



Environmental protection



Quality raw material



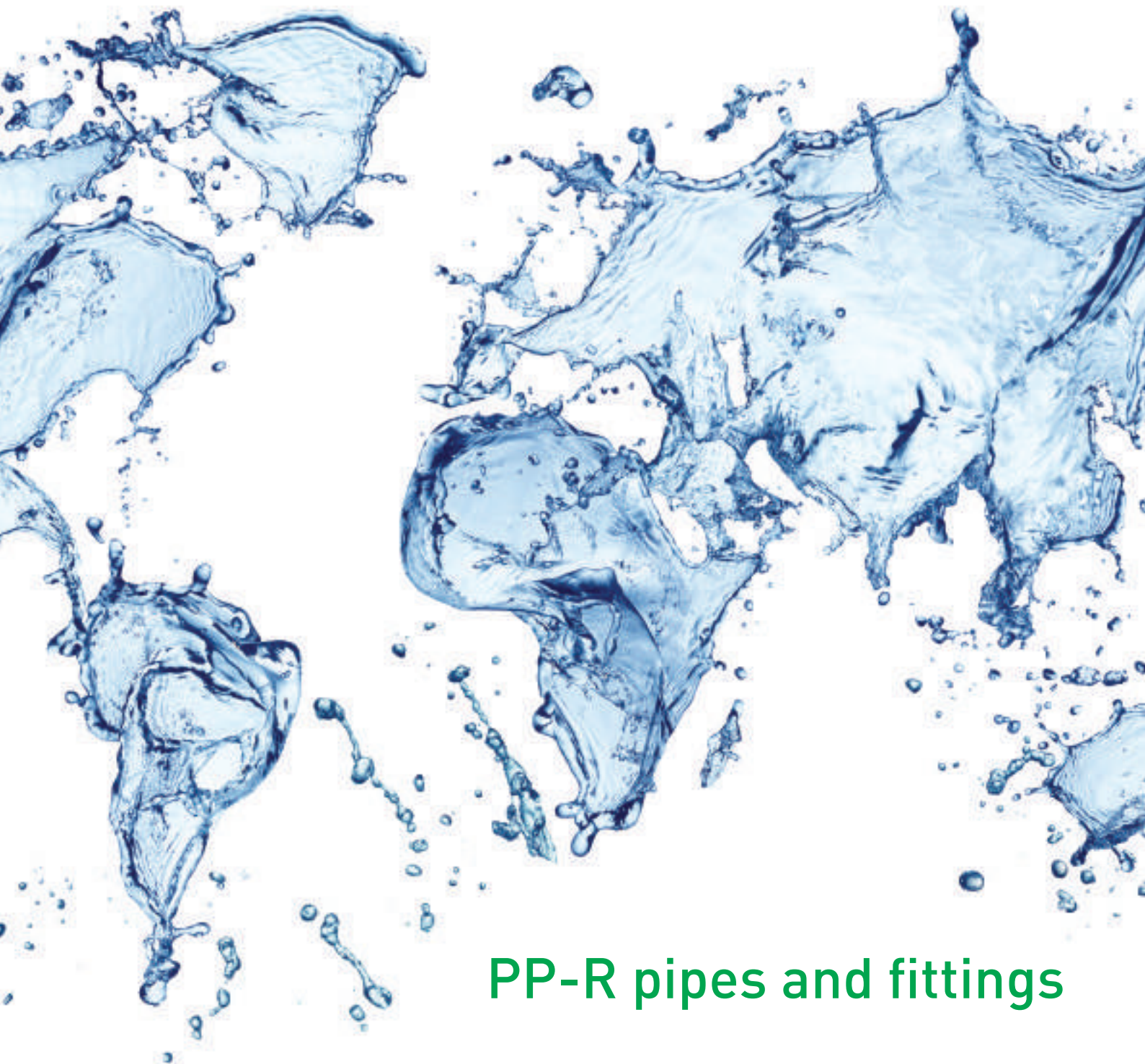
Prevent mildew



Warrenty

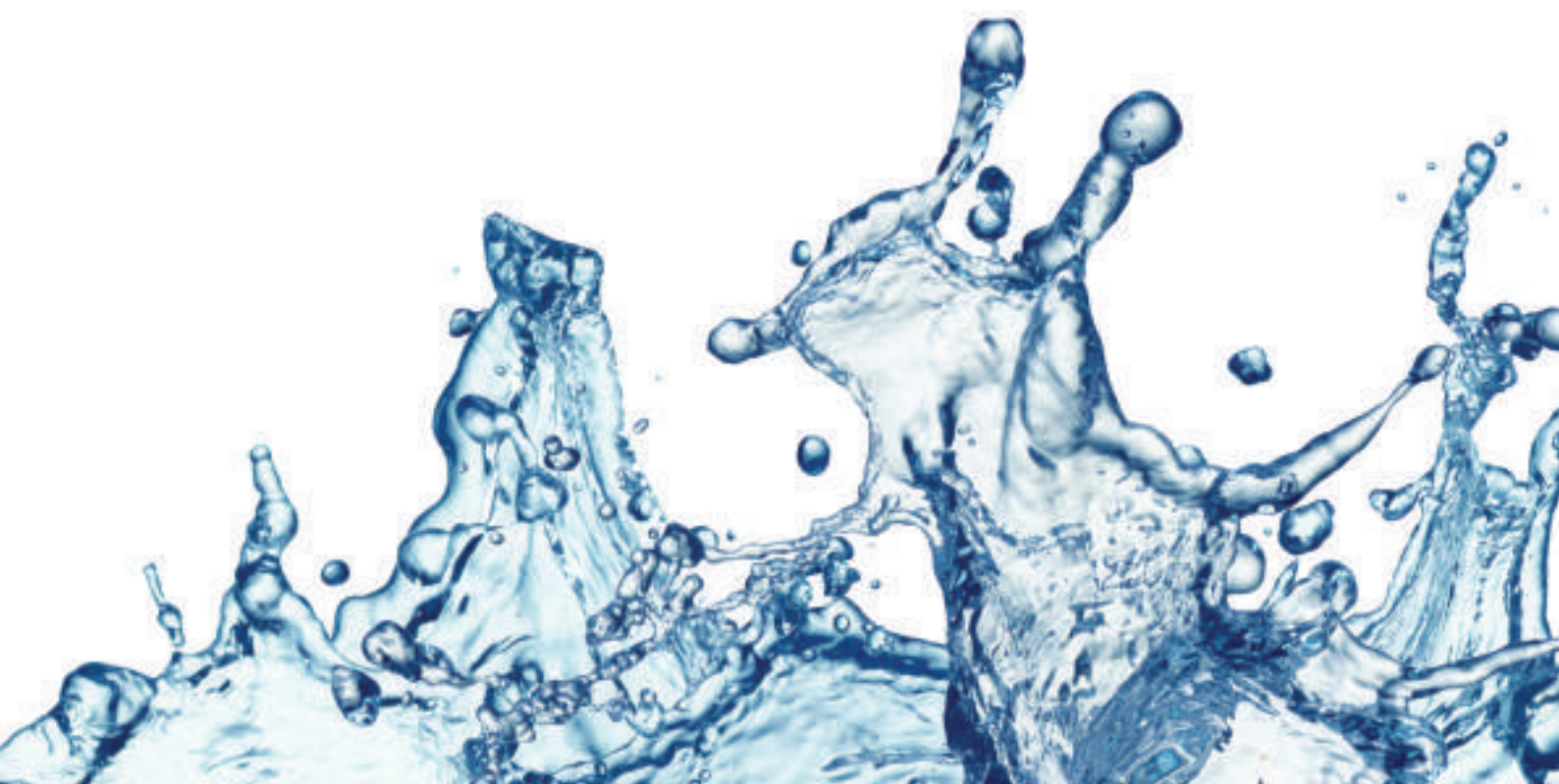
# TCTermo

*Made in Italy*



## PP-R pipes and fittings

TCT	L	ENG	01
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# TCtermo

PP-R pipes and fittings



series

**CLASSIC**

**CLASSICUV**

**POWER**

**POWERPLUS**

**POWERUV**

**FIBERREINFORCED**

## Mission

TC TERMO products are made from polypropylene PP-R, the material designed for the needs of internal water installations and central heating. TC TERMO has a complete system of pipes, stabi pipes, fiberglass pipes and fittings with diameters ranging from  $\varnothing$  20 to  $\varnothing$  160 mm as well as complementary products.

The highest quality of TC TERMO products is certified by an external institute of research.

TC TERMO has all indispensable technical approvals, Hygienic Certificate and we are under constant control of external engineering institutes including all which ensures a consistent high quality of our products.

Service life of TC TERMO products is up to 50 years. The wide range of available diameters (20-110mm) allows to construct hydro-sanitary system in big and small buildings, water-main system on boats, Residential apartments, condominiums, public housing, Hospital, schools, laboratories, Hotel and resorts, Office buildings and commercial shopping centres.

