



# Safe - Secure - Swift

Sun Meditek Private Limited Works: 55, Sector 18, Gurugram 122015 Haryana INDIA www.swiftlog.org

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MADE IN INDIA



Swiftlog<sup>®</sup> Pneumatic Tube Systems are assembled & made in India, with German technology, by Sun Meditek Limited, a company engaged in healthcare equipment since 1982 and over 20 years' experience in Pneumatic Tube Systems.

"Our Vision is to become World's largest & best PTS company" – Uday Narula, Leader Swiftlog®

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# Pneumatic Tube System

Pneumatic Tube System, or PTS, as it is popularly known as, is automation of spontaneous logistics or transport of materials through means of a network of tubes and compliment thus other in-house logistics. The PTS transports various materials at speeds between 3 to 6 meters per second with air-cushioned ride through the buildings and campus.

PTS can transport

- o Lab Samples
- o Reports & Documents
- o Cash & Secured Materials
- o Drugs & Pharmaceuticals

and much more...

#### **Health** Care

Our intelligent pneumatic tube systems for hospitals transports urgent specimen, blood, drugs, patient records and other goods at a fast speed (3-6 meters per second). This allows staff to concentrate on their important work instead of wasting precious time on errands. Transporting sensitive goods such as blood or other body fluids or medication involves risk. Therefore, we have developed leak-proof and secure carriers. They ensure safe transportation of the goods. For blood and other goods which need special treatment, we offer systems with individual speed settings. Thus, all goods transported arrive in best condition with minimal personnel cost.

#### Retail & Commercial Set Ups

In the retail & commercial set ups like banks etc, cash & documents can be transported with tube systems. This is either operated with a one-way system – from the cash desk to a central office or the safe – or with a two-way system. The transportation with one of our systems guarantees highest security for your staff, as they do not have carry large sums of money. This is especially important for supermarkets, but also for casinos, cinemas, retail outlets, cash-n-carry, and banks.

#### Industry

Widely spread-out buildings, long distances and complex processes make the manufacturing industry a challenging environment. Companies must comply with regulations and aim at producing at lowest costs. Our pneumatic tube systems support these goals, by reducing the time samples take to reach the quality assurance and testing areas. Even hot samples of up to 800 °C can be carried by means of specially developed steel carriers.

There are two types of systems available

NW110 which with a 110mm Ø tube network and can carry payloads of approx. 1 - 3kgs<sup>1</sup> NW160 which with a 110mm Ø tube network and can carry payloads of approx. 3 - 6kgs<sup>1</sup> Some other OD systems are also available design-to-build basis for special projects

The complete system is operated via main controller consisting of Control PC with peripherals, S-Control<sup>™</sup> Software for controls, check, servicing, access, supervision, log, analysis, and graphic visualization software.

PTS systems designed for Commercial & Industrial facilities can be designed to have speeds of transport as high as 15-20mps!

<sup>1</sup>depending on the blower capacity & ratings.

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# Swift-Control<sup>™</sup> 6.0

The Swift-Control<sup>™</sup> 6.0 Software is very user-friendly and has basic features that enable system set-up, check, servicing, controls, and supervision with real time monitoring for viewing and maintenance of system.

## System Controls & Monitoring

- System access and controls for each device on the network;
- Mechanical and electrical Control of all devices, run time configuration
- o Network viewing & graphic visualization
- o Display of system and device errors
- Graphic display of motor positions and activated optical-Digital tube switches
- Logs & record of transports with search functions for zone,
- device number, destination address, time periods and errors
- Display of the up-to-date system operating status
- o System configuration & supervision
- o Access and timetable features
- o User profiles, rights, groups, and functions
- Multiple speed transports depending for sensitive materials
- o Unlimited no of stations & devices possible
- Inventory controls; Location of carriers, Carrier redistribution;

## Reports & Analysis [Optional]

- Traffic flow analysis; Delay analysis;
- o Log reports, error logging
- o BMS interface or slave monitor viewing

