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1. User manual

This instruction manual contains information and instructions to enable the user to work safely, correctly and economically on the unit. Understanding and adhering to the manual can help one:

- Avoid any dangers.
- Reduce repair costs and stoppages.
- Extend and improve the reliability and working life of the unit.

PLEASE ENSURE TO USE THE RIGHT VERSION OF THE INSTRUCTION MANUAL SUITABLE FOR YOUR UNIT.

Intended use

The unit is to be used exclusively for the dissipation of heat from control cabinets and enclosures (stationary, not moving) in order to protect temperature sensitive components in an industrial environment. To meet the conditions of use, all the information and instructions in the instruction manual must be adhered to.



General danger

Indicates compulsory safety regulations which are not covered by a specific pictogram such as one of the following.



High electric voltage

Indicates electric shock danger.



Important safety instruction

Indicates instructions for safe maintenance and operation of the unit.



Attention

Indicates possible burns from hot components.



Attention

Indicates possible damage to the unit.



Instruction

Indicates possible danger to the environment.

2. Legal regulations

Liability

The information, data and instructions contained in this instruction manual are current at the time of going to press. We reserve the right to make technical changes to the unit in the course of its development. Therefore, no claims can be accepted for previously delivered units based on the information, diagrams or descriptions contained in this manual. No liability can be accepted for damage and production caused by:

- Disregarding the instruction manual
- Operating error
- Inappropriate work on or with the unit
- The use of non-specified spare parts and accessories
- Unauthorised modifications or changes to the unit by the user or his personnel

The supplier is only liable for errors and omissions as outlined in the guarantee conditions contained in the main contractual agreement. Claims for damages on any grounds are excluded.

3. Safety instructions

Upon delivery the unit is already meeting current technical standards and can therefore be safely taken into operation. Only authorised personnel is allowed to work on the unit. Unauthorised personnel must be prohibited from working on the unit. Operating personnel must inform their superiors immediately of any malfunction of the unit.

Please note that before starting to work on or with the unit, a procedure must be carried out inside the cabinet on which the unit is to be mounted.

Before commencing work inside the cabinet, the control cabinet manufacturer's instruction must be read with regards to:

- Safety instructions.
- Instructions on taking the cabinet out of operation.
- Instructions on the prevention of unauthorised cabinet reconnection.

The electric equipment meets the valid safety regulations. One can find dangerous voltages (above 50 V AC or above 100 V DC)

- Behind the control cabinet doors.
- On the power supply in the unit housing.

The unit has to be operated according to the type plate and the wiring diagram, and must be protected externally from overloading and electrical faults via suitable protective devices.



Danger through incorrect work on the unit

The unit can only be installed and maintained by technical competent and qualified personnel, using only supplied material according to the supplied instructions.



Danger from electrical voltage

Only specialised personnel are allowed to maintain and clean the unit. The personnel must ensure that for the duration of the maintenance and cleaning, the unit is disconnected from the electrical supply.



Attention

Damage to the unit through the use of inappropriate cleaning materials. Please do not use aggressive cleaning material.



Instruction

Damage to the environment through unauthorised disposal. All spare parts and associated material must be disposed according to the environmental laws.

4. Application

Air - water heat exchangers are intended as complementary accessories to large industrial equipment which include a motor-operated fan or blower together with a cooling heat exchanger. These may also include an electric heater. The fan or blower is intended to recirculate air and allow heat exchange. The heat exchanger is designed for chilled water or anti-freeze/corrosion inhibitor mixed water from a separate source.

The cooling function may be controlled by an on-board or remote controller or thermostat, a thermostatically controlled valve or an electrically controlled valve. Heating function, when installed is provided by an electrical heating element. The unit seals the cabinet which ensures that the clean air inside does not come into contact with the ambient air which may well be dirty or polluted. The unit is fit for purpose within the rated/declared ambient conditions (e.g. dusty and oily air or high air temperatures between 1°C and 72°C), also indicating the rated allowable ingress and environment.

Water quality

To ensure the maximum lifetime of an air-water heat exchangers, it is important to supply cooling water in conformity with the VGB Cooling Water Guidelines (VGB-R 455 P). The cooling water used must be soft enough to avoid scale deposits, but should not be too soft as this would corrode the heat exchanger. Where the cooling water is cooled for reuse, part of the water has to be changed with fresh water to prevent the concentration of hardness and salt content which makes the water more corrosive.