Our systems show an excellent performance conveying drinking water as well as other kind of fluids. TC TERMO product is the perfect mix between a cared craft production and a vision of global market.

## A philosophy of *craft* production

TC TERMO conceive, design and produces each product in-house, a mean of safety that gives our company a great value.

Always attentive to technological innovation , the goods are under control at every stage : from the raw material and his first process, from the design and production of a single product to packaging made by hand. The ability of skilled technicians, and their knowledge of the entire production cycle distinguishes our company for quality and reliability.

This production structure allows us to satisfy any single request. We can offer series of customized items according to specific needs , having a high production flexibility.

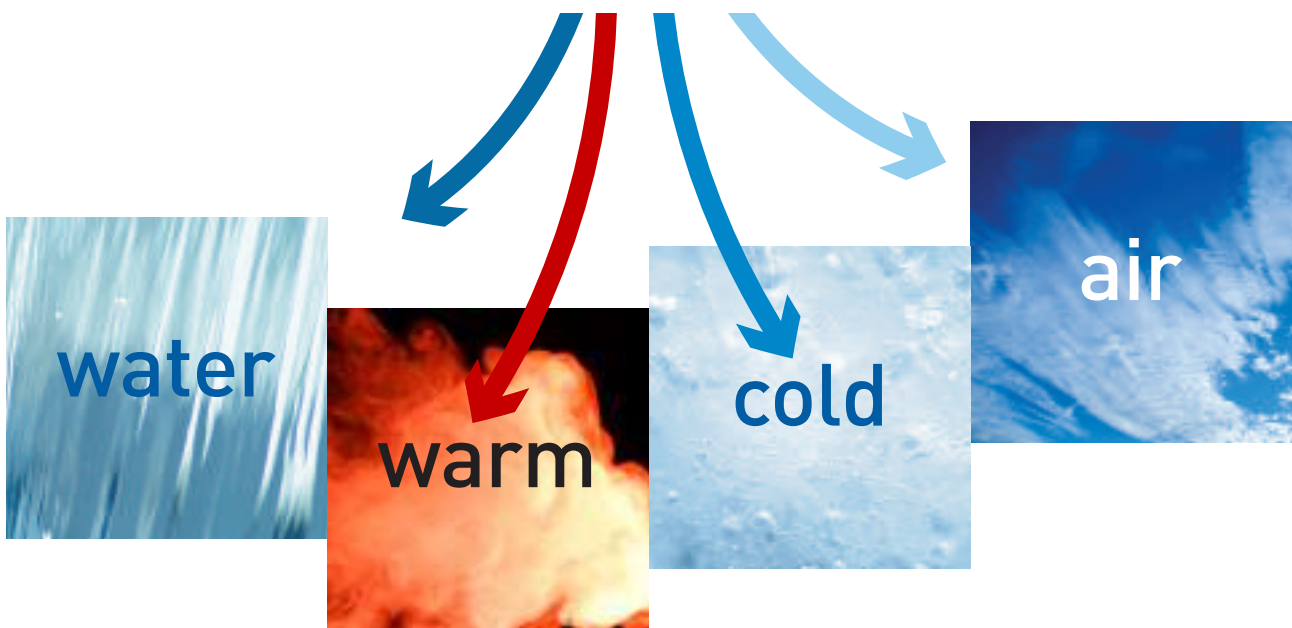
While maintaining the philosophy of craftsmanship, we are attentive to the use of the most advanced skills and technologies in the plastic sector, without neglecting productivity, according to the demands of the domestic and international markets.



