

GREENHOUSE

Structures | Automation | Components



V care for U



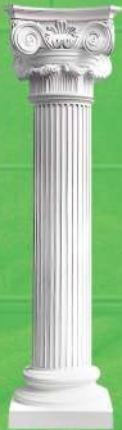
V care for U

A SUCCESSFUL GREENHOUSE PROJECT has the following Fundamental Pillars of the Bussiness Plan

1

GOVERNMENT MANAGEMENT

(Subsidy- Application,
Approval, Disbursement)



2

BANK MANAGEMENT

(Loan application,
Sanction & Disbursement)



3

SITE MANAGEMENT

(Land Preparation, GH Installation,
Bed Preparation, Irrigation Setup,
Plantation, etc.)



4

MATERIAL MANAGEMENT

(Structures Manufacturing,
Components, Automation, Accessories
Cladding Materials, Other Procurement, etc.)

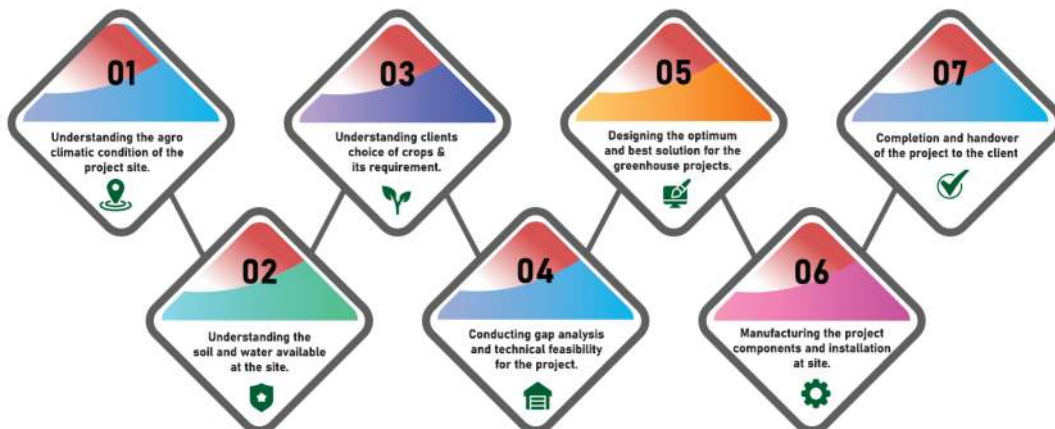


V care for U

Agrolt[®]
Solutions

is Your Best Partner & Solution for the 4th Pillar

STEPS TO BUILDING THE SUCCESSFUL PROJECT





Agrolt Solutions is a leading innovator in protected cultivation technologies, offering a complete range of Greenhouses - Structures, Automation, Components and precision accessories for clients across the globe.

Backed by a skilled team of technocrats, engineers, and IT & IoT professionals, and supported by advanced metal-working machinery and in-house design capacity, we deliver reliable, high-quality structures customized to specific needs.

Headquartered in Rajkot, Gujarat—an internationally recognized hub of engineering—Agrolt today stands as a trusted global brand, combining reliability, innovation, and technical expertise in every project.

Established in 2013 as Angel Solutions and incorporated in 2020 as **Agrolt Solutions Pvt. Ltd.**, we have built reputation on R&D, innovation, and engineering excellence. Our smart solutions and consistent quality have positioned us as a preferred partner/ OEM for greenhouse companies in diverse markets.

WHY AGROLT?

Experience

"Agrolt" is constantly pioneering in the sphere of designing, manufacturing and supplying various Protective Cultivation Structures Greenhouse, Environment Control Automation & Simulation Systems, Solar Drying Tunnels, Pack Houses and all other related components. Until end of 2024 we have catered to structures and component cumulatively for over 30 million sqm.

Customer Satisfaction

"Agrolt" takes immense pride in attaining highest level of customer satisfaction by way of maintaining unparalleled standards of quality, durability and reliability, promptness in service and after sales services, consistent upgradation, providing best spare parts, quick responses. These are our working characteristics that make us most preferred vendors for our clients.

Technical Standards & Expertise

"Agrolt" products are designed, manufactured and supplied by always keeping in mind the National & International technical standards, customer requirements, ergonomic attributes, safety factors and ease of use.

