

OLSBERG

Instruction Manual



OLSBERG
AirCom Zentral

Heating and ventilation system

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This instruction leaflet must be:

- handed to the user after installation. The user is also to be instructed on the way this appliance works.
- read carefully, retained for further use, and handed over to a new owner/user.
- given to any maintenance engineer before repair work is carried out.

Decentralised ventilation and central heating in one system

An apartment ventilation system not only saves energy, it also makes an important contribution to your health.

Quality of room air

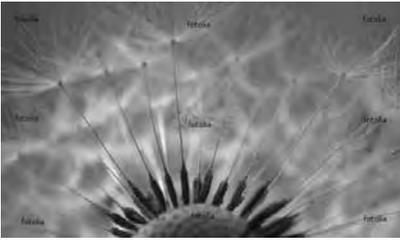
- Continuous fresh air supply without draughts
- Continuous filtering of the air entering the dwelling - allergy sufferers can breathe again - pollen, dust and mites don't have a chance!
- Less noise disturbance as the windows can be kept closed
- Damage to the building fabric (mildew and mould) due to high air humidity and false ventilation can be prevented
- Steam and smells from bathroom and kitchen extracted

Energy savings

- You will save heating costs as up to 70% of the heat from the extracted air is recuperated.
- Low energy consumption relieves the environment and reduces CO₂ pollution

Easy installation

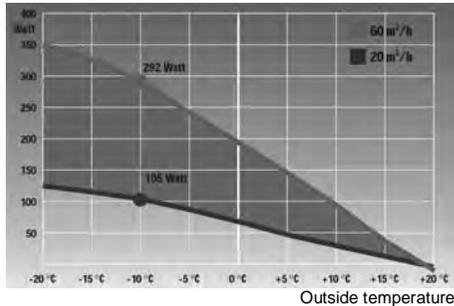
- The decentralised apartment ventilation system from OLSBERG can be installed room-by-room, in combination with a central heating system and with little installation effort
- Retroactive combination with an existing central heating system is easily possible
- Just two small holes in the wall per unit necessary, no need for a complete ventilation duct system



How it works / construction diagram

Heat recuperation (W)

at a room temperature of 20°C

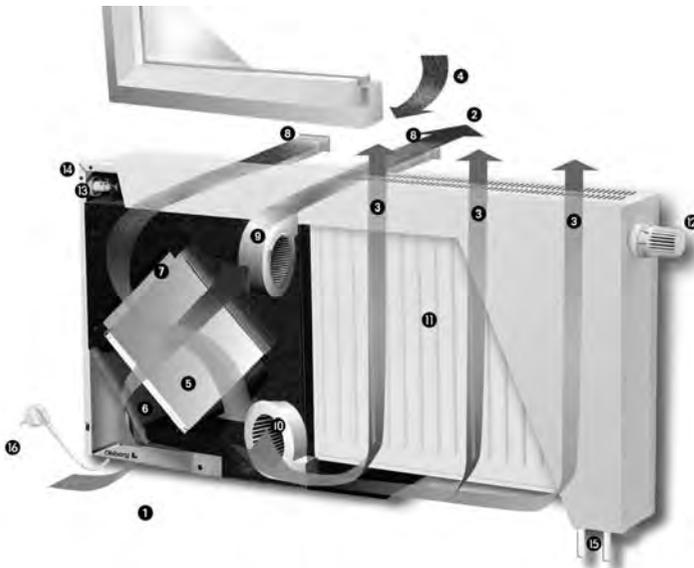


The diagram shows the heat recuperation from the exhaust air, dependent upon the outside air temperature and the air-flow volume - which is infinitely variable from 20 to 60m³/h on the appliance itself - at a room temperature of 20°C.

The OLSBERG AirCom Zentral has two fans which simultaneously purge exhausted air from, and introduce fresh air to the room. The exhaust fan removes the stale air from the room through a cross-flow heat exchanger. At the same time, the fresh-air fan brings in air from outside, through the cross-flow heat exchanger into the room. A heat recuperation of up to 70% can be achieved. The fresh air and exhaust air filters prevent penetration of dust and pollen and protect the ventilation module from excessive contamination.

The fresh air which is introduced into the room is pre-heated in the cross-flow heat exchanger by the exhausted air. Following this, the pre-heated air is drawn across a radiator. The air is then heated up to room temperature level and is then passed through the air-outlet grille in the appliance top panel into the room to be heated. Any draughty feeling is thus eliminated. The radiator is supplied with hot water from the central heating system, the temperature of this water being dependent on the flow temperature control setting. The fine adjustment of the room temperature takes place using the thermostat valve on the radiator.

Basic principle diagram



- | | |
|---|---|
| 1 Exhaust air from room | 9 Radial fan for exhaust air |
| 2 Exhaust air to outside | 10 Radial fan for fresh air |
| 3 Fresh air to room | 11 Radiator |
| 4 Fresh air from outside | 12 Radiator thermostat valve |
| 5 Cross-flow heat exchanger | 13 Retractable rotary knob for infinite adjustment of fan speed |
| 6 Exhaust air filter | 14 Retractable rotary knob „Ventilation OFF/ fresh air only/ heat recuperation operation“ |
| 7 Fresh air filter | 15 Flow and return to central heating |
| 8 Air duct in wall with exterior grille | 16 Plug for ventilation unit |

General

Please read this instruction carefully. It contains important information on safety, installation, use and maintenance of the AirCom Zentral.

The manufacturer cannot be held responsible for problems occurring when the following instructions are not adhered to. The appliances must only be used for the function intended.

Delivery, Packaging, Recycling

To facilitate transport and handling, the ventilation unit and radiator cabinets are packaged separately.

The packaging of your high-quality OLSBERG heating-ventilation system has been limited to the minimum necessary for safe transport and is made entirely of recyclable materials.

The packaging and appliance parts have been marked according to present requirements and/or possibilities to allow the best possible disposal or recycling at a future date.

