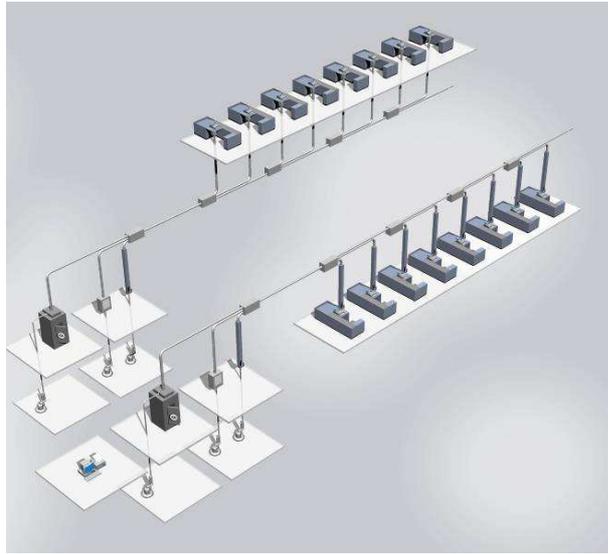
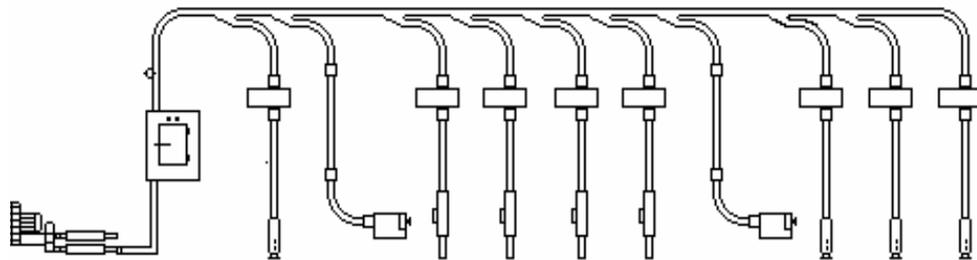


Systemdescription MultiCash



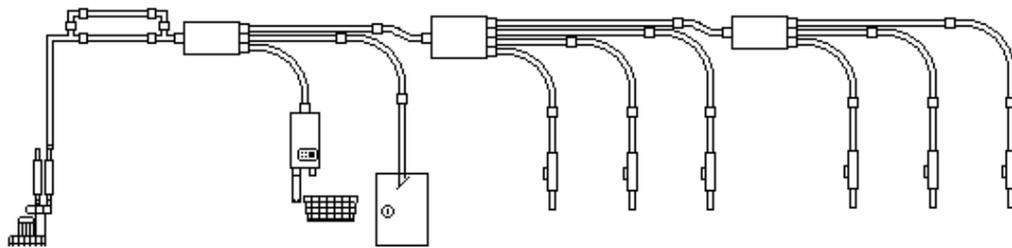
- Maximum number of units:**
99
- Maximum number of zones:**
1
- Arrival signals per station:**
1-3 per station as standard, depending on the type of station. Up to 16 signals optionally possible.
- Switch:**
Y-tubes, diverter 1/2, diverter 1/3, diverter 1/4
- Mode of operation:**
One-way and/or reversing operation
- Examples of systems:**

Operation-panel MultiCash:



Pneumatic tube connection for the **one-way operation** (with Y-tubes) between different sending stations and one receiving station. The sending stations cannot communicate with each other, the possibility to return to the sending stations does not exist. The receiving station can be applied as a closed cabinet station or as an open end with a brake assembly, whereas the substations are

common sending stations with or without storage possibilities, either slide-stations or as open end stations. Only one branch is open at the same time in order to allow the substation therein to send a carrier. These carriers can depart upwards, downwards or horizontally, depending on the kind of station.



Pneumatic tube connection for the **reversing operation** (with diverters) between different sub- and main stations. Normally, the substations should not communicate with each other. Nevertheless, it is possible to program the system in a way to enable the transport between several or all of the stations. All the stations can be operated

(depending on the configuration of the system) both fully automated (able to store) and manually. Also the direct dispatch into one or several closed safes is possible. The carriers can depart or arrive upwards, downwards or horizontally, depending on the kind of station.

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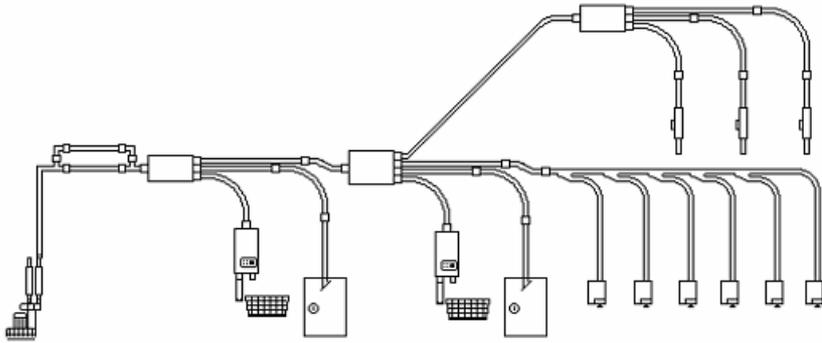
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Mixed pneumatic tube connection for the **reversing operation** (with guides) and **one-way operation** (with Y-tubes) between different sub- and main stations. The substations with directional operation do not communicate with each other. All the stations can be operated (depending on the configuration of the system) both fully

