

# Pneumatic tube systems in hospitals

*Reduce cost and improve service*



 made  
in  
Germany

**aerocom**  
your partner worldwide for pneumatic tube systems

*„For user-friendly and safe transport,  
our carriers are available in various sizes,  
colours and with various inserts, e.g. for  
blood or laboratory samples.“*



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# Why pneumatic tube systems in hospitals?

## Solutions for improved operational efficiency

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Today's hospitals continue to see the responsibilities of critical hospital personnel expand. Hospitals continue to look to technology to improve their ability to deliver expanding hospital services without increased staffing. A pneumatic tube system can yield an immediate and measurable result in this dilemma.

An infinite variety of material can be transported with an Aerocom pneumatic tube system. Documents, reports, patient files, X-rays, pharmaceuticals, lab specimens, plasma, injection vials and instruments are just a few of the more common examples.

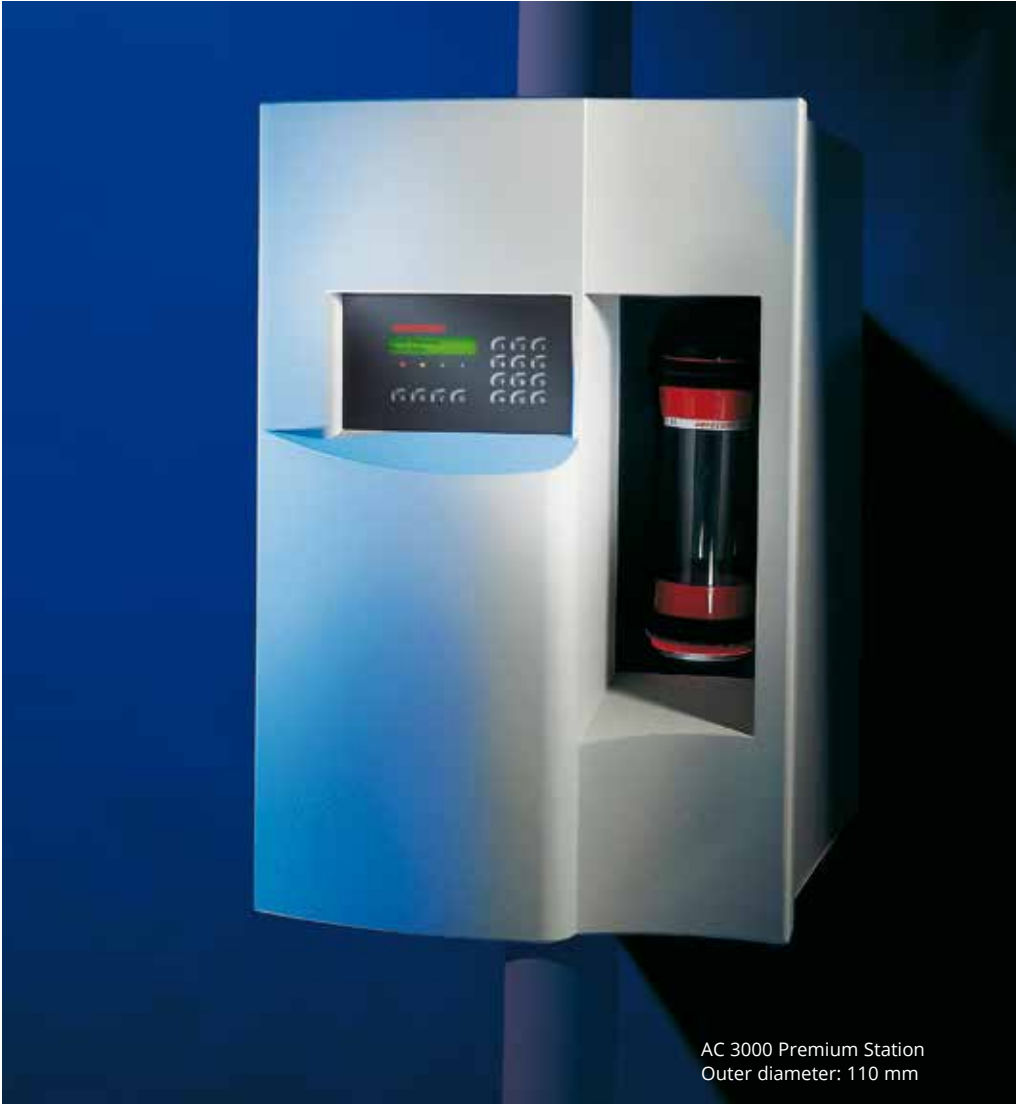
Aerocom connects the entire hospital. Emergency rooms, labs, blood bank, pharmacy, and all supporting areas can now be linked together. Items that were once transported by foot can now automatically reach their destination at speeds of up to eight meters per second. Overall hospital operation is now streamlined as valuable hospital staff can focus on doing what they do best... treating patients.



