


ECOTECH

100% GERMAN ENGINEERED 

ECOTECH ADVANCE PIPING SYSTEM | CATALOGUE



HOT AND COLD PPR & PPR-CT PIPING

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ECOTECH PIPING ADVANTAGES



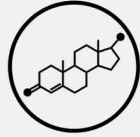
GERMAN-ENGINEERED



GERMAN RAW MATERIALS



ANTI-BACTERIAL



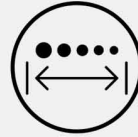
SUPERIOR FORMULATION



HEAVY-DUTY FITTINGS



HOT & COLD APPLICATIONS



COMPLETE RANGE



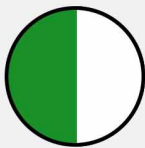
CHLORINE-RESISTANT



EUROPEAN DESIGN. Ecotech (Mega Green) Pipes adapts German-based aesthetics and function ensuring reliability. Its heavy-duty mold and award-winning design allows greater flow rates than typical fittings in the market.



DOVETAIL GROOVED STRUCTURE. Ecotech Fittings uses Ecotech Proprietary Dovetail Grooved Structure Technology which is more advanced than typical PPR fittings. It is more heavy-duty and has higher leak-proof performance.



MULTILAYER TECHNOLOGY. Ecotech pipes are built with 2 layer of PPR Material to ensure greater durability. The inner layer contains anti-bacterial properties making water safe and clean.

ENHANCED PERFORMANCE. It can withstand temperature ranges from -20°C to 95°C with an operating life of at least 50 years at 20°C . Its pressure tolerance is also higher with upper ranges of up to 1,500 PSI brought about by superior materials and formulation.

ECOTECH PIPING ADVANTAGES



Borealis Resins

VS



Recycled Resins



KraussMaffei Machines


VS



Non-branded Machines

Higher durability. Higher temperature and pressure tolerance. The pipes are built with the highest grade of resin available in Europe from Borealis and engineered with state-of-the-art German KraussMaffei Machines thus ensuring superior quality and durability compared to typical PPR pipes in the market.

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ECOTECH PP-RCT PIPING

Ecotech Plus PP-RCT (Polypropylene Random Crystallinity Temperature) is the next generation of PPR piping systems. PPR-CT is a polypropylene random copolymer that, through the addition of special nucleation agents, forms crystallites in a hexagonal beta structure. Combining the new structure and formulation of Ecotech Plus pipes results in a considerably higher strength at higher temperatures.

HOW IT WORKS

Hexagonal Structure of the Polymer

The hexagonal crystalline structure of the PP-RCT pipe enables considerable mechanical resistance even at high temperatures

PP-R

Alfa - monocline crystalline structure

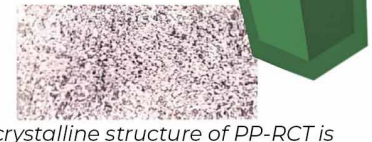
Monoklin



PP-RCT

Beta-hexagonal crystalline structure

Hexagonal

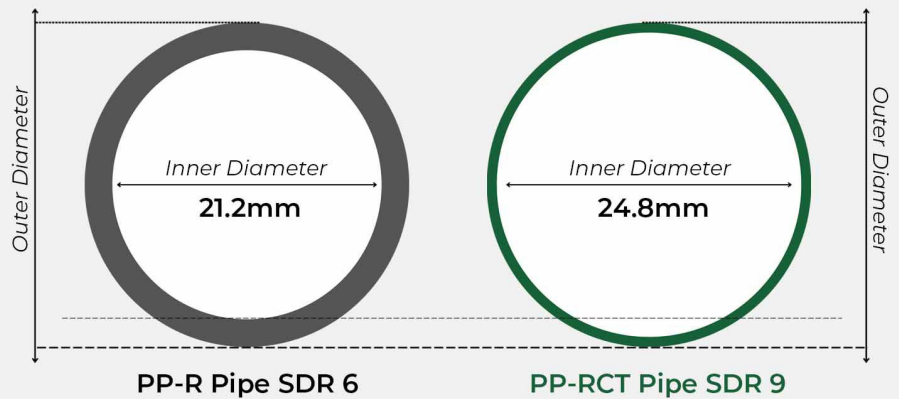


The crystalline structure of PP-RCT is much finer than that of traditional PP-R.

