
70	13	21	28	33	37	41	45	48	50	53	55	57	60	62	64	65	67	68	70
75	17	25	32	37	42	46	49	52	55	57	60	62	64	66	69	70	72	74	75
80	20	29	35	41	46	50	54	57	60	62	65	67	69	72	74	75	77	78	80
85	23	32	40	45	50	54	58	61	64	67	69	72	74	76	78	80	82	83	85
90	27	36	44	49	54	58	62	66	69	72	74	77	79	81	83	85	87	89	90
95	30	40	48	54	59	63	67	70	73	76	79	82	84	86	88	90	91	93	95
100	34	44	52	58	63	68	71	75	78	81	84	86	88	91	92	94	96	98	100
105	38	48	56	62	67	72	76	79	82	85	88	90	93	95	97	99	101	103	105
110	41	52	60	66	71	77	80	84	87	90	92	95	98	100	102	104	106	108	110
115	45	56	64	70	75	80	84	88	91	94	97	100	102	105	107	109	111	113	115
120	48	60	68	74	79	85	88	92	96	99	102	105	107	109	112	114	116	118	120
125	52	63	72	78	84	89	93	97	100	104	107	109	111	114	117	119	121	123	125

**Cold Applications Condensation Control
(Based on Still Air)**

80° F & 90% RH

Operating Temperature	45° F			50° F			55° F		
	Vertical	Top	Bottom	Vertical	Top	Bottom	Vertical	Top	Bottom
814 Spin-Glas Plain or AP	2	2	2	1.5	1.5	2	1.5	1.5	1.5
814 Spin-Glas FSK or Metal	5.5	4.5	7.5	4.5	4	6.5	4	3	5
817 Spin-Glas Plain or AP	2	2	2	1.5	1.5	2	1.5	1.5	1.5
817 Spin-Glas FSK or Metal	5.5	4.5	7	4.5	4	6	3.5	3	5

80° F & 70% RH

Operating Temperature	45° F			50° F			55° F		
	Vertical	Top	Bottom	Vertical	Top	Bottom	Vertical	Top	Bottom
814 Spin-Glas Plain or AP	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
814 Spin-Glas FSK or Metal	1	1	1.5	1	1	1.5	1	0.5	1
817 Spin-Glas Plain or AP	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
817 Spin-Glas FSK or Metal	1	1	1.5	1	1	1.5	1	0.5	1

80° F & 50% RH

Operating Temperature	45° F			50° F			55° F		
	Vertical	Top	Bottom	Vertical	Top	Bottom	Vertical	Top	Bottom
814 Spin-Glas Plain or AP	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
814 Spin-Glas FSK or Metal	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
817 Spin-Glas Plain or AP	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
817 Spin-Glas FSK or Metal	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5

The performance criteria governing the selection and installation of a mechanical insulation system rests with the engineers and architects on a project. We provide this information to you as a limited technical service to assist you in making your independent recommendations, but it is ultimately used solely at your discretion.



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