


PROJECT INFORMATION	Job Name/Location: _____
	Engineer: _____ Date Submitted: _____
	Contractor: _____ Submitted By: _____
	Manufacturer's Rep.: _____ Approved By: _____

TECHNICAL DATA	Material:	PP-RCT (beta crystalline random copolymer polypropylene)	
	Standard Grade Hydrostatic Ratings for SDR 17 (50 year):	60 psi @ 180°F 90 psi @ 140°F 168 psi @ 68°F	
	Linear Expansion Rate:	0.23 in/10°F/100 ft	

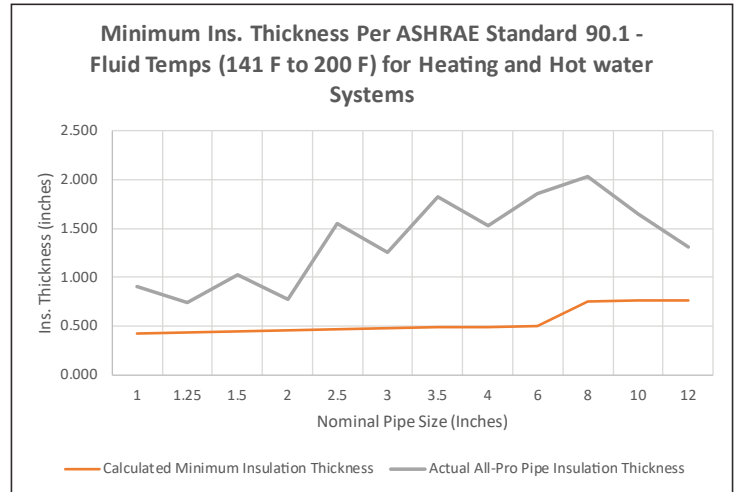
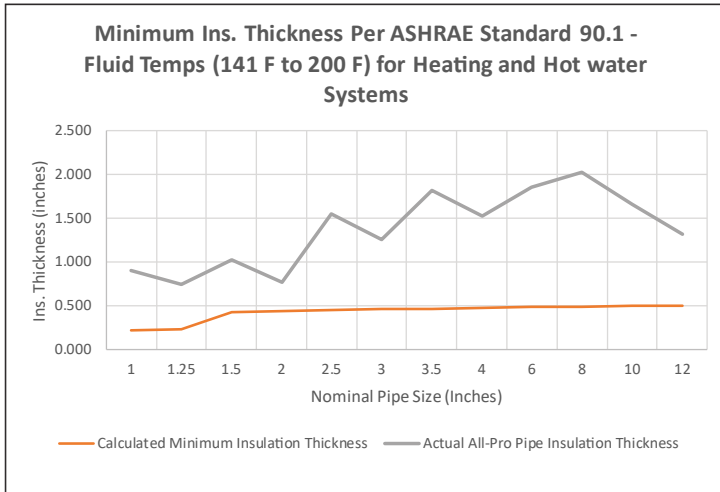
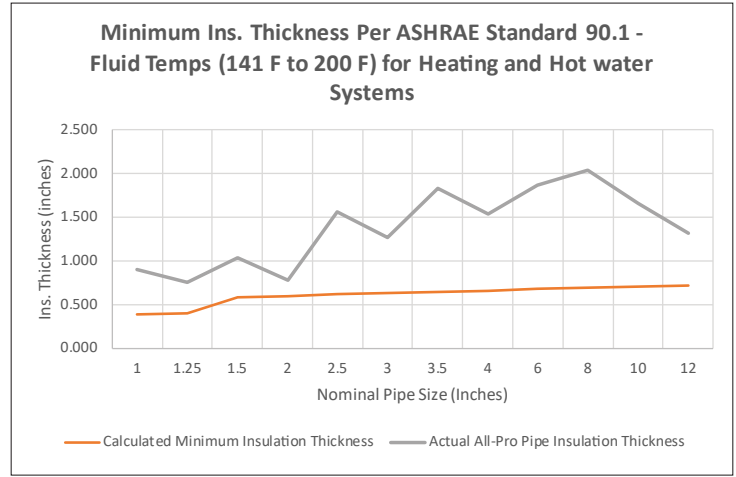
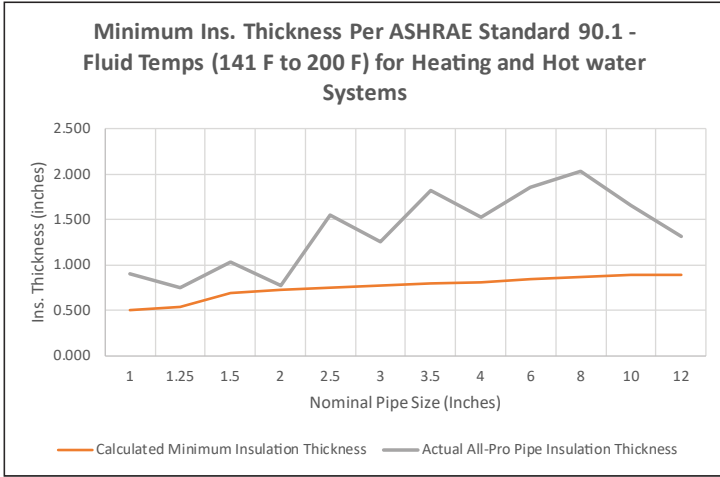
PRODUCT INFORMATION AND APPLICATION USE