Packaging materials, replacement parts and appliances or components to be scrapped must all be disposed of correctly according to regulations.



Disposal of old heaters

Old electric and electronic devices often contain valuable materials. But they may also contain harmful ingredients which were necessary for their function and security. In normal waste disposal or incorrect treatment they could be harmful to the environment. Please help to protect our environment! Please do not add your old heater to normal waste in any case. Dispose of your old heater according to the local regulations.

Instructions for the Installer

Positioning and Installation

- The electrical installation of this appliance must be carried out by an approved electrician or by trained personnel
- Local safety regulations must be adhered to.
- In bathrooms, the AirCom Zentral is to be positioned in such a way that the electrical switch and retractable rotary knobs cannot be touched by someone in the shower or bath. In humid rooms, the appliance may be installed in Protection area 3 (according to VDE 0100, Part 701).
- Make sure that the exterior grille on the fresh air and exhaust air ducts are regularly cleaned. Installing the appliance under a window aids this considerably.
- If the AirCom Zentral is installed in multi-unit buildings for which separate billing per apartment is executed, this can only be realised through heat meters, it cannot be realised through tube evaporators or similar devices. The reason is that due to the different flow speeds of the incoming air over the radiator an exact determination of consumption cannot be ascertained through the evaporation principle.

Procedures to be followed

Following safety standards are to be adhered to at both planning and installation stages:

- VDE 0100
(Construction of high-voltage installations up to 1000V)

Choosing the position

The ventilation appliance is designed to be mounted on an external wall, as the fresh-air and exhaust-air ducting must be run to the outside. Preferably, a position under a window should be chosen, as the cold air sinking from the window will then be directly heated.

The wall must be able to take the weight of the appliance. Please, therefore refer to the weights given in the "Technical Data" section. If there is any doubt as to the strength of the wall, consult an expert.

Device-side preparation for installation

The ventilation appliance should only be removed from its packaging near to its place of final assembly.

Note: Do not lift the appliance out of the packaging by means of its top or front panel! The top and front panels are only loosely fitted!

- Unpack the appliance.
- Remove the front panel. To do this, push the front panel approx. 1cm towards the top side of the appliance and pull it forward and away.
- Pull the top panel upwards out of the spring shackles, then tilt it towards the rear in order to remove it from the slider (Pos.3).

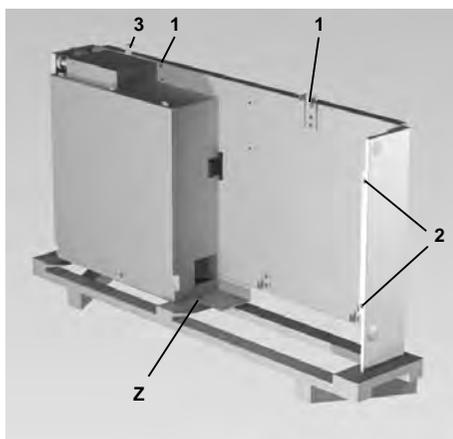


Fig.1

- Remove the wall-mounting strip. To do this, remove the screws (Pos.1) and take off the bracket to the rear.
- Take the appliance off the wooden palette. To do this, remove the screw (Pos. Z). The appliance will tend to tip backwards when doing this, thus only remove the appliance from the palette once the wall-mounting strip has been attached to the wall and the appliance can be immediately mounted onto it.

Minimum clearances

The AirCom Zentral shall be mounted flush to the wall.

Following minimum clearances must be adhered to:

- from the right-hand side panel to install the thermostat knob 10cm
- from the left-hand side panel to remove the rotary knobs..... 10cm
- above the top panel to hinge open the top panel..... 13cm
- The free flow of convection air into, and out of the appliance must be ensured both at the top, and at the bottom (recommendation: 10cm) of the appliance.

On-site preparation for installation

Before the appliance is finally installed, the flow and return pipework from the heating system, the external air ducts and a suitable earthed socket 230V~ must be installed.

The appliance itself is always to be mounted using the wall-mounting strip (Fig.3), which is to be fixed to the wall with suitable material, dependent on the wall type.

Flow and return pipework

Suitable heating pipework (DN15) is to be installed for the flow and return connections to the radiator. The connection to the radiator (all connections G $\frac{1}{2}$ "-internal thread) is made using industry standard fittings/connectors.

Each heating-ventilation system contains a valve-controlled radiator which is factory-prepared for a bottom-right connection (50mm) to the heating system. The heating pipes come either from behind out of the wall or from below out of the floor for this type of connection.

If the heating pipes come sideways out of the wall, the radiator is to be converted to a right-hand connection to the heating system as described on page 33.

The position of the heater connections in the appliance is described in Fig.4 and Fig.5. The installation of the heating pipework flow and return and/or the installation of the appliance to the already installed pipework takes place according to the connections described above.

Ensure that sufficient convection air can enter between the base of the appliance and the floor!

Mark the position of the air ducts in relation to the flow and return heating system pipework.

The position of the heating pipes to the connectors on the radiator is dependent on the dimensions of the fittings used. Dimension "X" in Fig.4 must be especially heeded when using angled connectors for a bottom-right connection!

Always use shut-off connectors with draining valves as radiator connectors.

Two screw-in fittings ($\frac{1}{2}$ " x $\frac{3}{4}$ " with internal hexagonal thread) are provided with the heating-ventilation system for a flush-sealing lower connection to the valve-controlled radiator. In order to facilitate the installation, OLSBERG offers a separate template as an accessory that determines the position of the air ducts and/or the wall-mounting strip in relation to the lower edge of the pre-fitted connector fittings on the valve-controlled radiator (Fig.3).

External air ducting

Before the appliance is installed, the appropriate external air passages must be made in the outside wall. This is done – dependent on the wall material – by installing suitable ducting in the wall (if necessary with a protective grille on the outside end).

