For Models:

- LPD-100
- LPD-100H
- LPD-200
- LPD-200H
Dual Convey Option

The Dual Convey Option allows for one Dryer to supply material to two processes using two Maguire Receivers. Using Dual convey requires the purchase of the Dual Convey Kit, which includes:

- Dual Convey Receiver Selector Control
- Dual Convey Solenoid
- Dual Convey Shifting Valve
- Y Resin Takeoff Pipe
- Nylon Air line
- NPT ¼” T fitting with Nylon Quick Connect

The following instructions describe the installation of the Dual Convey Option on LPD 100 and LPD 200 Series Dryers.

1. Open the front access door of the Dryer, loosen the hose clamp that secures the short pipe labeled Dry Resin Takeoff Pipe (top pipe). Remove the short stock pipe as shown above.

2. Insert the “Y Resin Takeoff Pipe” into the short connector hose and into the Vacuum takeoff Assembly (VTA). Fitment may be tight, use a rubber mallet or block of wood to gently tap the new “Y Resin Takeoff Pipe” into the Vacuum takeoff Assembly. The flange of the Y Resin takeoff Pipe should come to the end of the pipe within the VTA. **CAUTION:** Do Not strike a steel hammer directly on the Y Pipe as this may damage the pipe.
3. Install the “Dual Convey Receiver Selector Control Box” below the air regulator. You will have to drill four holes in the panel of the Dryer. 

   Caution: Remove the rear panel of the dryer and visually inspect to ensure clearance before drilling any holes in the cabinet wall.

   If you have been supplied a hole pattern, you may use the pattern, otherwise, center punch the holes using the holes in the control box. **Location of the upper left hole** should be approximately: **On 200 Series Dryers** - 2 inch in from the left edge of the panel and 41 inches up from the bottom of the panel. **On 100 Series Dryers** - 2 inch in from the left edge of the panel and 37 inches up from the bottom of the panel.

4. Using the supplied pipe clamp, secure the “Dual Convey Shifting Valve” to the Convey Vacuum Connection pipe located below the “Y” pipe (installed previously).

5. Remove the blowgun air hose from the ¼ inch NPT “T” fitting and install the new “T” fitting as shown above. Re-install the blowgun facing out and the Nylon Quick Connect facing down. Use Teflon thread tape to seal the threads. Connect a short length of nylon airline from the Nylon Quick Connect on the air supply down to the rear Nylon Quick Connect on the “Dual Convey Receiver Selector Control Box”. See image above and image with Step 6.
6. Route a nylon airline from the top nylon quick disconnect on the “Dual Convey Receiver Selector Control Box” through the Dryer to the opposite side to the “Dual Convey Shifting Valve” as described below:

   a. Insert on end of a long nylon airline in the front nylon quick disconnect. This line will be run through the Dryer. See image to the right.

   b. Route the nylon airline up to the louver located to the left of the air manifold and run the line into the louver.

   c. With the back, upper panel removed, route the airline along with the existing airlines and wires. Run the airline through the existing wire loops to hold the airline in place.

   d. Route the airline down the inside corner, through the access hole. Route the airline inside the Dryer towards the front and out the lower louver.

   e. Route the airline out bottom louver to the “Dual Convey Shifting Valve” as pictured to the right.

   f. Connect the nylon airline to the nylon quick disconnect on the “Dual Convey Shifting Valve”. See image to the right.
7. Located on the side of the “Dual Convey Receiver Selector Control Box” is a Convey Sensor cable. Connect that cable to the Convey Sensor port located on the left side of the Dryer’s controller.

8. Located on the front of the “Dual Convey Receiver Selector Control Box” is 2 ports for 2 Convey Sensor cables. A Convey Sensor cable will run to each Maguire Receiver on your process.

9. Run a material convey line from each of the two outlets of the Y tube at the Dry Resin takeoff port to each of the two Maguire Receivers on the process machines.

10. Run a Vacuum Convey Line from each of the Maguire Receivers on the process machines to the appropriate Receiver Vacuum port on the Dual Convey Shifting Valve. The assigned number (Receiver, Receiver 2) depends on how you want to refer to and assign your receivers. **Note:** Be sure that you run the BOTH the Convey Sensor cable (for Receiver 1 and Receiver 2) and the Vacuum Convey Lines to the same Receiver.

**Usage:** To supply material to a Maguire Receiver (Receiver 1, Receiver 2), turn the Receiver Switch on the “Dual Convey Receiver Selector Control Box” in the ON position. The “Dual Convey Receiver Selector Control Box” will automatically supply material on demand to the Maguire Receivers.
LPD-100 Left Side

Modification:

Dual Conveyor Electronics Box Mount

Add (4) holes as shown
LPD-200 Left Side

Modification:

Dual Conveyor Box Mount

dd (4) holes as shown
Technical Support and Contact Information

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