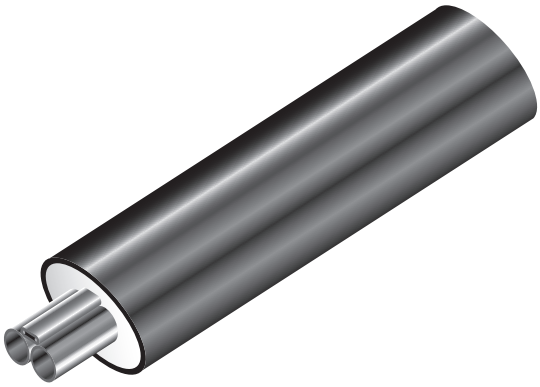
RTB

Raychem

Electric traced bundles

PRODUCT OVERVIEW



Raychem RTB tubing bundles utilizing electric tracing are designed to maintain freeze protection, close temperature tolerances, or viscosity control.

They provide an excellent means of maintaining very long, continuous lengths of impulse lines and piping at consistent temperatures end-to-end.

These bundles are used when the maintain temperature ranges from 10°C (50°F) to 205°C (400°F). Utilizing Raychem self-regulating heater technology, this system will lower its heat output as the process tube gets warmer. Optional line sensing controllers allow for close temperature control, if necessary.

ELECTRIC HEATING CABLE

RTB Electric Traced tubing bundles utilize Raychem self-regulating technology.

Low temperature maintain and exposure temperature applications are fabricated using Raychem BTV product, while medium or high temperature maintain and exposure utilize XTVR or HTV product.

High temperature HTV self-regulating heating cable:

- Withstands 260°C (500°F) intermittent blowdown temperatures.
- Maintains temperatures up to 205°C (400°F).

Medium temperature XTVR self-regulating heating cable:

- Withstands 250°C (482°F) intermittent blowdown temperatures.
- Maintains temperatures up to 150°C (302°F).

BTV Self-Regulating heating cable:

- Withstands up to 85°C (185°F) blowdown temperatures.
- Maintains temperatures up to 65°C (150°F).

The choice between high, medium and low temperature heating cable must be made based on the desired performance and the conditions of the application.

Refer to the appropriate heating cable data sheet for specific heater specifications.

MATERIAL SPECIFICATIONS

RTB standard jacket material, TPU, is a thermoplastic jacket that offers excellent abrasion resistance and extreme cold temperature workability. TPU also contains no chlorides, so it should be selected for applications where chloride stress cracking is a problem.

Optional Arctic PVC is a proprietary thermoplastic formulation that exceeds the requirements of 105°C PVC and outperforms other PVC jacket materials in UV resistance, as well as providing low temperature flexibility to –35°C (30°F).

	Standard 105°C PVC	Arctic PVC	TPU
Abrasion resistance	G	G	E
Tensile strength PSI	18–1900	2200	3800
Elongation %	250%	350%	700%
Hardness, Shore A	85–90	80	80
Minimum service temperature	None stated	–35°C (–30°F)	–58°C (–67°F)
Minimum installation temperature	–9°C (15°F)	–23°C (–10°F)	–40°C (–40°F)
UL94 flame	V2	V2	V0 to V2
Halogenated (chlorides)	Yes	Yes	No
Maximum temperature	105°C (220°F)	105°C (220°F)	120°C (250°F)
Water absorption %	0.1%	0.1%	1.2–1.4%
Aromatic hydrocarbons	F	F	G
Weathering	G	G	E
UV resistance	F	G	E
Insulation	Fibrous glass Water soluble chlorides less than 100 ppm Nonhygroscopic		
	E = Excellent G = Good F = Fair P = Poor		

TEMPERATURE LIMITS

Maximum process temperature	205°C (400°F)
Maximum jacket surface temperature	60°C (140°F) at ambient temperature of 27°C (80°F) with 10 mph (16 km/h) wind

