



aquatechnik®

Soluzioni per l'idraulica e l'impiantistica
Solutions for plumbing and plant-engineering







aquatechnik®



Aquatechnik produces and distributes hot and cold, HVAC, compressed air, mechanical systems for domestic, commercial, marine and agricultural installations.

The production site works in compliance with the ISO 9001 standards since the early 1990s and in full respect of the environment according to ISO 14001 Standards.

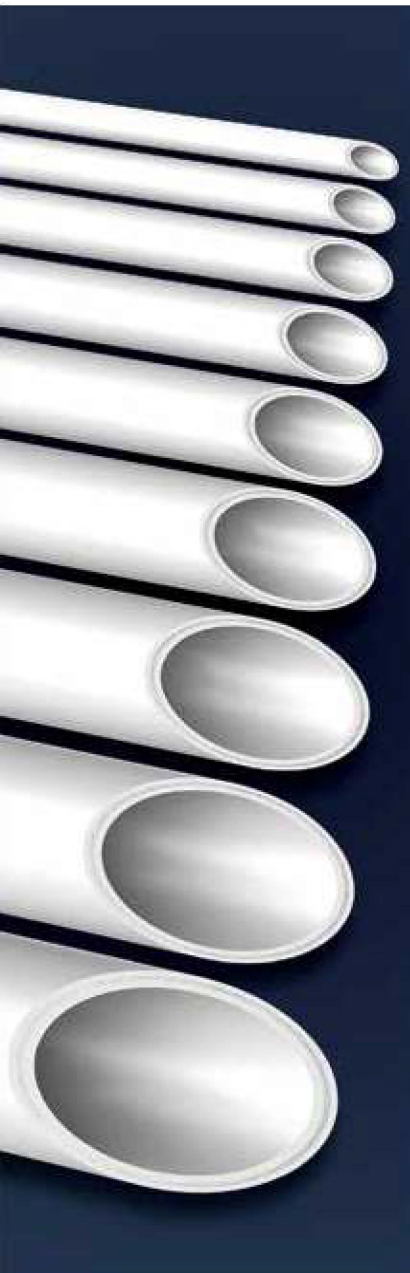
The manufacturing facilities, located in Magnago (MI), comprises several departments serving a variety of processes: injection moulding, extrusion and pipe coating, PUR foam and assembly of special fittings (manifolds).

The production facility is supported by a technical department responsible for developing the tools and equipment required to process the various systems.

The company is completed by laboratories and a research centre which, along with a high level of automation, ensure high qualitative and productive standards. The main warehouse which is located adjacent to the manufacturing facility, allows fast and efficient distribution of products to our World Wide network of distributors. Dedicated Aquatechnik personnel and specialist local distributors, provide a complete sales and after-sales service.

The company is committed to innovation and product development, and has over time, developed a comprehensive and complete offering of pipe systems, components, special fittings and equipment that can meet the most varied requirements for pipe work installations. Today, Aquatechnik can boast hundred thousands of systems installed thanks to the approvals obtained from certification institutes world-wide, which rank it among the leading companies in Europe, US, Australia and the world.





High performance polymers pipes for all system requirements.

Range of multilayer pipes for plumbing, heating,
conditioning and compressed air systems.
For open laid exposed and concealed applications.

MULTI-CALOR PIPES

Multilayer pipes made of PE-X/Al/PE-X
The main features are represented by a superior resistance to high temperatures and operating pressures, by its long-life, and by being absolutely organoleptic with potable fluids for human consumption. Ideal for any type of installation, from the residential sector to the industrial and service sectors for water supplies, heating, conditioning, cooling, garden irrigation and compressed air networks.

Range: from Ø 14 to 90 mm, even in a pre-insulated version up to Ø 32 mm.

MULTI-GAS PIPES

Multilayer pipes made of PE-X/Al/PE-X
Multilayer pipes for the conveyance of gas for domestic and industrial use, in compliance with UNI TS 11344 and AS4176.8.