Niron AllPro is a preinsulated pipe that is manufactured with Niron Clima PP-RCT pipe as the carrier pipe and is housed within an IPS Sch. 40 jacket pipe that is extruded with a 30 year U.V. resistant white PP-RCT external layer. The pipe is superinsulated with highly efficient closed cell polyurethane foam (PUF) insulation which exceeds the required thickness for the ASHRAE 90.1 Energy Code in all sizes. The Niron Clima carrier pipe is extruded with a PP-RCT middle layer that features our "Powercore" fiberglass technology. The Powercore layer stiffens the pipe for improved above ground support while significantly restricting expansion and contraction during temperature swings. The inner layer of the carrier pipe is "Beta Nucleated" PP-RCT engineered plastic offering superior performance and extremely long life. This product is offered with a 30 year product warranty for the entire system. The carrier and jacket pipe ends for hybrid pipe are parallel one end for BFX2 joining and staggered on the opposite end for EF or BF welding.

	DESCRIPTION	PART NUMBER	I.D.	JACKET	WEIGHT
<input type="checkbox"/>	8" Niron Clima AllPro BFX2 Hybrid Pipe, SDR 17	27TNIRCLHY2001217	5.72	12.75	12.83
<input type="checkbox"/>	10" Niron Clima AllPro BFX2 Hybrid Pipe, SDR 17	27TNIRCLHY2501417	7.15	14.00	16.37
<input type="checkbox"/>	12" Niron Clima AllPro BFX2 Hybrid Pipe, SDR 17	27TNIRCLHY3151617	9.00	16.00	22.81

LISTINGS	APPLICABLE CODES	APPLICABLE STANDARDS	CONTACT INFO
uNSF-14; ICC-ES; IAPMO	ICC; IPC; IMC; UPC; UMC; NSPC; NPC of Canada; NBC of Canada; ASHRAE 90.1; IECC Energy Code	ANSI/NSF 14; ASTM F2389; CSA B137.11	Nupi Americas, Inc. 314 Commerce Parkway Early Branch, SC 29916 phone: +1 803 398 3579 fax: +1 803 398 3639 info@nupiamericas.com

Minimum Insulation Thickness per ASHRAE Standard 90.1



R VALUES FOR ALL-PRO PIPING SDR 17 COMPARED TO ENERGY CODE

				R	R	R	R	R
Size Inner Pipe	Size Inner Pipe	Size Outer Jacket	Insulation Thickness PUF	R Value Niron Clima AllPro SDR 17 Preinsulated Pipe	Minimum Required R Value per ASHRAE 90.1 for Less Than 40°F	Minimum Required R Value per ASHRAE 90.1 40°F to 60°F	Minimum Required R Value per ASHRAE 90.1 105°F to 140°F	Minimum Required R Value per ASHRAE 90.1 141°F to 200°F
in	mm	in	in					
1	32	3.5	0.90	9.9	5.9	2.4	5.5	8.8
1¼	40	4.5	1.25	14.0	5.6	2.3	5.2	8.3
1½	50	4.5	1.03	10.5	5.4	5.2	8.3	11.5
2	63	4.5	0.77	7.2	5.1	4.9	7.8	10.9
2	63	5.563	1.28	13.1	5.1	4.9	7.8	10.9
2½	75	6.625	1.58	16.1	5.0	4.8	7.5	10.3
3	90	6.625	1.26	11.9	4.8	4.6	7.2	9.9
3.5	110	8.625	1.83	17.8	4.7	4.5	7.0	9.6
4	125	8.625	1.53	14.2	4.6	4.4	6.8	9.3
6	160	10.75	1.86	17.1	6.9	4.2	6.4	8.7
8	200	12.75	2.03	18.3	6.7	4.1	6.2	8.3
10	250	14	1.65	14.2	6.5	4.0	6.0	8.0
12	315	16	1.31	11.1	6.4	4.0	5.9	7.9
14	355	18	1.47	12.4	6.3	4.0	5.9	7.8
16	400	20	1.52	12.8	6.3	3.9	5.8	7.7
18	450	24.8	2.79	23.9	6.2	3.9	5.8	7.6
20	500	24.8	1.81	15.2	6.2	3.9	5.7	7.5
22	560	27.95	2.10	17.7	6.1	3.9	5.7	7.5
24	630	31.5	2.39	20.1	6.1	3.9	5.7	7.4