



 **JAIN**®

Jain Irrigation Systems Ltd.

Small Ideas. Big Revolutions.®

Hydroponics



Hydroponics

Hydroponics is the system of growing plants using essential nutrients in water without soil. This system is suitable for high value crops like leafy vegetables, herbs and spices.

Plant roots are suspended in static or flowing water fortified with nutrient solution. A film of nutrient solution is formed around the root zone to support the plant growth.

Benefits

- Suitable where soil cannot be used as growing media.
- This method can be used for vertical farming.
- Optimum utilisation of water and nutrients.
- Recycling of water and nutrient rendered, possible.
- No pesticide or nutrient pollution to environment.
- Higher yield per unit of resources utilized.
- Food free from microbial and other contaminants.



Controlled Environment Horticulture More than just a greenhouse!

Planning - Planning and Design of different systems - structures, Micro Irrigation, Fertigation, Climate Control, Automation and Crop Support as per requirements.

Structures - Greenhouses/ Poly houses/ Tunnels/ Shade houses/ Net houses.

Frame-works - Hot dipped Galvanized Lipped Channel Structure/ Lipped Channel cum Tubular/ Tubular Structure.

Coverings - Polyethylene/ Polycarbonate Sheet (Multi wall/ Single wall)/ Shading -Thermal Shade Net.

Environment Controls - Cooling System/ Heating System/ Humidification/ PAR Lighting.

Crops & Plants - Floriculture/ Vegetables/ Herbal - Medicinal/ Aromatic/ Exotic/ Seedling Nurseries.

Growing Mediums - Soil/ Soilless Substrate/ Hydroponics/ Aeroponics/ Vertical Farming.

Types of Irrigation - Drip Irrigation for Soil Less Substrate/ Soil Media – Micro Sprinkler – Overhead/ Inverted Sprinklers – Climate Control System – Mistlers/ Foggers/ Boom Irrigation.

Automation Controls - Automatic Controlling of Irrigation/ Temperature/ Humidity/ Ventilation/ CO₂ Monitoring/ Weather station/ Fertilizer & Nutrition Management etc.

Accessories - Filtration & Fertigation Equipment/ Pipes & Fittings/ Modular Benches/ Trellis/ Soil Sterilizer/ Drainage System etc.

Applications - Horticulture/ Seedlings/ R&D/ Nurseries/ Plant Hardening/ Ripening Chambers/ Pack House.

**IN FACT FOR SUCCESSFUL CONTROLLED ENVIRONMENT HORTICULTURE,
SOLUTIONS FROM BEGINNING TO COMMISSIONING**

More than anyone can offer, anywhere in the world!

Supported by expert customer advice and after sales service from the world's pioneer in Micro Irrigation



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