

sturdi-built

GREENHOUSE MANUFACTURING CO.



GREENHOUSE ACCESSORIES

Sturdi-Built Greenhouse Mfg. Co., 11304 SW Boones Ferry Rd., Portland, OR 97219

Sturdi-Built.com

Effective January 2024

Sturdi-Built Greenhouse Manufacturing Co. has specialized in residential greenhouses for over 60 years. Quality accessories play an important role in successful and enjoyable greenhouse gardening. Call us to discuss your specific greenhouse needs.

We reserve the right to change our prices at any time and to substitute any accessory of equal or greater quality in the event that the original accessory is not available.

Ventilation and Circulation - Page 3

Ventilation provides air exchange for plants and helps prevent greenhouse overheating. Roof vents with automatic openers provide natural, gentle venting, and quiet operation. Exhaust fans help avoid overheating with automated controls. Interior circulation fans provide continuous, 24/7 air movement to strengthen plants and prevent mold and mildew.



Propagation - Page 4

Warm soil means happy plants. Stimulate starts earlier with heat mats and soil warming cables.



Heating and Cooling - Page 5

Heat your greenhouse with electric, natural gas or liquid propane (LP). Electric heaters are easy to install and require no venting. Our moisture resistant thermostats can handle greenhouse conditions.

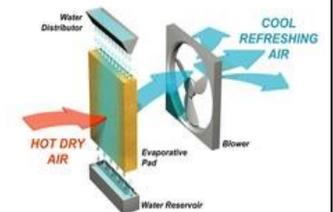
Natural Gas and LP gas heaters are available and often can heat even when there is no power. These heaters require venting through a side wall.



Evaporative Air Coolers - Page 5

Cooling through evaporation is efficient. Evaporative coolers draw hot air through wet pads. Water evaporates from the pads, supplying cool, humid air to your greenhouse.

How EVAPORATIVE COOLING works



Thermometers - Page 4

Thermometers, hygrometers and moisture-resistant thermostats help gardeners monitor what's going on inside the greenhouse.

Humidity and Watering - Page 6

Every greenhouse requires water. Typically, a spigot with a coiled hose and watering wand suffices, though requirements may differ based on the plants you cultivate. Humidity fluctuates with the changing seasons, with warmer weather demanding higher relative humidity and colder weather requiring lower levels.



Often, simply wetting the greenhouse floor is sufficient to maintain adequate humidity. If additional moisture is necessary, consider incorporating humidifying equipment.

Shade Cloth - Page 6

Shading prevents sunburned plants. During sunny weather, greenhouse plants must be protected from sunburn and overheating. Our shade cloth is hemmed with grommets, designed to go on the outside of your greenhouse.

Greenhouse Lighting - Page 7

Sturdi-Built offers complete, ready to use lighting systems, including lamps designed for you to hang, plug in and turn on.



Benches and Shelves - Page 8



Create an arrangement of benches and shelves that will function perfectly for your needs.

AUTOMATIC ROOF VENT OPENERS

Passive solar vent openers are ideal for roof vents. They automatically adjust ventilation according to temperature. No electricity required. The vent starts to open between 60° - 75°F and is fully open about 20°F above the starting temperature.



Operation is completely silent. Designed for hinged vents weighing up to 32 lbs. Power tube warranty is 2 years. One black wind strap included.

BAYLISS MK7-S . . . \$90

BAYLISS MK7-S Triple Spring . . . \$97

Replacement Power Tube . . . \$40

Additional Wind Strap for Windy Conditions . . . \$10

ROOF VENT SCREEN KIT

Keep unwanted pests out of your greenhouse with a roof vent screen kit. Mounted from the inside, it allows vents to operate freely.



Roof Vent Screen Kit . . . \$200

JALOUSIE WINDOW

This louvered window installs easily in greenhouse walls. Provides extra ventilation. Works best in conjunction with roof vents. Includes screen and acrylic for winter.



Jalousie Window . . . \$270

JALOUSIE WINDOW FOR DOOR

Installs in the upper part of your greenhouse door. Provides extra venting without having to open the door. Can be installed in existing greenhouse doors. Specify door size when ordering.



Jalousie Window for Door . . . \$290

AUTOMATIC EXHAUST FAN VENTING SYSTEMS

Vent warm air from your greenhouse to pull in cooler, outside air. Exhaust fans are typically installed in one or both of the gable ends. For approximate CFM requirement, divide total greenhouse cubic foot volume by 1.5. For larger greenhouses, consider two or more fans. For Sturdi-Built greenhouse customers, redwood mounting frames are included.