Range: from Ø 16 to 32 mm.



MULTI-ECO PIPES

Multilayer pipes made of PE-X/Al/PE-HD
Unlike the multi-calor pipe, the external layer is made of high density polyethylene. Furthermore, the aluminium layer that distinguishes the multi-eco pipes is thin and therefore, guarantees the same benefits of the multi-calor pipes with favourable cost effective conditions.

Range: from Ø 16 to 32 mm, even in a pre-insulated version.

POLIPERT PIPES

5-layer pipes made of PE-RT
with an oxygen barrier made of EVOH
Designed for radiant floor systems, it is also widely used in low temperature heating and conditioning systems, in civil and industrial buildings.

Not suitable for the conveyance of drinking water.

Range: Ø 16 and 20 mm.





SAFETY system

Fittings system of PPSU synthetic material and caps made of PA-M with multilayer pipes, for plumbing, heating, cooling and compressed air systems. For open laid exposed and concealed applications.

**High technology, simple installation.
Aquatechnik patent.**



The patented "safety" system was designed to give maximum protection to joints that are to be installed inside and outside of walls.

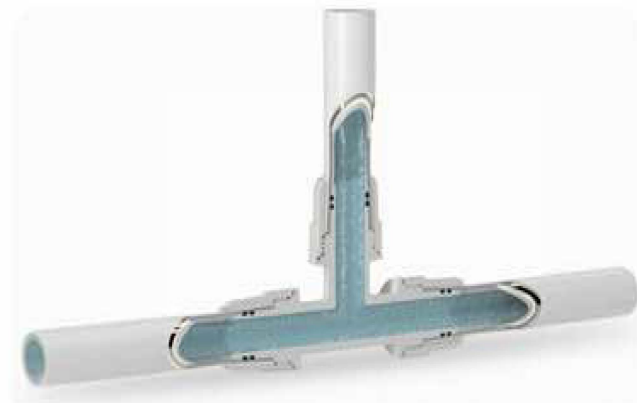
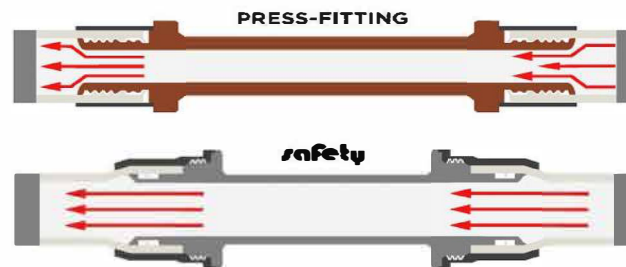
The "safety" system is distinguished by two key factors:

- the expansion of the ends of the pipe (flaring), made with specific, patented equipment which allows simple, rapid and safe coupling of pipe and fitting;
- the pipe is positioned and secured at to the fitting using the cap, which eliminates any movements and, if necessary, it can be disassembled to allow the fitting to be recovered very easily.

The "safety" system has several benefits, including:

- totally safe pipe-fitting joints;
- high resistance to impacts and violent knocks;
- higher flow rate of fluid and reduced pressure drops;
- quick installation, low cost and cheaper processing tools.

Range: from Ø 14 to 90 mm.





SAFETY-METAL system

System of brass alloy fittings and caps made of PA-M with multilayer pipes, for plumbing, heating, cooling and compressed air systems. For open laid exposed and concealed applications.

The benefits of Aquatechnik patent together with the brass tradition.

The safety-metal system is a range of fittings made of brass alloy with caps in PA-M that, using the joining processing patented by "safety", ensures a great hydraulic and mechanical seal.

As for the safety-pol system, the joining with the multilayer pipe is given by the expansion of the ends of the pipe (flaring) and the blocking of the fitting inserted in the special cap.

This process allows to achieve several advantages among which:

- totally safe pipe-fitting joints;
- high resistance to impacts and violent knocks;
- higher flow rate of fluid and reduced pressure drops;
- quick installation, low cost and cheaper processing tools.