Wide Coverage

We have geo-technical strategic tie ups with various companies and experts to assist our clients in the installation, commissioning and maintenance of the projects; like cladding materials manufacturers (polyethylene sheets, polycarbonate sheets, glass glazings, shade nets, insect nets, hail nets), certified boilers manufacturers, seed companies, fertilisers & pesticides manufacturers, irrigation companies, electrical components manufacturers, agronomical experts, labour contractors, etc. This flexibility makes "Agrolt" techno-commercially effective and enables our customers to have 360 degree turn key projection capability.

Quality Certification

As a commitment towards effective management and quality production we've adapted ISO 9001:2010 standards for our way of working.

Philosophy

Providing the products of Best Quality with Prompt Services which stands true to its Value for the Money Spent.





At Agrolt Solutions, we research, innovate, improvise, design, manufacture and supply the various Structures, its Automation needs, Components, and Accessories to meet the requirements of virtually every segment in the domain of Protected Cultivation Technologies & CEA (Controlled Environment Agriculture).



Our manufacturing facility at Rajkot, expanding from **90,000 sq ft** to **5,00,000 sq ft** by **2030** with an aim of "**Make in India, Make for the World**", Globally adaptable Local Solutions

◆ Greenhouses

- Plastic Covered
- Glass Covered
- Nets Covered
- Multi-Span
- Single Span Tunnels
- Naturally Ventilated
- Forced Ventilated
- Research Greenhouses
- Nursery Greenhouses
- Rolling Benches For Nursery
- Mist Chambers
- Shading & Energy Screen Automation
- Rack & Pinion motorised
- Cable & Pulley motorised
- Side screen & Vent motorised

◆ Environment Control Automation & Simulation Systems

- Wetting Pads with Axial Fans
- Air Circulators
- Air Heaters (Combustion & Heat Exchanger)
- Boiler Heating / Radiant Heating
- Anemometer
- Temperature Sensors
- Humidity Sensors
- Rain Sensor
- Weather Vane
- Pyranometer
- Control Stations
- Signal Amplifiers
- Ceres & other GSM modules

◆ Solar Drying Tunnels • Natural Sun light entrapment houses

◆ Accessories

Clamps, Brace Bands, Butterfly Bands, Profile, Sections, Springs, Zig Zag Wire Locks, Wiggle Wires, Curtain Clamps, Side Screen Clamps, Side Screen Roll Up Devices, Curtain Universal Joints, Screen Movement Parts, Rings, Hooks, Screws, Nut, Bolt, Gutters, Rolled Gutters, Pre-formed Gutters, Gutter Down Takes, Turbo Ventilators and Many More!

You name we have it and if we don't have it than we'll customise it for you!



V care for U

Fan Pad GREENHOUSE - FPPH



TECHNICAL SPECIFICATIONS

Product Name	Fan Pad Greenhouse
Roof Type	Dome Roof
Grid	8m x 4m, 9.6m x 4m
Side / Center Height	4.0m / 6.0m, 4.0m / 5.5m, 3.0m / 5.5m.
Side Corridors	2.0m, 2.5m
Side Covering	6mm / 10mm UVS Twin wall Polycarbonate sheet; PolyFilm, Insect Net, Skirting Fabric
Top Covering	6mm / 10mm UVS Twin wall Polycarbonate sheet; 5/7 Layer Smart UVS Polyethylene films.
Second Layer	Inside Sliding Net cover Available.
Trellising System	5mm, 4mm Steel Rope wire with 3mm Nylon wire
Irrigation	Inline Drip Irrigation System, Fogging System Customized Fertigation Unit with Pumping Station

- ☉ Suitable for Tissue culture lab, cultivation of exotic vegetables & leafy greens.
- ☉ Allows for second layer sliding roof for optimum control of temperature, sunlight and humidity.
- ☉ Fan and pad create suitable temperature and humidity conditions.
- ☉ Strong capacity to withstand harsh weather conditions.