TUBING SPECIFICATIONS

Designation	Material	Construction	O.D. (mm)	Wall (mm)
Metric				
-6-S-10-	316/316L SS	Seamless	6	1
-8-S-10-	316/316L SS	Seamless	8	1
-10-S-10-	316/316L SS	Seamless	10	1
-12-S-10-	316/316L SS	Seamless	12	1
-10-S-15-	316/316L SS	Seamless	10	1.5
-12-S-15-	316/316L SS	Seamless	12	1.5
-12-W-10-	316/316L SS	Welded	12	1
-6-C-10-	Copper	Seamless	6	1
-8-C-10-	Copper	Seamless	8	1
-12-C-10-	Copper	Seamless	12	1
-6-P-10-	PFA Teflon	Extruded	6	1
-8-P-10-	PFA Teflon	Extruded	8	1
-10-P-10-	PFA Teflon	Extruded	10	1
-12-P-10-	PFA Teflon	Extruded	12	1
Fractional				
-⅛-S-.035-	316/316L SS	Seamless	⅛	0.035
-¼-S-.035-	316/316L SS	Seamless	¼	0.035
-⅜-S-.035-	316/316L SS	Seamless	⅜	0.035
-½-S-.035-	316/316L SS	Seamless	½	0.035
-⅜-S-.049-	316/316L SS	Seamless	⅜	0.049
-½-S-.049-	316/316L SS	Seamless	½	0.049
-½-S-.065-	316/316L SS	Seamless	½	0.065
-¼-W-.035-	316/316L SS	Welded	¼	0.035
-⅜-W-.035-	316/316L SS	Welded	⅜	0.035
-½-W-.035-	316/316L SS	Welded	½	0.035
-¼-C-.030-	Copper	Seamless	¼	0.030
-⅜-C-.032-	Copper	Seamless	⅜	0.032
-½-C-.035-	Copper	Seamless	½	0.035
-½-C-.049-	Copper	Seamless	½	0.049
-¼-P-.030-	PFA Teflon	Extruded	¼	0.030
-⅜-P-.030-	PFA Teflon	Extruded	⅜	0.030
-¼-M-.035-	Alloy 400	Seamless	¼	0.035
-⅜-M-.035-	Alloy 400	Seamless	⅜	0.035
-¼-M-.049-	Alloy 400	Seamless	½	0.049
-½-P-.062-	PFA Teflon	Extruded	½	0.062

ELECTRIC HEATING CABLE DATA: NOMINAL POWER OUTPUT AT 10°C (50°F)

Code	Volts	W/ft	W/m	Max continuous exposure* and maintain	Max intermittent exposure**	T-rating	Raychem heating cable***
5B1	120	5	16	65°C (150°F)	85°C (185°F)	T6	5BTV1-CT
8B1	120	8	26	65°C (150°F)	85°C (185°F)	T6	8BTV1-CT
10B1	120	10	33	65°C (150°F)	85°C (185°F)	T6	10BTV1-CT
5B2	240	5	16	65°C (150°F)	85°C (185°F)	T6	5BTV2-CT
8B2	240	8	26	65°C (150°F)	85°C (185°F)	T6	8BTV2-CT
10B2	240	10	33	65°C (150°F)	85°C (185°F)	T6	10BTV2-CT
5XR1	120	5	16	150°C (302°F)	250°C (482°F)	T3A	5XTVR1-CT
10XR1	120	10	33	150°C (302°F)	250°C (482°F)	T3	10XTVR1-CT
15XR1	120	15	49	150°C (302°F)	250°C (482°F)	T2D	15XTVR1-CT
20XR1	120	20	66	150°C (302°F)	250°C (482°F)	T2D	20XTVR1-CT
3XR2	240	3	10	150°C (302°F)	250°C (482°F)	T3A	3XTVR2-CT
5XR2	240	5	16	150°C (302°F)	250°C (482°F)	T3A	5XTVR2-CT
8XR2	240	8	26	150°C (302°F)	250°C (482°F)	T3A	8XTVR2-CT
10XR2	240	10	33	150°C (302°F)	250°C (482°F)	T3	10XTVR2-CT
12XR2	240	12	39	150°C (302°F)	250°C (482°F)	T3	12XTVR2-CT
15XR2	240	15	49	150°C (302°F)	250°C (482°F)	T3	15XTVR2-CT
20XR2	240	20	66	150°C (302°F)	250°C (482°F)	T3 (240V)	20XTVR2-CT
3H1	120	3	10	205°C (400°F)	260°C (500°F)	T3A	3HTV1-CT
5H1	120	5	16	205°C (400°F)	260°C (500°F)	T3	5HTV1-CT
8H1	120	8	26	205°C (400°F)	260°C (500°F)	T3	8HTV1-CT
10H1	120	10	33	205°C (400°F)	260°C (500°F)	T3	10HTV1-CT
12H1	120	12	39	205°C (400°F)	260°C (500°F)	T3	12HTV1-CT
15H1	120	15	49	205°C (400°F)	260°C (500°F)	T3	15HTV1-CT
20H1	120	20	66	205°C (400°F)	260°C (500°F)	T2D	20HTV1-CT
3H2	240	3	10	205°C (400°F)	260°C (500°F)	T3A	3HTV2-CT
5H2	240	5	16	205°C (400°F)	260°C (500°F)	T3	5HTV2-CT
8H2	240	8	26	205°C (400°F)	260°C (500°F)	T3	8HTV2-CT
10H2	240	10	33	205°C (400°F)	260°C (500°F)	T3	10HTV2-CT
12H2	240	12	39	205°C (400°F)	260°C (500°F)	T3	12HTV2-CT
15H2	240	15	49	205°C (400°F)	260°C (500°F)	T3	15HTV2-CT
20H2	240	20	66	205°C (400°F)	260°C (500°F)	T2D	20HTV2-CT
28H2	240	28	92	205°C (400°F)	260°C (500°F)	T2B	28HTV2-CT