Round ducting “System 100” (external diameter 104mm) or flat ducting “System 100” (external dimensions 54x110mm) should be used.

The air ducts must be cut off flush to the inside of the wall and should be run with a slight downward incline of 2-3° from inside to out!

The positioning of the ducts in the wall is determined according to Fig.4 and Fig.5. The wall-mounting strip can be used as a template to mark the positions (Fig.3)

The left hand duct is always for the fresh air inlet and the right hand duct is always for the exhaust air outlet.

The knock-outs in the wall-mounting strip are larger than the external dimensions of the ducts!

Take note of the configuration of the air ducts in relation to the flow and return pipework!

Earthed plug and socket 230V~

The appliance is of the plug-in type. An earthed socket 230V~ is thus to be installed at a maximum distance of 50cm below the left hand side panel of the appliance.

In order to prevent the connecting cable being seen when the heating-ventilation system is finally installed, we recommend, at least in new buildings, that the socket be installed in the hatched area under the appliance as per Fig.6.

Plug the appliance in only after all installation work has been completed!

Dimension diagrams

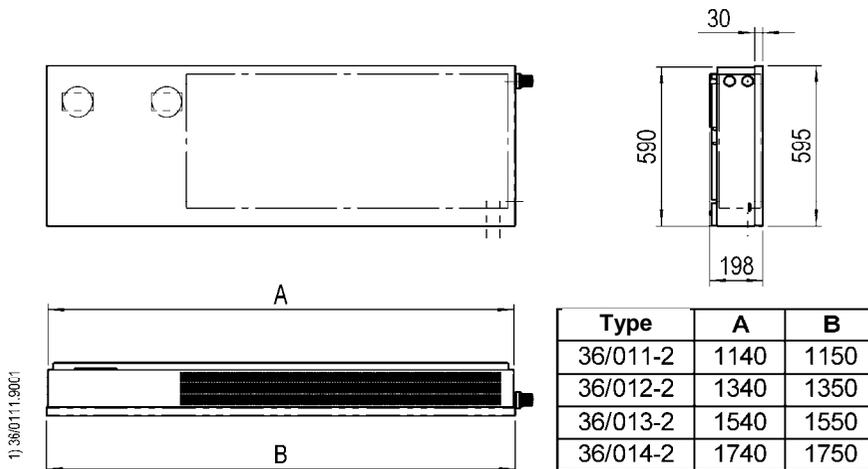
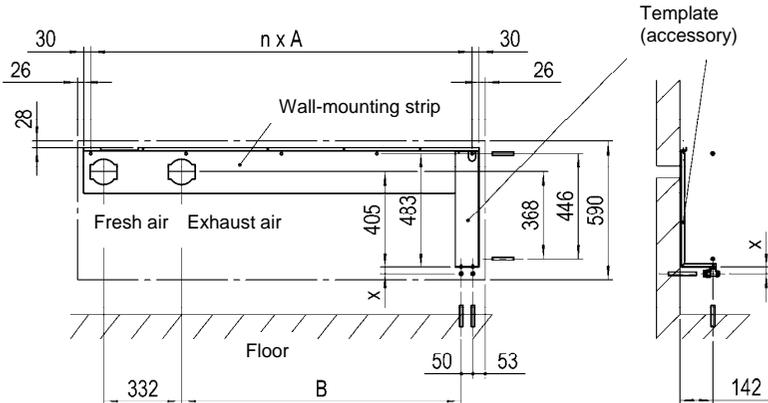


Fig.2 External dimensions of the appliance

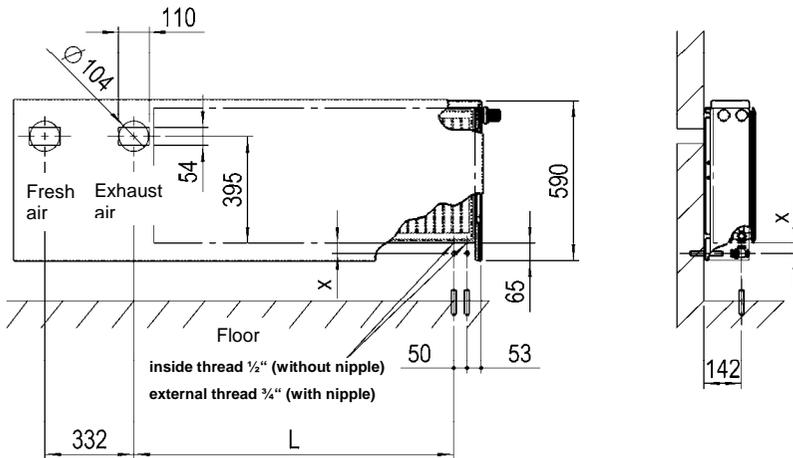


X: Dimension of radiator connector (angle fitting) from middle of heating pipework to lower edge of radiator fittings

2) 36/011..9002

Type	A	n	Number of holes	B
36/011-2	514	2	3	593
36/012-2	614	2	3	793
36/013-2	476	3	4	993
36/014-2	407	4	5	1193