Boiler Heating System



Radiant Heating System

HEATING SYSTEM FOR CLIMATE CONTROLLED GREENHOUSE



V care for U

Dome Roof NET HOUSE - DRNH



TECHNICAL SPECIFICATIONS

Product Name	Dome Roof Net house (DRNH).
Roof Type	Dome type
Grid	*6m x 4m , 6m x 6m , 4m x 4m
Side / Center Height	4.0m / 5.5m, 4.5m / 6.0m
Side Corridors	2.0m, 2.5m, 3.0m
Side Covering	Insect Net, Shade Net
Top Covering	Shade Net, Insect Net
Second Layer	Inside Sliding Net cover Available.
Trellising System	5mm, 4mm Steel Rope wire with 3mm Nylon wire
Irrigation	Inline Drip Irrigation System, Fogging System Customized Fertigation Unit with Pumping Station

*India's NHB Guideline

- ⊙ Covered with Shade Nets and it has dome roof.
- ⊙ The structure is easy to be installed and maintained.
- ⊙ Protects crops from Wind, Hot Weather, Insects, Pests, Diseases etc.
- ⊙ Suitable for farming of various vegetable and some flowers.
- ⊙ plant hardening for crops like Capsicum, Tomato, Banana, Papaya etc.

TECHNICAL SPECIFICATIONS

Product Name	Flat Roof Shade Net House (FRSH)
Roof Type	Flat Roof
Grid	6m x 4m, 6m x 6m, 5m x 5m
Side / Center Height	4.0m / 5.5m, 4.5m / 6.0m, 4.5m / 6.5m
Side Corridors	2.0m, 2.5m, 3.0m,
Side Covering	Insect Net, Shade Net, Bird Net
Top Covering	5/7 Layer Smart UVS Polyethylene films
Second Layer	Inside Sliding Net cover Available
Trellising System	5mm, 4mm Steel Rope wire with 3mm Nylon wire
Irrigation	Inline Drip Irrigation System, Fogging System Customized Fertigation Unit with Pumping Station

- ⊙ This is an vastly affordable and best suited design for growing vegetables like tomatoes, capsicum, cucumbers, etc. in warm to hot and humid climatic with relatively less rainfall days in a year.
- ⊙ Areas with high sun irradiation have most demand for this design.
- ⊙ Effective for keeping away pest & diseases
- ⊙ Special side skirting film provides a important measure to retain the greenhouse gases.
- ⊙ Unique connectors based design without welding.
- ⊙ Best ROI & low cost design, easy to build, low maintenance cost & negligible recurring cost.

Flat Roof SHADE NET HOUSE - FRSH





V care for U

Single Span TUNNEL



TECHNICAL SPECIFICATIONS

Product Name	Single Span Tunnel
Roof Type	Dome type
Grid	Span- 8m, 9m, 10m, 12m, 14m / Bay-2.5m, 3m, 4m, & Customize
Side / Center Height	2.0m / 4.5m, 2.5m / 6.0m, 3.0m / 6.5m & Customize
Side Corridors	2.0m / 2.5m
Side Covering	Polyfilm, Insect Net, Shade Net, Bird Net
Top Covering	5/7 Layer Smart UVS Polyethylene films, Skirting Fabric with Insect Net, Rain Protection Net
Irrigation	Inline Drip Irrigation System, Fogging System Customized Fertigation Unit with Pumping Station

- ☑ Suitable for hilly, mountainous, snow & cold climate areas.
- ☑ Useful to grow low height & leafy vegetables and flowers such as Gerbera, Chrysanthemum and Gladiolus.
- ☑ Allows for maximum internal air circulation while maintaining steady temperature and humidity.
- ☑ Vertical development is possible with this design with horticultural crops using technologies such as aeroponics and hydroponics.

TECHNICAL SPECIFICATIONS

Product Name	Single Span Poly Tunnel
Top Vent Type	Single Vent
Grid	8m x 4m / 8 x 3m / 9 x 4m / 9 x 3m / 10 x 4m / 10 x 3m
Side / Center Height	3m, 3.5m, 4m / 6.5m, 8m, 8.5m
Side Corridors	2m / 2.5m
Top Ventilation	0.8m to 1.0m
Side Ventilation	3.5m to 4.0m
Side Covering	Insect Net, Skirting Fabric
Top Covering	5/7 Layer Smart UVS Polyethylene films
Second Layer	Inside Sliding Net cover Available
Trellising System	5mm, 4mm Steel Rope wire with 3mm Nylon wire
Irrigation	Inline Drip Irrigation System, Fogging System Customized Fertigation Unit with Pumping Station

- ☑ Suitable for hilly, mountainous, snow & cold climate areas as well as tropical climate areas.
- ☑ Useful to grow low height & leafy vegetables and flowers such as Gerbera, Chrysanthemum and Gladiolus.
- ☑ Allows for maximum internal air circulation while maintaining steady temperature and humidity.
- ☑ Vertical development is possible with this design with horticultural crops using technologies such as aeroponics and hydroponics.