** BTV - 1,000 hours, XTVR/HTV - 2000 hours cumulative power on or off
** 1,000 hours cumulative power on or off
*** Heating cable details – For additional information, refer to datasheets H51086 (BTV), H61687 (XTVR) and H86869 (HTV).
For additional design and installation information, refer to Tubing Bundles Selection and Installation Guide (H55626) and the Design Guide for Tubing Bundles (H56886).

DIMENSIONS

	Nominal weight	Nominal dimensions	
	kg/m (lb/ft)	A cm (in)	B cm (in)
Single ¼" process tube	0.45 (0.3)	2.8 (1.1)	2.5 (1.0)
Single ⅜" process tube	0.60 (0.4)	3.3 (1.3)	2.5 (1.0)
Single ½" process tube	0.74 (0.5)	3.6 (1.4)	2.8 (1.1)
Dual ¼" process tubes	0.60 (0.4)	3.3 (1.3)	2.8 (1.1)
Dual ⅜" process tubes	0.89 (0.6)	3.8 (1.5)	3.0 (1.2)
Dual ½" process tubes	1.19 (0.8)	4.3 (1.7)	3.6 (1.4)

Minimum bending radius 20 cm (8 in)
Maximum support centers-ft. Horizontal 2 m (6 ft) Vertical 4 m (15 ft)

