The Agra Tech

Thermolator

Modified Quonset Greenhouses — The Most Popular, Biggest Selling Greenhouse

“...like a life-size Erector® set.”
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.
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.

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**
  - 8’ clearance with 5’ sidewall
  - 9’ clearance with 6’ sidewall

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.

“*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 McCleam
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

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

**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 abb & flow.
  - **Heating Systems, Crop-Hanging Systems, and Controls.**

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

**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.