Range: from Ø 16 to 32 mm.





SAFETY-GAS system

**System of brass fittings and caps
made of PA-M with multilayer pipes
for gas systems.**

All the benefits of Safety even for the gas systems.



Thanks to decades of experience gained in the “safety” system field, Aquatechnik has designed the safety-gas system, consisting of multilayer pipes made of PE-X/Al/PE-X combined with safety fittings in which O-rings made of HNBR are used: a specifically designed compound for contact with gas.

The fittings are made of brass with yellow O-rings and caps.

Using the machine patented by the company, you can work both with the safety system for the distribution of water or with the safety-gas system to install gas systems.

The safety-gas system is suitable to install supply systems fed by the gas network for domestic use, by LPG fixed drums and by tanks made with metal-plastic multilayer pipe systems.

In addition to the known benefits that a multilayer pipe installation offers, the “safety-gas” system adds another two which are very important:

- *gas, plumbing and heating systems are set up with a single equipment;*
- *“safety” fittings, i.e. with full flowing, guarantee much lower pressure drops (a very important phenomenon in gas networks).*

Range: from Ø 16 to 32 mm.

UNIVERSAL system

Press-fittings of synthetic material for plumbing, heating, conditioning and compressed air systems.

For open laid exposed and concealed applications.

Latest generation multi-clamp system for guaranteed installations.

This is the Aquatechnik press-fitting system consisting of the multi-color pipe (PE-X/Al/PE-X) or multi-eco pipe (PE-X/Al/PE-HD) with press-fittings entirely made of synthetic material.

The fitting body, entirely made of polymeric material, guarantees the water potability and the best organoleptic properties showing high resistance against lime, cement, plaster and to phenomena of electrochemical aggression.

An innovate safe system underlines if a clamping operation is not performed.

Assembly is made by compression, which is a fast, safe and cheap way to create perfectly sealed joints, representing a guarantee reliability in time.

Range: from Ø 16 to 32 mm

Moreover, it is a multi-clamp system: the press is guaranteed with every type of jaws indicated in the table.

Ø Pipe	Clamp type				
16x2	H	TH	F	B	U
20x2	H	TH	F	B	U
26x3	H	TH	F	B	C
32x3	H	TH	F	B	U





PRESS-FITTING METAL system

Brass alloy press-fittings for plumbing, heating, conditioning and compressed air systems.

For open laid exposed and concealed applications

Today, the traditional system of junction is multi-clamp.

Press-fitting metal is the system composed by multi-color pipes (PE-X/Al/PE-X) or multi-eco pipes (PE-X/Al/PE-HD), realized with press-fittings made of brass alloy.

As for the universal system, the press-fitting metal can be used for sanitary, radiator heating and radiant panel plants.

Even in this case, assembly is made by compression, which is a fast, safe and cheap way to create perfectly sealed joints, which represent a guarantee reliability in time.

Range: from Ø 16 to 63 mm

Moreover, it is a multi-clamp system: the press is guaranteed with every type of jaws indicated in the table.

Ø Pipe	Clamp type		
16x2	TH	H	U
20x2	TH	H	U
26x3	TH	H	C
32x3	TH	H	U
40x3,5	TH		
50x4	TH		
63x4,5	TH		

FUSIO-TECHNIK system
with **FIBER-REINFORCED** pipes

More capacity, less expansion, white oxidation resistant composite technology for new generation systems.

The fusio-technik fibre-reinforced system represents a smart evolution of single layer ones: the use of the latest generation of polymeric raw materials, as well as the use of innovative additives, has given these products special performances that place them at the top list in the hydraulic sector.