Fig.3 Wall-mounting strip / Installation template

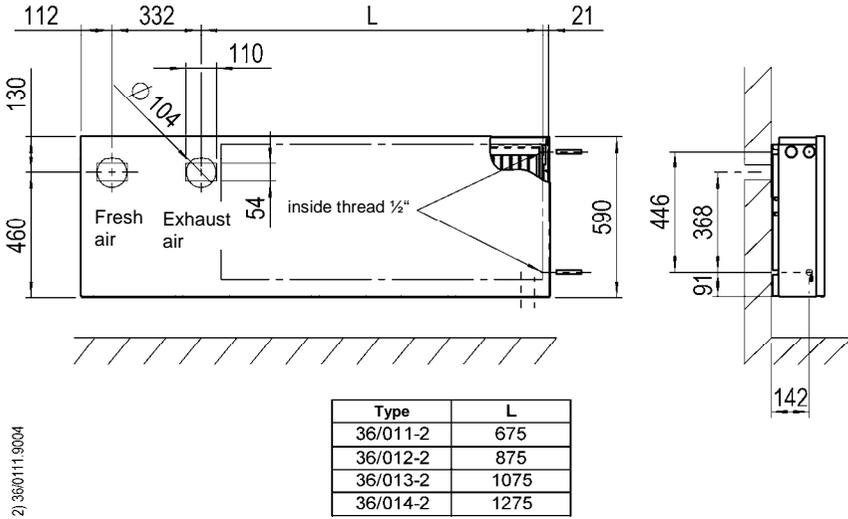


Type	L
36/011-2	593
36/012-2	793
36/013-2	993
36/014-2	1193

X: Dimension of radiator connector (angle fitting) from middle of heating pipework to lower edge of radiator fittings

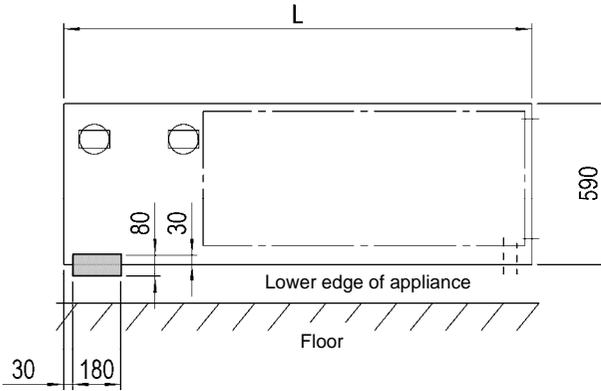
1) 36/011..9003

Fig.4 Configuration Air ducts / Radiator connectors / Heating pipes - Connection from below



2) 36/0111.9004

Fig.5 Configuration Air ducts / Radiator connectors / Heating pipes - Connection from side



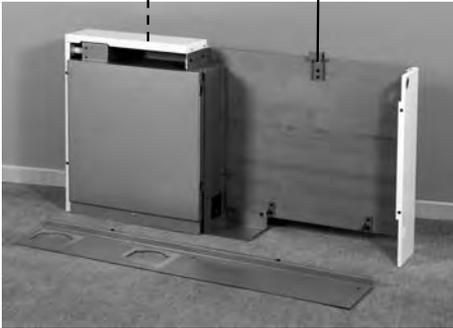
1) 36/0111.9005

Type	L
36/011-2	1140
36/012-2	1340
36/013-2	1540
36/014-2	1740

Fig.6 Location of earthed socket

Assembly

Wall-mounting strip fixing screws



1

Opening the appliance

Remove the front panel of the appliance. To do this, push the front panel approx. 1cm towards the top side of the appliance and pull it forward and away.

Remove the top panel of the appliance. To do this, pull the top panel on the right hand and left hand side approx. 3cm upwards (until they slip out of their spring clips). Then tilt the top panel towards the rear panel in order to lift it out of the slider.

Take out the parts supplied (1 Thermostat head, 2 screw fittings, 1 sealing fitting).

Remove the wall-mounting strip from the appliance. To do this remove the two fixing screws (self-tapping screws with large head) in the oblong holes top right and left!



2a

Offer up the wall-mounting strip to the heating pipes/connectors according to Fig.3 in a horizontal plane and fix it firmly to the wall. In order to avoid short-circuiting or leakage of air, it is imperative that the wall on which the wall-mounting strip is mounted be flat and smooth. If this cannot be guaranteed, a suitable compensatory material must be placed at the fixing locations. In the area of the air ducts, PU-foam or silicon must be used to provide a seal between the mounting strip and the wall.

Plugs and screws used to fix the appliance must be suitable for the type of wall on which it is to be mounted (10mm holes in the wall-mounting strip).



2b

If the radiator connections are from below, we recommend you use the separate template we offer as an accessory to facilitate the installation.

The template is fixed with 2 screws at the top right hand side of the wall-mounting strip.

The template simulates the radiator. The screws on the lower edge represent the flow and return connections. The screw heads are thus to be fitted into the angle connectors for flow and return and then aligned horizontally in the wall-mounting strip. The holes for the air ducts and those for the wall-mounting strip fixing screws can thus be marked out.

Remember to remove the template once the wall-mounting strip has been fixed.

We recommend that the radiator connectors and fittings be initially loosely fixed onto the heating pipework coming out of the wall or the floor. The final installation of these takes place once the radiator has been installed in the appliance.



- 3a** Hang the AirCom Zentral cabinet onto the wall-mounting strip in such a way that the upper edge of the appliance rear panel lies behind the upper edge of the wall-mounting strip. Align the cabinet approximately in the middle of the wall-mounting strip, push it against the wall and fix it to the strip at the top left and right by means of both self-tapping, large-headed screws.

The oblong holes in the appliance rear panel allow a sideways adjustment of the appliance against the wall-mounting strip of approximately 5mm. Tolerances can thus be compensated.

The sealing strips on the rear panel must sit flush on the wall-mounting strip.

If the heating pipework comes from the side, remove the plastic cap at the bottom of the right hand side panel so that the return pipe can be fitted later.



- 3b** If the heating-ventilation system is to be fitted to heater pipework coming from the wall on the left side of the appliance (for instance in existing buildings), OLSBERG offers suitable connecting pipe sets as an accessory.

This pipework set makes the connection at the rear of the appliance to the connections on the right hand side of the appliance.

The installation of the pipework set to the rear panel of the appliance takes place before the heating-ventilation system is fixed to the wall-mounting strip.