*„Blood, tissue or laboratory samples, drugs, documents, instruments or X-ray pictures, laboratory samples - pneumatic tube systems can transport almost everything.“*

# Why pneumatic tube systems in hospitals?

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As standard, the stations are equipped with a high-quality operation panel with industrial-type membrane keyboard. A 7" touch screen with a multitude of functions is optionally available.

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## Aerocom tube systems provide savings throughout the hospital

Aerocom AC 3000 – sophisticated PC-control with multi-zone system capacity

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The AC 3000's sending and receiving stations are the perfect solution for today's busy hospital environments. Their thru-station design allows Aerocom engineers to design a system using a minimum amount of tubing. Not only does this reduce system cost, but it also simplifies installation. In keeping with existing health regulations, the stations are designed to operate with no air leakage during send and receive operations. Computer controlled pneumatic braking automatically slows the carriers prior to arrival at the station.

This is of particular benefit when integrating a system into an existing medical facility. The AC 3000 could not be easier to use. It's as simple as selecting the desired destination from the station directory and pressing the send button. Routing through the multiple zones and diverters is determined by the system's PC controller.



The central control computer monitors all transport processes and provides a wide range of service and statistical functions.



Laboratory receiving station with receiving guide-rail for soft arrival of carriers and multiple sending station for automatic return of empty carriers to the home address.



The patented leak-proof carrier provides absolute safety for the transport of liquids, infusion solutions and blood bottles.





*„With the pneumatic tube system, we can send our laboratory samples quickly, safely and gently to where they are needed.“*



The connection between the different zones of a tube system is managed by diverters. All dispatches are co-ordinated by the central PC unit.