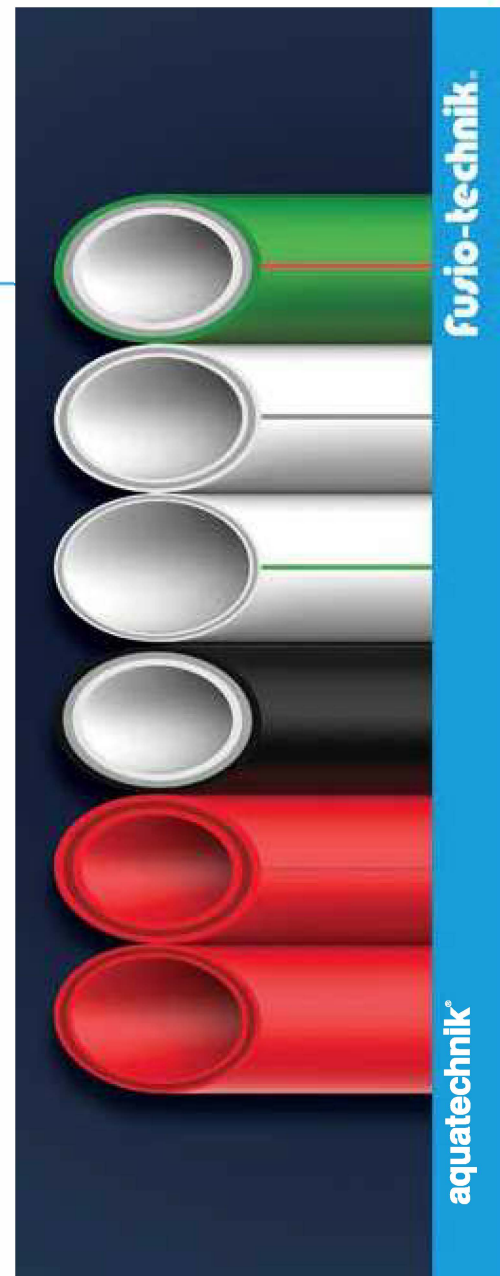
The wall composition of the multilayer pipe allowed the material and the specific additives to be concentrated where they are most effective. All these features give the pipes the following advantages:

- a 70% reduction of linear thermal expansion compared to single layer pipes, making laying easier (clamping);
- better operating conditions (pressure/temperature/duration) than the same thickness of single layer pipes.

The kind of pipes offered by Aquatechnik are:

- **faser FIBER-T (PP-RCT WOR/PP-RF/PP-R), SDR 7,4**
To convey warm and cold, drinkable and not-drinkable water. For high temperature sanitary systems.
Range: from Ø 20 to 200 mm
- **faser FIBER-COND (PP-RCT WOR/PP-RF/PP-R), SDR 11**
To convey cold and medium temperature water (max 50°C), drinkable and not-drinkable. For high temperature heating systems. **Range: from Ø 32 to 400 mm**

- **UVRES (PP-RCT WOR/PP-RF/PP-R) SDR 7,4 and 11**
To convey warm and cold, drinkable and not-drinkable water, **high resistance against UV rays.**
For high temperature sanitary and heating systems.
Range: from Ø 20 to 315 mm
- **FIRES (PP-R/PP-RF/PP-R), SDR 7,4 and 11**
For fire-fighting sprinkler systems (where permitted) and mechanical plants with high fire resistance.
Range: from Ø 20 to 125 mm
- **faser FIBER-LIGHT (PP-RCT WOR/PP-RF/PP-R), SDR 17,6**
To convey low temperature water (max 30°C), drinkable and not-drinkable. For heating systems with medium pressures and temperatures.
Range: from Ø 63 to 630 mm





ISO-TECHNIK system
PUR pre-insulated pipe systems for the
Heating/Cooling district.

High-tech energy saving system.

The iso-technik system has a structure similar to the traditional solutions used to remotely distribute energy, both directly and indirectly, by means of the carrying fluid water: a service pipe through which the vector fluid flows with a maximum operating temperature of 90°C, surrounded by an insulating layer of polyurethane foam, all enclosed by an outer protective sheath made of high density polyethylene.