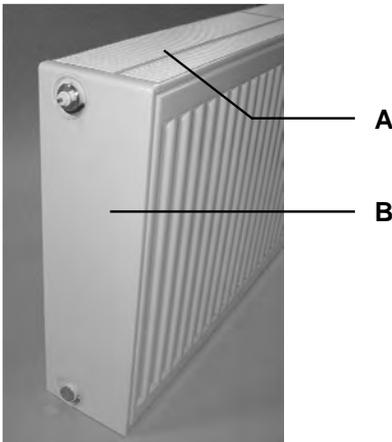
Installation sequence of pipework set:

- Fix the supplied plastic coated steel-spring clips with screws 2.9x6.5 into the pre-punched holes in the top and bottom of the rear panel.
- Insert the pipework set into the steel-spring clips (pipework with corner valve for flow points upwards, pipework with corner valve for return points downwards).

Note: The connection to the heating system takes place only after the radiator has been installed in the appliance.

Attention: Any side cladding elements (B) left and right that may be present and the cover (A) on the radiator must be removed before installation in the AirCom Zentral.

This is the only way that the necessary flow of incoming air through the radiator can be ensured, and this is the only way that the AirCom Zentral can work correctly.





4 Remove the transport packaging and the protective caps from the radiator.

If the heater pipework runs in from below, screw both fittings $\frac{1}{2}$ " x $\frac{3}{4}$ " (with internal hexagonal thread) firmly into the flow and return connectors of the valve-controlled radiator so that they form a good seal.

If the heater pipework runs in from the side, the radiator must be converted for a right hand connection. To do this, unscrew the valve insert at the top right, and the stopper at the bottom right of the radiator. The stopper fittings which had been removed already are then screwed firmly into the flow and return connectors of the valve-controlled radiator to form a seal.

Make sure that all stopper fittings and the bleeder valve (top left of the radiator) are firmly screwed into the radiator! Insert the radiator into the cabinet in such a way that the rear heating fin sits in the notch provided at the bottom left and right of the appliance rear panel. Secure the radiator at the top with the fixing bracket. The notches in the bracket reach over the rear heating fin.

Align the radiator in the appliance (clearance to left side inner panel approx. 15mm, to right side panel of appliance approx. 20mm). Fix the screws at the top right and left of the fixing bracket firmly.

Connect the radiator firmly to the heating system. Make sure that all connections are sealed and firm!

If the heater pipework runs in from below, screw the thermostat head supplied to the valve at the top right of the radiator.

If the heater pipework runs in from the side with a connection set, screw the thermostat head supplied onto the corner valve at the top right.

Fill the radiator with water.

The radiator bleeding takes place at the top left side.

Make sure that as little water from the bleeder valve as possible gets onto the metal parts in the proximity or runs into the appliance! Catch, or wipe up the water with a sponge or absorbent cloth!

5 Close the appliance back up.

When replacing the top panel, refix the slider (Fig.1, Pos.3) and make sure that the locking bolt snaps audibly into the spring clip element in the top of the appliance side panels.

When replacing the front panel make sure that the 4 countersunk screws (Fig.1, Pos.2) fit into the keyholes in the front panel. Press the front panel downwards until it locks.

Put in the device plug (see also the chapter "Electrical connection").

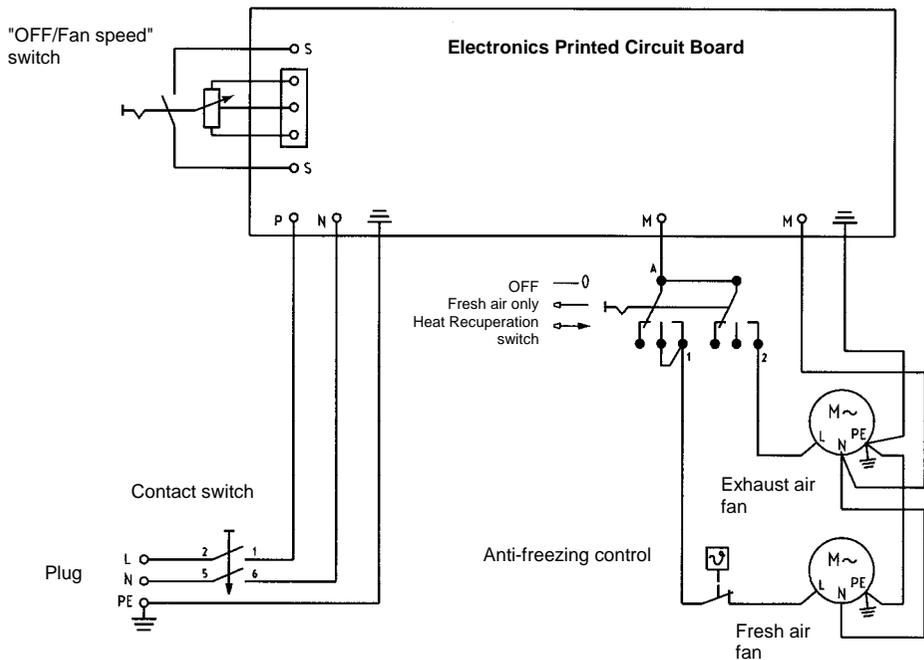
Electrical connection

The AirCom Zentral is factory delivered as a plug-in appliance.

The cable is at the lower left of the appliance / ventilation module and is secured for transport with a cable binder.

Only plug the device plug into the protected earthed socket when all mounting tasks have been concluded!

Circuit diagram 2) 78/4536.0112



Caution! High Voltage! Pull out plug before accessing terminals.

Rating Label

The rating label contains all technical data specific to the appliance. The rating label is found on the sealing panel of the ventilating module (remove the front panel to get at it).

