The RICHEL Group was created in 1964 and has been a family-run business for 3 generations. For more than 50 years, we have been the French specialists and European leader in the manufacture of plastic-covered greenhouses.

Our know-how has also enabled us to grow in other business areas that have become essential for the Group:

- The manufacture of VENLO glass greenhouses since 2004
- The development of storage solutions through our SHELTERALL® range

Every day, 230 employees help carry out some 500 projects a year, in France and throughout the world. 50 project managers and technical supervisors, based in all 5 continents, support our customers, providing advice on their projects.

As a supplier of turnkey agronomic solutions, we are committed to building lasting relationships with our customers. Quality, innovation and meeting deadlines for a long-term partnership.

Our subsidiary, Richel Equipment, located in the French city of Angers, has been a specialist in equipment for crop production for over 30 years. We offer our customers comprehensive equipped-greenhouse solutions, meeting their climate control, water and energy management needs.

Our production plant, based in the South of France in Eygalières, is a high-tech manufacturing facility with a production capacity of 350 hectares and 25,000 metric tons of steel per year.
Our TECHNOLOGY dedicated to YOUR AGRONOMIC REQUIREMENTS

QUALITY THAT STANDS THE TEST OF TIME

> OV90
To combine strength and volume, we have developed the OV90 tube. Made of High Tensile Steel (HTS), the OV90 tube's inertia is more than twice that of the 60 mm ovalised tube made of conventional quality steel.

For optimised light and volume.

> GUTTER-BEAM
For greater resistance to snow loads.

We have created the gutter-beam, with a 5 m span (European patent). For the same snow load, deflection is approximately 25 % less than for a 4 m gutter with braces (SOCOTEC report No. 91/1579 dated 30/05/91).

Additional guaranteed protection against white rust between delivery and assembly.

> COATED TUBE
The coat of varnish applied during the manufacture of our rectangular tubes provides more than twice the protection of a standard tube with Sendzimir Z275 galvanisation (CETIM test, November 2007).

Additional guaranteed protection against white rust between delivery and assembly.

> ASSEMBLY
Our attachments and connecting parts are designed and sized with the utmost care, and subject to rigorous testing in real conditions.

The quality of the assemblies is essential to the structure’s resistance to snow and wind stress.

> FILM TENSION
We have created a system for on-demand control of the covering film tension.

For excellent film resistance over time.

> STANDARDS
All Richel greenhouses are meticulously designed by our Design Office, in line with the highest requirements.
Thanks to streamlined arches, spans of 2.5 to 4 m, combined with our film quality, our greenhouses are the brightest on the market. Their Gothic form (27°C) allows maximum penetration of light.

When there is not enough natural light, *assimilation lighting* provides crops with the extra brightness needed for growth (High Pressure Sodium [HPS] lamps and LED lighting).

**TAILORED NUTRITION**

Consistency and control of the intake of nutrients are key to effective nutrition.

We design the *ferti-irrigation system* to suit your project, in line with your specifications.

Ferti-irrigation units composed of a fertilizer injector station and a fertilizer solution distribution system.
Humidity and condensation are kept under control in our greenhouses. We design our own profiles, integrating the attachment of films and insect-proof systems, as well as condensation collection systems. Thus, in our greenhouses, dripping is largely controlled.

The moisture level can also be adjusted via our equipment:
- Dehumidifying solutions
- High/low pressure FOG systems
- PAD & FAN cooling systems
- Recirculation of air

Our systems adapt to suit the needs of your crops!
Our approach takes the environment into account by saving, storing and optimising water: rainwater collection and UV treatment.

Our equipped-greenhouse solutions are designed taking the reduction of energy consumption into account in its entirety.

Equipped with insect-proof nets, our greenhouses offer protection against pests, therefore reducing the need for pesticides.

CO₂, an essential nutrient for photosynthesis, is redirected to the core of the greenhouse to be directly assimilated by the plants.
Our **RANGE**

## The First Semi-Closed Greenhouse with Plastic Covering

A new generation of greenhouses for a perfectly-controlled climate.

### Technical Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>6.20 m</th>
<th>8 m</th>
<th>8.50 m</th>
<th>9.30 m</th>
<th>9.60 m</th>
<th>12.80 m</th>
<th>16 m</th>
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<tr>
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</tbody>
</table>

* Connected tunnels option

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**Operation of the Optim’Air greenhouse**

- **CO₂**
  - Optimise Your Productivity
- **Integrated Pest Management**
- **Optimise Your Climate**

**Features**
- Drip irrigation
- Duct
- **Frost**
- **Cladding**
- **Ventilation**
- **Heating**
- **Lighting**
- **Cooling**
- **Humidity Control**
- **Water Management**
- **Nutrient Management**
- **Irrigation Management**
- **Pest Management**
- **Climate Control**
- **Productivity Enhancement**
- **Energy Efficiency**
- **Cost Savings**

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**Optim’Air Benefits**

- **Increased Productivity**
- **Improved Quality**
- **Reduced Costs**
- **Sustainable Operations**
- **High Returns**

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**Optim’Air Applications**

- **Agriculture**
- **Flower Production**
- **Vegetables**
- **Fruit**
- **Herbs**
- **Other Crops**

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**Optim’Air Features**

- **Smart Greenhouse**
- **Autonomous Control**
- **Energy Efficiency**
- **Advanced Technologies**
- **Customised Solutions**
- **World-Class Support**
- **Comprehensive Services**
- **Global Presence**
Equipped with our own unique and integrated centre of expertise, we are involved in every stage of your project, from design to completion. Specialising in greenhouses, growing and climate systems thanks to our subsidiary, Richel Equipment, we ensure that your project runs smoothly.

ASSEMBLY AND SAFETY

For 20 years, we have been investing in finding solutions for the safe installation of plastic films. Our trolley guarantees safety for assemblers.

A member of AXEMA, the union of agricultural equipment manufacturers, we are working on greenhouses designed as per trade practices: design and insurance, in addition to layout and assembly standards in line with labour, operating and maintenance regulations.
POLY GREENHOUSES