

No Connectors, No Wires, Fool Proof Sophisticated Yet Simplified Proofing

The differences between a standard material manifold station like Conair's RSS (Resin Selector Station), and one with the ILP (Invisible Line Proofing) option are not something that can be seen. The difference is in the engineering. Conair's efficient RSS, equipped with the ILP option uses sensors at the base of each manifold, to proof connections and ensure that material conveys only when the correct connections are made. There are no wires, no clunky connectors, no cameras, and no special processes for operators to follow. Connections are made as normal. No further action necessary. ILP automatically assures that connections are correct or material will not flow and an alarm on the control will alert the operator that an incorrect connection was made. Accuracy is at 100%, with no chance of operator error.



The Easiest Resin Proofing System Yet!

We hear it time and time again – material is the primary expense in production. Proofing eliminates operator error which can result in bad parts, plant downtime, and wasted material.

The ILP is the most simple, yet sophisticated method of proofing yet. It's so simple that any existing Conair RSS can be retrofitted to work as an ILP station. The ILP system does not require a separate control or special operator instructions. The ILP system can be used on both fantail manifolds and individual conveying lines. The ILP uses the existing abilities of Conair's FLX-128 Plus conveying control to allow proofing to happen within the conveying system.

► **Safeguards material in RSS (Resin Selection Station) tables**

Remote sensors are installed as part of the RSS (at the exit end of the manifolds) to ensure vacuum is flowing through the correct connection, indicating the correct connection has been made.

► **Confirms correct material line connections**

If the material line connections are correct, material will be conveyed normally. Hoses attached to the wrong port will prevent conveying and provide a control system alarm.

► **Uses Conair's FLX-128 Plus conveying control**

Material routing is programmed into the FLX-128 Plus, and the ILP assures physical connections match the desired connections selected in the control. FLX-128 Plus icons confirm proper routing with normal conveying, or indicate an improper routing connection with an alarm not allowing material to convey.

► **Nothing to break, nothing to learn**

There are no visible wires on the table, no visible devices, no special fittings, no special orientation of hoses, no problems when replacement connectors are necessary, and the ILP system is not affected by light, temperature, material, or line size. Invisible Line Proofing protects your process against human error and accidents.



How it Works

Invisible Line Proofing, or ILP, does not use wires nor connectors nor any type of signal exchange between material line couplers to confirm that source to destination material flow connections have been properly made by the user. If vacuum is not properly sensed, the ILP prevents material flow.

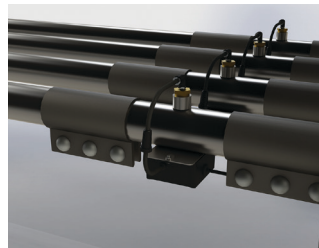
An ILP installation includes ILP Sensors in each fantail manifold or individual material line, and an ILP Valve installed in the vacuum line.

ILP Components

- ILP Valve
- ILP Sensor for each material to be proofed
- FLX-128 Plus
- ILP Interface Box



ILP Valve



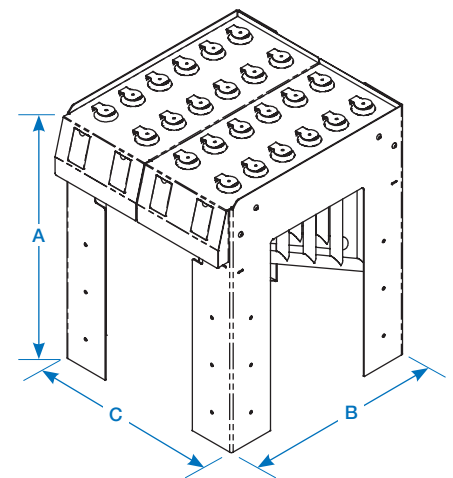
ILP Sensors



FLX-128 Plus Control

Specifications

Model	ILP						
Performance characteristics							
Maximum number materials	16 per ILP Box. 16 ILP Boxes per FLX-128 Plus						
Required control	FLX-128 Plus						
Required FLX-128 expansion box	ILP Expansion Box, or Fill Sensor Cards in FLX-128 main/remote box						
FLX-128 Plus Voltage requirements							
	120 Volts for FLX-128 Plus*						
Compressed air requirements							
Regulated clean compressed air	65-90 PSI (ILP Valve)						
RSS Models	RSS150	RSS175	RSS200	RSS225	RSS250	RSS300	RSS400
Performance characteristics							
Line Size inches {mm}	1.5 {38.1}	1.75 {44.5}	2.0 {50.8}	2.25 {57.2}	2.5 {63.5}	3.0 {76.2}	4.0 {101.6}
Approximate weight lb {kg} †							
Installed	170 {77}	170 {77}	230 {104}	230 {104}	230 {104}	320 {145}	320 {145}
Shipping	240 {109}	240 {109}	300 {136}	300 {136}	300 {136}	390 {177}	390 {177}
RSS Frame Options		Small Frame	Medium Frame	Large Frame			
Maximum number of fantails							
2, 3, 4, 5, or 6 hole positions per fantail		up to 2 fantails	up to 4 fantails	up to 6 fantails			
Dimensions inches {cm}							
A - Height		42.12 {107.0}	42.12 {107.0}	42.12 {107.0}			
B - Depth		35.87 {91.1}	35.87 {91.1}	35.87 {91.1}			
C - Width		16.37 {41.58}	32.37 {82.2}	48.62 {123.5}			



Specification Notes

* FLX-128 Plus sends 24 VDC to the ILP Sensors. The FLX-128 also sends power to the valve on the pump.

† Weights are based on using the maximum number of selector plates and connectors.

These tables define standard configurations only.

Specifications can change without notice. Contact a Conair representative for the most current information.