## Security & Safety

- o Password access controls
- o Device Locking in an event of failure / carrier
- o basket full
- o RFID Access [Optional]
- o Fire Safety lock-out freeze function

## Carrier Functions

- RFID function of carriers for auto-return to origin, prevent transport of un-recognised materials
- Automatic Return feature of carriers to origin or to station with highest deficit
- o Divert Carrier function in case of absence, job rotation or vacation
- o Priority Settings for urgent and emergency transports

## Other Features [Optional]

- o Pro-remote accessibility via TeamViewer
- MultiCarrier function for multiple carrier transports for optimized frequency and over long distances
- o Carrier re-distribution to deficit station

The system has high-speed communications with real time communication speeds of 70-90dps on RS485 protocol. The Swift-Control<sup>™</sup> software is operable & accessible via license-key dongle only to prevent unauthorized access.



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# SWIFT<sup>™</sup> Bottom Load Station







## Standard features

- Terminal or end station, compact design with bottom load
- o 3"graphic display with membrane keypad
- o Up to 10-digit station ID numbers
- o Speed dial selection
- o Screen saver
- LED Indicators for receiving, sending & service modes [in membrane key pad only]
- Standard Audio & Visual signal outputs additional destinations
- Follow-me function with confirmation of redirection / carrier diversion
- o Deceleration for soft arrival of carriers
- o Monitored position optical switches
- Carrier Receiving Basket with Upholstery & Carrier Rack
- Low-maintenance and low-noise linear gear mechanisms

#### Optional equipment

- o 7"touch screen graphic display
- o Access Card Reading Device
- o RFID reading device

#### Over-all dimensions [HxWxD]:

- o NW110 378 x 375 x 250mm
- o NW160 375 x 500 x 302mm

## Materials of Construction

• Steel with powder coating, hygienic materials, parts of PVC and other materials

The station conforms to the latest EN/CE norms and standards: 2014/30/EU EMV directions [official journal C246 of 13.07.18. 20016/42/EG machine directors (official journal L 157.S.24 – 9.06.06]. The protection objectives of Low Voltage Directives 2014/35/EU in accordance with Annex 1 No. 1.5.1. of 2006/42EG directives.



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# U-DASH<sup>™</sup> Top Load Station



## Standard features

- o Pass through station with top load
- o 3"graphic display with membrane keypad
- o Up to 10-digit station ID numbers
- o Speed dial selection
- o Screen saver
- LED Indicators for receiving, sending & service modes [in membrane key pad only]
- Standard Audio & Visual signal outputs additional destinations
- Follow-me function with confirmation of redirection / carrier diversion
- Deceleration for soft arrival of carriers
- o Monitored position optical switches
- Carrier Receiving Basket with Upholstery & Carrier Rack
- Low-maintenance and low-noise linear gear mechanisms

#### Optional equipment

- o 7"touch screen graphic display
- o Access Card Reading Device
- o RFID reading device

#### Over-all dimensions [HxWxD]:

• NW110 620 x 46	60 x 255mm
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- o NW160 880 x 585 x 322mm
- Materials of Construction
- Steel with powder coating, hygienic materials, parts of PVC and other materials

The station conforms to the latest EN/CE norms and standards: 2014/30/EU EMV directions [official journal C246 of 13.07.18. 20016/42/EG machine directors (official journal L 157.5.24 – 9.06.06]. The protection objectives of Low Voltage Directives 2014/35/EU in accordance with Annex 1 No. 1.5.1. of 2006/42EG directives.