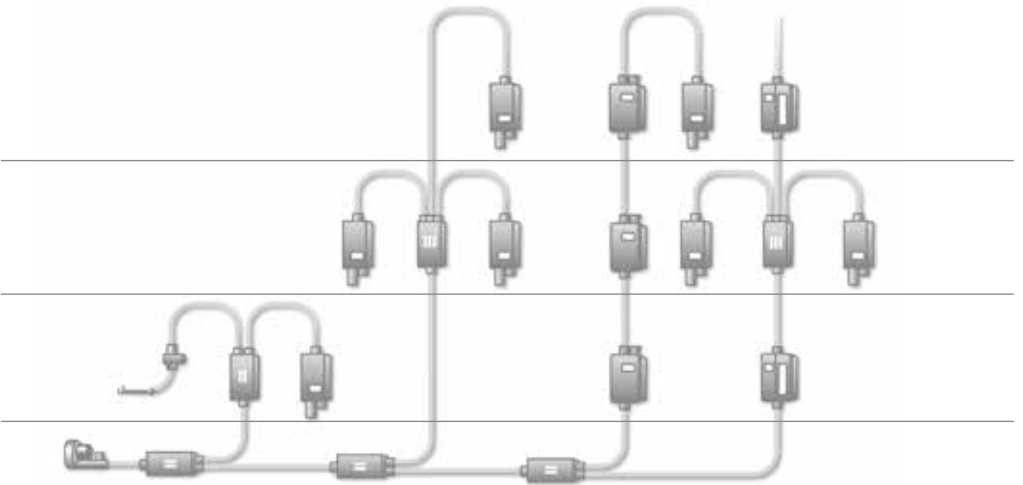


# Optimise your internal logistics

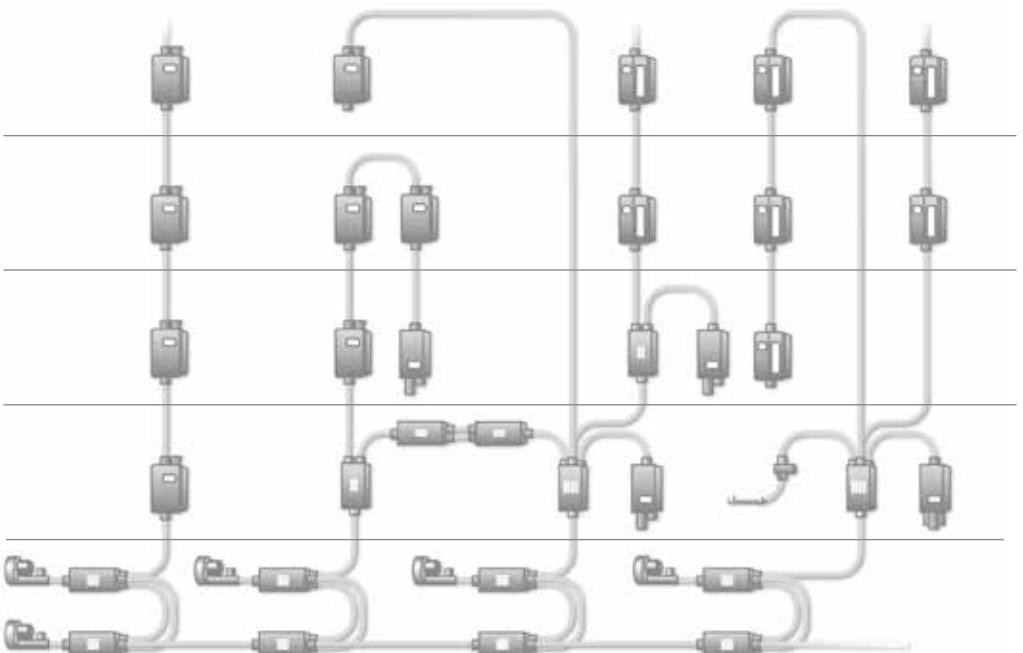
## Pneumatic Tube Systems

In addition to relieving vital staff members of the routine transport of lab samples and medications, pneumatic tube systems deliver these items in a fraction of the time.

More importantly, essential samples and medications reach their destinations in seconds rather than minutes.



A **single zone system** with through- or end-stations. An intelligent microprocessor controlled system makes it possible to send carriers between each station of a system.



The AC 3000 **multi-zone-system** can interconnect as many as 512 stations with up to 128 independently operating zones. Familiar Windows™ operating software provides complete transaction auditing, a graphic real-time system status display, as well as user-friendly programming capabilities to the system administrator.



*TITAN-Station*  
Pass-through/terminal station with receiving basket.  
Meets latest hygiene regulations.

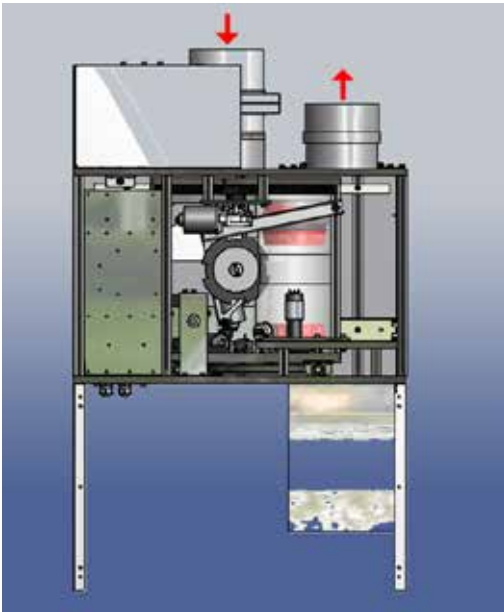
## Simple, functional, and attractive

Blending ergonomics, performance, and aesthetics

Aerocom stations compliment the appearance of any hospital environment. They are the perfect blend of contemporary design and exceptional ergonomics.

