Pneumatic tube systems

Automated transportation solutions





An international company

Latest technology coupled with tradition

Pneumatic tube systems have been successfully produced in the Stuttgart area since 1956. Aerocom has been the name and trademark of the company since 1996. Through merger activity in 1980 it brought a number of well-known companies such as Aeropost, Airfix, and Aerotrans together under one roof. Today these names still stand for quality, reliability and advanced technology in pneumatic tube systems.

An important step towards the future was accomplished in the year 2001, when the entire company moved to a brand new factory and administration building in Schwaebisch Gmuend.

More than 35.000 Aerocom pneumatic tube systems have been installed in virtually every type of business, institution and industry. This wealth of experience has made Aerocom the largest manufacturer of pneumatic tube systems in the world. Aerocom Pneumatic Tube Systems enjoy an unrivalled reputation in all market and product sectors.

Our range of services includes consultancy and project design with analysis of requirements, the selection of the most suitable pneumatic tube system and the work of installation and servicing.

Modern production methods and excellent working conditions ensure that the high quality of our products is maintained consistently wherever we are.



- in the most varied environments

Versatility is one of our strengths. Depending on the equipment, our systems meet the most widely varying specifications, from small businesses to large groups and even in hospitals. Thousands of users throughout the world would not be without their pneumatic tube systems.

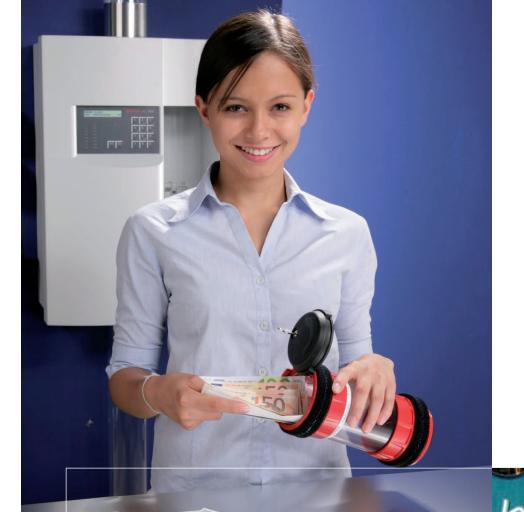
Hospital

Every department of a hospital can be connected to a pneumatic tube system. Laboratory samples, blood plasma, scans, documents etc. can be reliably transported with no risk of damage.



Industry, specimen transport and administration

In industry and administration, documents are often dispatched to individual departments that are often located far apart. Individual components sent "just in time" from the stores to production, liquid samples of oil from the tanker filling station to the refinery lab – they are no problem for Aerocom pneumatic tube systems.



PharmaPost

Automated storage technology for pharmacies. PharmaPost automates the transport of pharmaceutical products from storage areas to the counter. Difficult pathways and long distances are easily negotiated using this pneumatic tube system, irrespective of where the products are dispensed.

Most pharmacies commit a large part of what should be profitable square footage to the storage of pharmaceuticals. The PharmaPost pneumatic tube system allows pharmacies to locate pharmaceutical storage remotely. PharmaPost supplies system solutions for manual and automated filling and dispensing.

Cash handling

In toll booths, petrol stations, banks and supermarkets. All tills, and particularly the journey from them to the secure area, are areas of risk. This is where pneumatic tube systems can eliminate risk situations.

Aerocom offers a wide range of options, including simple cash dispatch systems and the ability to supply change.



How does a pneumatic tube system work?

Optimize your transportation processes

A pneumatic tube system consists of a number of principal components: A blower to create the pressure and suction required for transportation, containers, known as carriers, that fit closely in the tubes to convey the articles, and stations where the destination is selected and the filled containers are inserted.

These stations also receive incoming carriers and gently deposit them out of the system. Diverters are used within a tube system to direct the carriers to their selected destination or else to communicate with the various zones.

Powerful controllers are used to regulate these transportation logistics. All kinds of material can be simply, rapidly and economically dispatched in this way using air as the driving force.





coordinate the sending and

receiving processes. The differen-

ces between the microprocessor-

their complexity and the purpose

controlled systems depend on

for which they are used.





The Aerocom carrier is an attractively designed, robust precision engineered container with a sturdy swivel cap.



Blower with reversing valve:

The blower creates both pressure

and suction. However, the abso-

lute value of the air pressure is

not significant. It is the quantity

force and produces speeds of six

of air that creates the driving

to eight metres per second.



This is the only technique that allows a pneumatic system to be both complex and rationally designed. It enables a carrier to be inserted at any station in the system and transported to the desired recipient.



PVC tubing is the preferred material in today's systems. In some applications, mainly public building such as hospitals, stainless steel tubing is specified. The tube system can be installed in false ceilings or, if connecting a number of buildings, it can be laid underground or in the open.



All processes are displayed and reported in the system, enabling transportation to be accurately evaluated and analysed.

Control unit:Powerful controllers are used to

Why use an Aerocom-System?

Transport systems for efficient organisation

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

Aerocom produces customised tube systems for all sizes of organisation, from a 2-point system to microprocessor-controlled multizone systems with up to 512 stations. 80% of our new systems are installed in existing buildings.

Why use a pneumatic tube systems?

Tube systems solve the problem of internal transportation and operate at speeds of 6-8 metres per second. That saves time and energy and allows your staff to be more productive instead of running errands.

What can the system carry?

Aerocom systems can transport virtually anything: liquid, toxic, valuable, hot or cold, 0.1 g or 28 kg, provided that it is no more than 30 cm in diameter. This includes a whole range of items: blood or tissue samples, medicines, documents, instruments, X-rays, laboratory specimens, oil, spare parts, hot steel samples, etc.