## Market adaptability

# TCtermo

PP-R pipes and fittings



## Applications



Potable water application



Chilled water technology



Chemical transport



Heating system construction



Agriculture



Rainwater application



Connection heating and cooling



Swimming-pool technology



District heating pipeline system

## Quality Certification

The sector of the water-sanitary system has been suffering the world general business trend as well as the manufacturing sector. Behind those negative scenes, made of pessimism and uncertainty, TC TERMO has managed to maintain and also strengthen its presence on the export markets. This great achievement has been reached thank to the skills and engagements of all the people involved in the company development who caught the message of the management in terms of customer service and production quality.

Moreover the company policy towards Quality has lead to a stronger image among customers, suppliers and competitors, besides the image growth during these difficult moments.

According to the company positive results, the direction wants to stress again the importance of the customer and his needs.

Therefore the Managerial activity will be based once again on the following goals:

- Strong focus on customers needs;
- Improvement of the capacity of production cycles;
- Maintenance of Company certification according to the norm UNI EN ISO 9001:2015.

Managers have the duty to give the right instruments in order to pursue the objectives given.

The system complies with all international industry regulations.

## Quality of TC TERMO System

TC TERMO system complies with all European standard in term of drinkability and atoxicity both of raw material and final product. The company carries out accurate quality tests according to the control plan of UNI EN ISO 15874:2015.

### MEETING THE STANDARDS

TC TERMO system is in compliance with all European standards for PPR pipes and fittings.

Standards	Characteristics
UNI EN ISO 15874-2	Plastics piping systems for hot and cold water installations PP – Pipes
UNI EN ISO 15874-3	Plastics piping systems for hot and cold water installations PP – Fittings
UNI EN ISO 15874-5	Plastics piping systems for hot and cold water PP Fitness for purpose of the system
DIN 8077	PP pipes - Dimensions
DIN 8078	Quality Requirements for PP pipes
DVS 2207	Welding of thermoplastic material through heating
DVS 2208	Machines and devices to weld thermoplastic materials

### PHYSICAL CHARACTERISTICS

Polypropylene Random used by TC TERMO system is a crystal polymer with high molecular weight.

Characteristics	Unit	Method	Value
Density to 23°	g/cm	ISO 1183 - DIN 53479	0,90
MFR 190° C/5 Kg	g/10 min	ISO 1133 - DIN 53735	0,55
MFR 230° C/2,16 Kg	g/10 min	ISO 1133 - DIN 53735	0,30
MFR 230° C/5 Kg	g/10 min	ISO 1133 - DIN 53735	1,28

### MECHANICAL CHARACTERISTICS

Characteristics	Unit	Method	Value
Tensile modulus (1 mm/min)	MPa	ISO 527	900
Tensile Stress at Yield (50 mm/min)	MPa	ISO 527-2	23
Tensile Strain at Yield (50 mm/min)	%	ISO 527-2	13
Flexural modulus (2 mm/min)	MPa	ISO 178	800
Notch impact strength 23° C	KJ/m2	ISO 179	20
Notch impact strength 0° C	KJ/m2	ISO 179	3,5
Notch impact strength -20° C	KJ/m2	ISO 179	2,0

# series CLASSIC

## SDR 6

Applications

Material: PPR  
Type: S 2,5  
Color: green  
Supply: bars of 3-4 meters  
Standards: UNI EN ISO 15874-2  
DIN 8077  
DIN 8078



POTABLE WATER APPLICATION



HEATING SYSTEM CONSTRUCTION



CONNECTION HEATING AND COOLING



CHILLED WATER TECHNOLOGY



AGRICULTURE



SWIMMING-POOL TECHNOLOGY



CHEMICAL TRANSPORT



RAINWATER APPLICATION

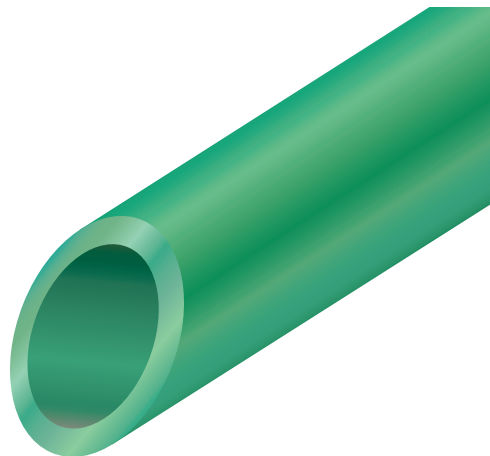


DISTRICT HEATING PIPELINE SYSTEM

Cod	Ø (mm)	S	pack/m	price
TUB02020	20	3,4	102	
TUB02020	25	4,2	75	
TUB02032	32	5,4	45	

bar lenght 4 meter

TUB02025	20	3,4	100	
TUB02025	25	4,2	100	
TUB02032	32	5,4	60	
TUB02040	40	6,7	40	
TUB02050	50	8,3	20	
TUB02063	63	10,5	20	
TUB02075	75	12,5	12	
TUB02090	90	15,0	8	



## SDR 7,4

Applications

Material: PPR  
Type: S 3,2  
Color: green  
Supply: bars of 4 meters  
Standards: UNI EN ISO 15874-2  
DIN 8077  
DIN 8078



POTABLE WATER APPLICATION



HEATING SYSTEM CONSTRUCTION



CONNECTION HEATING AND COOLING



CHILLED WATER TECHNOLOGY



AGRICULTURE



SWIMMING-POOL TECHNOLOGY



CHEMICAL TRANSPORT

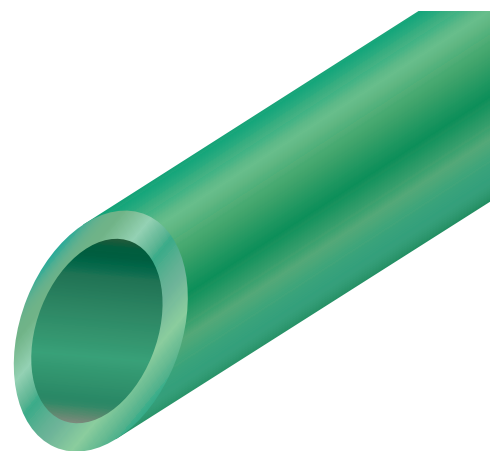


RAINWATER APPLICATION



DISTRICT HEATING PIPELINE SYSTEM

Cod	Ø (mm)	S	pack/m	price
TUB01620	20	2,8	100	
TUB01625	25	3,5	100	
TUB01632	32	4,4	60	
TUB01640	40	5,5	40	
TUB01650	50	6,9	20	
TUB01663	63	8,6	20	
TUB01675	75	10,3	12	
TUB01690	90	12,3	8	
TUB016110	110	15,1	8	
TUB016125	125	17,1	4	
TUB016160	160	21,9	4	