MAXIMUM CIRCUIT LENGTH VS. CIRCUIT BREAKER RATING: 120 VAC AND 240 VAC

Raychem Heating cable	Ambient temperature at start-up		120-volt cable										240-volt cable									
	°F	°C	15 A		20 A		30 A		40 A		50 A		15 A		20 A		30 A		40 A		50 A	
			ft	m	ft	m	ft	m	ft	m	ft	m	ft	m	ft	m	ft	m	ft	m	ft	m
5BTV	50	10	230	70	270	82	270	82	270	82	†	†	460	140	540	165	540	165	540	165	†	†
	0	–18	140	43	190	58	270	82	270	82	†	†	285	87	380	116	540	165	540	165	†	†
	–20	–29	125	38	165	50	250	76	270	82	†	†	250	76	330	101	500	152	540	165	†	†
	–40	–40	110	34	145	44	220	67	270	82	†	†	220	67	295	90	440	134	540	165	†	†
8BTV	50	10	150	46	200	61	210	64	210	64	†	†	300	91	400	122	420	128	420	128	†	†
	0	–18	100	30	130	40	200	61	210	64	†	†	200	61	265	81	400	122	420	128	†	†
	–20	–29	85	26	115	35	175	53	210	64	†	†	175	53	235	72	350	107	420	128	†	†
	–40	–40	80	24	105	32	155	47	210	64	†	†	155	47	210	64	315	96	420	128	†	†
10BTV	50	10	120	37	160	49	180	55	180	55	†	†	240	73	315	96	360	110	360	110	†	†
	0	–18	80	24	110	34	160	49	180	55	†	†	160	49	215	66	325	99	360	110	†	†
	–20	–29	70	21	95	29	140	43	180	55	†	†	145	44	190	58	285	87	360	110	†	†
	–40	–40	65	20	85	26	125	38	170	52	†	†	125	38	170	52	255	78	340	104	†	†
3XTVR2-CT	50	10	N/A										480	146	640	195	960	293	979	298	979	298
	0	–18											415	126	553	169	830	253	979	298	979	298
	–20	–29											394	120	526	160	789	240	979	298	979	298
	–40	–40											376	115	501	153	751	229	979	298	979	298
5XTVR1-CT 5XTVR2-CT	50	10	180	55	240	73	360	110	373	114	373	114	360	110	480	146	720	219	744	227	744	227
	0	–18	155	47	207	63	310	94	373	114	373	114	311	95	414	126	621	189	744	227	744	227
	–20	–29	147	45	196	60	294	90	373	114	373	114	295	90	393	120	589	180	744	227	744	227
	–40	–40	139	42	186	57	279	85	372	113	373	114	280	85	374	114	561	171	744	227	744	227
8XTVR2-CT	50	10	N/A										261	80	348	106	522	159	578	176	578	176
	0	–18											227	69	302	92	453	138	578	176	578	176
	–20	–29											216	66	287	87	431	131	575	175	578	176
	–40	–40											205	62	274	84	411	125	548	167	578	176
10XTVR1-CT 10XTVR2-CT	50	10	111		148		221		256		256		221	67	295	90	443	135	509	155	509	155
	0	–18	96		128		192		256		256		192	59	256	78	383	117	509	155	509	155
	–20	–29	91		121		182		242		256		182	55	243	74	364	111	485	148	509	155
	–40	–40	87		115		173		231		256		173	53	231	70	346	105	462	141	509	155
12XTVR2-CT	50	10	N/A										192	59	256	78	384	117	456	139	456	139
	0	–18											166	51	222	68	332	101	443	135	456	139
	–20	–29											158	48	211	64	316	96	421	128	456	139
	–40	–40											150	46	200	61	301	92	401	122	456	139
15XTVR1-CT 15XTVR2-CT	50	10	72	22	96	29	144	44	193	59	200	61	144	44	193	59	289	88	385	117	407	124
	0	–18	63	19	84	26	127	39	169	52	200	61	125	38	167	51	251	77	334	102	407	124
	–20	–29	60	18	81	25	121	37	161	49	195	59	119	36	159	48	238	73	318	97	392	119
	–40	–40	58	18	77	23	115	35	154	47	189	58	114	35	151	46	227	69	302	92	378	115