35% increase in volume flow rate vs. standard PPR pipes

30% cost savings with lower pipe size requirements

SAME outside diameter, **LARGER** inner diameter.



ECOTECH SIZE STANDARDS COMPLIANCE

Based on DIN 8077: 2008-09

Nominal Inside Diameter Required
15.00mm (1/2")
20.0mm (3/4")
25.0mm (1")
32.0mm (1 1/4")
40.0mm (1 1/2")
50.0mm (2")

PP-R SDR 6		
O.D.	Thk	I.D.
20.0	3.4	13.2
25.0	4.2	16.6
32.0	5.4	21.2
40.0	6.7	26.6
50.0	8.3	33.4
63.0	10.5	42.0

PP-RCT SDR 9		
O.D.	Thk	I.D.
20.0	2.3	15.4
25.0	2.8	19.4
32.0	3.6	24.8
40.0	4.5	31.0
50.0	5.6	38.8
63.0	7.1	48.8

ECOTECH

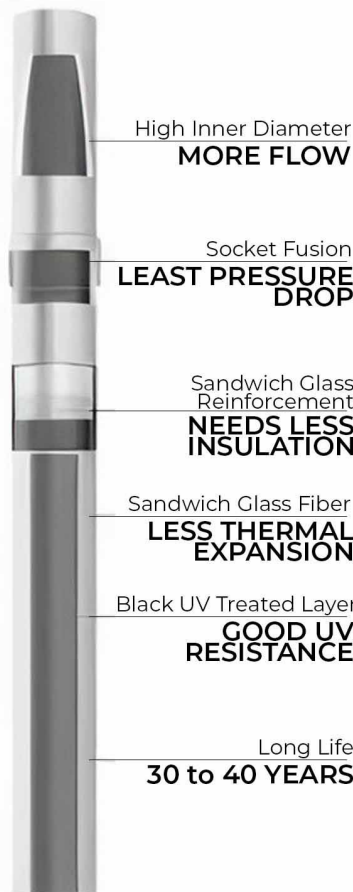
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ECOTECH PPR-CT ADVANTAGES

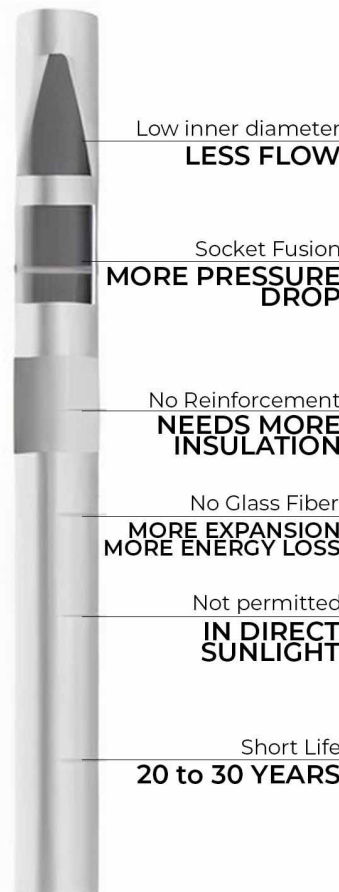
PP-RCT

PP-R

WALL THICKNESS



High Inner Diameter
MORE FLOW



Low inner diameter
LESS FLOW

PRESSURE DROP

Socket Fusion
LEAST PRESSURE DROP

Socket Fusion
MORE PRESSURE DROP

INSULATION

Sandwich Glass Reinforcement
NEEDS LESS INSULATION

No Reinforcement
NEEDS MORE INSULATION

THERMAL EXPANSION

Sandwich Glass Fiber
LESS THERMAL EXPANSION

No Glass Fiber
**MORE EXPANSION
MORE ENERGY LOSS**

UV RESISTANCE

Black UV Treated Layer
GOOD UV RESISTANCE

Not permitted
IN DIRECT SUNLIGHT

LIFE IN HIGH TEMPERATURE

Long Life
30 to 40 YEARS

Short Life
20 to 30 YEARS

INTERNATIONALLY CERTIFIED



ECOTECH PPR-CT SPECIFICATION HIGHLIGHTS

The base material is a polypropylene (PPR-CT) with its typical quality characteristics (EN ISO 15874). All materials are subject to natural ageing. Even PPR-CT is subject to this law of nature. Temperature and stress dependent "creep curves" indicate the long service life to be expected.