The main impurities and possible methods of eliminating them are given in the table below:

Pollution of the water

Mechanical impurities (dp > 2mm)

Excessive hardness

Moderate content of mechanical impurities and hardness formers

Moderate content of chemical impurities

Biological impurities (bacteria and algae)

Method of elimination

Filtration of the water

Softening of the water by ion exchange

Addition of dispersants or stabilisers

Addition of passivators and inhibitors

Addition of biocides

When the water is re-cooled, it is recommended that the water condition is maintained as close as possible to the following list of hydrological data:

Hydrological data

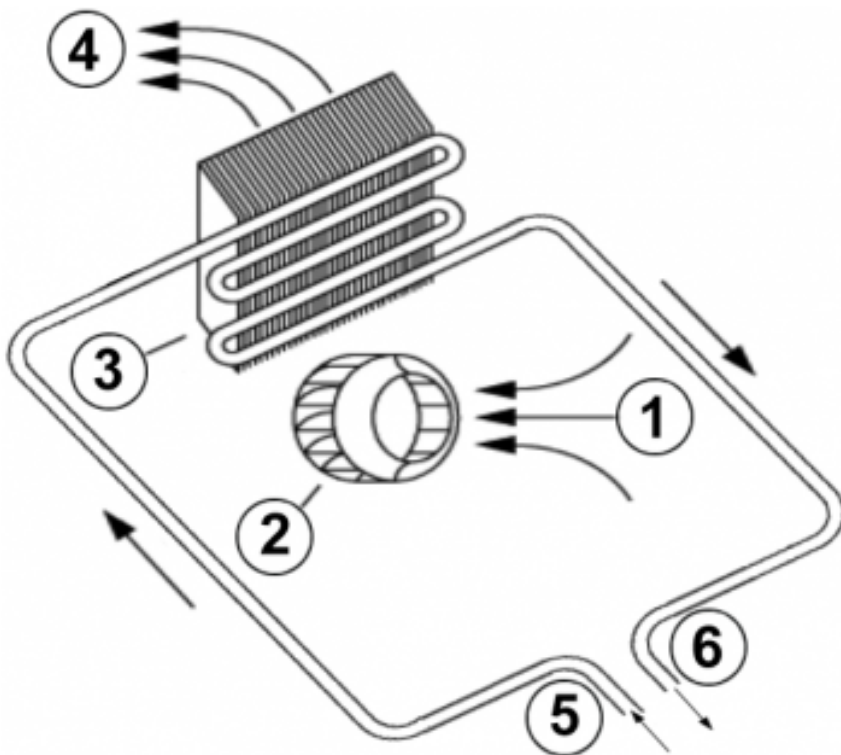
pH-values	7 - 8.5	
Carbonate hardness	>3 <8	°dH
Free carbon dioxide	8 - 15	mg/dm ³
Associated carbon dioxide	8 - 15	mg/dm ³
Aggressive carbon dioxide	0	mg/dm ³
Sulphides	free	mg/dm ³
Oxygen	< 10	mg/dm ³
Chloride ions	< 50	mg/dm ³
Sulphate ions	< 250	mg/dm ³
Nitrates and nitrites	< 10	mg/dm ³
COB	< 7	mg/dm ³
Ammonia	< 5	mg/dm ³
Iron	< 0.2	mg/dm ³
Manganese	< 0.2	mg/dm ³
Conductivity	< 2200	µS/cm
Solid residue from evaporation	< 500	mg/dm ³
Potassium manganate consumption	< 25	mg/dm ³
Suspended matter	< 3	mg/dm ³
(part flow cleaning recommended)	> 3 < 15	mg/dm ³
(continuous cleaning)	> 15	mg/dm ³

5. Functional principle

The air inside the control cabinet is moved over a laminar heat exchanger through which a coolant medium runs, making use of the counter-flow principle. The fan blows the warm air along the aluminium fins of the heat exchanger; it cools down and is then returned into the cabinet. The heat exchanger fan runs constantly, providing continuous circulation of the air in the cabinet. This circulation prevents hot spots within the control cabinet. During this process, the coolant heats up and is returned to the coolant supply system at an increased temperature.

In order to save operating costs, and in the interests of environmental protection, the water temperature can be reduced by re-cooling systems or cold water sets so that it can be reused in the heat exchanger. This process involves the water circulating in a closed circuit.