Stations are equipped with an easy to read, easy to follow, LCD menu that makes selecting a destination and system activation as simple as can be.

Systems are available in 110 mm and 160 mm configurations.



Automatic unloading of our carriers in AD 160. Carriers are automatically returned to their home address.

### Advantages of our system:

- no special carriers required
- separate entry for receipt and exit for return of empty carriers improve the system's efficiency.



**TITAN-Secure**  
Secured dispatch and receipt of carriers.



Diversers enable integration of different stations into a pneumatic tube system.



Carriers can be stored above the linear coupler.  
Carriers can be passed on upward or downward depending on the system.



Empty-carrier storage for automatic return of carriers to the home address.



Control cabinet with power packs and zone masters that coordinate transports within the respective zone.

## Simple, functional, and attractive

Blending ergonomics, performance, and aesthetics



Various designs of linear couplers with up to three axes are available for specific requirements. An optional pass-by function enables priority transport of urgent goods.

To handle sensitive goods, the speed can be adjusted by means of frequency converters.





*„The Aerocom tube system saves vital time and energy every day.“*



## Why Aerocom?

Improved efficiency, maximised productivity and reduced cost

### When is the right time to install a pneumatic tube system?

There is no better time than the present. Whether new construction or retrofit project in an existing facility, Aerocom delivers a customized solution to meet any requirement. If you have a need to get it there fast, Aerocom's vast product line can make it happen. From a basic point-to-point system (AC 2U), to the computer controlled, multizoned, AC 3000 with its up to 512 station capacity, Aerocom engineers can get it done.

### Why pneumatic tube systems?

When routine errands can be handled at a speed of 6 - 8 m/sec rather than on foot, the performance of your entire operation is enhanced. Two of the most valuable assets in any business are time and money. Aerocom tube systems save both. There is an added benefit beyond the black and white savings of money and time. By reducing the requirement for routine errands, valuable hospital staff are now free to direct their attention to what they do best... treating patients.



Buildings within a building can also be connected using special PEHD underground tubes.

### What can be transported?

Tubing diameters range from 110mm to 315 mm. This allows the transfer of items over 280 mm in diameter and almost 500 mm in length. Materials weighing nearly 28 kg can be transported at speeds of up to 8 meters per second. Materials such as blood and tissue samples can arrive at the lab in seconds. Medications sent from the central pharmacy can reach the nursing stations by the push of a button. X-rays and their results can be in the hands of the technicians and doctors in a fraction of the time it used to take. Even transportation of medical and surgical equipment can be made more efficient through an Aerocom pneumatic tube system.



### Where to install a pneumatic tube system?

Practically everywhere! Stations can be connected by a horizontal run or mounted vertically. Tubing can be installed overhead, or underground. Since tubing can be run outdoors, Aerocom pneumatic tube systems can even link multiple buildings. Even streets and rivers don't present an obstacle that Aerocom can't overcome. So perhaps the easier question would be; where can you not install an Aerocom system?

**Aerocom has a solution to your material transport need!**

Aerocom is the world leader in pneumatic tube systems technology. In addition to possessing the widest range of standard products in the industry, we also have the experience and expertise to custom design system solutions for just about any application.

We provide factory direct representation and support of our products through our 10 offices in Germany, as well as 6 offices in Europe (Belgium, France, Italy, Spain, Switzerland and Netherlands). Through our exclusive distributor network, aerocom products are represented, installed, and supported in 80 countries around the globe.



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