



Rovanco

Piping Systems

Pre-Insulated Above Ground
PP-RCT Piping System featuring:



aquatechnik®

Rovanco® Above Ground Piping System with Aquatechnik®

The most efficient, constructible and sustainable piping system for most plant systems, hot/cold fluids, potable and non-potable fluids above ground and tunnel applications.

Quality Manufactured Piping

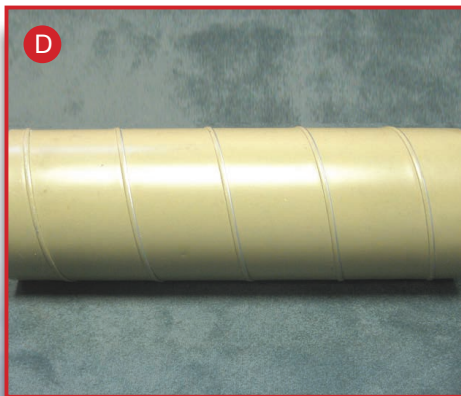
- Comes with a 30-year warranty.
- Spiral lock-seam metal jacketing. **A**
- Polyurethane foam insulation. **B**
- fusio-technik® by aquatechnik® PP-RCT125 WOR, industrial strength carrier pipe. **C**
- Supplied in economical 19' or 38' lengths.
- Watertight design assures years of trouble-free service & dependable performance.
- No CUI concerns.

Efficient & Economical

- Most energy efficient piping (minimal heat loss) in the industry.
- Piping arrives completely assembled ready for installation.
- Pre-Insulated saves labor associated with field insulating.
- Fittings easily field-insulated with supplied materials.
- Can be supported with maximum support spans & minimum guides.

Options

- Metal jacket available in aluminum, stainless or galvanized steel.
- Tube(s) for electrical heat trace function, electrical wire or glycol heat trace.
- Painted outer jacket so piping blends with installed surroundings. **D**



fusio-technik® PP-RCT125 WOR Carrier Pipe

The only approved industrial strength pipe of its kind made for long-term durability in high temperature/pressure applications.

Benefits at a Glance

- Produced using WOR Technology (White Oxidation Resistance).
- Leader in high flow rate and low pressure drop.
- Increased resistance to oxidising substances.
- Resistant to lime, cement, plaster and electro-chemical reaction.
- Higher performances with reduced permeability to oxygen.
- Completely compatible with warm and cold fluids as well as drinking water.

In the North American market, water disinfection treatments are particularly aggressive. In order to increase the performance of PP-RCT pipes in resistance against the thermo-oxidative attack, WOR technology was developed.

In collaboration with world leaders in the production of additives for polymeric systems, Aquatechnik® Research Division, designed a particular package of additives and polymeric material to form the inner layer of the PP-RCT pipe. **E** This increases the pipe's resistance to oxidising substances used in sanitation water such as free chlorine, chloramines, chlorine dioxide etc. Up to 40 times more when compared to a normal PP-R material.

Outdoor piping installations for sanitary systems, heating/cooling, industrial, chemical and food grade fluid transport.

- Above Ground Outdoor Applications
- Heating Systems
- Chilled Water Systems
- Marine Applications
- Chemical Applications (*Consult Factory*)
- Portable Water
- Food Grade



Pre-Insulated Above Ground Foam Piping System Specifications

Carrier Pipe:

Pipe shall be manufactured by Aquatechnik® Polypropylene Random Co-Polymer, PP-RCT 125WOR resin meeting the short-term properties and long-term strength requirements of ASTM F 2389-17 and contain "White Oxidative Resistance", (WOR). The pipe shall contain no rework or recycled materials and manufactured only from "virgin" resins. All pipes shall be made in a three-layer extrusion process. All pipes shall comply with the rated pressure requirements of ASTM F 2389-17. All pipe shall be certified as complying with NSF 14, NSF 61, NSF 51, ASTM F 2389-17 and CSA B137.11. The PP-RCT carrier pipe is rated for service temperatures from 5°F to 203°F.

Carrier Pipe Fittings:

Injection molded fittings shall be provided on all fittings through 12" diameter unless otherwise approved as a "custom fitting" and manufactured from a high-quality Polypropylene Random Co-Polymer, PP-R Super 80 SDR5 resin meeting the short-term properties and long-term strength requirements of ASTM F 2389-17A. The fittings shall contain no rework or recycled materials and manufactured only from "virgin" resins. All fittings shall be certified by as complying with NSF 14, NSF 61, NSF 51 and ASTM F 2389 or CSA B137.11.

Fittings larger than 12" diameter shall be fabricated by aquatechnik North America using the same piping material furnished for the piping application and complying with NSF 14, NSF 61, NSF 51 and ASTM F 2389-17 or CSA B137.11. Fitting material specifications and ordering information are available at www.aquatechnikna.com

Insulation:

Insulation shall be a polyurethane foam injected with one shot into the annular space between carrier pipe and jacket. Insulation shall be rigid, minimum 90% closed cell polyurethane with a minimum 2.0 lbs per foot³ density, compressive strength of 30 psi @ 75°F and a thermal conductivity K factor no higher than 0.180 @ 75°F per ASTM C-518. Polyurethane foam's maximum temperature is higher than the 203°F PP-RCT maximum temperature, so operating temperature of the system should not exceed the PP-RCT maximum temperature.

Insulated Fittings and Joints:

All straight joints and fitting joints shall be insulated using material supplied by system manufacturer.

Outer Jacket Fitting & Joint Covers:

Provide metal covers designed to fit snugly on the jacketing to provide a watertight closure. All covers shall be banded in place with 3/8" wide aluminum or stainless steel straps and will be the same thickness as the jacketing.

Approved Vendors:

The Rovanco Pre-Insulated Above Ground Foam Piping System is engineered with fusio-technik carrier pipe. All other manufacturers wishing to bid on this project must provide the engineer with certified test data from either PP-RCT piping manufacturer or an independent testing agency that the product is equivalent. The manufacturer shall obtain written approval from the engineer 10 days prior to bid date.

*Contact our home office or local representative for insulation sizing.

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