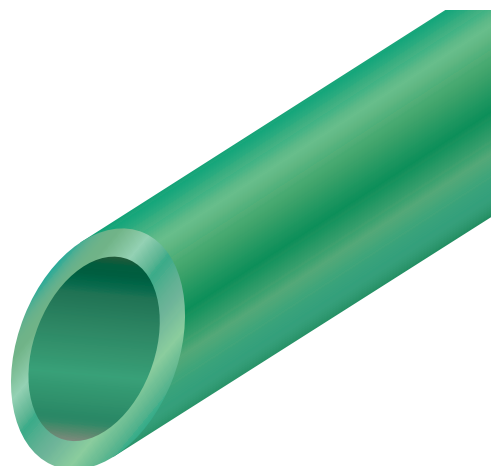
## SDR 11

### Applications

Material: **PPR**  
 Type: **S 5**  
 Color: **green**  
 Supply: **bars of 4 meters**  
 Standards: **UNI EN ISO 15874-2**  
**DIN 8077**  
**DIN 8078**



Cod	Ø (mm)	S	pack/m	price
TUB01032	32	2,9	60	
TUB01040	40	3,7	40	
TUB01050	50	4,6	20	
TUB01063	63	5,8	20	
TUB01075	75	6,8	12	
TUB01090	90	8,2	8	
TUB010110	110	10,0	8	
TUB010125	125	11,4	4	
TUB010160	160	14,6	4	



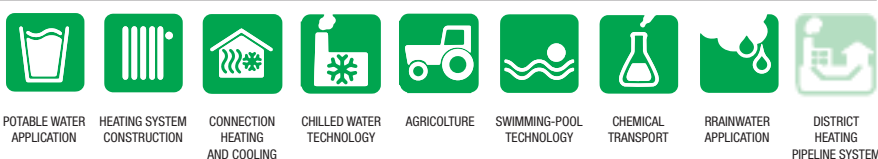
### series

## CLASSICUV

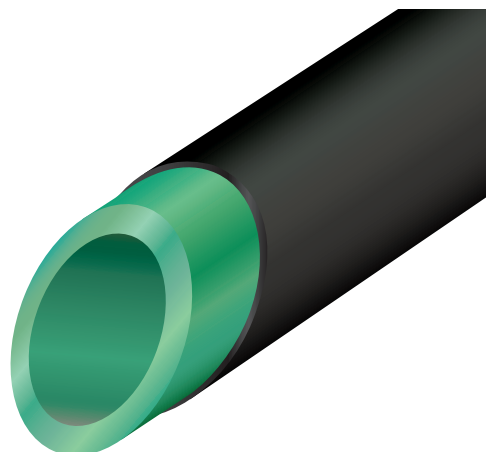
## SDR 6

### Applications

Material: **PPR-PPR-UV**  
 Type: **S 2,5**  
 Color: **green**  
 Supply: **bars of 4 meters**  
 Standards: **UNI EN ISO 15874-2**  
**DIN 8077**  
**DIN 8078**



Cod	Ø (mm)	S	pack/m	price
TUBN2020	20	3,4	100	
TUBN2025	25	4,2	100	
TUBN2032	32	5,4	60	
TUBN2040	40	6,7	40	
TUBN2050	50	8,3	20	
TUBN2063	63	10,5	20	
TUBN2075	75	12,5	12	
TUBN2090	90	15,0	8	



## series POWERUV

SDR 7,4

Applications

Material: PP-RCT-PP-RCTUV  
PE UV

Type: S 3,2

Color: green

Supply: bars of 4 meters

Standards: UNI EN ISO 15874-2  
DIN 8077  
DIN 8078



POTABLE WATER  
APPLICATION



HEATING SYSTEM  
CONSTRUCTION



CONNECTION  
HEATING  
AND COOLING



CHILLED WATER  
TECHNOLOGY



AGRICULTURE



SWIMMING-POOL  
TECHNOLOGY



CHEMICAL  
TRANSPORT



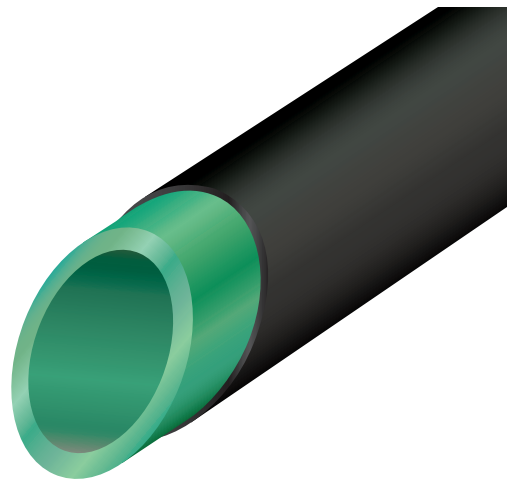
RAINWATER  
APPLICATION



DISTRICT  
HEATING  
PIPELINE SYSTEM

Cod	Ø (mm)	S	pack/m	price
TRCN2025	25	3,5	100	
TRCN2032	32	4,4	60	
TRCN2040	40	5,5	40	
TRCN2050	50	6,9	20	
TRCN2063	63	8,6	20	
TRCN2075	75	10,3	12	
TRCN2090	90	12,3	8	

