

The Agra Tech Thermolator



Modified Quonset Greenhouses — The Most Popular, Biggest Selling Greenhouse



"It's like a life-size Erector® set."



www.agra-tech.com



High-Yield, High-Strength Steel Quonsets

The Thermolator is one of our most popular greenhouses. Growers have successfully built more than 3,000 Thermolator greenhouses since 1980. This represents over 10 million square feet of successful growing across America.

Thermo 30'—Quonset-style Thermolator

SPECS:

Thermo 30 Code

Roof Loads

20# frame: 4' O/C

10# frame: 6' O/C

Wind Loads

90mph at 4' O/C

70mph at 6' O/C

Height

Sidewall: 3'6", 6"

Ridge: 14', 11'

Components

Arch: 2-3/8" O.D. x 13ga.

Stubs: 2"x4" hat section x 72"x12ga.

1-7/8" O.D. x 36" x 13ga.

Purlins: 5 runs Z purlins x 18ga.

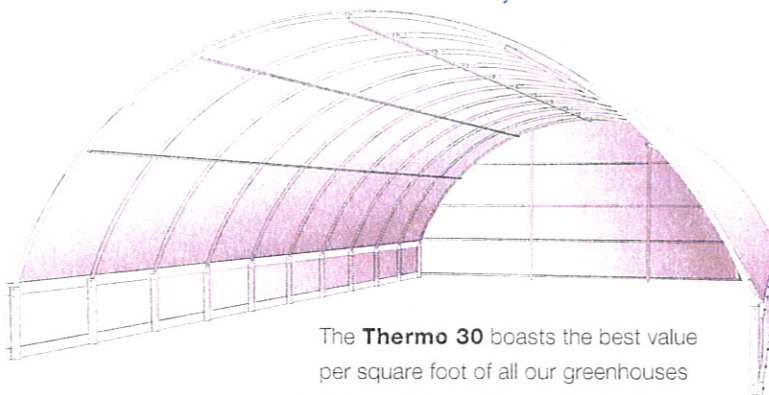
Options

Tie rods: 1-3/8" O.D. x 16ga.

8' clearance in raised house

7' clearance in arch-to-ground

Webs: 1-3/8" x 16ga.



The **Thermo 30** boasts the best value per square foot of all our greenhouses as it can be used for practically all crops in almost all weather conditions and climates. It is available in a heavy or lightweight frame and with a raised sidewall or with arches to the ground.

The **Thermo 30 Code** features a heavy weight frame, complete with signed engineered drawings and calculations to present to your local building department for a building permit.

The **Thermo 30** is our standard unit featuring a lower cost per square foot.

The following features are common to all of our Thermolators—Condensate control purlins help to control interior moisture levels; arches, stubs and columns are manufactured using all galvanized, high-strength, structural steel components (50,000psi yield and 55,000psi tensile strength); all components are shipped cut to length, pre-drilled and punched for easy erection.

Refer to the back of this brochure for options to complete your growing system requirements. Contact your Agra Tech sales engineer for layout, pricing, delivery schedule and shipping costs.

SPECS:

Thermo 30 Standard

Roof and Wind Loads

Frame: 4' or 6' O/C

Non-code

Height

Sidewall: 3'6", 6"

Ridge: 14', 11'

Components

Arch: 1-7/8" O.D. x 16ga.

Stubs: 2-3/8" O.D. x 63" x 13ga.

2-3/8" O.D. x 29" x 13ga.

Purlins: 3 runs Z purlins x 18ga.

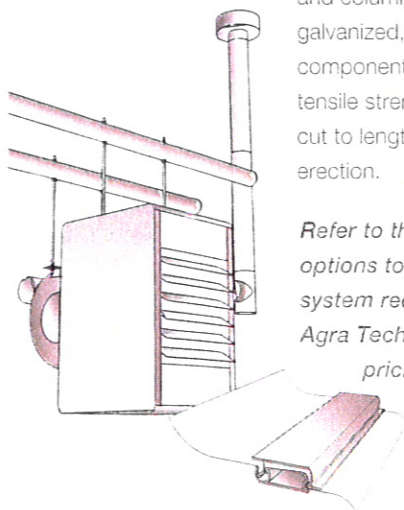
Options

Tie rods: 1-3/8" O.D. x 16ga.

8' clearance in raised house

7' clearance in arch-to-ground

Webs: 1-3/8" x 16ga.



Thermo 35 Plus and Thermo 35—Modified Quonset-style Thermolators

SPECS:

Thermo 35 Plus

Roof Loads

- Frame: 6' O/C
- 4 webs: 20#
- 6 webs: 20# plus crop

Wind Loads

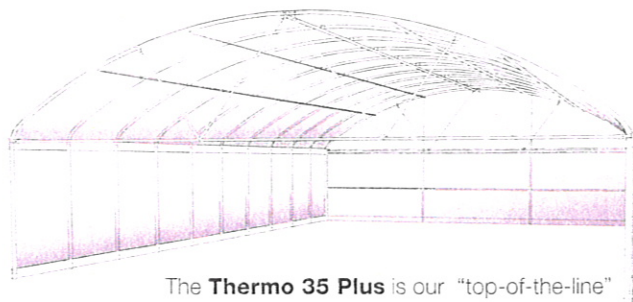
- 80mph

Height

- Sidewall: 8'
- Ridge: 15'

Components

- Arch: 2-3/8" O.D. x 16ga.
- Stubs: 2-7/8" O.D. x 10.5' x 12ga.
- Purlins: 5 runs Z purlins x 18ga.
- Tie rods: 1-5/8" O.D. x 16ga.
- Webs: 1-3/8" O.D. x 16ga.