Single Span NVPT





V care for U

Multi Span TUNNEL



TECHNICAL SPECIFICATIONS

Product Name	High Tunnels
Roof Type	Dome type
Grid	Span- 8m, 9m, 10m, 12m, 14m / Bay-2.5m, 3m, 4m, & Customize
Side / Center Height	2.0m / 4.5m, 2.5m / 6.0m, 3.0m / 6.5m & Customize
Side Corridors	2.0m
Side Covering	Insect Net, Shade Net, Bird Net, Polyfilm
Top Covering	5/7 Layer Smart UVS Polyethylene films, Skirting Fabric with Insect Net, Rain Protection Net
Irrigation	Inline Drip Irrigation System, Fogging System Customized Fertigation Unit with Pumping Station

- ☉ Suitable for Flowers, cultivation of exotic vegetables & leafy greens.
- ☉ control of temperature, sunlight and humidity.
- ☉ Strong capacity to withstand harsh weather conditions.
- ☉ Economical option for covering large areas.

TECHNICAL SPECIFICATIONS

Product Name	Dome Roof Poly house (DRPH)
Roof Type	Dome Roof
Grid	*8m x 4m, 6m x 4m, 6m x 6m, 4m x 4m
Side / Center Height	4.0m / 5.5m, 4.5m / 6.0m, 4.5m / 6.5m
Side Corridors	2.0m, 2.5m, 3.0m,
Side Covering	Insect Net, Shade Net, Bird Net
Top Covering	5/7 Layer Smart UVS Polyethylene films
Second Layer	Inside Sliding Net cover Available
Trellising System	5mm, 4mm Steel Rope wire with 3mm Nylon wire
Irrigation	Inline Drip Irrigation System, Fogging System Customized Fertigation Unit with Pumping Station

*India's NHB Guideline

- ☉ Suitable for Tissue culture lab, cultivation of exotic vegetables & leafy greens.
- ☉ Allows for second layer sliding roof for optimum control of temperature, sunlight and humidity.
- ☉ Strong capacity to withstand harsh weather conditions.
- ☉ Balanced environment with high ventilation during rainy / humidity days.

Dome Roof POLY NET HOUSE - DRPNH





V care for U

Naturally ventilated POLY HOUSE - NVPH



TECHNICAL SPECIFICATIONS

Product Name	Naturally Ventilated Poly house.
Top Vent Type	Single Vent
Grid	8m x 4m / 9.6 x 4m / 11.2 x 4m / 12.8 x 4m / 14.4 x 4m
Side / Center Height	4m, 4.5m, 5m, 5.5m, 6m / 6m, 6.5m, 8m, 8.5m
Side Corridors	2m / 2.5m
Top Ventilation	0.8m to 1.0m
Side Ventilation	3.5m to 4.0m
Side Covering	Insect Net, Skirting Fabric
Top Covering	5/7 Layer Smart UVS Polyethylene films
Second Layer	Inside Sliding Net cover Available for Shade Screen
Trellising System	5mm, 4mm Steel Rope wire with 3mm Nylon wire
Irrigation	Inline Drip Irrigation System, Fogging System Customized Fertigation Unit with Pumping Station

- ☑ Most suitable for tropical & heavy rain fall regions.
- ☑ This structure is suitable for the cultivation of flowers and vegetables.
- ☑ It provides good micro-climate control systems.
- ☑ It has high wind resistance and crop load bearing capacity.

TECHNICAL SPECIFICATIONS

Product Name	Pear Orchard Structure
Available Size	Customize as per Orchard Dimension.
Grid	4m x 10m, 3.5m x 8m, Customize as per Plantation
Center Height	3.0m, 4.0m , 5.0m
Side Corridors	1.5m, 2.0m, 2.5m.
Tracing Number of wire	4 Wire to 14 Wire. Customize available.
Trellising System	3mm, 4mm, 5mm, 6mm, 8mm GI Rope wire with 3mm Nylon wire
Top Covering	Woven Laminated UVS Skirting Fabric, Rain Protect Net
Irrigation	Inline Drip Irrigation System, Fogging System Customized Fertigation Unit with Pumping Station

- ☑ Custom-designed for maximum protection against rain, frost, snow, wind etc. for Pear, Cherry.
- ☑ Excellent shading capacity allowing for even and diffused distribution of light for efficient plant growth and development.
- ☑ Highly recommended for places with frequent rainfall and more sunshine days per annum.

