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## **Pricing and Descriptions Bato Bucket Tomato & Vine Crops Production Systems**



# PRICING AND DESCRIPTIONS

## Tomato Production - Gutter Connect Unit Freestanding Unit—Dutch Bucket System



Our greenhouses are designed for most areas of the country where snowfall occurs and feature high strength galvanized structural steel tubing. For areas of extremely high snow loads, we can modify your greenhouse to accommodate most loadings. Each CropKing unit includes the following components with the equipment sized according to normal design temperatures for the specific area in which the unit will be operated. Engineering specifications are available upon request.

<p><b>1. GREENHOUSE STRUCTURE</b> - Cropking's greenhouse frames are made of galvanized steel.  <b>FREESTANDING UNIT (30')</b> - Gothic shape with a peak in the center for higher strength in snow load areas (15 lb snow load). It is rated for a 80 MPH wind load. This unit has arches on 4' spacing with ground stakes, couplers, five purlins, wind braces, connectors, hardware and 2x4 end wall brackets for attaching the end wall studs. Black vapor barrier, embossed steel clad entrance door with aluminum casing with blueprints included.  <b>GUTTER CONNECT UNIT</b> - Frame of galvanized structural steel, <b>special 10' high side walls for tomato production</b> with extruded aluminum gutter, column posts on 8' centers, bows on 4' centers, three purlins, wind braces, connecting hardware, also includes QuickLock poly lock for attaching covers to gutters. Embossed steel clad entrance door with aluminum casing included (one door for up to 4 bays). Black vapor barrier with blueprints included. Rated for a 20 lb snow load and 90 MPH wind load.</p> <p><b>2. GREENHOUSE COVERING</b>  Includes two layers of 4 year greenhouse film with an air inflation fan to provide an insulating layer of air between the two covers. Aluminum cover locks for cover attachment on the end arches and the perimeter. For the cooling end wall (typically the south end) Cropking includes 8MM Solar grade polycarbonate with the necessary "H" and "U" channel and Tek screw fasteners. The North end wall covering is not included and we recommend that this wall be insulated and sided with the customer's choice of material.</p> <p><b>3. COOLING SYSTEM</b>  CropKing uses the fan and pad cooling method. A Glacier Cor Evaporative Wet Wall Pad, including self-contained water distribution system (no sump tank needed) is on the south end of the house. The cooled air is pulled through the house and is exhausted on the North end via American Coolair exhaust fans (2) per bay or unit including slant wall housing, fan guards, aluminum shutters, motors and necessary hardware.</p> <p><b>4. POWER VENT DOOR</b>  When the fans switch on an automatic vent door with aluminum extruded framing, gear driven motor with limit switch opens on the South end of the house. It is covered with polycarbonate and included the related hardware. The opening and closing of Power Vent door controlled by the iGrow 1400 environmental control system.</p> <p><b>5. AIR CIRCULATION SYSTEM</b>  Jet fan system (one per unit) with motorized intake shutter, housing, heat inlet kit, and hardware. Pre-punched poly air tube runs the length of the house. Support wire and tube hangers are included.</p> <p><b>6. OVERHEAD UNIT HEATERS</b>  Each bay or unit includes two Modine PDP High Efficiency unit heaters (10 year limited warranty) with 180 degree rotating power exhauster and aluminized steel heat exchanger and burners. Galvanized steel heater hangers are included.</p> <p><b>7. COMPUTERIZED ENVIRONMENTAL CONTROLS</b>  iGrow 1400 control system with on screen programming, power supply, 12 outputs, 12 LED status display indicators, temperature and humidity sensor. Unit is mounted on painted plywood, pre-wired to the electrical panel. The iGrow offers accurate operation of the cooling system, vents irrigation, CO2 and lighting. With the addition of "slave units" the iGrow can be expanded allowing for separate environmental zone controls. For an additional \$1095.00 a remote monitoring and programming software package allows the iGrow to be attached to a host computer. From the host computer, is it possible to store and download historical and real time data as well as make programming changes. (See * iGrow Remote Access Software under options below)</p> <p><b>8. GROWER TECH SERVICE PROGRAM</b>  Grower Manual, Construction manual and blueprints, 2 admissions to CropKing's Grower Training Workshop and Conference, Grower Training Workshop on DVD, Advanced Cultural Practices on DVD and Advanced Fruit Load Management on DVD plus unlimited Tech Support (phone and on-line).</p>	<p><b>9. ELECTRICAL PANEL</b>  For ease of installation, Cropking supplies a pre-wired electrical panel tailored to the greenhouse. The panel includes 200 amp-240 volt, single phase, 60HZ, Main Breaker Panel box with breakers, relay control panel, control relay, labeled terminal strip equipment connections, GFI receptacle, duplex receptacle mounted on a painted plywood board. The iGrow is programmed and mounted to the panel board for ease of start-up. <i>Note: Please check with the local electric codes. Some codes require a UL listed panel and are available for an additional cost and are quoted on a per project basis.</i></p> <p><b>10. DUTCH BUCKET—NUTRIENT FEED SYSTEM</b>  <b>Triple Injector System:</b> (pre-assembled, mounted and tested), three concentrate tanks, mixing tank, pressure gauge, solenoid valve, plumbing kit and pump.  <b>Nutrition Delivery System:</b> Main nutrient feed header, T connectors for feed lines, CNL drip emitters, plugs, stakes, feeder tubes, punch, fittings and hardware. Dutch Bucket system includes buckets, drain ells, and pre-drilled drain pipe and fittings.</p> <p><b>11. PLANT SUPPORT SYSTEM</b>  Necessary for the support of vine crops. It includes Plant support posts, wire support cables, cable clamps, eyebolts and hardware.</p> <p><b>12. TESTING AND MISC. EQUIPMENT</b>  Myron AG-5 Conductivity DS Meter, TDS Conductivity Standard (1/2 pint) Fisher pH Test Kit, Sensaphone Model 1104, Sensaphone Remote Temperature Sensor, Nutrient Mixing Pump, Mini-Max Thermometer (2), tomato Pollinator with 6V battery and charger, pocket sling psychrometer.</p> <p><b>13. FLOOR HEATING SYSTEM</b>  Hot water floor heating system with a RayPak "R" Hi-Delta Boiler™ high efficiency (85% seasonal), low mass copper fin boiler with separated combustion package, pre-assembled primary boiler loop with boiler circulation pump. Includes a boiler performance package, air and water controls, boiler venting package, safety controls and gauges, system matched step-down gas regulator, pipe thermometers with gauges and water treatment for charging the system. Optional 4-way mixing valve available to maximize efficiency and extend life of the boiler.</p> <p><b>14. CO2 ENRICHMENT AND CONTROL SYSTEM</b>  Johnson CO2 generator, one per unit electronic remote CO2 monitor with control package pre-wired and programmed into the iGrow 1400 environmental controller.</p> <p><b>15. SHADE CLOTH</b>  40% white exterior shade cloth including cable tie down kit and shade cloth quick clips. Note: 50% white shade cloth is available at additional cost for deep south applications.</p> <p><b>16. INSECT EXCLUSION SYSTEM</b>  Air inlet insect screen includes an 8' greenhouse framing extension, No-Thrip screening, aluminum screen lock and access door. Also includes a second entrance door and motorized air curtain to turn a customer supplied head house into an air-locked greenhouse entry corridor.</p> <p><b>17. GROWING SUPPLIES</b>  Approximately one crop year supply of hydroponic fertilizer, AO36/40 1.5 inch Rockwood Propagation Cubes, Perlite growing medium, greenhouse hydroponic tomato seeds, Reelenz Plant Layering System, seedling propagation trays, Propagation mats and thermostats, tomato vine clips, Tomato truss hooks, yearly subscription to Mycostop and bumblebee hives, Greenshield disinfectant and insect sticky strips.</p>
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### Price Summary