\* On request for qty



## series FIBERREINFORCED

SDR 7,4

Applications

Material: PP-RCT  
FIBER  
PP-RCT

Type: S 3,2

Color: green

Supply: bars of 4 meters

Standards: UNI EN ISO 15874-2  
DIN 8077  
DIN 8078



POTABLE WATER  
APPLICATION



HEATING SYSTEM  
CONSTRUCTION



CONNECTION  
HEATING  
AND COOLING



CHILLED WATER  
TECHNOLOGY



AGRICULTURE



SWIMMING-POOL  
TECHNOLOGY



CHEMICAL  
TRANSPORT

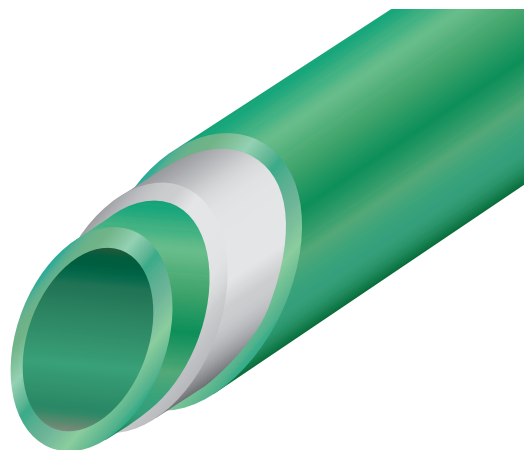


RAINWATER  
APPLICATION



DISTRICT  
HEATING  
PIPELINE SYSTEM

Cod	Ø (mm)	S	pack/m	price
TFG2020	20	2,8	100	
TFG2025	25	3,5	100	
TFG2032	32	4,4	60	
TFG2040	40	5,5	40	
TFG2050	50	6,9	20	
TFG2063	63	8,6	20	
TFG2075	75	10,3	12	
TFG2090	90	12,3	8	
TFG20110	110	15,1	8	





# Fittings

## Applications



POTABLE WATER APPLICATION



HEATING SYSTEM CONSTRUCTION



CONNECTION HEATING AND COOLING



CHILLED WATER TECHNOLOGY



AGRICULTURE



SWIMMING-POOL TECHNOLOGY



CHEMICAL TRANSPORT



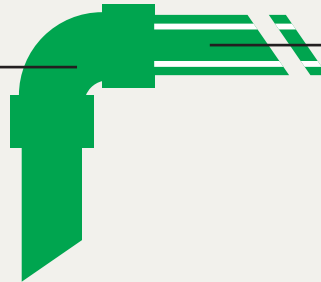
RRAINWATER APPLICATION



DISTRICT HEATING PIPELINE SYSTEM

## Assembly Compatibility

TRADITIONAL  
PP-R FITTING



series:  
CLASSIC  
CLASSICUV  
POWER  
POWERPLUS  
POWERUV  
FIBERREINFORCED





90° plain elbow

Cod	Ø (mm)	box/pcs	price
ELC02520	20	400	
ELC02525	25	250	
ELC02532	32	150	
ELC02540	40	80	
ELC02550	50	50	
ELC02563	63	24	
ELC02575	75	10	
ELC02590	90	5	
ELC025110	110	5	
ELC025125	125	1	
ELC025160	160	1	



45° plain elbow

Cod	Ø (mm)	box/pcs	price
ELO02520	20	500	
ELO02525	25	300	
ELO02532	32	150	
ELO02540	40	100	
ELO02550	50	50	
ELO02563	63	25	
ELO02575	75	10	
ELO02590	90	5	
ELO025110	110	5	
ELO025160	160	1	



Plain coupling

Cod	Ø (mm)	box/pcs	price
MAN02520	20	500	
MAN02525	25	400	
MAN02532	32	200	
MAN02540	40	120	
MAN02550	50	100	
MAN02563	63	50	
MAN02575	75	10	
MAN02590	90	10	
MAN025110	110	5	
MAN025125	125	1	
MAN025160	160	1	



90° plain Tee

Cod	Ø (mm)	box/pcs	price
TEE02520	20	250	
TEE02525	25	150	
TEE02532	32	100	
TEE02540	40	60	
TEE02550	50	30	
TEE02563	63	20	
TEE02575	75	5	
TEE02590	90	5	
TEE025110	110	1	
TEE025125	125	1	
TEE025160	160	1	



M/F plain reduction

Cod	Ø (mm)	box/pcs	price
RED52520	25x20	600	
RED53220	32x20	300	
RED53225	32x25	300	
RED54020	40x20	200	
RED54025	40x25	200	
RED54032	40x32	150	
RED55020	50x20	200	
RED55025	50x25	200	
RED55032	50x32	200	
RED55040	50x40	100	
RED56320	63x20	100	
RED56325	63x25	100	
RED56332	63x32	100	
RED56340	63x40	100	
RED56350	63x50	100	
RED57540	75x40	5	
RED57550	75x50	5	
RED57563	75x63	5	
RED59050	90x50	2	
RED59063	90x63	2	
RED59075	90x75	2	
RED51163	110x63	2	
RED51175	110x75	2	
RED51190	110x90	2	
RED51211	125x110	1	
RED51611	160x110	1	
RED51612	160x125	1	



90° plain reduced Tee

Cod	Ø (mm)	box/pcs	price
TE252520	25x20x25	150	
TE252420	25x25x20	150	
TE252520	25x20x25	150	
TE253220	32x20x32	100	
TE253225	32x25x32	100	
TE253226	32x25x25	100	
TE254020	40x20x40	60	
TE254025	40x25x40	60	
TE254032	40x32x40	60	
TE255020	50x20x50	40	
TE255025	50x25x50	40	
TE255032	50x32x50	40	
TE255040	50x40x50	30	
TE256320	63x20x63	25	
TE256325	63x25x63	25	
TE256332	63x32x63	25	
TE256340	63x40x63	20	
TE256350	63x50x63	20	
TE257550	75x50x75	1	
TE257563	75x63x75	1	
TE259063	90x63x90	1	
TE259075	90x75x90	1	
TE251175	110x75x110	1	
TE251190	110x90x110	1	



By-pass

Cod	Ø (mm)	box/pcs	price
BYP02520	20	100	
BYP02525	25	70	
BYP02532	32	45	



By-pass with coupling

Cod	Ø (mm)	box/pcs	price
BPM02520	20	150	
BPM02525	25	80	



M/F 90° plain elbow

Cod	Ø (mm)	box/pcs	price
EMF02020	20	400	
EMF02025	25	250	
EMF02532	32	150	



Plain cap

Cod	Ø (mm)	box/pcs	price
CAP2520	20	600	
CAP2525	25	400	
CAP2532	32	250	
CAP2540	40	150	
CAP2550	50	100	
CAP2563	63	50	
CAP2575	75	5	
CAP2590	90	2	
CAP25110	110	2	