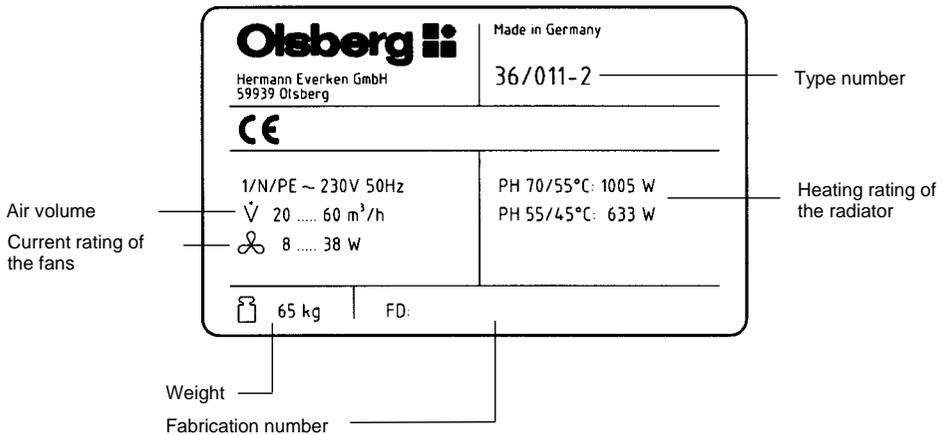


Fig.7 Sample rating label for type 36/011-2

Spare parts

By any queries concerning spare parts, it is necessary to quote the type number and the fabrication number printed on the rating label.

We recommend that you note the type number and the fabrication number here:

Type number: **36/01**__-2

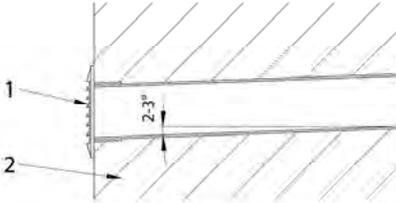
Fabrication number: _____

Accessories

Round duct standard set; Flat duct standard set

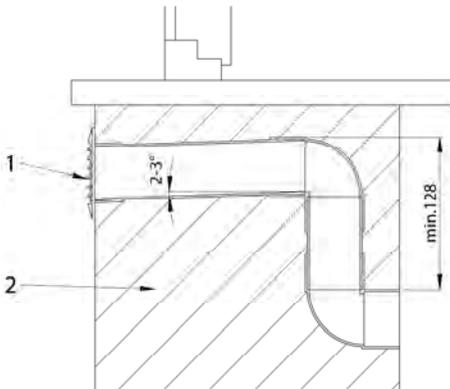
With the round duct standard set, as well as the flat duct¹⁾ standard set, short, straight outside air connections with exterior grilles (1) can be established. The mounting wall (2) is directly penetrated.

The duct set is designed for a maximum wall thickness of 500 mm.



Flat duct extension set

If the mounting wall (2) should be penetrated with an offset, for example to have the exterior grille (1) terminate directly under a window sill, then in addition to the flat duct¹⁾ standard set, the extension set must also be used.



¹⁾ When using flat ducts, compared with round ducts there is increased resistance, which can result in increased operating noise. For this reason, if possible always use round ducts.

Wall-mounting strip

(Picture 2a, Page 32)

The wall-mounting strip, which is separately packed, serves as a marker for the position of the air ducts during the construction phase.

Note: The wall-mounting strip is absolutely necessary for fixing the appliance. It comes supplied as standard with every appliance.

Mounting template

(Picture 2b, Page 32)

This template serves to facilitate installation when the radiator connections run in from below.

The template is fixed to the wall-mounting strip with 2 screws and determines the position of the air ducts and/or the wall-mounting strip in relation to the lower edge of the pre-fitted connector fittings in the ventilation radiator.

Connecting pipework set

(Picture 3b, Page 33)

This set allows the heating-ventilation system to be connected to heater pipework running in from the wall on the left hand side of the heater.

The pipework set makes the connection behind the appliance to the connections on the right hand side.

Spare filter set

The spare filter set consists of 10 original filters for replacement, Order No. 36/0112.9299.

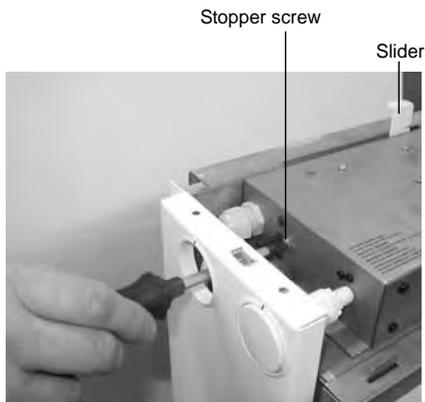
Commissioning

The following operations are to be tested once the appliance has been finally installed. For this the ventilation module must be closed, otherwise the module is de-energised.

- Fan regulation (ON, max. and min. speed), front retractable knob in the left hand side panel.
- Operation type switch (fresh air, exhaust air, OFF), rear rotary knob in the left hand side panel. This switch is factory-equipped with an anti-over twist stop. Ventilation appliances that are designed into dwellings according to the German Energy Saving Regulations are obliged to be so equipped, that the user can only operate the appliance in its "fresh air, exhaust air, OFF" mode. For this reason, this switch is equipped with a stopper screw which prevents the switch being over twisted. Appliances that are not designed in according to the German Energy Saving Regulations can have this screw removed so that the operating mode "Fresh Air" (summer operation in order that fresh air can be brought into the building at night without heat-recuperation), i.e. only fresh air is drawn into the room, the exhaust air is not removed, the exhaust air fan is switched off. The stopper screw on the switching plate at the top of the ventilation module must be removed for this. In order to remove this stopper screw, first remove the front panel in the top of the ventilation appliance. Take out the Philips screw.
- Thermostat valve
- Slider to close up the air channels

Re-assembly

Appliances that have already been in operation or have been taken apart and repositioned must be re-installed according to these instructions. The commissioning tests described on this page must also be carried out.



Operating Instructions for the User

Operation

Closing the fresh air ducts

If the appliance is out of operation, the external air ducts can be closed by means of the slider (Fig.1, Pos.3) on the left hand side of the appliance.

The noise emission from outside is reduced through this measure.