Item #	DESCRIPTION	FREE STANDING 30x128 870 Spaces	2 BAY—44X128 1,440 Spaces	4 BAY—88X128 2,880 Spaces	6 BAY—132X128 4,320 Spaces	8 BAY—176X128 5,760 Spaces	16 BAY-352X128 11,520 Spaces
1-8	Greenhouse Package	\$ 28,188.42	\$ 52,901.45	\$ 92,522.11	\$ 129,791.76	\$ 169,440.61	\$ 329,871.22
9	Electrical Panel	1,572.48	1,856.40	2,757.55	3,253.74	4,668.18	9,336.37
10	Dutch Bucket /Nutrient Feed System	8,029.00	9,722.24	14,998.07	21,010.98	26,281.81	48,827.55
11	Plant Support System	2,315.14	2,239.16	4,471.32	6,703.47	8,935.64	17,864.28
12	Testing/Misc. Equipment	1,216.01	1,216.01	1,216.01	1,216.01	1,216.01	2,432.02
<b>GROWING PACKAGE TOTAL:</b>		<b>\$ 41,321.05</b>	<b>\$ 67,935.26</b>	<b>\$ 115,965.06</b>	<b>\$ 140,975.96</b>	<b>\$ 210,542.25</b>	<b>\$ 408,331.44</b>
<b>OPTIONS:</b>							
13	Floor Heating System	10,800.00	13,490.00	21,130.49	27,280.00	42,122.99	84,245.98
14	CO2 Enrichment/Control Sys.	1,163.63	1,773.62	3,055.62	4,337.62	5,619.62	11,239.25
15	Shade Cloth System	957.43	1,984.17	3,329.20	4,674.23	6,026.26	11,413.38
16	Insect Exclusion System	2,878.50	4,979.59	7,771.44	10,596.59	13,403.20	24,637.20
17	Growing Supplies	7,824.84	10,904.19	20,326.37	29,177.01	38,560.58	75,277.33
*	iGrow Remote Access Software	**1095.00	1095.00	1095.00	1095.00	1095.00	1095.00



#### ORDERING INFORMATION (PRICES AND SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE)

Additional Items not provided by CropKing are necessary to complete your package. See list of items required for local purchase. Please request this list if you have not already received it. Construction Manual is made available after receipt of deposit and an order has been placed. This pricing is subject to CropKing's standard terms and Conditions of Sale that is made part of a Sales Contract, should a purchase take place. Please request a copy of these terms and Conditions before sending a deposit or placing an order. Allow 3-6 weeks for shipment of a complete package. The framework and materials necessary to begin construction may be shipped sooner if desired at additional freight charge. Please contact us if you require a closer estimate of the shipping dates. Terms: all items are F.O.B., Lodi, Ohio, or origin of manufacture. 1/2 deposit is required with order and remaining half due prior to shipment.