Thanks to special technical know-how, ECOTECH is particularly impact-resistant at temperatures down to -5°C.

Density	0,91 g/cm ³
Melting Point	~ 140°C
Tensile Strength	40 N/mm ²
Elongation at Break	800%
E Modulus (20°C)	800 N/mm ²
Spec. Heat	2 kJ/kg K
Thermal Conductivity	0.24 W/mK
Spec. Thermal Expansion	0.14 mm/mK

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ECOTECH PPR RANGES

Ecotech Plus PPR-CT Pipe



Sizes

- 20mm x 2.3 x 4 mtr
- 25mm x 2.8 x 4 mtr
- 32mm x 3.6 x 4 mtr
- 40mm x 4.5 x 4 mtr
- 50mm x 5.6 x 4 mtr
- 63mm x 7.1 x 4 mtr
- 75mm x 8.4 x 4 mtr
- 90mm x 10.1 x 4 mtr
- 110mm x 12.3 x 4 mtr
- 160mm x 17.8 x 4 mtr

Multi Layer PN 20



Sizes

- 20mm x 3.4 x 4 mtr
- 25mm x 4.2 x 4 mtr
- 32mm x 5.4 x 4 mtr
- 40mm x 6.7 x 4 mtr
- 50mm x 8.3 x 4 mtr
- 63mm x 10.5 x 4 mtr
- 75mm x 12.5 x 4 mtr
- 90mm x 15.0 x 4 mtr
- 110mm x 18.3 x 4 mtr
- 160mm x 26.6 x 4 mtr

Mono Layer PN 20



Sizes

- 20mm x 3.4 x 4 mtr
- 25mm x 4.2 x 4 mtr
- 32mm x 5.4 x 4 mtr
- 40mm x 6.7 x 4 mtr
- 50mm x 8.3 x 4 mtr
- 63mm x 10.5 x 4 mtr
- 75mm x 12.5 x 4 mtr
- 90mm x 15.0 x 4 mtr
- 110mm x 18.3 x 4 mtr
- 160mm x 26.6 x 4 mtr

Coupling



Sizes

- 20mm
- 25mm
- 32mm
- 40mm
- 50mm
- 63mm
- 75mm
- 90mm
- 110mm
- 160mm

Coupling Reducer



Sizes

- 25/20
- 32/20 - 25
- 40/20 - 32
- 50/20 - 40
- 63/20 - 50
- 75/32 - 63
- 90/40 - 75
- 110/50 - 90
- 160/110

Elbow 90



Sizes

- 20mm
- 25mm
- 32mm
- 40mm
- 50mm
- 63mm
- 75mm
- 90mm
- 110mm
- 160mm

Elbow 45



Sizes

- 20mm
- 25mm
- 32mm
- 40mm
- 50mm
- 63mm
- 75mm
- 90mm
- 160mm

Elbow Reducer



Sizes

- 25/20
- 32/20
- 32/25

Tee Equal



Sizes

- 20mm
- 25mm
- 32mm
- 40mm
- 50mm
- 63mm
- 75mm
- 90mm
- 110mm
- 160mm

Tee Unequal



Sizes

- 25/20
- 32/20 - 25
- 40/20 - 32
- 50/20 - 40
- 63/20 - 50
- 75/32 - 63
- 90/40 - 75
- 110/50 - 90
- 160/110

Coupling Adaptor Female



Sizes

- 20 x 1/2"
- 25 x 1/2"
- 25 x 3/4"
- 32 x 1"
- 40 x 1 1/4"
- 50 x 1 1/2"
- 63 x 2"
- 75 x 2 1/2"
- 90 x 3"
- 110 x 4"

Coupling Adaptor Male



Sizes

- 20x 1/2"
- 25x 1/2"
- 25x 3/4"
- 32x1"
- 40x1 1/4"
- 50x1 1/2"
- 63x2"
- 75x2 1/2"
- 90x3"
- 110x4"

Elbow Female Adaptor



Sizes

- 20 x 1/2"
- 25 x 1/2"
- 25 x 3/4"
- 32 x 1"
- 40 x 1 1/4"
- 50 x 1 1/2"
- 63 x 2"

Elbow Male Adaptor



Sizes

- 20 x 1/2"
- 25 x 1/2"
- 25 x 3/4"
- 32 x 1"
- 40 x 1 1/4"
- 50 x 1 1/2"
- 63 x 2"