Raychem Heating cable	Ambient temperature at start-up		120-volt cable										240-volt cable									
	°F	°C	15 A		20 A		30 A		40 A		50 A		15 A		20 A		30 A		40 A		50 A	
			ft	m	ft	m	ft	m	ft	m	ft	m	ft	m	ft	m	ft	m	ft	m	ft	m
20XTVR1-CT 20XTVR2-CT	50	10	58	18	77	23	115	35	154	47	169	52	115	35	154	47	230	70	307	94	339	103
	0	–18	51	16	68	21	102	31	135	41	151	46	100	30	134	41	200	61	267	81	301	92
	–20	–29	49	15	65	20	97	30	130	40	146	45	95	29	127	39	191	58	255	78	289	88
	–40	–40	47	14	62	19	93	28	124	38	141	43	91	28	121	37	182	55	243	74	279	85
3HTV	50	10	241	73	322	98	482	147	485	148	485	148	482	147	643	196	964	294	978	298	978	298
	0	–18	213	65	284	87	426	130	485	148	485	148	415	126	554	169	831	253	978	298	978	298
	–20	–29	203	62	271	83	407	124	485	148	485	148	395	120	527	161	791	241	978	298	978	298
	–40	–40	195	59	260	79	390	119	485	148	485	148	378	115	504	154	756	230	978	298	978	298
5HTV	50	10	180	55	240	73	360	110	372	113	372	113	360	110	480	146	720	219	751	229	751	229
	0	–18	157	48	209	64	314	96	372	113	372	113	314	96	418	127	627	191	751	229	751	229
	–20	–29	151	46	201	61	302	92	372	113	372	113	299	91	398	121	598	182	751	229	751	229
	–40	–40	145	44	194	59	291	89	372	113	372	113	285	87	380	116	571	174	751	229	751	229
8HTV	50	10	131	40	174	53	261	80	289	88	289	88	261	80	348	106	523	159	581	177	581	177
	0	–18	113	34	151	46	227	69	289	88	289	88	229	70	305	93	457	139	581	177	581	177
	–20	–29	108	33	144	44	216	66	288	88	289	88	218	66	291	89	437	133	581	177	581	177
	–40	–40	103	31	138	42	207	63	276	84	289	88	209	64	278	85	418	127	557	170	581	177
10HTV	50	10	111	34	148	45	221	67	254	77	254	77	221	67	296	90	443	135	508	155	508	155
	0	–18	97	30	130	40	195	59	254	77	254	77	196	60	261	80	392	119	508	155	508	155
	–20	–29	93	28	124	38	185	56	247	75	254	77	187	57	249	76	374	114	498	152	508	155
	–40	–40	89	27	118	36	177	54	236	72	254	77	178	54	238	73	357	109	476	145	508	155
12HTV	50	10	96	29	128	39	192	59	226	69	226	69	192	59	256	78	384	117	462	141	462	141
	0	–18	85	26	114	35	171	52	226	69	226	69	167	51	223	68	335	102	446	136	462	141
	–20	–29	81	25	109	33	163	50	217	66	226	69	160	49	213	65	319	97	426	130	462	141
	–40	–40	78	24	104	32	156	48	207	63	226	69	153	47	204	62	305	93	407	124	462	141
15HTV	50	10	75	23	101	31	151	46	198	60	198	60	151	46	202	62	302	92	400	122	400	122
	0	–18	67	20	89	27	133	41	177	54	198	60	132	40	176	54	264	80	352	107	400	122
	–20	–29	63	19	84	26	127	39	169	52	198	60	126	38	168	51	252	77	336	102	397	121
	–40	–40	60	18	80	24	121	37	161	49	190	58	120	37	160	49	240	73	320	98	381	116
20HTV	50	10	60	18	80	24	120	37	160	49	169	52	115	35	154	47	230	70	307	94	330	101
	0	–18	53	16	71	22	106	32	141	43	155	47	101	31	135	41	203	62	271	83	294	90
	–20	–29	51	16	68	21	101	31	135	41	149	45	97	30	129	39	194	59	259	79	283	86
	–40	–40	49	15	65	20	97	30	130	40	144	44	93	28	124	38	186	57	248	76	273	83
28HTV2-CT	50	10	N/A										86	26	114	35	172	52	229	70	231	70
	0	–18											76	23	101	31	152	46	202	62	208	63
	–20	–29											73	22	97	30	145	44	194	59	200	61
	–40	–40											70	21	93	28	139	42	185	56	193	59

† Not permitted, for these design conditions, use a smaller circuit breaker or alternate heating cable.
For a fully optimized design, use TraceCalc Pro design software or contact your Chemelex representative.
Note: Chemelex and the U.S. National Electrical Code require both ground-fault protection of equipment and agrounded metallic covering (usually braid) on all heating cables. All Raychem products meet the metallic covering requirement.

TYPICAL PERFORMANCE

The information presented represents typical performance data for the conditions given and at the rated voltage. Actual results may vary with the conditions of installation.

For critical applications, consult the factory for specific performance data.

For freeze protection use 10°C (50°F) as the minimum allowable process tube temperature. This will provide sufficient factor of safety.

PERFORMANCE DATA

Single Tube: Process Tube Maintain Temperatures (Minimum-Maximum) for Ambient Range of –30°C to 38°C (–20°F to 100°F) at 120/240V