Pear Orchard STRUCTURE





V care for U

Grapes Orchard SLIDING STRUCTURE

TECHNICAL SPECIFICATIONS

Product Name	Sliding Orchard Structure
Available Size	Customize as per Orchard Dimension
Grid	4m x 10m, 3.5m x 8m, Customize as per Plantation
Center Height	3.0m, 4.0m, 5.0m
Tracing Number of wire	4 Wire to 8 Wire. Customize available
Trellising System	3mm, 4mm, 5mm, 6mm, 8mm GI Steal wire with 3mm Nylon wire
Top Covering	Anti-Hail Net, Woven Laminated UVS Skirting Fabric, Rain Protect Net
Irrigation	Inline Drip Irrigation System, Fogging System Customized Fertigation Unit with Pumping Station

- ☉ Custom-designed for maximum protection against rain, frost, snow, wind for Pear, Grapes, kiwi, etc.
- ☉ Excellent shading capacity allowing for even distribution of light for efficient plant growth and development.
- ☉ Highly recommended for places with frequent rainfall and more sunshine days per annum.



TECHNICAL SPECIFICATIONS

Product Name	Apple Orchard Trellising System
Available Size	Customize as per Orchard Dimension.
Grid	4m x 10m , 3.5m x 8m , Customize as per Plantation
Center Height	4.0m, 5.0m, 6.0m.
Side Corridors	1.5m, 2.0m, 2.5m.
Tracing Number of wire	4 Wire to 14 Wire. Customize available.
Trellising System	3mm, 4mm, 5mm, 6mm, 8mm Steal GI wire with 3mm Nylon wire
Top Covering	Anti-Hail Net, Woven Laminated UVS Skirting Fabric, Rain Protect Net
Irrigation	Inline Drip Irrigation System, Fogging System Customized Fertigation Unit with Pumping Station

- ☉ This structure is specially designed for hail-prone apple orchard regions.
- ☉ Very ideal for high density apple cultivation.
- ☉ Robust structure that bears heavy crop load with durable and long-lasting materials.
- ☉ Allows for precision agriculture technology.

Apple ORCHARD STRUCTURE





V care for U

Dragon Fruits ORCHARD STRUCTURE



TECHNICAL SPECIFICATIONS

Product Name	Dragon Fruit Orchard Structure
Available Size	Customize as per Orchard Dimension
Grid	4m x 10m, 3.5m x 8m, Customize as per Plantation
Center Height	3.0m, 4.0m, 5.0m
Tracing Number of wire	4 Wire to 14 Wire, Customize available
Trellising System	3mm, 4mm, 5mm, 6mm, 8mm GI Rope wire with 3mm Nylon wire
Top Covering	Shade Net, Skirting Fabric, Rain Protect Net
Irrigation	Inline Drip Irrigation System, Fogging System Customized Fertigation Unit with Pumping Station

- ⊗ This modern innovative structure is designed purposely for dragon fruit orchards to provide wide range of shading.
- ⊗ Accommodates higher plant density of about 3 times the conventional method while reducing overcrowding.
- ⊗ Protects the fruits against wind and rain damage and scorchy sunlight.

TECHNICAL SPECIFICATIONS

Product Name	Wire Rope Nethouse - (WRNH)
Roof Type	Flat Roof
Grid	8m x 6m / 8 x 4m / 10 x 4m / 6 x 4m / 6 x 6m
Height	4.0m / 5.0m / 6.0m
Side Corridors	1.5m, 2.0m, 2.5m
Side Covering	Insect Net, Shade Net, Bird Net
Top Covering	Insect Net, Shade Net
Second Layer	Inside Sliding Net cover Available.
Trellising System	5mm, 4mm Steel Rope wire with 3mm Nylon wire
Irrigation	Inline Drip Irrigation System, Fogging System Customized Fertigation Unit with Pumping Station

- ⊗ Structure is framed with GI Wire Ropes and Pipes based on tensile strengthening principle.
- ⊗ Most suitable for better production in Hot & Dry conditions.
- ⊗ Suitable for production of Vegetables, Fruits, Raising & Hardening the Nursery/Tissue plants etc.
- ⊗ Also highly suitable for perennial crops like banana.