The **Thermo 35 Plus** is our "top-of-the-line" Thermolator. It will hang a full tomato crop and meet building codes. It ventilates better and holds temperatures more stable. It features trussed arches and an 8' eave height. With 4 webs, a set of signed engineered drawings are included with calculations verifying that it meets building codes to 20# live load and 80mph wind loads. With 6 webs it will also hang a tomato crop.

SPECS:

Thermo 35 Standard

Roof and Wind Loads

- Frame: 4' or 6' O/C
- Non-code

Height

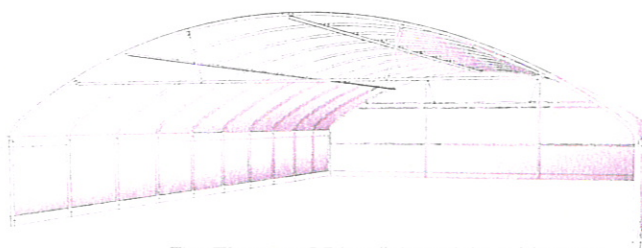
- Sidewall: 5', 6'
- Ridge: 12', 13'

Components

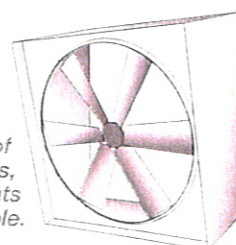
- Arch: 1-7/8" O.D. x 16ga.
- Stubs: 2-3/8" O.D. x 7' x 13ga.
- 2-3/8" O.D. x 8' x 13ga.
- Purlins: 3 runs Z purlins x 18ga.

Options

- Tie rods: 1-3/8" O.D. x 16ga.
- 8' clearance with 5' sidewall
- 9' clearance with 6' sidewall
- Webs: 1-3/8" O.D. x 16ga.



The **Thermo 35** is a light weight, wide span arch offering maximum square feet of ground covered for the dollar. It is for use in non-snow areas. The Thermo 35 is widely used by transplant growers. The 5' or 6' sidewalls allow full use of the span and may be equipped with either roll up or drop down sides for convenient access to crops from both sides.



Exhaust fans, roof glazing and systems, and equipment mounts are readily available.



"We have three Thermolator 35' x 96' structures at our property on Oahu that are used for research. We must have a controlled environment for our work and the Thermolators are perfect. They offer great value for the price."

Mike McClean
Director of Research
Dole Food Company
Oahu, Hawaii



"I have over 100,000 sq. feet of Agra Tech Thermolator greenhouses for growing hanging and bedding plants. While they're all basic structures they're great for our uses. We bought our first Thermolator in 1990 and even though the weather is abusive in the winter with big winds and all the snow that drifts, they keep standing year after year—unlike some other quonset greenhouses down the road. I'll be buying more Thermolators in the future."

Jim Beck
Elk River Greenhouse
Elk River, MN



Quonset Options and Accessories

Agra Tech designs, manufactures, and maintains the industry's largest inventory of accessories for Thermolator quonset greenhouses. From equipment hangers to doors to natural ventilation systems and benches, Agra Tech is your best resource for completing your growing system. Contact an Agra Tech sales engineer with your specific needs—from concept through completion, Agra Tech's service is unequalled.

"We have been purchasing Agra Tech houses since 1979. We have two gutter connected houses plus seven 30' x 144' Thermolator houses.

The first four houses had 4' spacing between the bows because we felt that would be needed in snow country. Since then, we have purchased three additional houses having 6' spacing between bows. These have proven to be satisfactory even in high wind and heavy snow. We feel these are very good houses and will stand up in almost any weather condition."

Paul Dinkins
P&M Garden Services, Inc.
Eagle River, Alaska

Options and Accessories

Agra Lock—The best poly fastener on the market...all aluminum self-locking, self-shading parts hold poly securely with three points of contact for maximum safety. (Patents in US and Canada.)

Roof Glazing—Double poly is recommended. Single poly and many fabrics are available.

Gable Extrusions—Weather tight aluminum, arched. Agra Lock holds roof poly securely. Channel seals roof to corrugated or structured gable glazing.

Gable Frames—Gable frames are pre-fabricated and include 2-3/8" diameter columns, endwall kneebrace, steel girts and glazing accessories.

Equipment Mounts—Cooling pad mounts, heater hangers, fan jets and shutters. Exhaust fan mounts. Doors—sliding or hinged.

Natural Ventilation—Drop walls. Roll-up walls. Rack & Pinion vents for gables—standard inside or outside lifting for placement over cooling pads.

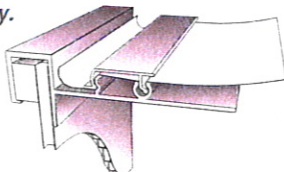
roll-A-roof™—Roof systems available.

Agra Tech Inside Greenhouse Accessories:

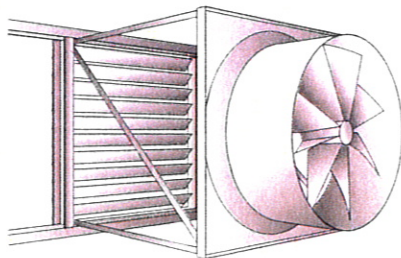
Bench Systems—"T" Rail, Stationary, rolling, expanded metal and ebb & flow.

Heating Systems, Crop-Hanging Systems, and Controls.

Gable extrusions with Agra Lock holds roof poly securely.



Agra Tech offers many ventilation solutions.



Equipment mount packages are available that include all necessary parts to save installation time.



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Easy Construction. Prompt Shipping.

Agra Tech guarantees shipment of each Thermolator within 5 working days from acceptance of your order (except Thermolator 35 Plus). Your Thermolator can be up and working in two to three weeks.