Code			Tube Size																			
			6 mm or ¼"				8 mm				3/8"				10 mm				12 mm or ½"			
120 vac	240 vac	Heater Type	°C		°F		°C		°F		°C		°F		°C		°F		°C		°F	
5B1	5B2	5BTV1-CT / 5BTV2-CT	20	52	68	126	18	52	64	126	17	52	63	126	17	51	63	124	15	51	59	124
8B1	8B2	8BTV1-CT / 8BTV2-CT	32	58	90	136	31	58	88	136	30	57	86	135	29	57	84	135	27	56	81	133
10B1	10B2	10BTV1-CT / 10BTV2-CT	35	60	95	140	34	59	93	138	33	59	91	138	32	58	90	136	30	58	86	136
--	3XR2	3XTVR2-CT	16	85	61	185	14	83	57	181	12	81	54	178	11	81	52	178	8	78	46	172
5XR1	5XR2	5XTVR1-CT / 5XTVR2-CT	36	95	97	203	33	92	91	198	31	91	88	196	30	90	86	194	27	87	81	189
--	8XR2	8XTVR2-CT	59	109	138	228	56	106	133	223	53	104	127	219	52	103	126	217	48	100	118	212
10XR1	10XR2	10TVR1-CT / 10TVR2-CT	71	114	160	237	67	111	153	232	64	109	147	228	63	108	145	226	59	105	138	221
--	12XR2	12TVR2-CT	81	120	178	248	78	117	172	243	75	115	167	239	74	115	165	239	69	111	156	232
15XR1	15XR2	15TVR1-CT / 15TVR2-CT	94	132	201	270	91	130	196	266	88	127	190	261	87	127	189	261	82	123	180	253
20XR1	20XR2	20TVR1-CT / 20TVR2-CT	112	143	234	289	108	140	226	284	105	138	221	280	104	138	219	280	99	134	210	273
3H1	3H2	3HTV1-CT / 3HTV2-CT	13	83	55	181	11	81	52	178	9	79	48	174	8	79	46	174	6	76	43	169
5H1	5H2	5HTV1-CT / 5HTV2-CT	38	99	100	210	35	97	95	207	33	94	91	201	32	94	90	201	28	91	82	196
8H1	8H2	8HTV1-CT / 8HTV2-CT	54	105	129	221	51	103	124	217	48	101	118	214	47	100	117	212	42	97	108	207
10H1	10H2	10HTV1-CT / 10HTV2-CT	75	120	167	248	71	117	160	243	68	115	154	239	67	114	153	237	62	111	144	232
12H1	12H2	12HTV1-CT / 12HTV2-CT	83	124	181	255	80	122	176	252	77	121	171	250	75	118	167	244	70	117	158	243
15H1	15H2	15HTV1-CT / 15HTV2-CT	96	134	205	273	93	131	199	268	90	129	194	264	89	128	192	262	83	125	181	257
20H1	20H2	20HTV1-CT / 20HTV2-CT	117	150	243	302	114	147	237	297	110	145	230	293	109	144	228	291	104	140	219	284
--	28H2	28HTV2-CT	144	170	291	338	141	168	286	334	137	166	279	331	136	165	277	329	131	161	268	322

Contact your Chemelex representative for design assistance for the following applications:

- The desired maintain temperature range or process tube size does not appear in Table 1A or Table 1B.
- The ambient temperature range is not between –30°C to 38°C (–20°F to 100°F)
- Supply voltages of 208 Vac and 277 Vac are used

Dual Tube: Process Tube Maintain Temperatures (Minimum-Maximum) for Ambient Range of –30°C to 38°C (–20°F to 100°F) at 120/240V

Code			Tube Size																			
			6 mm or ¼"				8 mm				3/8"				10 mm				12 mm or ½"			
120 vac	240 vac	Heater Type	°C		°F		°C		°F		°C		°F		°C		°F		°C		°F	
5B1	5B2	5BTV1-CT / 5BTV2-CT	21	53	70	127	19	52	66	126	18	52	64	126	17	51	63	124	15	51	59	124
8B1	8B2	8BTV1-CT / 8BTV2-CT	34	59	93	138	32	58	90	136	31	57	88	135	30	57	86	135	28	56	82	133
10B1	10B2	10BTV1-CT / 10BTV2-CT	37	60	99	140	35	59	95	138	33	59	91	138	33	59	91	138	31	58	88	136
--	3XR2	3XTVR2-CT	19	87	66	189	15	84	59	183	13	82	55	180	12	81	54	178	8	78	46	172
5XR1	5XR2	5XTVR1-CT / 5XTVR2-CT	40	97	104	207	36	94	97	201	33	91	91	196	32	91	90	196	27	87	81	189
--	8XR2	8XTVR2-CT	64	111	147	232	59	108	138	226	55	105	131	221	54	104	129	219	48	100	118	212
10XR1	10XR2	10TVR1-CT / 10TVR2-CT	75	116	167	241	70	113	158	235	66	110	151	230	65	109	149	228	59	105	138	221
--	12XR2	12TVR2-CT	86	123	187	253	81	119	178	246	77	116	171	241	75	115	167	239	69	111	156	232
15XR1	15XR2	15TVR1-CT / 15TVR2-CT	99	135	210	275	94	131	201	268	90	129	194	264	89	128	192	262	82	123	180	253
20XR1	20XR2	20TVR1-CT / 20TVR2-CT	116	145	241	293	111	142	232	288	107	139	225	282	106	138	223	280	100	134	212	273
3H1	3H2	3HTV1-CT / 3HTV2-CT	16	85	61	185	13	82	55	180	10	80	50	176	9	79	48	174	6	76	43	169
5H1	5H2	5HTV1-CT / 5HTV2-CT	42	102	108	216	38	98	100	208	34	95	93	203	33	95	91	203	28	90	82	194
8H1	8H2	8HTV1-CT / 8HTV2-CT	58	108	136	226	54	105	129	221	50	102	122	216	48	101	118	214	43	96	109	205
10H1	10H2	10HTV1-CT / 10HTV2-CT	79	123	174	253	74	119	165	246	70	116	158	241	68	115	154	239	62	110	144	230
12H1	12H2	12HTV1-CT / 12HTV2-CT	89	129	192	264	84	127	183	261	81	124	178	255	78	121	172	250	73	115	163	239
15H1	15H2	15HTV1-CT / 15HTV2-CT	101	137	214	279	96	133	205	271	92	130	198	266	90	129	194	264	84	125	183	257
20H1	20H2	20HTV1-CT / 20HTV2-CT	122	153	252	307	117	149	243	300	113	146	235	295	111	145	232	293	104	140	219	284
--	28H2	28HTV2-CT	149	173	300	343	144	170	291	338	140	167	284	333	138	166	280	331	132	161	270	322