Compared to this layout, the main innovation consists in the replacement of the metal service pipe with a thermoplastic multilayer composite fiber-reinforced matrix pipe.

The range of iso-technik products includes pipes and fittings available in the following versions:

- iso FIBER-T SDR 7,4 for high temperature sanitary and heating systems
- iso FIBER-COND SDR 11 for medium temperature sanitary systems and for high temperature heating systems
- iso FIBER-LIGHT SDR 17,6 for low temperature sanitary systems and heating systems with medium pressures and temperatures

The features of these service pipes give the following benefits:

- reduced self-compensating expansion
- high thermal insulation capacity
- resistance to any form of corrosion
- easily transportation to the site thanks to its low linear density (kg/m)
- easy and quick installation with reduced costs
- minimum heat loss
- meets environmental sustainability and energy requirements.

Range: from Ø 32 to 315 mm.



VALU-TECHNIK system

Floor system with **multilayer pipes** and PE-X pipes for radiant heating and cooling.

A single system with a dual function.

A comprehensive system of pipes and adjustment components for floor heating installations in the winter version and cooling in the summer version.

Thanks to the principle of heat exchange by radiation, superior comfort levels than any other heating/conditioning system are achieved.

A number of unparalleled advantages:

- **Environmental comfort:** radiant systems reproduce temperature uniformity.
- **Well-being:** the perception of physical well-being reproduced by the radiant panel system corresponds with the physiological needs of the human body.
- **Environmental aesthetics:** since it is installed under the floor, it eliminates the constraint of heating elements and allows the space to be completely used.
- **Cleanliness and hygiene:** the lack of convection motion makes the environment healthier and cleaner.
- **Energy and economic savings:** operating at low temperatures, the savings in energy and costs are significant in both versions of the system (summer and winter).

Range: from Ø 16 to 32 mm.



PIPE APPLICATION

- Recommended for technical advantages
- Possible use
- Not suitable

	multi-calor	multi-eco	polipert	multi-gas	fusio-technik SDR 6	superflux SDR 7,4	rain-water	faser FIBER-T	faser FIBER-COND	faser FIBER-LIGHT	FIBER-UVRES	FIBER FIRES
Drinking water at high temperature	●	●	●	●	●	●	●	●	●	●	●	●
Drinking water at low temperature	●	●	●	●	●	●	●	●	●	●	●	●
Heating	●	●	●	●	●	●	●	●	●	●	●	●
Conditioning/cooling	●	●	●	●	●	●	●	●	●	●	●	●
Chilled water	●	●	●	●	●	●	●	●	●	●	●	●
Swimming pools	●	●	●	●	●	●	●	●	●	●	●	●
Heating/Cooling for sports facilities	●	●	●	●	●	●	●	●	●	●	●	●
Conveying chemicals*	●	●	●	●	●	●	●	●	●	●	●	●
Rainwater	●	●	●	●	●	●	●	●	●	●	●	●
Irrigation	●	●	●	●	●	●	●	●	●	●	●	●
Compressed air	●	●	●	●	●	●	●	●	●	●	●	●
Floor heating and cooling	●	●	●	●	●	●	●	●	●	●	●	●
Gas installations	●	●	●	●	●	●	●	●	●	●	●	●
Naval	●	●	●	●	●	●	●	●	●	●	●	●
District heating**	●	●	●	●	●	●	●	●	●	●	●	●
Geothermal civil plants	●	●	●	●	●	●	●	●	●	●	●	●
Industrial geothermal plants	●	●	●	●	●	●	●	●	●	●	●	●
Agriculture	●	●	●	●	●	●	●	●	●	●	●	●
UV resistance	●	●	●	●	●	●	●	●	●	●	●	●
Sprinkler fire-fighting system	●	●	●	●	●	●	●	●	●	●	●	●

* After a corporate technical evaluation ** At high temperature (max 90°C)

For the iso-technik system, see faser FIBER-T, faser FIBER-COND and faser FIBER-LIGHT applications

