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|----------------------------|---|
| 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 7.3 (50 year): | 150 psi @ 180°F 224 psi @ 140°F 423 psi @ 68°F | |
| | Linear Expansion Rate: | 0.23 in/10°F/100 ft | |

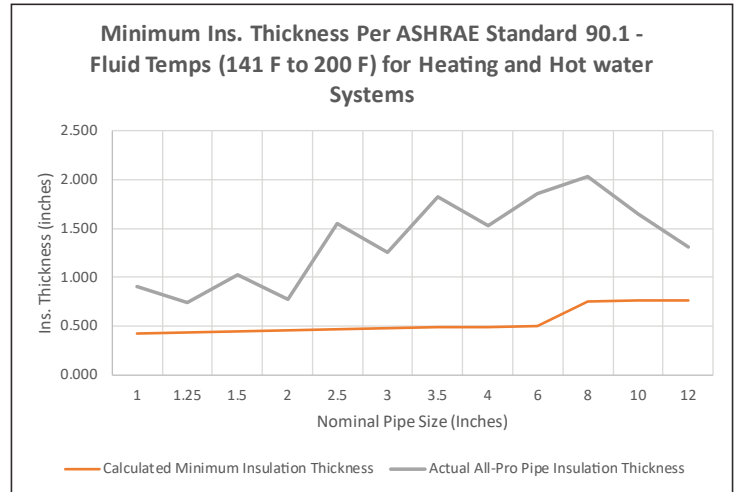
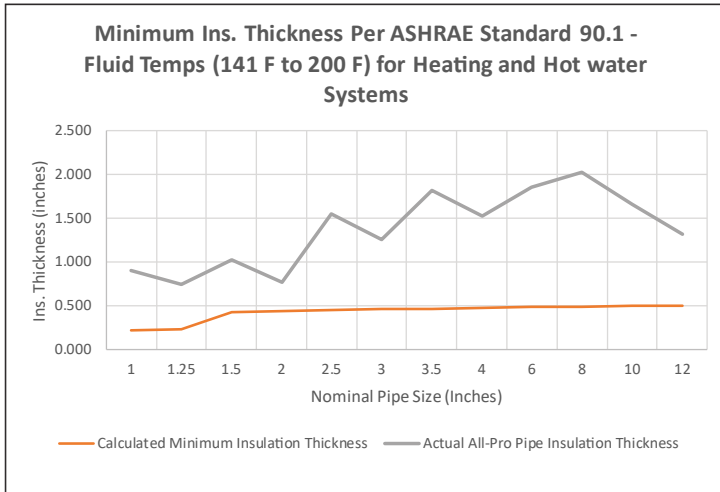
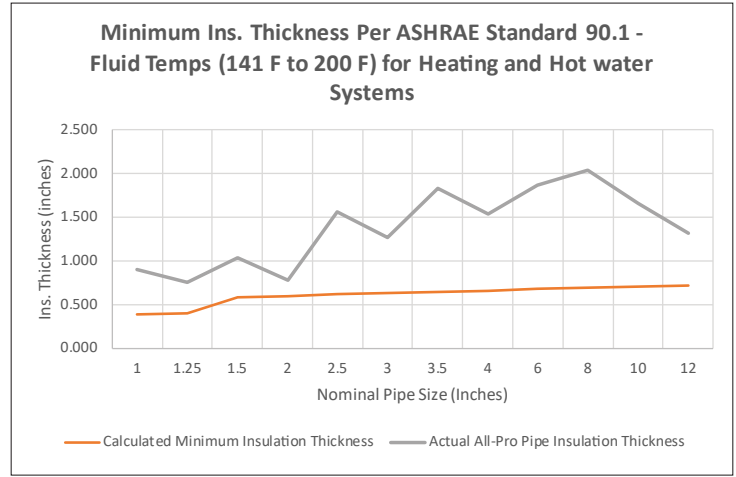
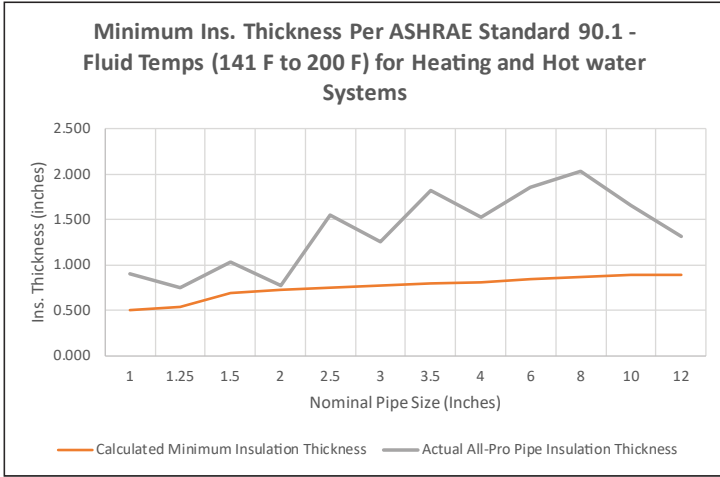
PRODUCT INFORMATION AND APPLICATION USE