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# FALCON<sup>™</sup> Front Load Station



# Standard features

- o Pass through station with front load
- o 3"graphic display with membrane keypad
- o Up to 10-digit station ID numbers
- o Speed dial selection
- o Screen saver
- LED Indicators for receiving, sending & service modes [in membrane key pad only]
- Standard Audio & Visual signal outputs additional destinations
- Follow-me function with confirmation of redirection / carrier diversion
- o Deceleration for soft arrival of carriers
- o Monitored position optical switches
- Carrier Receiving Basket with Upholstery & Carrier Rack
- Low-maintenance and low-noise linear gear mechanisms

## Optional equipment

- o 7"touch screen graphic display
- o Access Card Reading Device RFID reading device
- Over-all dimensions [HxWxD]:
- o NW160 800 x 500 x 500mm

## Materials of Construction

• Steel with powder coating with hygienic material front door, parts of PVC and other materials

The station conforms to the latest EN/CE norms and standards: 2014/30/EU EMV directions [official journal C246 of 13.07.18. 20016/42/EG machine directors (official journal L 157.S.24 – 9.06.06]. The protection objectives of Low Voltage Directives 2014/35/EU in accordance with Annex 1 No. 1.5.1. of 2006/42EG directives.



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# FALCON-eco<sup>™</sup> Front Load Station



# Standard features

- o Pass through front load station
- o Economical simple design
- o 3"graphic display with membrane keypad
- $\circ~$  Up to 10-digit station ID numbers
- o Speed dial selection
- o Screen saver
- LED Indicators for receiving, sending & service modes [in membrane key pad only]
- Standard Audio & Visual signal outputs additional destinations
- Follow-me function with confirmation of redirection / carrier diversion
- o Deceleration for soft arrival of carriers
- o Monitored position optical switches
- Carrier Receiving Basket with Upholstery & Carrier Rack
- Low-maintenance and low-noise linear gear mechanisms

## Optional equipment

- o 7"touch screen graphic display
- o Access Card Reading Device RFID reading device
- Materials of Construction
- Steel with powder coating with hygienic material, parts of PVC and other materials

The station conforms to the latest EN/CE norms and standards: 2014/30/EU EMV directions [official journal C246 of 13.07.18. 20016/42/EG machine directors (official journal L 157.S.24 – 9.06.06]. The protection objectives of Low Voltage Directives 2014/35/EU in accordance with Annex 1 No. 1.5.1. of 2006/42EG directives.



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# ARKRIS<sup>™</sup> Multi-Send Station



- Standard features
- o Sending Station with 3-loading ports
- o 3"graphic display with membrane keypad
- o Speed dial selection
- o Screen saver
- LED Indicators for sending & service modes [in membrane key pad only]
- o Monitored position optical switches
- o Carrier Rack
- Low-maintenance and low-noise linear gear mechanisms

## Optional equipment

- o 7"touch screen graphic display
- o Access Card Reading Device
- o RFID reading device

#### Over-all dimensions [HxWxD]:

- o NW110o NW160
- 665 x 425 x 335mm 776 x 504 x 365mm
- 1111100
- Materials of Construction
- Steel with powder coating, parts of PVC and other materials





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# SCHNELL<sup>™</sup> Lab Receiving Station **Optional equipment** Standard features

- Laboratory horizontal carrier receiving station & Multi-Receiving Station
- o Receiving bend
- Motor-slide gate
- o 3"graphic display with membrane keypad
- o Deceleration for soft arrival of carriers
- Monitored position optical switches
- o Carrier Rack
- o Low-maintenance and low-noise linear gear mechanisms

- 0 3"graphic display with membrane keypad
- 7"touch screen graphic display 0
- **Receiving Platform Stainless Steel** 0
- Motorized Belt Receiving Platform 0
- **RFID** reading device 0
- Over-all dimensions [HxWxD]:
- NW110 0 NW160

0

180 x 250 x 30mm

180 x 250 x 30mm

- Materials of Construction
- 0 Steel with powder coating, parts of PVC and other materials

The station conforms to the latest EN/CE norms and standards: 2014/30/EU EMV directions [official journal C246 of 13.07.18. 20016/42/EG machine directors (official journal L 157.S.24 - 9.06.06]. The protection objectives of Low Voltage Directives 2014/35/EU in accordance with Annex 1 No. 1.5.1. of 2006/42EG directives.