FITTINGS-SYSTEMS APPLICATION

● Recommended for technical advantages

● Possible use

● Not suitable

	safety	safety metal	safety gas	universal	press fitting metal	fusio-technik	fusio-technik FIRES	iso-technik	valu-technik
Drinking water at high temperature	●	●	●	●	●	●	●	●	●
Drinking water at low temperature	●	●	●	●	●	●	●	●	●
Heating	●	●	●	●	●	●	●	●	●
Conditioning/cooling	●	●	●	●	●	●	●	●	●
Chilled water	●	●	●	●	●	●	●	●	●
Swimming pools	●	●	●	●	●	●	●	●	●
Heating/Cooling for sports facilities	●	●	●	●	●	●	●	●	●
Conveying chemicals*	●	●	●	●	●	●	●	●	●
Rainwater	●	●	●	●	●	●	●	●	●
Irrigation	●	●	●	●	●	●	●	●	●
Compressed air	●	●	●	●	●	●	●	●	●
Floor heating and cooling	●	●	●	●	●	●	●	●	●
Gas installations	●	●	●	●	●	●	●	●	●
Naval	●	●	●	●	●	●	●	●	●
District heating**	●	●	●	●	●	●	●	●	●
Geothermal civil plants	●	●	●	●	●	●	●	●	●
Industrial geothermal plants	●	●	●	●	●	●	●	●	●
Agriculture	●	●	●	●	●	●	●	●	●
UV resistance	●	●	●	●	●	●	●	●	●
Sprinkler fire-fighting system	●	●	●	●	●	●	●	●	●

* After a corporate technical evaluation ** At high temperature (max 90°C)

SOME REFERENCES

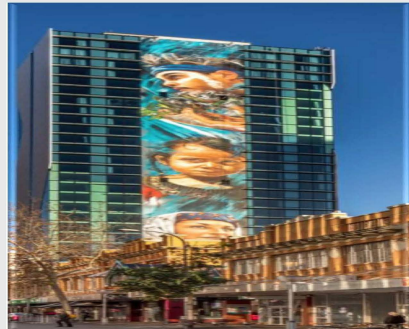
Residential Buildings



Private house, Wuppertal, Germany



Caringbah Residential Estate, Sidney, Australia



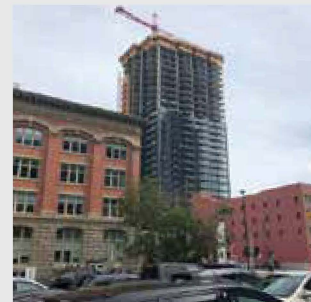
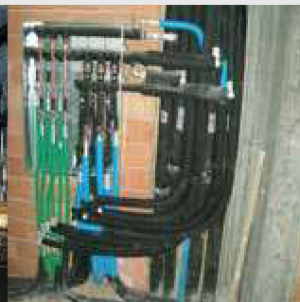
Mantra Hotel, Perth, Western Australia



Bahia Center Residential Estate, Oran, Algeria



King Cross T1 Building, London, United Kingdom



Upten Building, Calgary, Canada



SOME REFERENCES

Communities



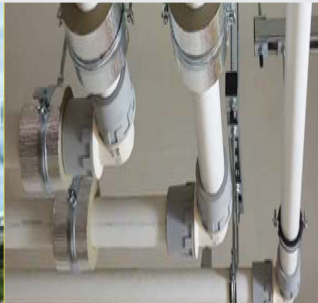
Thermal Spa Center, Mala Nedelja, Slovenia



