

+GF+ Urecon/Fabco Pre-Insulated Plastic Pipe



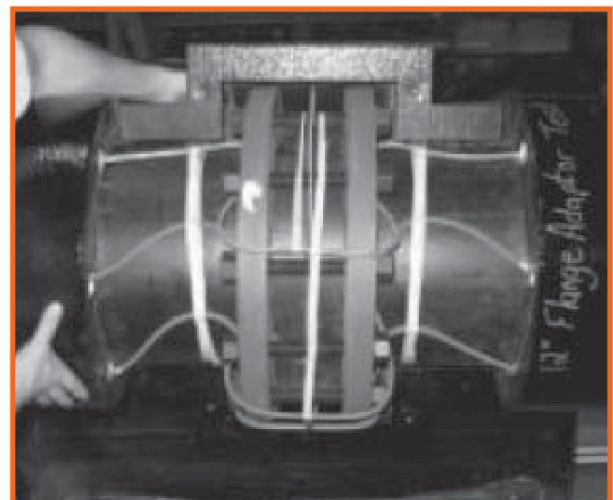
From the Arctic Circle to Antarctica, Urecon is the name synonymous with superior quality and guaranteed void free pre-insulated piping systems. Our systems are manufactured to meet the most rigid quality standards required for projects exposed to the extreme climates of the far north. These identical stringent standards are applied to the piping systems produced for the more benign latitudes of the Caribbean and those in between; thus insuring a level of quality unsurpassed in the industry.

Products and Services:

- System design assistance
- Urecon's U.I.P.® insulation systems to 149 °C (300 F)
- Wide range of outer jackets, including counter wound polyethylene, extruded PE casing, Spiwrap spiral wound galvanized steel or aluminum, extruded white PVC casing, FRP casing and banded aluminum, galvanized or stainless steel
- Custom specialty jackets available
- Insulation kits custom made to suit all fittings for each of our systems
- Heat Tracing Systems, including Urecon's constant watt Thermocable, Series cable, Self-regulating cable, Mineral insulated cable, Electronic and mechanical thermostats
- High temperature composite insulation systems
- Portable foam kits
- Mec-Seal and Slipjoint specialty insulation joint kits
- EN253 District heating systems from Logstor
- Flexible systems from Logstor, PEX-Flex, Cu-Flex and Steel-Flex

Applications:

- Municipal freeze protection including Water and sewer mains, Service connections and Bridge crossings
- District heating and cooling
- Steam and condensate return
- Outdoor wood furnace and solar hydronic heating
- Mine intake, tailings and reclaim
- Snow melt systems
- Cryogenic systems
- Chemical feed and temperature maintenance
- Industrial process



Insulated PVC Pipe

Performance Specs

TEMPERATURE GAIN COMPARISON* FOR CHILLED WATER

NOMINAL PIPE DIA. (I.P.S.)	FLOW RATE	PIPE AMBIENT TEMPERATURE @ 40.6°C (105°F)				PIPE AMBIENT TEMPERATURE @ 21.1°C (70°F)													
		FINAL TEMPERATURE**		HEAT GAIN		FINAL TEMPERATURE**		HEAT GAIN											
		NO INSULATION	37MM (1.5IN) U.I.P®	NO INSULATION	37MM (1.5IN) U.I.P®	NO INSULATION	37MM (1.5IN) U.I.P®	NO INSULATION	37MM (1.5IN) U.I.P®										
MM	IN	L/SEC	US GPM	°C	°F	°C	°F	WATTS /M	BTU /HR /FT	WATTS /M	BTU /HR /FT	°C	°F	°C	°F	WATTS /M	BTU /HR /FT	WATTS /M	BTU /HR /FT
25	1	3.9	15	17.8	63.8	5.3	41.4	54.4	56.6	5.2	5.4	10.4	50.6	4.6	40.1	25.4	26.4	2.4	2.5
50	2	6.5	25	13.0	55.0	4.9	40.7	59.3	61.7	6.0	6.3	8.2	46.6	4.4	39.8	27.7	28.8	2.8	2.9
75	3	18	70	7.5	45.3	4.4	39.8	64.6	67.2	7.8	8.1	5.6	41.9	4.2	40.0	30.2	31.4	3.6	3.8
100	4	30.8	120	6.3	43.1	4.3	39.5	71.1	73.9	9.4	9.7	5.1	40.9	4.1	39.3	33.2	34.5	4.4	4.6
150	6	69.5	270	5.2	41.1	4.2	39.3	81.6	84.8	12.5	13.0	4.5	40.0	4.1	39.2	38.1	39.6	5.8	6.1
200	8	115	450	4.8	40.4	4.1	39.2	89.2	92.8	15.3	15.9	4.6	39.6	4.1	39.1	41.7	43.4	7.2	7.5

TIME TO FREEZE AND HEAT LOSS FOR U.I.P® INSULATED PIPE

NOMINAL PIPE DIA.	PIPE AMBIENT -18°C (0°F)				PIPE AMBIENT -34°C (30°F)				
	TIME TO FREEZE (HR)***		HEAT LOSS WITH 50MM U.I.P®		TIME TO FREEZE (HR)***		HEAT LOSS WITH 50MM U.I.P®		
	NO INSULATION	50MM (2 IN) U.I.P®	WATTS/M	WATTS/FT	NO INSULATION	50MM (2 IN) U.I.P®	WATTS/M	WATTS/FT	
MM	IN								
19	3/4	1	15	1.6	0.5	1	8	2.9	0.9
25	1	1	21	1.8	0.5	1	11	3.3	1.0
30	1-1/4	1	38	2.2	0.7	1	20	4.1	1.2
40	1-1/2	1	45	2.4	0.7	1	22	4.4	1.3
50	2	1	62	2.7	0.8	1	33	5.0	1.5
75	3	2	105	3.5	1.1	1	56	6.5	2.0
100	4	4	145	4.2	1.3	2	77	7.7	2.3
150	6	9	235	5.5	1.7	5	125	10.2	3.1
200	8	15	324	6.7	2.0	8	172	12.4	3.8
250	10	23	422	8.0	2.4	12	224	14.7	4.5
300	12	32	516	9.1	2.7	17	273	16.8	5.1
350	14	39	596	9.8	3.0	21	305	18.0	5.5
400	16	51	674	10.9	3.3	27	357	20.0	6.1



Notes:

- *Calculations are based on a 4°C (39°F) inlet, 1000m (3281ft) long pipe run.
- **At end of pipe run
- ***Assumes initial water temperature of 1.11°C (34°F)
- No safety factor included
- To convert watts to Btu/hr, multiply by 3.414

INSULATION MATERIALS COMPARISON