AC Infinity Airlift Exhaust Fan

Automatically eliminates heat, moisture, odor, and dust. Control the fan with the included digital smart controller or through the AC Infinity app via WiFi to utilize automation capabilities from anywhere throughout the day. Smart controller allows you to program temperature, humidity, fan speed, and more. Includes redwood mounting frame. For air intake, use an intake shutter or a jalousie window in the opposite end to the exhaust fan. 120V.



Exhaust Fan



Intake Shutter

Fan/Size	CFM	Price w/ No Intake Shutter	Price w/ Intake Shutter
10"	630	\$245	\$315
12"	830	\$265	\$345
14"	1510	\$295	\$375
16"	2560	\$345	\$445



Inside View



Outside View

WALL MOUNT, THREE SPEED OSCILLATING FANS

These quiet oscillating fans mount on your greenhouse wall. Fan rotates 90° or can be locked in position. Tilt head to direct air flow up or down. Three speeds. Motor warranted for 1 year. 120V.



- 12" Oscillating Fan . . . \$90**
- 14" Oscillating Fan . . . \$140**
- 16" Oscillating Fan . . . \$190**

PROPAGATION

AC INFINITY SEEDLING HEAT MAT

Engineered to enhance seed starting and germination, boasting an innovative film for quicker warming and gentle, uniform heat distribution. Equipped with controllers offering adjustable heat levels and temperature-triggered on/off activation. Durable and easy to clean. Maintains heat range of 80-87°F. 120V.



T3 10"x21"



T5 20"x21"

- Suncore T3 10" x 21" . . . \$50**
- Suncore T5: 20" x 21" . . . \$60**

FLEX AEROPONIC TOWER GARDEN

Comes with all you need to grow vegetables, herbs, fruits and flowers aeroponically inside or outside your greenhouse. Enough growing space for 20 full-sized plants. Includes Tower Garden, pump, timer, seeds, germination tray, mineral blend, rockwool cubes and pH test kit. Dimensions: 62" x 30" x 30"



- FLEX Tower Garden . . . \$670**
- Optional Light Kit . . . \$325**

THERMOMETER WITH INDOOR HUMIDITY

Displays indoor or outdoor temperature & indoor humidity with large 1 1/8" tall numbers. Memory stores minimum & maximum temperature and humidity readings. Includes 1 AAA battery. Ten foot long weatherproof sensor wire for outdoor temperature.



Digital Thermometer . . . \$25

THERMOPRO WIRELESS, REMOTE SENSING THERMOMETER-HYGROMETER (TP63A)

Monitors and displays digital indoor and outdoor temperatures, and relative humidity. Includes base station and one remote sensor. Put a remote sensor in your greenhouse and the base station in your house. Uses a cold-resistant rechargeable lithium battery. Wireless, simple to set up. Displays degrees in F or C. 200 foot range. Large digital LCD readout. Supports multiple sensors.



Wireless Thermometer/Hygrometer with remote sensor . . . \$32

THERMOPRO BLUETOOTH WIRELESS THERMOMETER-HYGROMETER (TP60)

Conveniently monitor indoor and outdoor temperatures and relative humidity with ThermoPro Sensor app. 260 foot Bluetooth range to send data directly to your phone. Set preset temp and humidity ranges; the app will immediately notify you if your temp or humidity falls out of the set range. Comes with easy-to-read 3.5" touch-sensitive LCD display. Uses two AAA batteries (included). Supports multiple sensors.



Bluetooth Wireless Thermometer/Hygrometer . . . \$20

ELECTRIC HEATERS

120V Bio Green Palma Heater . . . \$180

Splash proof, includes digital thermostat, 2,000W heating output, 95 CFM air circulation. Economical to operate. Suitable for smaller greenhouses.



Bio Green Palma

240V Bio Green Phoenix Heater . . . \$320

Splash proof, 2,800W heating output. 270 CFM air circulation. Comes with built-in thermostat. Designed to be floor-standing or hanging. Fan setting perfect for increased circulation in summer months. Suitable for medium-sized greenhouses.



Bio Green Phoenix

240V King Heater, 3,800W or 4,750W . . . \$700

A rugged heater that moves air efficiently. Has a cast iron motor, aluminum fan blade and built-in thermostat. Automatic shutoff in case of overheating. Durable finish. Available with 3,800W (20amp) or 4,750W (30amp) versions. Please specify when ordering. Suitable for medium-sized greenhouses.



King 240V

EMPIRE DIRECT VENT GAS HEATERS

Great for larger greenhouse heating. Non-Electric; heats even if power is lost. Dependable pilot light ignition system. Space saving wall mount design. Vents through wall.