automated (able to store) and manually. Also the direct dispatch into one or several closed safes is possible. The carriers can depart or arrive upwards, downwards or horizontally, depending on the kind of station. (Attention: Between diverters and between blower and diverters, Y-tubes cannot be used for pneumatic reasons).

Use of different types of station OD 110*:

Type of station	Application for:	
	Reversing operation	One-way operation
COM-station 	In process	
EWS-station 	✓	
Premium-station 	In process	
Receiving flap 		✓
OE-station 	✓	✓
Receiver from below 	✓	✓
Endstation EH1 	✓	✓

Type of station	Application for:	
	Reversing operation	One-way operation
Desk-station 	✓	✓
Slidegate 		✓
Cassa-station 		In process
Cassa-Spezial-station 		In process
Slide station 	✓	✓
HR-station 	In process	
Safe 		✓

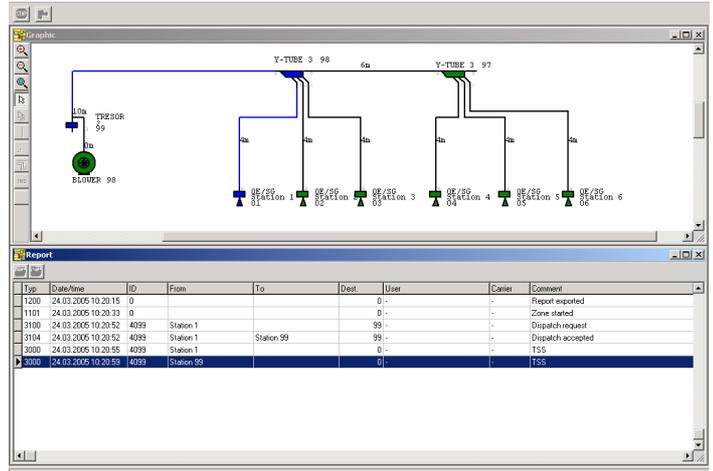
* Different dimensions on request

Microprocessor control for the fully automated control and co-ordination of all functions

Preliminary remark: As a basic principle, the application of a PC with Pentium IV processor is necessary for the control of the system and the documentation of all its operations. The PC contains monitor, keyboard, mouse and the Aerocom software package MultiCash for the control and co-ordination of all the functions of the Aerocom pneumatic tube system MultiCash.

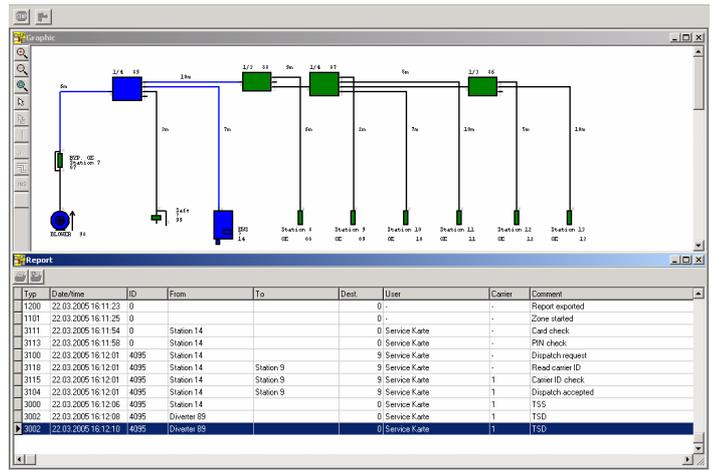
Systemdescription MultiCash

All dispatches are **controlled** and routed by the system **PC-unit**.



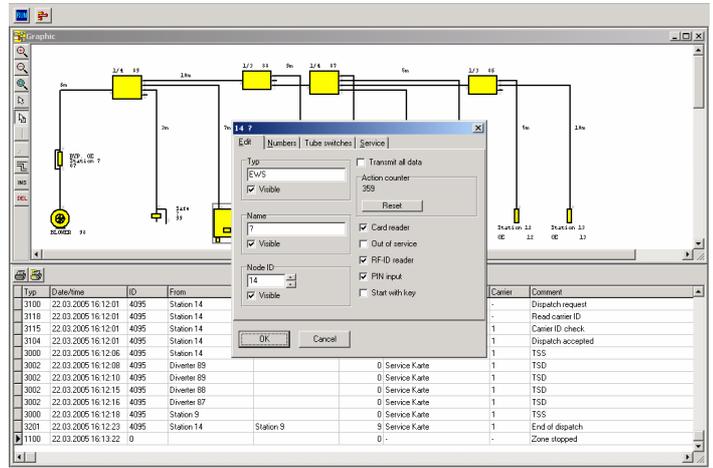
All transactions are monitored in **graphics** on the PC's CRT.