New York University, Abu Dhabi, United Arab Emirates



Ospedale Chulalongkorn, Bangkok, Thailand



Salvini Hospital, Garbagnate (MI), Italy



New Hospital Apuano, Massa Carrara, Italy



Royal Life Saving Aquatic Academy, Denistone East, Sydney, Australia



SOME REFERENCES

Communities



St. David's Student Accommodation, Swansea, United Kingdom



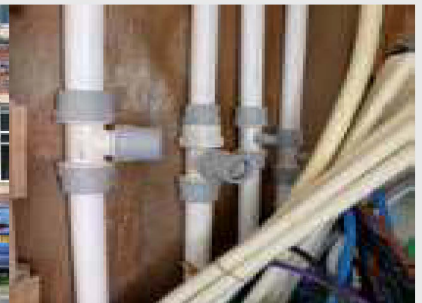
Glamping Orsolina 28, Moncalvo (AT), Italy



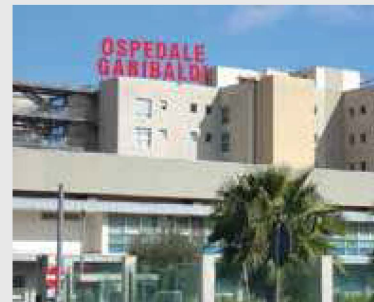
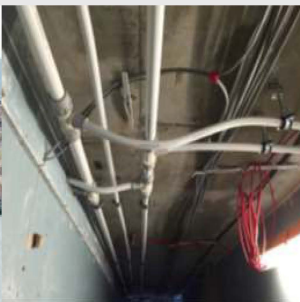
District House, Civitavecchia (RM), Italy