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# ARKRIS+SCHNELL<sup>™</sup> Combo Lab Station



# Standard features

- o Laboratory horizontal carrier receiving station
- o 2-Sending Ports
- o Receiving bend
- o Motor-slide gate
- o 3"graphic display with membrane keypad
- o Deceleration for soft arrival of carriers
- o Monitored position optical switches
- o Carrier Rack
- o Low-maintenance and low-noise linear gear mechanism

## Optional equipment

- o 7"touch screen graphic display
- o Receiving Platform Stainless Steel
- o Motorized Belt Receiving Platform
- RFID reading device

0

- Over-all dimensions [HxWxD]:
  - NW110 378 x 375 x 250mm
- o NW160 375 x 500 x 300mm
- Materials of Construction
- o Steel with powder coating, parts of PVC and other materials



The station conforms to the latest EN/CE norms and standards: 2014/30/EU EMV directions [official journal C246 of 13.07.18. 20016/42/EG machine directors (official journal L 157.S.24 – 9.06.06]. The protection objectives of Low Voltage Directives 2014/35/EU in accordance with Annex 1 No. 1.5.1. of 2006/42EG directives.





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# AVTAR<sup>™</sup> Auto Return Station



## Standard features

- o Automatic Carrier return station dop & go
- o Monitored position optical switches
- o Carrier Receiving Basket with Upholstery & Carrier Rack
- o Low-maintenance and low-noise linear gear mechanisms

#### Optional equipment

o RFID reading device

o NW110

o NW160

#### Over-all dimensions [HxWxD]:

- 1030 x 434 x 250mm
- 1260 x 585 x 325mm

#### Materials of Construction

o Steel with powder coating, parts of PVC and other materials

The station conforms to the latest EN/CE norms and standards: 2014/30/EU EMV directions [official journal C246 of 13.07.18. 20016/42/EG machine directors (official journal L 157.S.24 – 9.06.06]. The protection objectives of Low Voltage Directives 2014/35/EU in accordance with Annex 1 No. 1.5.1. of 2006/42EG directives.



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# Accessories

#### Carrier Receiving Basket with Upholstery Steel Wired Basket



Audio-Visual Arrival Indicators Tower Version Wall Mountable



Up to 10 arrival signals per station, extendable to 20 signals. Each signal has its own separate address

# **Optical Tube Switch**



For direct connection to devices by sending communication signals to the System controller

- o Robust plastic housing
- o Full integration into SWIFT<sup>™</sup> Control system
- o Volt-free output
- o Digital non-contact detection
- o Operating status LED

# LAN / BUS Converter



High Speed LAN / Bus Converter for Ethernet interface signal to RS-485 signal

• Over-all dimensions [HxWxD]: 250 mm x 175 mm x 75 mm

#### Carrier Rack Steel Wire Rack



#### Power Pack 36v DC LVDC/SELV IP65



# **Station Control Panels**



Membrane Key Pad Tableau Pad 3"-Graphic LCD display Menu Arrow Keys Navigation Speed Dial / Last Dial LED Indicator

# System Control Cable





Swiftlog



Control Cable Core Structure

High speed communication system control cable SELV – Low Voltage [composite data-communications-power cable], RS-485 protocol based. Conductors easily identifiable individually by different sheath colours. Tinned copper wire braid screen covered around conductors for data exchange and addition Aluminium foil screen with copper drain wire covered around all conductors securely protected against electromagnetic interferences from the environment. Sheath material PVC. Outer sheath is colored blue.

## Core structure: Li2Y (2x2x0,22CY) + LiY2x1,95 + (St)Y 300V

- o Combined data and power cable
- o 2 power cores1,95mm<sup>2</sup> (red, blue)
- o 2 data cores 0,22mm<sup>2</sup> (red/black; blue/pink)
- Operating temperature -40° to 80°
- o Operating voltage: max. 300V
- o Outer sheath is self-extinguishing and flame retardant
- o RF & EM screened

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# MEDITEK<sup>®</sup> Side-Channel Blower Units