TUBING BUNDLE ORDERING DETAILS

RTB comes in a variety of configurations. The following chart outlines the elements that constitute a bundle configuration and the corresponding catalog number. Other configurations are available on request.

RTB* - X - XXX - X - XXX - XXX-X**

Electric Traced heating options
5B1 = 5BTV1-CT
8B1 = 8BTV1-CT
10B1 = 10BTV1-CT
5B2 = 5BTV2-CT
8B2 = 8BTV2-CT
10B2 = 10BTV2-CT
5XR1 = 5XTVR1-CT
10XR1 = 10XTVR1-CT
15XR1 = 15XTVR1-CT
20XR1 = 20XTVR1-CT
3XR2 = 3XTVR2-CT
5XR2 = 5XTVR2-CT
8XR2 = 8XTVR2-CT
10XR2 = 10XTVR2-CT
12XR2 = 12XTVR2-CT
15XR2 = 15XTVR2-CT
20XR2 = 20XTVR2-CT
3H1 = 3HTV1-CT
5H1 = 5HTV1-CT
8H1 = 8HTV1-CT
10H1 = 10HTV1-CT
12H1 = 12HTV1-CT
15H1 = 15HTV1-CT
20H1 = 20HTV1-CT
3H2 = 3HTV2-CT
5H2 = 5HTV2-CT
8H2 = 8HTV2-CT
10H2 = 10HTV2-CT
12H2 = 12HTV2-CT
15H2 = 15HTV2-CT
20H2 = 20HTV2-CT
28H2 = 28HTV2-CT

Steam Traced heating options
LTS = Low-temperature steam
HTS = High-temperature steam

Preinsulated Only
PIO = Preinsulate only

Process tube wall thickness

030 = 0.030 in	10 = 1.0 mm
032 = 0.032 in	15 = 1.5 mm
035 = 0.035 in	
049 = 0.049 in	
062 = 0.062 in	
065 = 0.065 in	

Process tube material

S = Seamless 316 SS	M = Alloy 400	P = PFA
W = Welded 316 SS	C = Copper	

Process tubing size

1/8 = 1/8 in	6 = 6 mm
1/4 = 1/4 in	8 = 8 mm
3/8 = 3/8 in	10 = 10 mm
1/2 = 1/2 in	12 = 12 mm
3/4 = 3/4 in	

Number of process tubes
1 = Single-tube
2 = Dual-tube

* Standard jacket is TPU, for optional Arctic PVC jacket add suffix "C" example RTBC
** Requires the selection of tubing size = XX, tubing material = X, and wall thickness = XXX for both LTS and HTS

Examples:

Electric Traced	RTB-2-1½-S-049-10XR1
Steam Traced	RTB-2-1½-S-049-LTS-3/8-C-035
Preinsulated Only	RTBC-1-1½-S-049-PIO

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