Setting 0 = closed; Setting 1 = Open



The operation of the ventilation radiator is done by means of rotary knobs on the left hand side of the appliance. A light press of the rotary knob causes it to spring out; a further press pushes it back in again. The rotary knob can be recessed at any setting.

Fan regulation

Front rotary knob | 6 5 4 3 2 1 :

The front rotary knob switches the fresh-air and exhaust-air fans on and off. The fan speed can also be infinitely varied using this rotary knob.

I - Fan off

6...1 - Fan on

Knob setting **6**: Maximum setting - approx. 60m³/h

Knob setting **1**: Minimum setting - approx. 20m³/h

The direction of the rotary knob is from „I“ to „6 5 4 3 2 1“ and back. It is not possible to turn the rotary knob from „I“ to „1“ or from „1“ to „I“.

We recommend the setting 2-3 for continuous operation (dependent on the size of the room). If increased ventilation is necessary, the fan speed should be temporarily increased. This naturally also increases the noise of operation.

Operation mode switch

This rotary knob is factory set for only fresh air and exhaust air operation and may only be freed for other operations in dwellings in which the appliance has not been designed in according to the German Energy Saving Regulations. To free the switch, consult your installer.

Rear rotary knob 0 / ← / ↔ :

The rear rotary knob switches the operation modes.

0 - OFF; fan not running

← - Only fresh air mode

↔ - Ventilation with heat recuperation, fresh-air and exhaust-air fans in operation.

Heater regulation

The thermostat valve for setting the desired room temperature is situated on the right of the appliance. The operation and adjustment possibilities are dependent on the type of thermostat used. Please consult the instructions included with the thermostat for the operation and adjustment possibilities.

Note: The factory-supplied thermostat Type "Uni XH" has an OFF setting. This means that the radiator is fully closed in this setting. Note that in this setting there is no frost protection and that the radiator can freeze up.

Care and maintenance

- The care and maintenance intervals for the AirCom Zentral are very dependent upon the location and operating conditions to which they are subjected. It is recommended, however, that this work be done at least once a year.
- Maintenance consists essentially of occasional monitoring of the radiator and the air ducts for dust as well as a regular cleaning of the filters and possibly the cross-flow heat exchanger and the condensate sump.
- The external grilles of the air ducts are to be cleaned according to the general outside conditions - however, at least once a year.
- The cross-flow heat exchanger can be cleaned using hot water with normal household cleaning fluid. **Take care not to damage the heat exchanger.** The cross-flow heat exchanger must be dry before replacing it.
- Do not clean the surfaces of the appliance with "soft-scrub" or other abrasive cleaners. Always use a normal household cleaning fluid.

Before undertaking any maintenance or cleaning work on the appliance, first remove the front panel (B, Fig.8). To do this it must be pushed approx. 1cm upwards and the removed towards the front.

In order to clean the radiator (K, Fig.8) on the right hand side of the appliance, the top panel (H, Fig.8) must also be removed. To do this it must be pulled upwards out of the spring clips on the right and left side. Then tilt the cover towards the rear panel in order to lift it off the sliding valve.

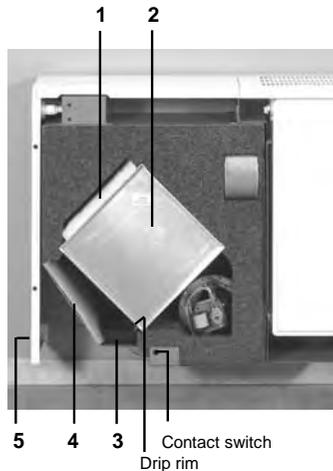
In order to clean the parts in the ventilation module (C, Fig.8) (cross-flow heat exchanger, fresh-air filter, exhaust-air filter, condensate sump), the sealing panel (D, Fig.8) must first be removed. To do this, push the locking mechanism (E, Fig.8) at the bottom of the sealing panel downwards. The panel springs out of the locking mechanism and can then be lifted forwards out of the retaining lugs.

A contact switch at the bottom of the ventilation module automatically switches off current to all electrical parts when the sealing panel is removed.

The ventilation module parts are to be removed in the following order:

1. Remove the fresh-air filter (1).
2. Remove the cross-flow heat exchanger (2).
Make sure that the front insulating part of the ventilation module is not removed with the cross-flow heat exchanger!
3. Remove the exhaust-air filter (4).
Note: The exhaust air filter can be removed from the ventilation module without having to first remove the cross-flow heat exchanger.

4. In order to remove the condensate sump (3), first take off the two tubes on the underside of the sump.



The parts are to be replaced in the reverse order to which they were removed.

The following important points are to be complied with here:

- The exhaust-air filter (4) (white, filter class EU5/F5) sits with its smooth side towards the condensate sump. The filter must be inserted firmly into the slots provided in the insulation parts!
- Insert the condensate sump (3) in such a way that it sits with its rear edge in the slot provided in the rear insulation part and with its right side under the drip rim of the cross-flow heat exchanger. The condensate sump must not extend out of the ventilation module. Replace the tubes on the lower side of the condensate sump.
- The cross-flow heat exchanger (2) is to be inserted with the drip rim at the lower left, so that it sits under the condensate sump.
- The fresh-air filter (1) (white, filter class EU5/F5) sits with its smooth side towards the cross-flow heat exchanger.
- Insert all parts in such a way that they sit flush to the guide slots and/or on to the supports.
- Hang the sealing panel over the ventilation module in such a way, that it sits flush and forms a seal. In order to create a seal, the panel must be hung over the ventilation module and then hinged downwards until a backward pressure is felt. Ensure that the pin at the bottom of the sealing panel sits back in the opening for the contact switch, and that the switch is operated correctly. In this position, lightly press on the sealing panel with one hand until the bottom locking mechanism engages.

Filter monitoring and changing

The rate at which the filter becomes dirty is essentially dependent on the conditions under which the appliance is installed and operates.