Sun Meditek Private Limited Works: 55, Sector 18, Gurugram 122015 Haryana INDIA www.swiftlog.org Side Channel Blower is a simple machine to impart momentum to air. Figure (a) shows the basic design concept for a Side Channel Blower, which comprises an impeller with blades located on its periphery that impels the gas through a channel surrounding a toroidal core that extends the length of the perimeter. The gas spirals around the core, interacting with the impeller blades several times before leaving the blower. In this way the Side Channel Blower uses a single impeller to impart multiple stages of pumping to the gas. Referring to Figure (a), the total pressure of the ventilation air increases continually as it flows clockwise around the periphery of the blower. The "Stripper seal" shown in the bottom drawing of Figure (a) prevents the high pressure exit gas from flowing directly into the inlet of the blower. Figure (b)shows a typical impeller from a Side Channel Blower, and Figure (c) provides a side view of a Side Channel Blower impeller and the flow path of gas around the toroidal core.

**Standard Equipment:** Blower Unit, Motor-Contactor Unit, Air-switch Device, Carrier Braking Device, Silencers, and installation accessories.

Optional Equipment: VFD Device, HEPA Filter Systems H13 with housing

#### Variable Frequency Drive [VFD]

Variable Frequency Drive [VFD] is an optional feature. A VFD works by converting the incoming electrical supply of fixed frequency into a variable frequency output. The frequency range is 40-75Hz. This variation in frequency allows the drive to control the way in which the motor operates — a low frequency for a slow speed, and a higher frequency for a faster speed.









(c) Internal Flow



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# MEDITEK<sup>®</sup> Side-Channel Blower Units

MD610 MEDITEK® Side Channel Blower Model







Model	Frequency	Output	Voltage	Current	Airflow	Pres	sure	Noise	Weight
	HZ	KW	V	A	m³/h	Vacuum	Pressure	dB(A)	kg
						mbar	mbar		
3~ 50/60Hz IP54 INSULATION class F									
MD 610	50	2.2	200-240∆/345-415Y	11.4∆6.6Y	265	-235	220	69	28
MD 610	60	2.55	220-275∆/380-480Y	11.2∆6.5Y	315	-245	230	72	28

# MD810 MEDITEK® Side Channel Blower Model



	Model	Frequency	Output	Voltage	Current	Airflow	Pres	sure	Noise	Weight
		HZ	KW	V	A	m³/h	Vacuum	Pressure	dB(A)	kg
							mbar	mbar		
3~	3~ 50/60Hz IP554 INSULATION class H with Thermal Protector									
	MD 810	50	4	345-415∆/600-720Y	8.05∆/4.65Y	530	-200	220	70	54
	MD 810	60	4.6	380-480∆/660-720Y	9.26∆/5.35Y	620	-160	160	74	54

Other models & variants with different capacities also available on request.

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# SWIFT-TRANSFER™ Linear Zone Transfer Unit

Linear Automatic Zone Transfer Unit that provides carrier storage, carrier priority-bypass, inter zone carrier transfers at high speeds available in combinations of 4, 8, 12 & 16 Zones and combinations thereof, improving through put and efficiency with provisions for multi carrier transports as well.



# Standard features

- o 3"graphic display with membrane keypad
- o Carrier Storage of up to 5 carriers per line
- o Allows Carriers to transfer from one zone line to another
- Emergency Carrier Priority By-pass
- o Multiple SWIFT-TRANSFER™ Units can be combined
- High speed zone switching @ 4-6 seconds from Zone 1 to 8\* zones
- o MultiCarrier function
- Carrier Transfer Cradle with Low Maintenance & Low Noise linear gear mechanism
- Carrier Transfer Capacity of 350 500 carriers Per Hour<sup>3</sup>

## Optional features

o RFID reading device



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## • Over-all dimensions [HxWxD]:

System / Zones	Up to 4 Lines	Up to 8 Lines
NW110	592.5 x 683 x 455	650 x 898 x 565
NW160	592.5 x 1283 x 455	650 x 1710 x 565

Unit with higher Lines such as 12, 16 are also available.