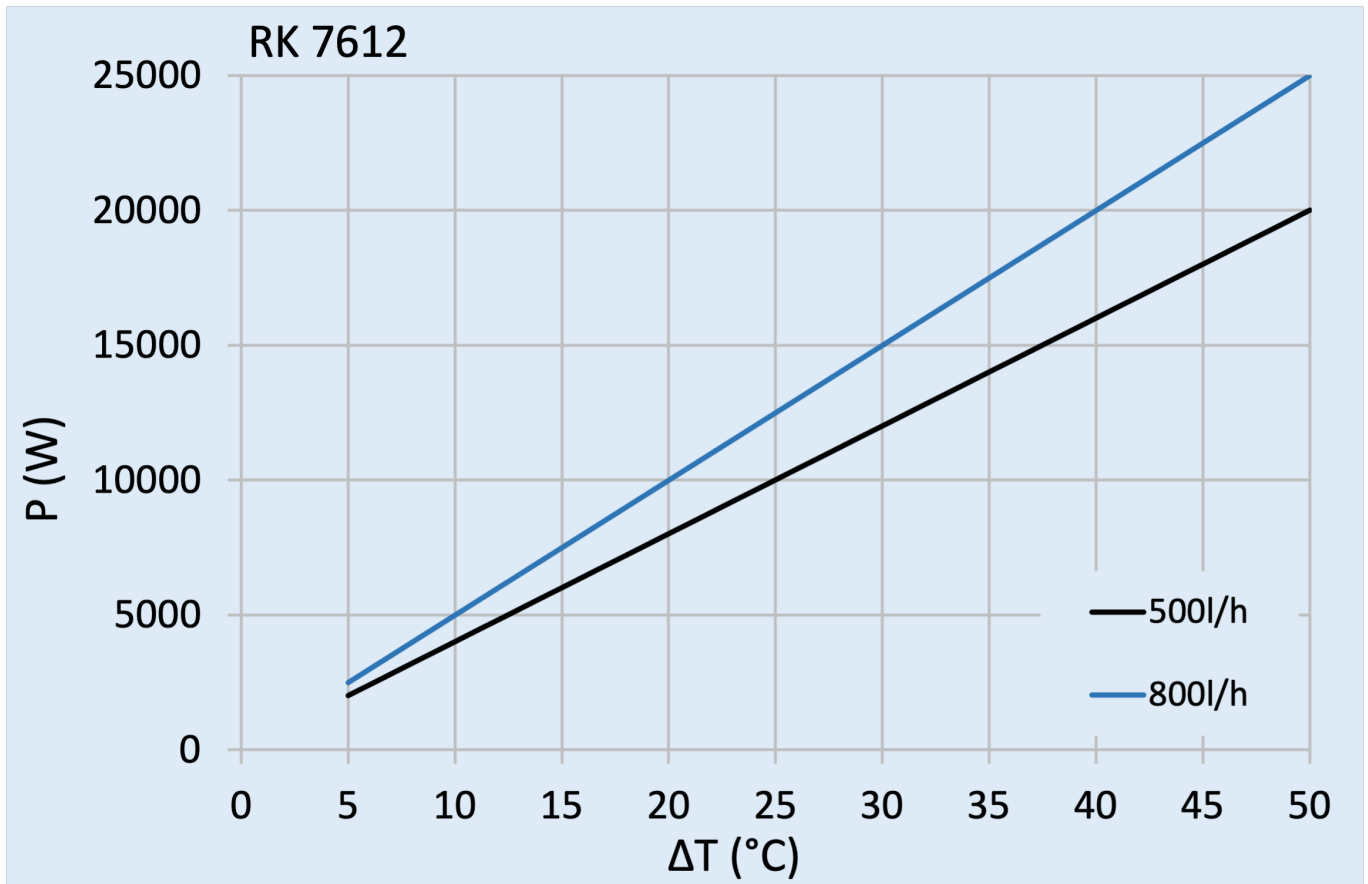
1. Air intake cabinet side
2. Radial fan cabinet side
3. Heat exchanger
4. Air outlet cabinet side
5. Water in
6. Water out



6. Technical data

Order Number	761205B101
Cooling capacity L35W10 (200 l/h)	12500 W (800 l/h)
Coolant	Water, light oils or similar
Operating Temperature Range	1°C - 60°C
Air flow volume (system / unimpeded)	2400 / 3760 m ³ /h
Mounting	Wall mounted / recessed
Housing Material	Mild steel, powder coated
Dimensions A x B x C (D+E)	1,650 x 600 x 378 (35 + 343) mm
Weight	70 kg
Voltage / Frequency	230 V ~ 50/60 Hz
Starting current	2.9 / 2.2 A
Max. current	1.3 / 1.8 A
Max. power	290 / 410 W
Pressure water circuit	10 bar
Water connection	Rp 1/2" - inside thread
Fuse	2 A (T)
Connection	5 - pole terminal for signals 4 - pole terminal for power
Ingress Protection	IP 55
Approvals	CE

7. Performance graph



8. Mounting



The power supply rating on unit rating plate must comply with mains rating.