Dirty filters reduce the air-flow through the appliance. Slightly soiled filters should be freed of dust and replaced in the appliance. Heavily soiled filters should be completely replaced with new ones.

The appliance is factory set to prompt a filter change after 2000 hours of operation. This is done by means of a 3-time ring, which repeats every 5 minutes. Replace the filter according to chapter „Care and maintenance“.

Reset the operating hours to 0 as follows:

1. Remove the appliance plug from its socket.
2. Set the fan regulation rotary knob to 1 (lowest setting)
3. Plug the appliance back in, a ringing tone sounds in short intervals for a maximum of 2 minutes.
4. Set the fan regulation rotary knob to 6 (highest setting). The ringing tone stops.
6. Set the fan regulation rotary knob to the required speed.

Condensate indicator and emptying the condensate sump

The condensate indicator (5) is located at the bottom of the left hand side panel. The float in the observation glass indicates how full the sump is. If the float is at the top of the glass, the sump must be drained. To do this, remove the front panel and the sealing panel. Having done this the condensate can be drained from the sump using the rear drain tube. To do this, remove the rear tube from the condensate indicator tube and pull it forwards out of the appliance. Then hold the end of the tube down below the level of the sump so that the condensate can drain off into another vessel.

Cleaning the external wall ducting

In order to clean the air ducting in the external wall, the ventilation module (C, Fig.8) must first be completely removed from the appliance. To do this, unplug the appliance, pull off the front tube to the (previously drained) condensate sump and pull off the rotary knobs in the left hand side panel. After this, the ventilation module can be pulled forwards out of its spring locks (F, Fig.8).

The parts are to be replaced in the reverse order to which they were removed. The following important points are to be complied with here:

- The cable on the left hand side must not run behind the ventilation module, but must run along the side of it.
- The ventilation module must sit flush on the rear panel of the appliance. To do this, set the ventilation module on the appliance floor plate (G, Fig.8) and push it into a position in which the spring locks on both parts are facing each other. Then push the ventilation module into the spring locks.
- Replace the condensate sump indicator.
- Replacing the rotary knobs. When replacing the rotary knobs, ensure that the profile of the inside of the rotary knob fits with that of the regulator spindle. The operation mode switch must be replaced in the fresh- and exhaust-air position.
- Replacing the front panel. When replacing the front panel make sure that the 4 countersunk screws (Fig.1, Pos.2) fit into the keyholes in the front panel. Push the front panel downwards as far as it can go.

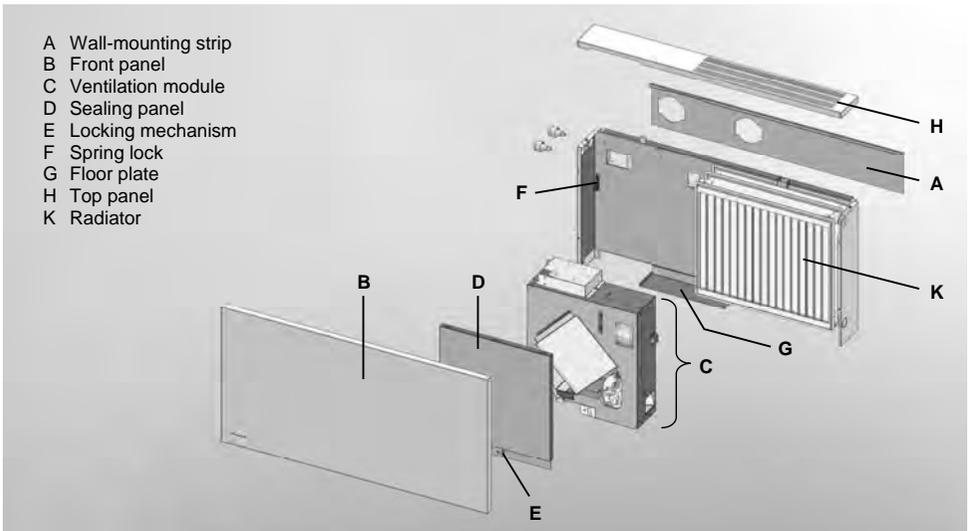


Fig.8

Procedures to be followed

- Do not block the free passage of convected air below the appliance. Do not block the air intake below the appliance!
- Do not block the free passage of convected air above the appliance. Do not block the air outlet slots at the top of the appliance!
- The AirCom Zentral is conforming to valid safety regulations. Repairs and service to the appliance must only be carried out by a competent electrician.

Trouble shooting

If the AirCom Zentral should not work for any reason, please first check the following procedures:

- Is the appliance plugged in?
- Are the circuit breakers in the distribution box loose or defect?
- Are the rotary knobs in the OFF position?
- Is the slider open (Position1)?
- Is the ventilation module sealed?

Our after-sales service team is of course always available to help you.

Technical Data

Type	36/011-2	36/012-2	36/013-2	36/014-2
Dimensions HxWxD in mm	595x1150x198	595x1350x198	595x1550x198	595x1750x198
Dimensions niche Min. HxW in mm	825x1350	825x1550	8025x1750	825x1950
Weight incl. water-filled radiator	65 kg	84 kg	103 kg	120 kg
Voltage / Frequency	1/N/PE ~ 230 V / 50 Hz			
Air flow volume	20 - 60 m³/h			
Fan rating	8 - 38 W			
Sound pressure level	26 - 48 dB(A)			
Heat recuperation from exhaust air	up to 70 %			
Radiator heating rating at 70/55°C at 55/45°C	1005 W 633 W	1340 W 844 W	1675 W 1055 W	2010 W 1266 W

The valve-type radiator is for bottom-right connection (50mm connectors) and for right hand side connection (connector clearance 446mm).

General guarantee conditions

Dear customer,

in guarantee case the country specified rights are valid which you may claim directly towards your dealer.



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