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"/> | 2" Niron Clima AllPro BFX2 Hybrid Pipe, SDR 7.3 | 27TNIRCLHY63473 | 1.80 | 4.50 | 2.27 |
| <input type="checkbox"/> | 2 ½" Niron Clima AllPro BFX2 Hybrid Pipe, SDR 7.3 | 27TNIRCLHY75673 | 2.14 | 6.625 | 4.04 |
| <input type="checkbox"/> | 3" Niron Clima AllPro BFX2 Hybrid Pipe, SDR 7.3 | 27TNIRCLHY90673 | 2.57 | 6.625 | 4.33 |
| <input type="checkbox"/> | 3 ½" Niron Clima AllPro BFX2 Hybrid Pipe, SDR 7.3 | 27TNIRCLHY110873 | 3.15 | 8.625 | 6.73 |
| <input type="checkbox"/> | 4" Niron Clima AllPro BFX2 Hybrid Pipe, SDR 7.3 | 27TNIRCLHY125873 | 3.57 | 8.625 | 7.20 |
| <input type="checkbox"/> | 6" Niron Clima AllPro BFX2 Hybrid Pipe, SDR 7.3 | 27TNIRCLHY1601073 | 4.57 | 10.75 | 10.88 |
| <input type="checkbox"/> | 8" Niron Clima AllPro BFX2 Hybrid Pipe, SDR 7.3 | 27TNIRCLHY2001273 | 5.72 | 12.75 | 15.48 |
| <input type="checkbox"/> | 10" Niron Clima AllPro BFX2 Hybrid Pipe, SDR 7.3 | 27TNIRCLHY2501473 | 7.15 | 14.00 | 19.96 |
| <input type="checkbox"/> | 12" Niron Clima AllPro BFX2 Hybrid Pipe, SDR 7.3 | 27TNIRCLHY3151673 | 9.00 | 16.00 | 28.37 |

| 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 7.3 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 7.3 Preinsulated Pipe | Estimated R Value per ASHRAE 90.1 for Less Than 40°F | Estimated R Value per ASHRAE 90.1 40°F to 60°F | Estimated R Value per ASHRAE 90.1 105°F to 140°F | Estimated R Value per ASHRAE 90.1 141°F to 200°F |
| in | mm | in | in | | | | | |
| 1 | 32 | 3.5 | 0.90 | 10.0 | 5.9 | 2.4 | 5.5 | 8.8 |
| 1¼ | 40 | 4.5 | 1.25 | 14.1 | 5.6 | 2.3 | 5.2 | 8.3 |
| 1½ | 50 | 4.5 | 1.03 | 10.6 | 5.4 | 5.2 | 8.3 | 11.5 |
| 2 | 63 | 4.5 | 0.77 | 7.3 | 5.1 | 4.9 | 7.8 | 10.9 |
| 2 | 63 | 5.563 | 1.28 | 13.2 | 5.1 | 4.9 | 7.8 | 10.9 |
| 2½ | 75 | 6.625 | 1.58 | 16.3 | 5.0 | 4.8 | 7.5 | 10.3 |
| 3 | 90 | 6.625 | 1.26 | 12.1 | 4.8 | 4.6 | 7.2 | 9.9 |
| 3½ | 110 | 8.625 | 1.83 | 18.0 | 4.7 | 4.5 | 7.0 | 9.6 |
| 4 | 125 | 8.625 | 1.53 | 14.4 | 4.6 | 4.4 | 6.8 | 9.3 |
| 6 | 160 | 10.75 | 1.86 | 17.4 | 6.9 | 4.2 | 6.4 | 8.7 |
| 8 | 200 | 12.75 | 2.03 | 18.7 | 6.7 | 4.1 | 6.2 | 8.3 |
| 10 | 250 | 14 | 1.65 | 14.8 | 6.5 | 4.0 | 6.0 | 8.0 |
| 12 | 315 | 16 | 1.31 | 11.8 | 6.4 | 4.0 | 5.9 | 7.9 |