

## About Homesol

Ross Elliot and his wife Kathryn are driven by a personal and professional commitment to sustainable living. In 2010, they began construction on the net-zero LEED Platinum LivelyUp Centre for Sustainable Living on their property in the Lanark Highlands of Eastern Ontario. An avid horticulturalist, Kathryn grows food and flowers in the Homesol Bubble Greenhouse. Set to open in 2012, the Centre will also feature a café, forest gardens, maple syrup production, vineyard, community space and sustainable living and building courses.



*Ross Elliott, President of Homesol*

Founded by the Elliots in 1999, Homesol Building Solutions and its team's collective zest for low-carbon living has established the company as the real deal in the world of energy efficiency. Ross has over 25 years of experience as a licensed energy auditor and contractor, and the Homesol team has completed thousands of energy evaluations and energy modeling projects throughout North America.

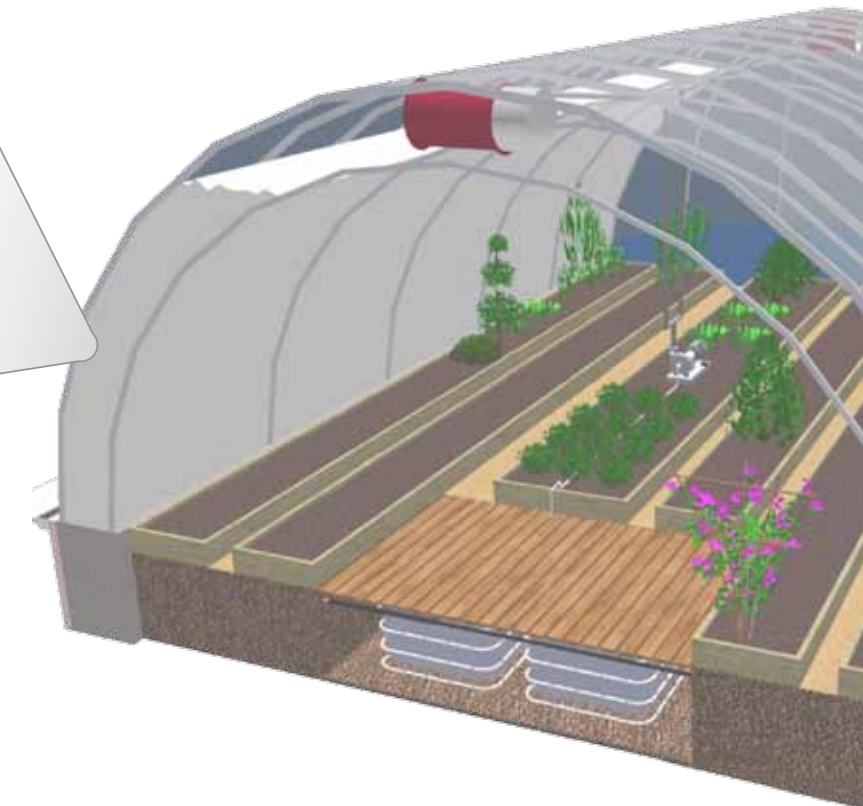
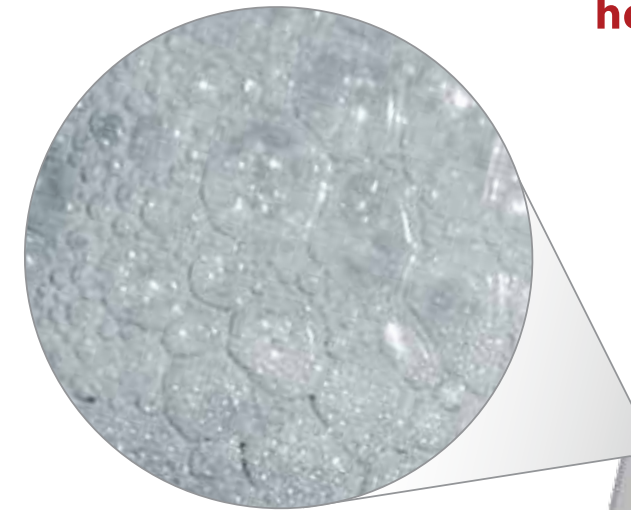
### Contact us

Homesol Building Solutions

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## Homesol Bubble Greenhouse plans— sustainable food for extreme climates

The Homesol Bubble Greenhouse operates at temperatures below -30°C and as high as +30°C. Its excellent bubble insulation properties allow you to grow your own sustainable food year-round in the world's most extreme climates.

**Order your Homesol Bubble  
Greenhouse plans today!**

# The Homesol Bubble Greenhouse

Fresh, unprocessed, locally-grown produce should be at the heart of a sustainable food system, yet the food for typical North American meals often travel thousands of kilometers from producer to market, consuming vast quantities of fossil fuels in the process.

In extreme climates, traditional greenhouses also consume precious resources and add to the earth's environmental stress. In winter, their low thermal resistance requires fossil-fuel or electric heat.

And in summer, daytime overheating is a common problem, with excess solar gain deflected rather than stored for cooler periods.

## What if there was a better, low-energy greenhouse available?

The Homesol Bubble Greenhouse is a 'greenhouse within a greenhouse'. A cavity between its two plastic layers is filled with the perfect blend of soap bubbles using two fans.

In summer, the bubbles fill the south side of the greenhouse, providing insulation and shade against the sun's rays, while capturing thermal energy in the water tank heat sink to moderate greenhouse temperatures overnight.

In the winter, the bubbles fill the north side, reflecting light inwards and collecting thermal energy into the heat sink to warm the greenhouse. The Homesol Bubble Greenhouse has been successfully tested below -30°C and as high as +30°C with no crop damage.

At a cost of \$20,000-\$40,000 to build, this 1,500 square foot greenhouse is worth the added cost savings. The Homesol Bubble Greenhouse uses between 50 and 80 percent less energy than a traditional greenhouse. Energy costs can be as low as \$100 per year.

## To purchase Homesol's Homesol Bubble Greenhouse plans, please visit:

[www.homesol.ca/plansnow](http://www.homesol.ca/plansnow)

## Quick facts:

- Digital PDF plans cost \$250
- Mailed plans cost \$350
- Mailed plans with one hour tech support cost \$500
- Purchase additional tech support at \$300/hour
- Purchase 5 gallons of soap bubble concentrate (makes 600 gallons of solution) for \$250 + shipping
- \$20,000-\$40,000 to build
- Very low yearly electricity/heating requirements
- Works down to -30°C in winter and up to +30°C in summer

"The soap bubble-insulated greenhouse is a technology that may be used to lengthen our short Yukon growing season without having to rely solely on wood or fossil fuel heat to keep the greenhouse warm during the winter months."  
Canadian Organic Growers Yukon Chapter



### From top right:

Greenhouse circular addition frame. The end additions provide storage, potting room and a thermal barrier  
Interior with support beams, raised garden beds, sand paths, and wall  
Bubble fan and dual-frame structure of the bubble greenhouse.

Large 3D diagram shows the dual frame structure, fans, entrances and raised beds