## Materials of Construction

• Steel with powder coating, parts of PVC and other materials

The device conforms to the latest EN/CE norms and standards: 2014/30/EU EMV directions [official journal C246 of 13.07.18. 20016/42/EG machine directors (official journal L 157.S.24 – 9.06.06]. The protection objectives of Low Voltage Directives 2014/35/EU in accordance with Annex 1 No. 1.5.1. of 2006/42EG directives.

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# **Diverter Units**

- o 3-Way Diverter Units Connects transport routes of various sections
- Allows Carriers to transfer smoothly
- o Low Maintenance & Low Noise motor drive & gear assembly
- o Can be mounted in any position or orientation
- o Easy service access even if installed in ceilings
- o All electrical functions can be checked directly at the diverter
- o Fully integrated in the SWIFT<sup>™</sup>-Control systems
- o Air tight design
- Integrated controlled position switch and secure snap of the through-driving tube in the correct position
- o Special quick S-bend design
- Over-all dimensions [HxWxD]:

System	3-Way
NW110	637 x 353 x 280mm
NW160	880 x 594 x 390mm

\*4-Way & 6-Way Diverters available on request

#### Materials of Construction

o Steel housing with powder coating, parts of PVC and other materials



The device conforms to the latest EN/CE norms and standards: 2014/30/EU EMV directions [official journal C246 of 13.07.18. 20016/42/EG machine directors (official journal L 157.S.24 – 9.06.06]. The protection objectives of Low Voltage Directives 2014/35/EU in accordance with Annex 1 No. 1.5.1. of 2006/42EG directives.

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# PTS Tube Network



# uPVC Forwarding Tubes & Bends

Tubes and bends are smoothly connected with connecting sleeves welded together with special PVC welding glue after cleaning with PVC cleaner. Available in Grey & Transparent variants. The forwarding tubes conform to DIN 6660 for Fire behaviour: Difficult to inflame and with following characteristics:

- o Material is Hard PVC [uPVC]
- Low elastic distortion
- High resistance to scratch & impact
- Physical tensile strength of 40 50 N/mm<sup>2</sup>
- Density of -1,42 1.54 g/cm<sup>3</sup>
- Low thermal expansion of 0.08mm / m\*K
- Heat conductivity:0.16 W/mk;
- Fire behaviour: Difficult to inflame
- Operation Temperature:0-60°C,
- Electric surface resistance: >10<sup>12</sup> ohm



System

NW110

NW160



Forwarding Tube

2.3mm thickness

3.2mm thickness

110mm Ø OD

160mm Ø OD





Connecting Sleeve 110mm Ø OD 2.3mm thickness 110mmL For 160mm Ø OD 3.2mm thickness 150mmL

The Tubes and bends are mounted at site with thread bars & tube clips at intervals between 2.5 – 3m. Bends with other radii also available on request. Tubes & Bends with other ODs also available for special projects' needs. Galvanized / Stainless / Black Steel Tubes & Bends also available on request for special project needs.



#### Steel Tube Clip for NW110 / NW160 Sun Meditek Private Limited Works: 55, Sector 18, Gurugram 122015 Haryana INDIA www.swiftlog.org



#### Thread Bar with Nut M8/M10

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#### Steel Tube Clamp for NW110 / NW160



# **Carriers & Accessories**



SWIFT-GO<sup>™</sup>

# SWIFT-SMART<sup>™</sup>

# SWIFT-SEAL<sup>™</sup>

Models & Features







**Smart Carrier** PVC with Spring-loaded Caps with automatic lock and gear-wheel



Leak Proof Carrier PVC with flap Caps with latch lock  $\overline{}$ 



350 x 123 [NW160]

Loading dimensions internal height x internal Ø [mm]

Anti-wobble Velcro belt Accessibility at both sides Cap Colour [Standard] Cap Colours [Optional]

<sup>1</sup>Payload of NW110 Carriers is 1-3kgs & of NW160 Carriers is 3-5 kgs depending on the blower capacity.

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[Above is an example of Swift-Log Pneumatic Tube System layout]