Elbow long

Cod	Ø (mm)	box/pcs	price
ELL02520	20	250	
ELL02525	25	120	
ELL02532	32	60	



Flange

Cod	Ø (mm)	box/pcs	price
FGE	40	5	
FGE	50	5	
FGE	63	5	
FGE	75	2	
FGE	90	1	
FGE	110	1	
FGE	125	1	
FGE	160	1	



Male stopper

Cod	Ø (mm)	box/pcs	price
STO02540	40	50	
STO02550	50	50	
STO02563	63	50	



Male threaded joint

Cod	Ø (mm)	box/pcs	price
JOM02520	20 x 1/2	250	
JOM02521	25 x 1/2	200	
JOM02525	25 x 3/4	200	
JOM02532	32 x 1	120	
JOM02540	40 x 1 1/4	50	
JOM02550	50 x 1 1/2	50	
JOM02563	63 x 2	35	
JOM02575	75 x 2 1/2	2	
JOM02590	90 x 3	2	
JOM025110	110x4	2	



Female threaded joint

Cod	Ø (mm)	box/pcs	price
JOF02520	20 x 1/2	300	
JOF02521	25 x 1/2	250	
JOF02525	25 x 3/4	250	
JOF02531	32 x 3/4	150	
JOF02532	32 x 1	150	
JOF02540	40 x 1 1/4	50	
JOF02550	50 x 1 1/2	50	
JOF02563	63 x 2	35	
JOF02575	75 x 2 1/2	2	
JOF02590	90 x 3	2	
JOF025110	110 x 4	2	



Female threaded elbow

Cod	assembled	Ø (mm)	box/pcs	price
ELF02520		20 x 1/2	250	
ELF02521		25 x 1/2	150	
ELF02525		25 x 3/4	150	
ELF02531		32 x 3/4	100	
ELF02532		32 x 1	100	
ELF02540		40 x 1 1/4	50	
ELF02550	●	50 x 1 1/2	35	
ELF02563		63 x 2	20	

● ASSEMBLED



Male threaded elbow

Cod	Ø (mm)	box/pcs	price
ELM02520	20 x 1/2	200	
ELM02521	25 x 1/2	150	
ELM02525	25 x 3/4	150	
ELM02532	32x1	50	





Female threaded Tee

Cod	assembled	Ø (mm)	box/pcs	price
TEF02520		20 x 1/2	200	
TEF02521		25 x 1/2	150	
TEF02525		25 x 3/4	120	
TEF02531		32 x 3/4	50	
TEF02532		32 x 1	50	
TEF02537		40 x 3/4	50	
TEF02540		40 x 1 1/4	40	
TEF02547		50 x 3/4	40	
TEF02550	●	50 x 1 1/2	30	
TEF02557		63 x 3/4	25	
TEF02563		63 x 2	20	

- ASSEMBLED



Female threaded Tee double

Cod	Ø (mm)	box/pcs	price
TEFD2537	40 x 3/4 x 3/4	50	
TEFD2547	50 x 3/4 x 3/4	40	
TEFD2557	63 x 3/4 x 3/4	20	



Male threaded Tee

Cod	Ø (mm)	box/pcs	price
TEM02520	20 x 1/2	150	
TEM02521	25 x 1/2	120	
TEM02525	25 x 3/4	120	
TEM02532	32 x 1	50	



Male adaptor threaded female

Cod	Ø (mm)	box/pcs	price
JMF02540	40 x 1 1/4	100	
JMF02550	50 x 1 1/2	70	
JMF02563	63 x 2'	45	



Female threaded elbow with brackets

Cod	Ø (mm)	box/pcs	price
ELFB2520	20	200	

### Tap with cap PP/seat

Cod	Ø (mm)	box/pcs	price
RUC02520	20	75	
RUC02525	25	50	
RUC02532	32	50	



### Tap with knob PP/seat Luxury

Cod	Ø (mm)	box/pcs	price
RUM02520	20	50	
RUM02525	25	50	
RUM02532	32	40	



### Tap with plastic knob

Cod	Ø (mm)	box/pcs	price
RPM02020	20	50	
RPM02525	25	50	
RMP03232	32	40	



## Valve with extractable ball luxury w/cap

Cod	Ø (mm)	box/pcs	price
VSC02520	20	2	
VSC02525	25	2	
VSC02532	32	2	



## Valve with extractable ball luxury w/lever

Cod	Ø (mm)	box/pcs	price
VSL02520	20	2	
VSL02525	25	2	
VSL02532	32	2	



## Valve with extractable ball luxury w/handle

Cod	Ø (mm)	box/pcs	price
VSM02520	20	2	
VSM02525	25	2	
VSM02532	32	2	





Brass union ball valve

Cod	Ø (mm)	box/pcs	price
VSU02520	20	20	
VSU02525	25	20	
VSU02532	32	20	
VSU02540	40	10	
VSU02550	50	10	
VSU02563	63	10	



Valve with plastic lever

Cod	Ø (mm)	box/pcs	price
VPL02020	20	20	
VPL02525	25	20	
VPL03232	32	20	
VPL04040	40	10	
VPL05050	50	10	
VPL06363	63	10	



Monocontrol mix shower Luxury

Cod	Ø (mm)	box/pcs	price
MIX02520	20	10	



Screw cap for circuit test

Cod	color	Ø (mm)	box/pc	price
TAPB2520	B	1/2	300	
TAPR2520	R	1/2	300	
TAPB2525	B	3/4	300	
TAPR2520	R	3/4	300	





6-way modul aligning

Cod	Ø (mm)	box/pcs	price
MOD602520	20	15	



Modul Aligning

Cod	Ø (mm)	box/pc	price
MOD02520	20x1/2	40	
MOD02525	25x1/2	40	



Union male

Cod	Ø (mm)	box/pcs	price
UNM02020	20	10	
UNM02525	25	10	
UNM03232	32	10	
UNM04040	40	5	
UNM05050	50	5	
UNM06363	63	5	



Union female

Cod	Ø (mm)	box/pcs	price
UNF02020	20	10	
UNF02525	25	10	
UNF03232	32	10	
UNF04040	40	5	
UNF05050	50	5	
UNF06363	63	5	



Double union with brass

Cod	Ø (mm)	box/pcs	price
UNB02020	20	10	
UNB02525	25	10	
UNB03232	32	10	
UNB04040	40	5	
UNB05050	50	5	
UNB06363	63	5	