End Cap



Sizes

- 20mm
- 25mm
- 32mm
- 40mm
- 50mm
- 63mm
- 75mm
- 90mm
- 110mm
- 160mm

Threaded Cap



Sizes

- 20mm
- 25mm
- 32mm

Flange Set



Sizes

- 20mm
- 25mm
- 32mm
- 40mm
- 50mm
- 63mm
- 75mm
- 90mm
- 110mm
- 160mm

PP Union



Sizes

- 20mm
- 25mm
- 32mm
- 40mm
- 50mm
- 63mm

Tee Female Adaptor



Sizes

- 20 x 1/2"
- 25 x 1/2"
- 25 x 3/4"
- 32 x 1
- 40 x 1 1/2"
- 63 x 2

Tee Male Adaptor



Sizes

- 20 x 1/2"
- 25 x 1/2"
- 25 x 3/4"
- 32 x 1
- 40 x 1 1/2"
- 63 x 2

Union Patente Female



Sizes

- 20 x 1/2"
- 25 x 3/4"
- 32 x 1
- 40 x 1 1/4"
- 50 x 1 1/2"
- 63 x 2

Union Patente Male



Sizes

- 20 x 1/2"
- 25 x 3/4"
- 32 x 1
- 40 x 1 1/4"
- 50 x 1 1/2"
- 63 x 2

Check Valve



Sizes

- 20mm
- 25mm
- 32mm

Hose Bibb



Sizes

- 20mm

Ball Valve



Sizes

- 20mm
- 25mm
- 32mm
- 40mm
- 50mm
- 63mm

Double Union Ball Valve



Sizes

- 20mm
- 25mm
- 32mm

Heavy-duty Stop Valve



Sizes

- 20mm
- 25mm
- 32mm
- 40mm
- 50mm
- 63mm
- 75mm
- 90mm
- 110mm

High-end Stop Valve



Sizes

- 20mm
- 25mm
- 32mm


Teflon Tape



Sizes

- 20mm
- 25mm
- 32mm

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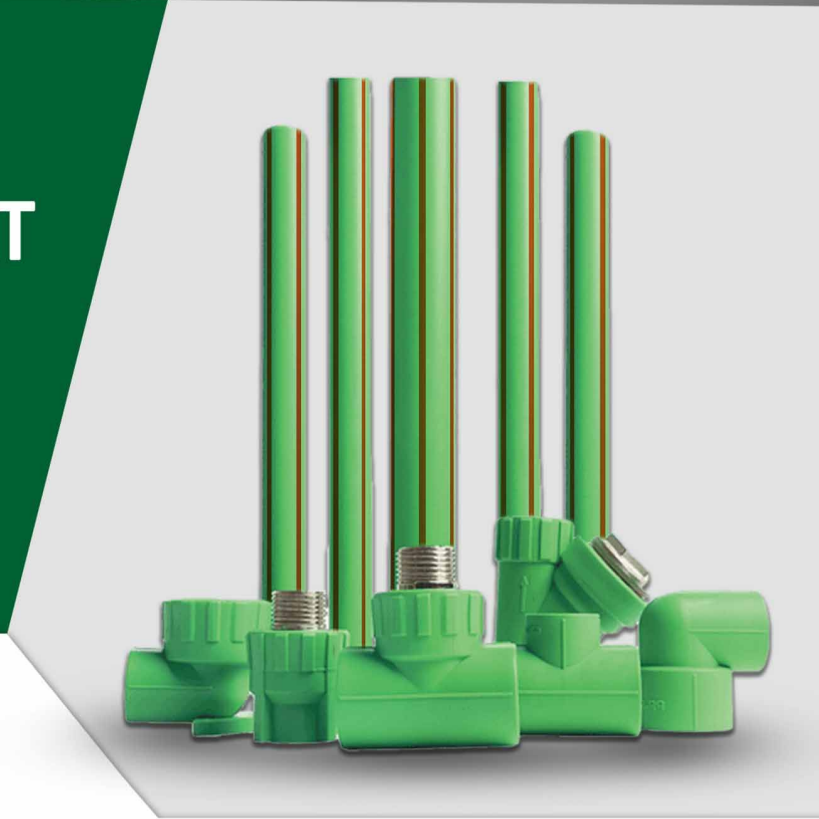
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