Complete audit trails which detail **date, time, sending station and receiving station** are displayed in real time and can be output to a printer.

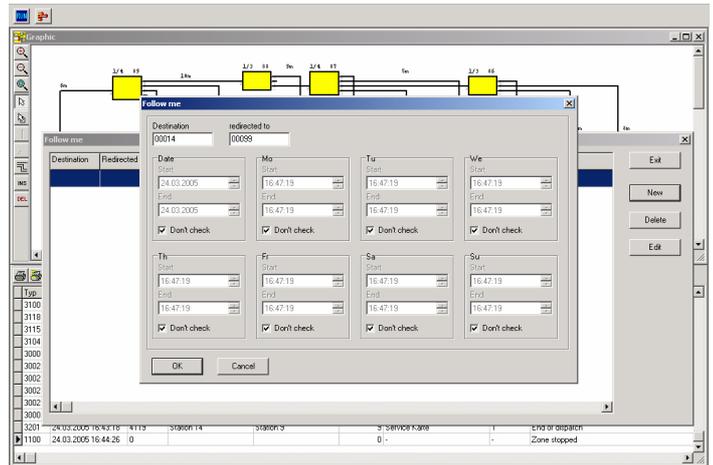


Service and installation mode:

Different access authorisation with swipe-card, pincode or transponder



Edit the follow-me configuration:



Systemdescription MultiCash

Features:

Operating system: Windows XP

PC keyboard, 17" monitor, optional TFT monitor

Graphic display of the zone and its operating states

Graphic control of the route of carriers

Status display of the zone in different colours

Activation and control of all aggregates in the service mode

Return information occurs in plain language and as clearly identifiable symbols.

Modem link for remote operation possible

Data protection through password

A program mode enables the service technician among other things to program the system topography and the system data directly via the PC keyboard and mouse. Modifications are possible anytime.

All system set-ups can be controlled and analysed in the service mode via the PC.

A transmission which is interrupted through a power failure will be continued through "autostart" immediately after the failure.

Disturbed system parts will automatically go off-line. As far as pneumatically possible the function of the remaining system will not be influenced.

Central control with USB interface

Printer interface

Data transmission via CAN BUS

The system can manage up to four safes. The individual receiving capacities are programmable.

Transmission protocol:

- in MS Access format

- All data will be recorded continuously in the background.

- Display adjustable through a filter

- Protocol printout recallable anytime as standard

- Protocol printout as sum report

Protocol exportation:

- Manually, - Automatically time controlled, - Automatically after printout (sum report)

Protocol importation:

- Through the MS Access format the exported protocol is importable from almost any database. Statistics, e. g. with Excel, are possible.

System control – all stations and diverters are controlled continuously.

Tube switches are controlled, recorded and analysed.

Positioning procedures are controlled concerning timeout, over current and sensor defects.

CAN open compatible network protocol. External devices can be integrated into the control of the pneumatic tube system.

All diverters and stations are equipped with a flash storage. Therefore, a firmware update is possible on site.

All timeouts will be calculated automatically by means of the tube diameters and the tube lengths. A high operating security and short running times are thereby achieved.

Stations can be put out of operation via the PC (e. g. in case that cash registers should not be used for a certain time)

Stations with own controls can be blocked for sending- and receiving.

Sending blocking also possible with key switch

In order to identify the carriers explicitly, the stations can be equipped with a transponder scanner. The corresponding data are documented in the protocol.

Users can attribute themselves to carriers independently (transponder facility necessary). This is recorded. When sending a carrier, the carrier as well as the user will be explicitly registered and recorded.

Simple and time-controlled deputy mode

When a fire detection system is connected, the pneumatic tube system will immediately turn off the blowers in case of a fire, in order to prevent the dissemination of smoke and dangerous gases.

In case of disturbance the stations will display the point of disturbance.

Automatic and manual clearing

The station display shows all important information in a multi-line plain language.

Each station with a display comes also with an electronic station list. Through key-press a programmed destination from A to Z can be selected. It is not necessary anymore to enter the number of destination.

Depending on the operating panel a connection of up to 3 arriving signals is possible as standard, an extension up to 16 signals is possible. Several numbers of destination can be summarised and connected to one optic and/or acoustic signal

The arriving signal will be deleted when a carrier is taken out through a simple key-press or it will alternatively turn off after 10 seconds (option).

Depending on the operating panel the selection of destination takes place through single keys or through a key block.

The information about the states of operation are indicated at the station via LED or additionally in a display.

Stations can be blocked and reactivated via PIN code. (This is registered in the protocol.)

For the identification of the sender a station can be activated by means of a swipe-card. This transaction is registered in the protocol or in the printer.