Always disconnect the power supply before opening the unit.

Seifert heat exchangers have an extremely compact design and construction, giving them the advantage of occupying very little space. In addition, the RK-2114 A/AM, RK-2114 A/AM 632 and RK-2116 A/AM models can be mounted externally or internally, as required.

To achieve a good seal between the control cabinet and the heat exchanger, the unit's mounting surface on the control cabinet may need to be reinforced. The air intake and outlet must not be obstructed by equipment inside the control cabinet, so that the air is mixed thoroughly and thermal stratification is avoided.

For the heat exchanger to work perfectly, the cabinet must be completely sealed from its surroundings. An imperfectly sealed control cabinet will result in an increased level of condensation. The control cabinet should have a minimum of IP54 protection, in accordance with IEC 60 529.

Use of the mounting template

The mounting template enables the unit to be installed quickly. For mounting the template should be attached to the wall of the cabinet and the holes for the fixing screws should be drilled in the wall of the cabinet in the marked positions.

Cooling medium connection

There are two pipe connection points on the bottom (RK-2114, 2116, 2120, 2130,2140) or in the side (RK-2124) of the unit to connect the refrigerant supply. The piping used for the supply must have an internal diameter of 10 mm or 13 mm depending on the model. The pipe connectors have a ¼" thread (1/2" RK 2125948 / RK 21259500 / RK 2149) and can be replaced with other connectors for larger or smaller pipe diameters. Before connecting the coolant circuit, note the flow direction of the coolant medium. Next to the pipe connectors, the letters "E" and "A" are visible on the unit.

- E coolant intake
- A coolant outflow

To empty the unit connect the water inlet pipe to a compressed air supply and route the water outlet pipe to a location where the water can be drained. Set the thermostatic head inside the unit to a set-point lower than ambient temperature to ensure it opens and slowly open the compressed air supply till all the water in the heat exchanger is flushed out. Ensure that the pressure of the system is below the rated pressure of the unit and fitting.

9. Condensate management

High humidity and low temperatures inside the enclosure can lead to condensation on the evaporator. Condensate that flows back into the enclosure can damage sensitive control electronics.

If too much condensation forms, the condensation is drained out of the cooling unit from outlets in the front bottom cover (Position 1, 3 and 4) or directly through the bottom of the unit (Position 2). The drain pipe must be connected wherever is most suitable for the customer application.