Specify LP or Natural Gas

Model	BTU Output	Dimensions WxHxD	Price
DV-210	7,000	16 1/4" x 21 3/8" x 9 3/8"	\$1,200
DV-215	10,500	20 1/4" x 24 7/8" x 9 3/8"	\$1,365
DV-25	17,500	37" x 27 3/4" x 11 1/2"	\$1,625
DV-35	24,500	37" x 27 3/4" x 11 1/2"	\$1,800



Optional thermostat may be used for better temperature control in DV-210 and DV-215. DV-25 and DV-35 come with built-in thermostats.

Thermostat for DV-210/DV-215 . . . \$40

EVAPORATIVE AIR COOLERS

Add humidity to your greenhouse. Installed just outside the greenhouse, cool air is ducted in through an opening framed in the base wall or greenhouse wall. Attractive, adjustable, interior grille (plastic or metal depending on model). Durable finish combines the strength of metal with an epoxy coating.



Covers (sq ft)	Airflow	HP	Price
400 to 600	2,800 cfm	1/8	\$1,000
600 to 1,400	3,800 cfm	1/3	\$1,100
1,400	4,200 cfm	1/3	\$1,700
1,200 to 1,600	4,700 cfm	1/2	\$1,800

Cooling Thermostat with pre-wired cord . . . \$150

WATERING WAND & RECOIL HOSE

Watering and misting wand with slip resistant handle and easy on/off hand trigger. The 16" wand's nozzle has 8 adjustable watering patterns: jet, angled, full, soaker, mist, flat, cone and shower. 24" wand's shower head has 660 holes, perfect for delicate seedbeds and flowerbeds. Includes a 25 ft. recoil hose for easy storage. Hose has all-brass garden hose fittings. Lightweight, durable and easy-to-use. Swivel fittings on both ends prevent twisting and kinking. Perfect for garden and greenhouse use.



16" Watering Wand w/ 25 ft. Recoil Hose. . . \$80

24" Watering Wand w/ 25 ft. Recoil Hose. . . \$90

AC INFINITY PLANT HUMIDIFIER

Perfect for dry climates or tropical plants to prevent wilting, dehydration, and stress. Smart controls and targeted vapor delivery ensure ideal humidity levels. Specially sealed for enhanced water resistance, it boasts a long operational lifespan. The onboard controller features humidity triggering, plus timer programming for precision. Connect to the UIS™ platform for dynamic climate control via the AC Infinity app. Designed with growers in mind, it includes elbow and five-way nozzles for optimal moisture distribution. 120V.



Cloudforge T3



Cloudforge T7

Cloudforge T3 4.5 Liter . . . \$50

Cloudforge T7 15 Liter . . . \$150

GREENHOUSE SHADE CLOTH

Made of long lasting polyethylene, shade cloth provides protection during hot, sunny days. Easy to attach over the greenhouse roof and/or walls. Black and white colors available. Offered in any size 3' to 20' wide up to 30' long. All edges are factory hemmed and grommeted for easy installation and seasonal removal. Specify density and coverage areas when ordering.



BLACK SHADE CLOTH

Shade Density	Price*
47%	\$1.25/sq. ft.
55%	\$1.30/sq. ft.
63%	\$1.35/sq. ft.
73%	\$1.40/sq. ft.
80%	\$1.95/sq. ft.

*Approximate square foot cost for rectangular pieces. Custom sizes & shapes extra. There is a \$50 minimum order for shade cloth.

WHITE SHADE CLOTH

Shade Density	Price*
50%	\$1.30/sq. ft.



Sturdi-Built offers complete, ready-to-use lighting systems, including lamps designed for you to hang, plug in and turn on. If you need a more custom solution with higher power options, please call us.

Sun Blaze T5 High Output Fluorescent Fixture

High Output T5 fluorescent fixtures put out 92.6 lumens per watt, far more than traditional fluorescent bulbs. T5s are excellent for starting seeds, cuttings and full term growth. Available in blue and red spectrums. Cool burning, they can be placed close to plants.

- ◆ 95% reflective aluminum reflector- light output is 300% higher than a lamp with no reflector
- ◆ 12 ft power cord; Fixtures may be daisy-chained together
- ◆ 5 year factory warranty on fixture
- ◆ Wire cable hangers-can hang vertically or horizontally
- ◆ Comes standard with Spectralux 6500°K (blue) lamps (3000°K (red) lamps may be purchased separately)
- ◆ Also available in 8-bulb widths (call for prices)

- Optional "red" Spectralux lamps: \$8 ea. -2ft, \$12 ea. - 4ft.
- Optional T5 White 5,500°K 4ft White LED replaces T5 fluorescent bulbs - \$35.00



Sun Blaze T5-22	2ft-2 lamp	\$140
Sun Blaze T5-24	2ft-4 lamp	\$160
Sun Blaze T5-42	4ft-2 lamp	\$195
Sun Blaze T5-44	4ft-4 lamp	\$260

SolarSystem 275 by California Lightworks - 200 Watt LED Grow Light

LED (Light Emitting Diode) technology can outperform traditional grow lights. LED grow lights target the correct parts of the light spectrum at the right intensity, targeting the light spectrum where absorption by plants is highest. We recommend the SolarSystem 275 as a good all-purpose light with spectrums to encourage both vegetative growth and flowers. The light it emits is a pink/purple color. Consumes up to 200 Watts. Lights a 5' x 5' vegetative area and 3' x 3' bloom area. California Lightworks designs and manufactures products in the USA.