De Ferrers Academy, Trent Campus, Staffordshire, United Kingdom



Harbour Master, Cost Guard, Trieste, Italy



Garibaldi-Nesima General Hospital, Catania, Italy



SOME REFERENCES

Productive and Commercial Activities



Milperra Industrial Park, Milperra, Australia



Gatwood Close, Padstow, Sydney, Australia



Konekta Group Building, Ciudad Real, Spain



Tesco Stores, Ammanford, South Wales, United Kingdom



Yogurt factory, Ingleburn, Sydney, Australia



Seddon Street, Bankstown, Sydney, Australia

SOME REFERENCES

Shipbuilding



photo credit Fincantieri



Koningsdam Cruise Ship, Fincantieri Shipyard, Marghera (VE), Italy



Private Yacht, Viareggio (LU), Italy

Sports Facilities



Twente Stadium, Eschede, The Netherlands



Word Basketball Pavillion, Las Palmas, Gran Canaria, España



Mapei Stadium, Reggio Emilia, Italy



Cluj Arena, Cluj-Napoca, Romania



SOME REFERENCES

Historic Buildings



Cà Foscari University, Venice, Italy



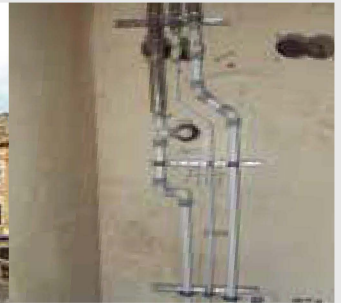
The Sforza Castle, Milan, Italy



La Scala Opera House, Milan, Italy



Buxton SPA Hotel, Buxton, United Kingdom



Grand Hotel Excelsior, Lido of Venice (VE), Italy



Battersea Power Station, London, United Kingdom





aquatechnik®

Solutions for plumbing and plant-engineering

INTERNATIONAL HEAD OFFICE, PRODUCTION AND WAREHOUSE

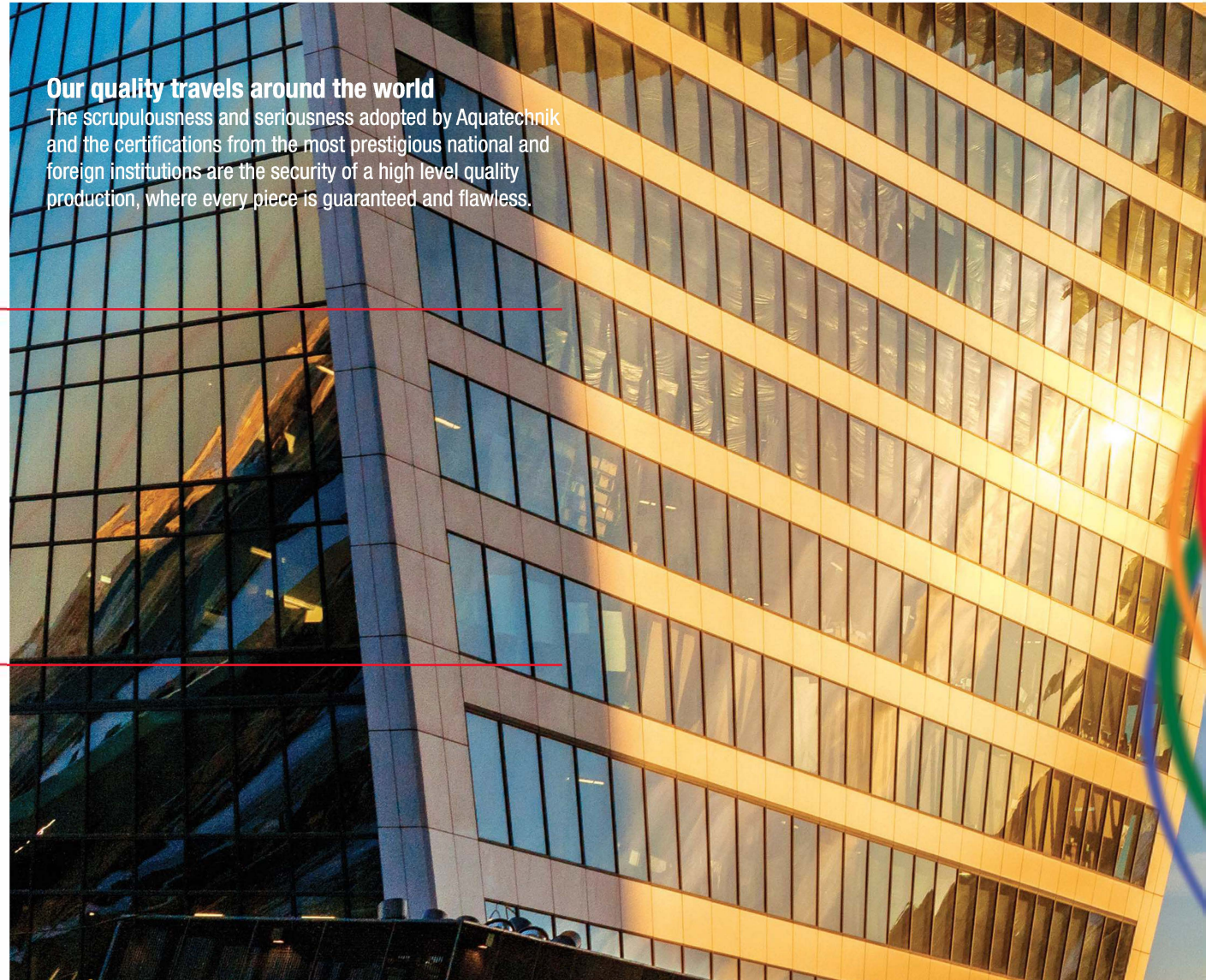
40 P. F. Calvi Road,
20020 Magnago (Milan) - ITALY
Ph: +39 (0)331 307015
Fax: 0039 (0)331 306923
E-mail: info@aquatechnik.it
www.aquatechnik.it

aquatechnik® australia

AUSTRALIAN BRANCH AND TRAINING CENTER

1600 Canterbury Road,
Pucnhowl 2196 Sydney - NSW
Ph: 1300 734 762
E-mail: admin@aquatechnik-australia.com.au
www.aquatechnik-australia.com.au

Follow us



Our quality travels around the world

The scrupulousness and seriousness adopted by Aquatechnik and the certifications from the most prestigious national and foreign institutions are the security of a high level quality production, where every piece is guaranteed and flawless.