Where can the system be installed?

More or less anywhere. Horizontally or vertically, in false ceilings or in full view. And not only inside a building. Aerocom pneumatic tube systems are also used in facilities that are far apart. Even streets and rivers do not present an obstacle.

We are sure to have a solution that meets your transportation needs.

Just ask us.

short pathways

rapid transport

6-8 metres per second

secure transportation



time and cost efficient reliable

energy-saving

A worthwhile investment Much sooner than you think...

...because Aerocom engineers use the latest technology to build maximum efficiency into their plans, giving you an ideal priceperformance ratio. The following real life case shows how quickly the Aerocom pneumatic system pays for itself.

Business:

a specialist photo shop

Working days

per year:

300

Sales area on the Premises:

ground floor, lab on

the 2nd floor

Number of errands: 40 per day Time required:

2 min per trip

Cost per hour: Euro 15

Total costs: 6,000 Euro per year

Tube system: Total investment: Aerocom 2-point approx. 3,200 Euro

Payback period:

approx. 7 months

Types of system

Stations including tube diameter

Components

and accessories

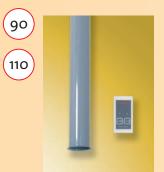


Point to point

Cash disposal

The simple twopoint connection. From A to B and from B to A.

















Dispatch tube PVC or stainless steel



Systems for twoway connection between cash points and a secure area.





Endstation

Open Endstation











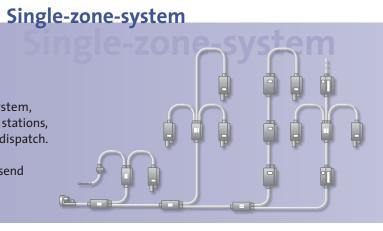


Slide gate



The standard system, linking up to 99 stations, with automatic dispatch.

All stations can send to each other.





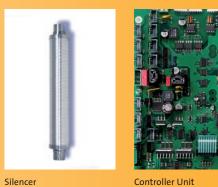








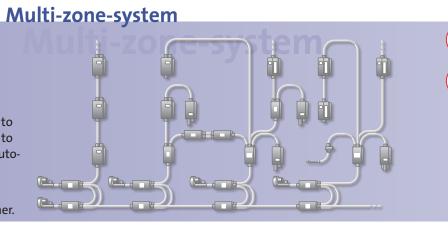






The multi-zone system with up to 512 stations. Up to 64 zones, with automatic dispatch.

All stations can send to each other.















Receiving basket

receiving Station

A quick fit

Finding the carrier that suits your needs

The procedure is very simple.
The illustrated circles represent the internal diameters of Aerocom carriers, namely 80mm, 115mm, 154mm and 240mm (31/4", 41/2", 6" and 91/2"). Each of these fits one of the standard Aerocom tubes (diameters 110mm, 160mm, 200mm and 315mm – 4", 6", 8" and 12") and is marked with the corresponding tube diameter.

- 1. Simply place the item that you wish to transport on the smallest possible circle. The only factor that is of importance to you, the user, is which of these four circles accommodates the goods to be carried. It does not matter whether the object is horizontal or vertical. The four scales at the bottom of this page give you the four standard diameters.
- 2. Measure the length of the item. See the table for the standard carrier lengths (245mm to 500mm 9³/4" to 19¹/2"). Experience has shown that using the smallest possible radius for bending the tubes has advantages when routing them within a building.
- 3. Read the bend radius off from the table. While the provided scales and measures illustrate standard tubing, bends and car-riers, your Aerocom representative is avail-able to recommend any number of custom-ised solutions. With the tubing, bend radius and carrier, minimums established, the next objective is the identification of the ideal Aerocom pneumatic tube system.

Tube outside diameter	Carrier inside diameter	Carrier lenth	Bend Radius
110	80	245	550
	72	350	650
	86	220	650
160	115	330	800
	115	400	1200
200	154	350	1250
	154	420	1250
315	240	420	1000
	240	500	1000

Dimensions in mm

Now you know the standard tube diameter needed, the appropriate carrier and the resulting minimum tube bend radius.

We can always supply tubes and carriers in special dimensions to suit other needs. Please enquire.

Spain and Italy), as well as Australia, Hong Kong & Jakarta and ten factory outlets in Germany we are always ready to serve you. We also work together with other reputa-315 ble companies. In collaboration with these partners we have built up an unequalled sales and service network. Made in Germany – this is not just a claim that we make for the quality of our products but a standard that applies to the entire range of our products and services. 200 160 110 Sales offices in Europe and Asia

We create connections

We are represented by more than 65 reliable

business partners in all continents of the

world. With our six sales offices in Europe

(Netherlands, Belgium, France, Switzerland,

worldwide

Aerocom is a world leader in the manufacture of modern pneumatic tube systems and internal logistics.

We have the experience and expertise to custom design solutions for virtually any application in pneumatic materials logistics. We can provide special technical solutions to meet individual customer specifications.

We are represented in 65 countries throughout the world. These partners, together with our ten offices in Germany and six in the rest of Europe (Belgium, France, Italy, Switzerland, Spain and Netherlands), keep us close to our customers wherever they are.



Aerocom GmbH & Co.
Pneumatic Tube Systems
Adam-Riese-Straße 16
73529 Schwaebisch-Gmuend
T +49 (o) 7171 1045-0
F +49 (o) 7171 1045-299
info@aerocom.de

www.aerocom.de

