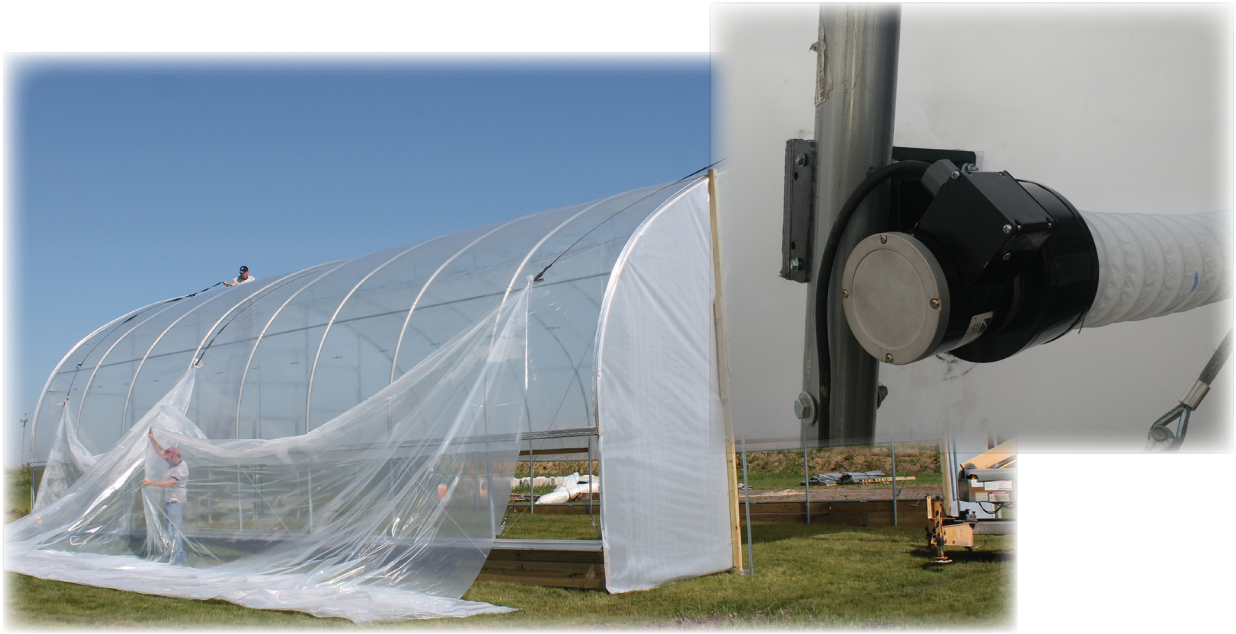
GROWspan
greenhouse structures

GrowSpan™ Series 550
Double Film Inflation Kit

30' Wide



Actual greenhouse may differ from that shown in picture.

STK#	Description
119709	30' x 49' 2"
118769	30' x 72' 2"
118770	30' x 98' 5"

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WARNING: Cancer and Reproductive Toxicity - P65Warnings.ca.gov



THE FILM INCLUDED WITH THIS KIT IS A SPECIAL IR/AC FILM AND MUST BE INSTALLED UNDERNEATH THE STANDARD POLY FILM INCLUDED WITH THE GREENHOUSE.

IF INSTALLING AT THE SAME TIME AS THE GREENHOUSE, VERIFY THAT THE IR/AC FILM INCLUDED IN THIS KIT IS INSTALLED BEFORE THE FILM INCLUDED WITH THE GREENHOUSE.

IF THIS KIT WAS PURCHASED AND IS BEING INSTALLED RETROACTIVELY, IT IS VERY IMPORTANT TO REMOVE THE FILM FROM THE GREENHOUSE FIRST. REMOVE THE SPRING WIRE HOLDING THE GREENHOUSE FILM IN PLACE FROM THE SPRING CHANNEL, AND SET FILM ASIDE.

CONTINUE ON THE FOLLOWING PAGE.

Parts Identification

The following will help identify parts used to install the double film inflation system. Part numbers are identified in the Bill of Materials provided with purchased kit. Reference images are present in instruction diagrams and photos.

The table below provides the description of parts shown in the connection details diagrams for this greenhouse. Use this table to determine where parts are needed. Quantities are often noted in diagrams and in the Bill of Materials.