Wire Rope NET HOUSE (WRNH)





Please get in touch with our projects team for the detailed specifications of the components on this page

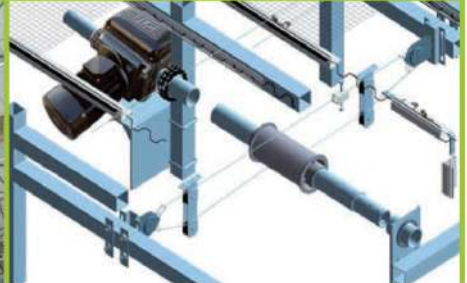
SHADING/ ENERGY SCREEN MOTORIZED



Rack & Pinion Screen System

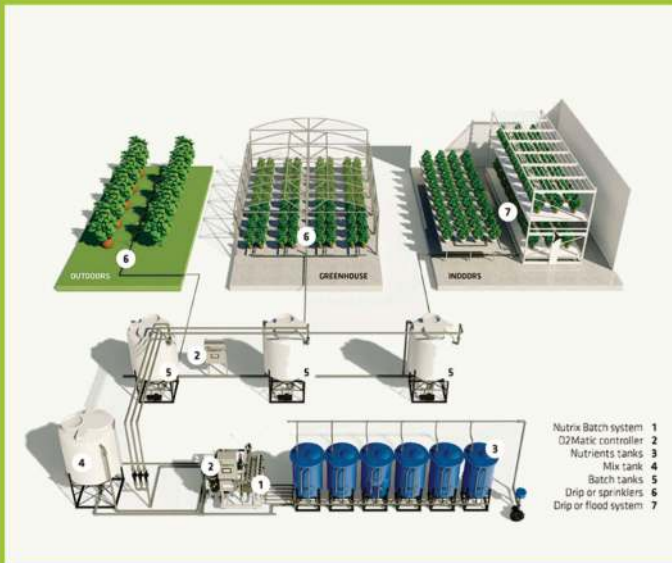


Screen Automation



Cable & Pulley Motorized

AUTOMATION (CUSTOMIZATION AS PER PROJECT)



Irrigation & Fertigation



IOT Based Control Panel



Temperature & Humidity Sensors



Weather Station



POLY/NET FASTENING SYSTEM



Zig Zag Wire Springs
(For Polyfilm or Net Locking)



Poly Coated Springs



Profile Varieties
(Aluminium, Galvalume, GP)



Greenhouse Film
Repair Tape



Anti Flapping Bands

STRUCTURAL PIPE CONNECTORS



Round Pipe Clamps - Full & Half



Square Pipe Clamps

GUTTER / ARCHES BRACKET SYSTEM



5mm Single Plate- RC



5mm Single Plate- SC



Butterfly Plate



5 way Junction Plate

GUTTER COMPONENTS



Industrial Pressed Gutter
(1.50 mm to 2.50mm)



Gutter End Cap



Gutter Spout / Down Take



Gutter Funnel



Gutter Sealant Tape

ROLLING NURSERY BENCH



Welded Wire Mesh Size : 1.2x2mtr, 1.5x4mtr, 1.6x4mtr, 1.8x4mtr
 Bench Size (W x L) : 4'x8', 4'x10', 5'x10', 5'x12', 5.6'x15'
 Total Length : <3.6mtr, according to customers' demand
 Height : 0.6 to 0.7 meter