Union PP

Cod	Ø (mm)	box/pcs	price
UNP02020	20	10	
UNP02525	25	10	
UNP03232	32	10	
UNP04040	40	5	
UNP05050	50	5	
UNP06363	63	5	



Melting equipment case

Cod	Ø (mm)	box/pcs	price
POL02040	20-25-32-40	1	



Pipe cutter

Cod	Ø (mm)	box/pcs	price
CUT02032	0-43	1	



Die to repair holes

Cod	Ø (mm)	box/pcs	price
MAT02507	7	1	
MAT02511	11	1	



Die for male/female welding

Cod	Ø (mm)	box/pcs	price
MAT02520	20	1	
MAT02525	25	1	
MAT02532	32	1	
MAT02540	40	1	
MAT02550	50	1	
MAT02563	63	1	
MAT02575	75	1	
MAT02590	90	1	
MAT025110	110	1	



Piper calibrator

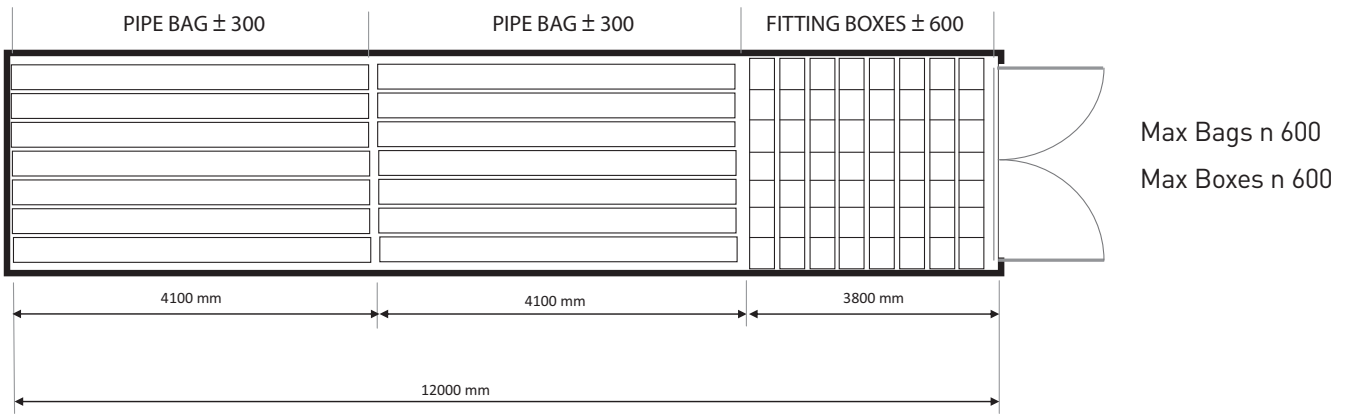
Cod	Ø (mm)	box/pcs	price
CAL02510	20-25	1	
CAL02520	32-40	1	
CAL02530	50-63	1	

## Boxing and shipping

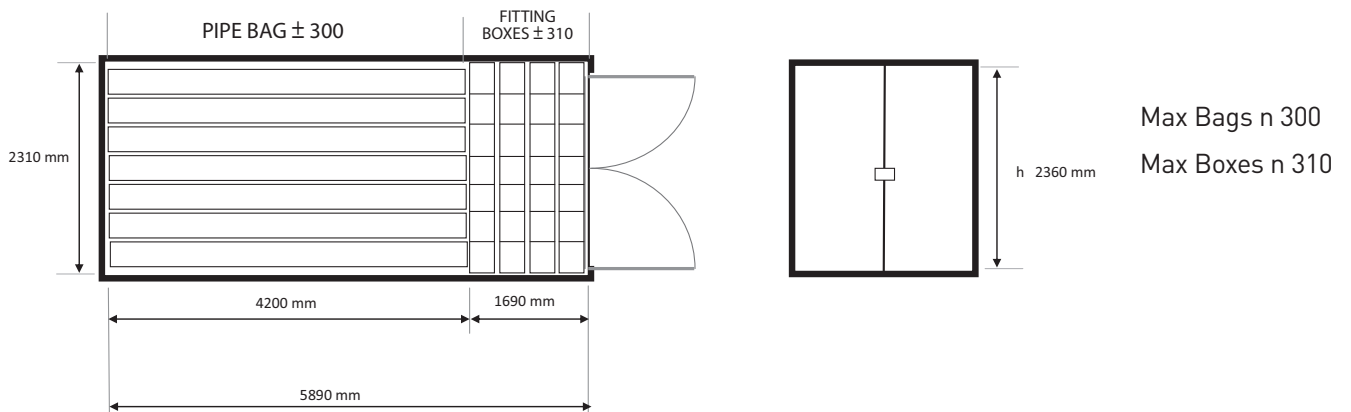


Example of loading for international Standard Container

### 40'' feet Container



### 20'' feet Container



## General Terms of sale

The following general terms of sale are applicable to all sale contracts carried out in Italy or abroad by TC TERMO srl. Terms can be changed without any previous notice and they are totally accepted by sellers according to order underwriting.

All offers, orders confirmation and each delivery are ruled by the following conditions:

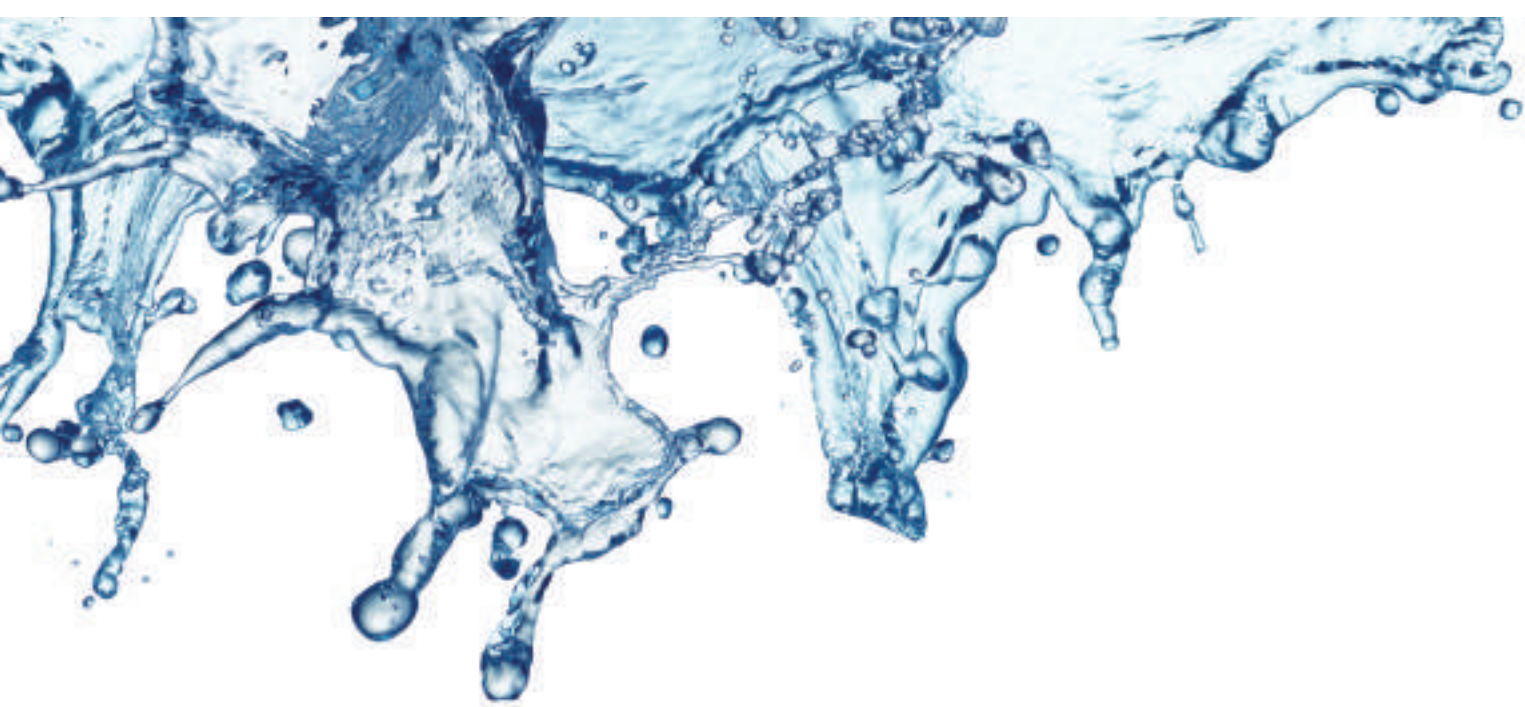
Orders will be accepted only after buyer have signed agreement, and sellers might have discretion to accept or reject specific orders according to his judgement. Each change or cancellation has to be confirmed by sellers. Quality or quantity of products must to be indicated at the order confirmation moment, or in the invoice when delivered.

However it is allowed to change the quantity, according to the packing standards.

- 1) Delivery times: to finalize during the confirmation of the order.
- 2) Delivery: ex-work our factory in Rome.
- 3) Packaging: any kind of packaging, different from our standard and requested by buyers, could be allowed with an additional cost.
- 4) Claims: any kind of claim should get within 15 days from order delivery.
- 5) Payment: to define.
- 6) Validity: the validity of the offer conditions are generally 30 days.
- 7) Guaranty: TC TERMO srl, has its own guarantee for damages on material raised by TC TERMO internal production mistakes.





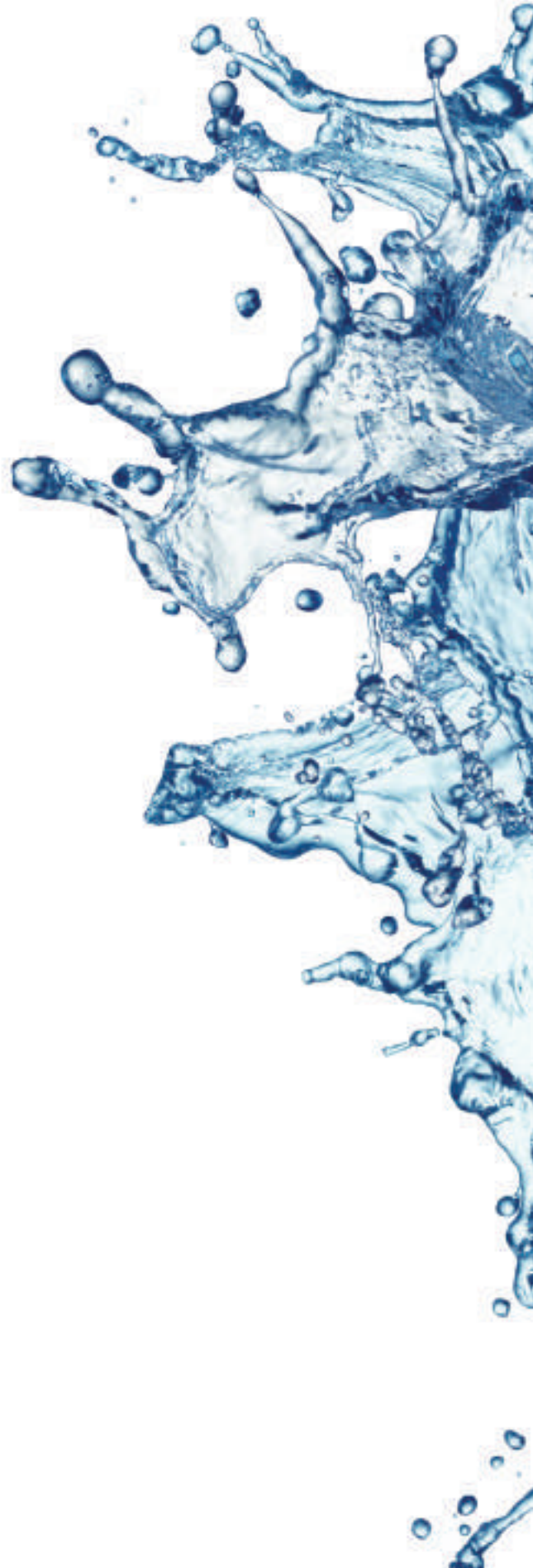


The Italian  
PRODUCT





All products  
are fully recyclable



***TCtermo***  
PP-R pipes and fittings

Contact:  
[sales@tcterma.com](mailto:sales@tcterma.com)