Part ID for Instructions	Part Description	Key Word(s)	Where Used	Manual Section	Reference Image (may not match exactly)
A	48' WIDE GREENHOUSE EVO IR/AC FILM (*cut to length of shelter + 4'*)	IR/AC film	IR/AC film is to cover the roof section of the shelter, and is to be installed under the standard EVO film of the double film system.	"*IR/AC Film Cover Installation*"	
B	0.09" x 78" FLEXIBLE WIRE BENT IN A TRAPEZOIDAL WAVE PATTERN	Spring wire	Spring wire is used to secure the IR/AC film to the greenhouse structure.	*"IR/AC Film Cover Installation", "Double Film Cover Installation"*	
C	HIGH CAPACITY INFLATION BLOWER SYSTEM KIT	Inflation kit	Inflation blower kits are installed after the inner IR/AC film layer, but before the outer standard film layer. Kits are installed in greenhouse corners opposite eachother.	*"Inflation Blower System Kit"*	
D	4" x 108' PREMIUM GREENHOUSE FILM REPAIR TAPE	Film repair tape	Film repair tape is use to mend rips or cuts in the greenhouse film both during the installation process, and after install per needed maintenance	(Wherever/whenever needed during and after install)	

IR/AC Film Cover Installation

INSTALL IR/AC FILM COVER

Gather the parts: IR/AC film (part **A**) and spring wire (part **B**); Ropes long enough to reach over the frame (provided by customer).

WARNING: To prevent damage to the cover and to prevent serious personal injury, DO NOT attempt to install the main cover on windy or stormy days.

Complete these steps:

1. Unfold and/or unroll IR/AC film (part **A**) and position along the base of one side of the building, as shown below.



ATTENTION: Greenhouse framing and film shown in photos may differ from actual purchased framing and film. All installation applications are the same. Adjust accordingly.

VERY IMPORTANT: When installed, orientation of the IR/AC film (part **A**) matters! Film has writing on one side only. Ensure that film is positioned in a way that when it is pulled up and over the top of the shelter frame, the writing is towards the inside and it can be seen when standing inside the greenhouse. If the writing can be read from the outside of the greenhouse, it is oriented incorrectly.

2. Along the edge, clamp self-locking, duck-billed pliers to the IR/AC film (part **A**) and tie ropes or straps to the pliers.

   NOTE: The ropes or straps must reach over the top of the building to the other side. The number of ropes depends on building length; use additional ropes spaced even throughout the length to prevent tearing the main cover when it is pulled into place.

3. After tying ropes to the film, throw ropes over the building and pull cover into place.





Clamp self-locking, duck-billed pliers along the cover edge, tie ropes or straps to the pliers, and then pull cover over the frame.

IMPORTANT: To prevent damage to the film during installation, use additional personnel and lifts as needed.

4. Center film side-to-side and end-to-end.





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5. Once film is in place and centered, begin at the peak of one end and install the spring wire (part **B**) into the spring channel, locking film in place.

   ATTENTION: Ensure that enough film is present to lock into the end rafter spring channel. Typically, the film material is cut longer/wider than required to cover the building. For easier installation, allow approximately 10" to extend past the edge of the end rafter as the film is locked in. Remove the ropes after the film cover is secure.

6. Continue down both edges of first end rafter until film cover is secured to the first end rafter from the top ribbon board on one side to the top ribbon board on the other side. Verify that the excess on either side below the top ribbon boards is enough to account for the roll-up side panels.

7. Move to the other end, pull cover tight, and repeat steps to secure film cover in end rafter spring channel.

8. After securing film cover end-to-end, move to one side and install the spring wire in the spring channel installed on the TOP ribbon boards.

   NOTE: Begin at one end of channel and work toward the other. Maintain an even length working along the side. Final stretching of film cover takes place when last side is secured.

9. Next, move to the remaining side, stretch the film cover, and secure it in place. Pull film tight and insert spring wire into spring channel.

10. Trim excess film material along the end rafters and ribbon board.

    ATTENTION: Allow some material to remain. This allows easier stretching of the film cover in the event that the material expands after it is installed.

11. Complete the installation of the inflation fan kit (or kits).

WEAR EYE PROTECTION WHEN INSTALLING SPRING WIRE!