SolarSystem 275 . . . \$390

SolarXtreme 500 by California Lightworks - 200-800 Watt LED Grow Light

Features CA Lightwork's exclusive Optigrow® light spectrum which offers the best results for all phases of growth in a single fixture. Optigrow® has been specially formulated and tested to give the best results in while offering full power for bloom and high yields. Consumes from 200 to 800 watts. Covers a 4 x 4 foot area.



SolarXtreme 500 . . . \$400

SolarSystem 550 by California Lightworks - 0-400 Watt LED Grow Light

The SolarSystem 550 LED grow light system offers programmable spectrum control over multiple wavelengths. It operates at a frequency of 50-60 Hz and draws a maximum current of 3.3A @ 120 V, 1.65 A @ 240 V. Power consumption ranges from 0-400 W. Covers bloom area of 4' x 4' and a vegetative coverage of 6' x 6'. Perfect as a single light or use several lights to cover a larger area underneath benches.



SolarSystem 550 . . . \$650

SolarSystem 1100 by California Lightworks - 0-800 Watt LED Grow Light

Lightweight and powerful, the SolarSystem 1100 is capable of replacing a 1000 watt HPS system. Can be used for veg or bloom. Fully programmable spectrum control. Covers a 5' x 5' bloom area or an 8' x 8' vegetative area.



SolarSystem 1100 . . . \$1,275

REDWOOD BENCHES

These redwood benches are built to your needs and provided ready for you to assemble. Available 18", 32", 36" high. Made with construction grade Clear All-Heart Redwood.



	Width	Up to 6' long	Between 6' and 8' Long
1-Tier	24" & 27"	\$300	\$360
	32"	\$330	\$400
	36"	\$340	\$420
2-Tier	24" & 27"	\$390	\$480
	32"	\$460	\$570
	36"	\$480	\$580

When ordering benches...

- Custom bench lengths are available
- Use inside or outside of your greenhouse
- Use Soil Bench Tops to transform your soil and potting bench into a 1-Tier bench.
- Add a drop-in sink in your greenhouse to clean pots and tools; order a 1-tier bench and ask for extra top supports

Due to size and weight, extra shipping charges apply.

WALL SHELVES

Attractive and strong redwood shelves made of top quality redwood. Shelves are 11" wide. Shelves cannot be full length of the greenhouse, they must stop at least one bay from the corner.



Width	Length			
	5'	6'	7'	8'
11"	\$135	\$140	\$150	\$160

INTERIOR BOARDWALK

Instead of using bricks or pavers in the center of your greenhouse, use our boardwalk to give your feet a rest with the natural flex of wood. Made with construction grade Clear All-Heart Redwood. Size dependent on width of door.



- 24" wide . . . \$55/ linear ft.**
- 30" wide . . . \$64/ linear ft.**
- 35" wide . . . \$73/ linear ft.**

SOIL AND POTTING BENCHES

Bring your raised bed gardening inside the greenhouse by using our 8" deep soil benches. Perfect for potting, propagating, and shallow root plants. Available in 32" and 36" heights. Custom lengths available. Made with construction grade Clear All-Heart Redwood.



Width	4'	6'	8'
24" & 27 1/2"	\$370	\$400	\$490
32"	\$390	\$420	\$520
37"	\$400	\$430	\$540

SOIL BENCH TOPS FOR SOIL BENCHES

Make your soil bench more versatile with these soil bench tops. When your soil bench is not being used, convert it to a 1-Tier bench with these toppers.



Offered 24", 27 1/2", 32" and 37" wide. Prices range from \$44 to \$170 per top.

SOIL WARMING CABLES FOR SOIL BENCHES

Automatic cables for warming of soil temperature. Comes with built-in thermostat preset to 70°F. Ready to plug into any 120 volt outlet. Use with your soil bench.

Length	Area to heat	Watts	Price
12'	3 sq. ft.	84	\$45
24'	6 sq. ft.	126	\$45
48'	12 sq. ft.	168	\$50



RIDGE SCALLOPS AND FINIALS

Dress up your greenhouse with our handmade scallop and finial. A nice addition to any freestanding greenhouse and a great look for your garden!



- Ridge Scallop . . . \$24/ft.**
- Finial with Base . . . \$270 each**