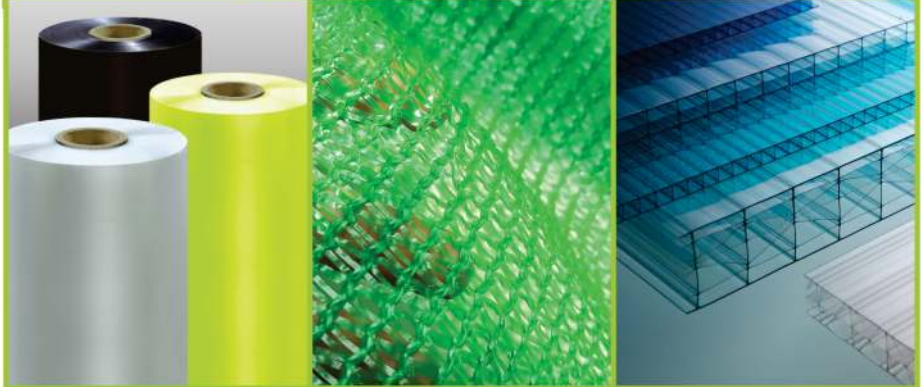


HEATING FAN



Power : 2.5 KW
 Type : Finned Tube Heater
 High - Speed Fan : 2800 RPM
 Coverage : ~80 m³
 Dimension : H320 mm x L440 mm x W320 mm x 10kg

UVS FILMS / NETS / POLYCARBONATE SHEETS



STEEL WIRE ROPE & NET HOUSE COMPONENTS



Shade Net Oval Clip & R Hook



Shade Net Joiner with Small Pulley



3-U Wire Gripper Clamp



Wire Support Clip



Shade Net Stitching pin



Steel Wire Rope Cables



Wire Tightener



D-Clamp



Turn Buckles



I-Bolt

SIDE SCREEN / VENTS OPERATORS



Curtain Roll Up Gear Handle



Curtain Rollup Unit (Chain Pulley)



Universal Joint (HD Gal, Solid Bar Union)



Side Screen / Roof Screen Roll Up Motor



SIDE SCREEN / ROOF ROLL UP AUTOMATION



HVAC/ EXHAUST FANS



Blades Diameter (mm/ inches)	Air Flow (CMH)	Noice Decibels	Input Power (W)	Rated Voltage (V)	Body Height (mm)	Body Width (mm)	Body Length (mm)
500 / 20	18,000	≤70	350	380/220	600	600	320
750 / 30	22,000	≤70	750	380/220	900	900	400
900 / 36	25,000	≤70	750	380/220	1000	1000	400
1250 / 50	44,000	≤70	1100	380/220	1380	1380	400

Power : 1 Phase / 3 Phase

COOLING PADS

Cellulose Evaporative Colling Pads

Material : Craft Paper 95GSM - 105GSM
 Thickness : 100mm / 150mm
 Size : 1200 x 600mm / 1500 x 600mm / 1800 x 600mm / 2000 x 600mm
 Flute Size : 7090, 5090

Evaporative Cooling Pad Frames

Thickness : 100mm / 150mm
 Width : 2000 / 4000mm
 Height : 1200 / 1500 / 1800 / 2000mm
 Aluminum Frame : 100mm = 1.20mm / 150mm = 1.50mm



AIR CIRCULATION FANS



Material : SS Body,
7 leaf Aluminium Blades
 Voltage : 220 v/ 440v
 Frequency : 50 / 60hz
 Motor Power : 350w
 Air Flow : 16900 CFM
 Blade Speed : 1440 RPM
 Air Flow Throughput : 18-22 meter
 Size : 570 x 570 x 400mm
 Power : 1 Phase / 3 Phase



ORCHARD STRUCTURE COMPONENTS



Orchard Cement Pole Clamp



Orchard Round Pole Clamp



Foundation Rod Clamp



Orchard Pole Cap

TRELLISING ACCESSORIES



J-Hook



S-Hook



Stem Clip



W-Hook



Twine



Roller-Hook

SLIDING DOORS



OTHER ACCESSORIES



Curtain Clamp - UVS Plastic



Curtain Clamp - Steel



Anchor Rods



Foundation and Extension Joint



Metal Pulley Roller Bearing Inside



Plastic Pulley Roller Bearing Inside



UVS Ropes



Self Drilling Screws



Nut Bolts (Hot Dip Galvanised)



Polyester Wire



V care for u

Agrolt[®]
Solutions

www.agrolt.com

AGROLT SOLUTIONS PVT. LTD

Reg. Office & Works: Survey No.84, Plot no. 3/4/5, Shining Gate, Shapar Ind. Area,
Rajkot - 360 024, Gujarat, INDIA.

INDIA

Tel: +91 2827 299710 / 11, Mob: +91 90810 47700
Email: info@agrolt.com

KENYA

Tel: +254 786 434 586, +254 792 286 865
Email: nbo@agrolt.com



Brochure



Website



WhatsApp