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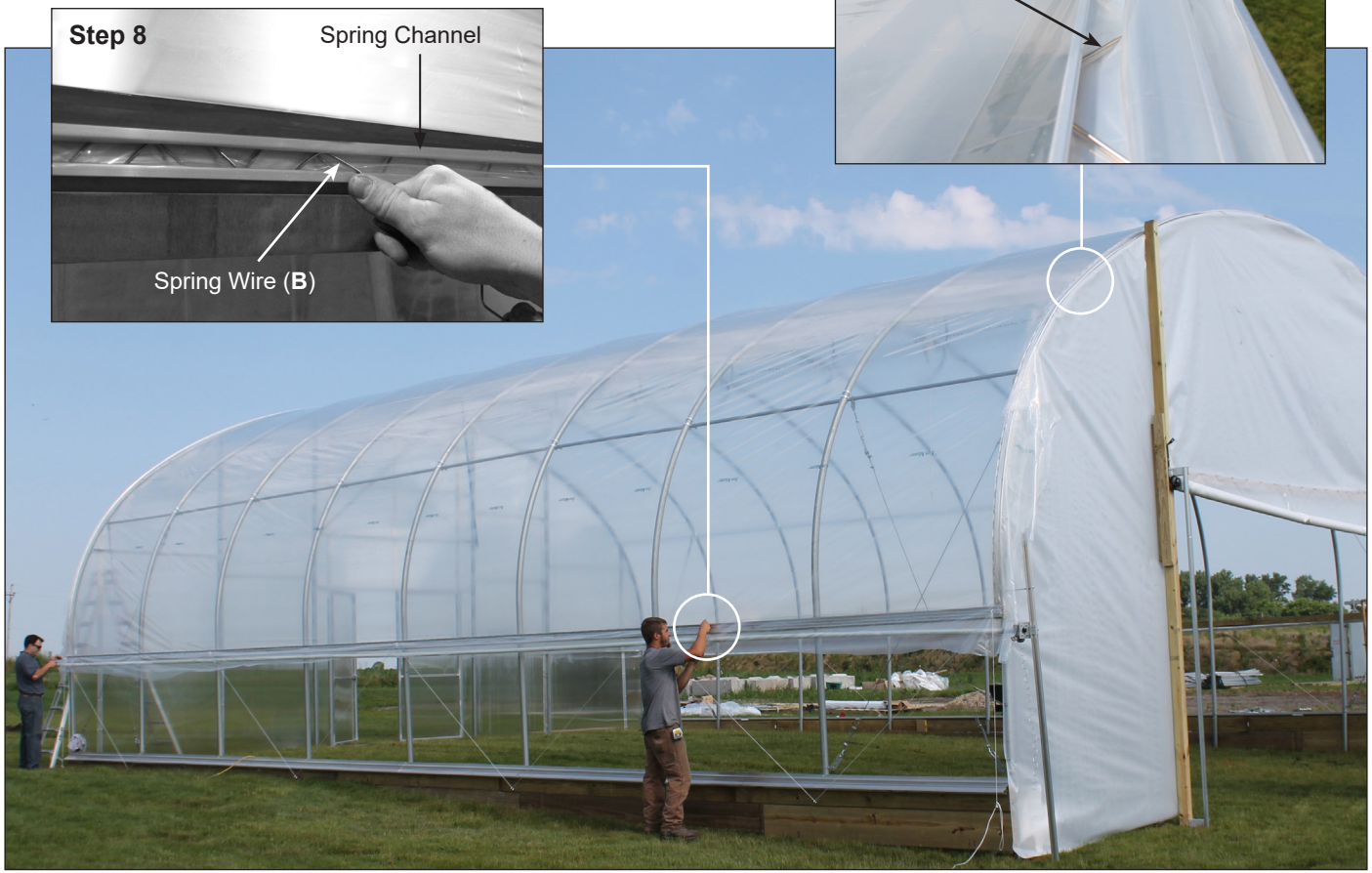
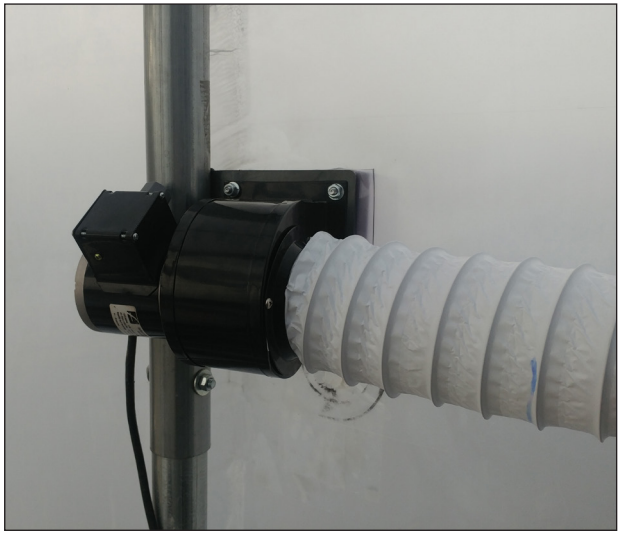


Inflation Blower System Kit

The inflation kit (part **C**) assembly is quick and easy. Follow instructions included with kit components. After installing the inflation kit (or kits), continue by installing the second layer of film as described on the following pages.

ATTENTION: Longer and wider greenhouses include multiple inflation blower system kits. If greenhouse includes two (2) inflation kits, install these diagonally opposite (kitty-corner from) each other.







IMPORTANT! All wiring to be completed by a qualified electrician. Consult and follow all local and regional codes when connecting fan motor to power.

ATTENTION: Greenhouse framing and film shown in photos may differ from actual purchased framing and film. All installation applications are the same. Adjust accordingly.

Double Film Cover Installation

Once inflation kit (or kits) are installed, install remaining layer of greenhouse film. Simply repeat "*IR/AC Film Cover Installation*" steps for your greenhouse.

Follow these guidelines to install remaining film:

- Test air inflation operation *before* installing second layer of film.
- Secure film. Add a second run of spring wire over the first in the same channel.
- Be careful not to damage first film during installation and cutting of second film layer.
- Test inflation kit *after* installing second film.



Photo shows pulling the second layer of film onto the frame. Additional purchase required. Actual building will differ from what is shown.

NOTES