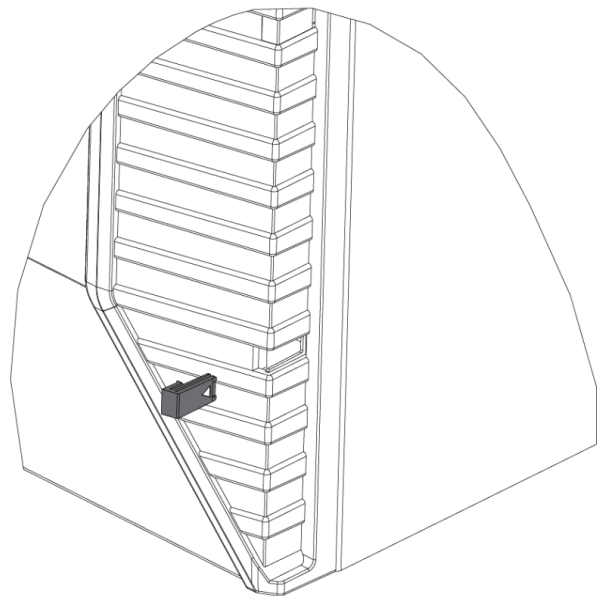
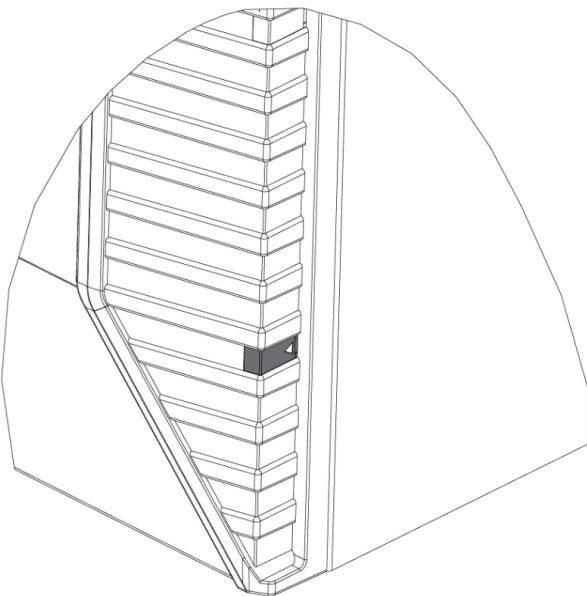
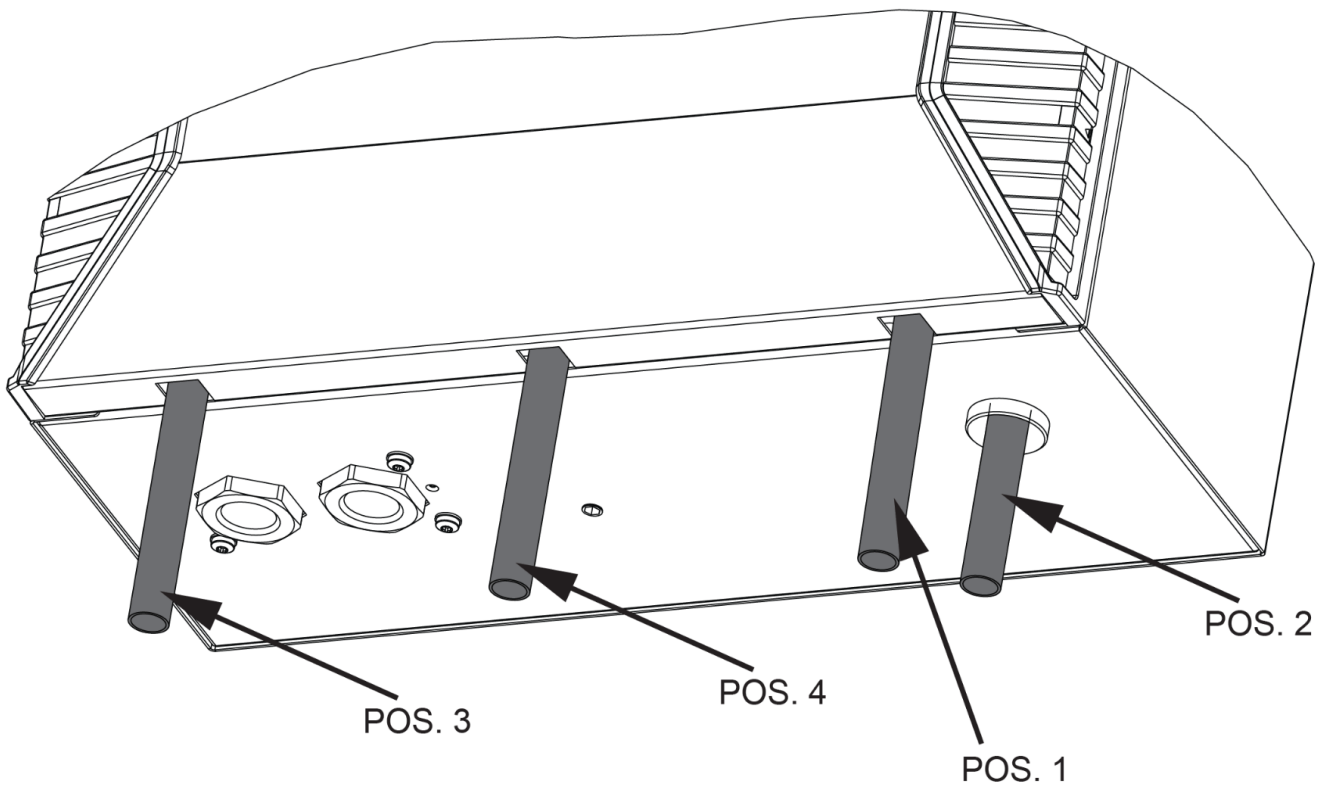
The factory setting for RK-7580 and RK-7612 is from the right outlet in the bottom cover (Position 1). To use the left side cover outlet (Position 3) or the outlet in bottom of the unit (Position 2) please follow below steps:

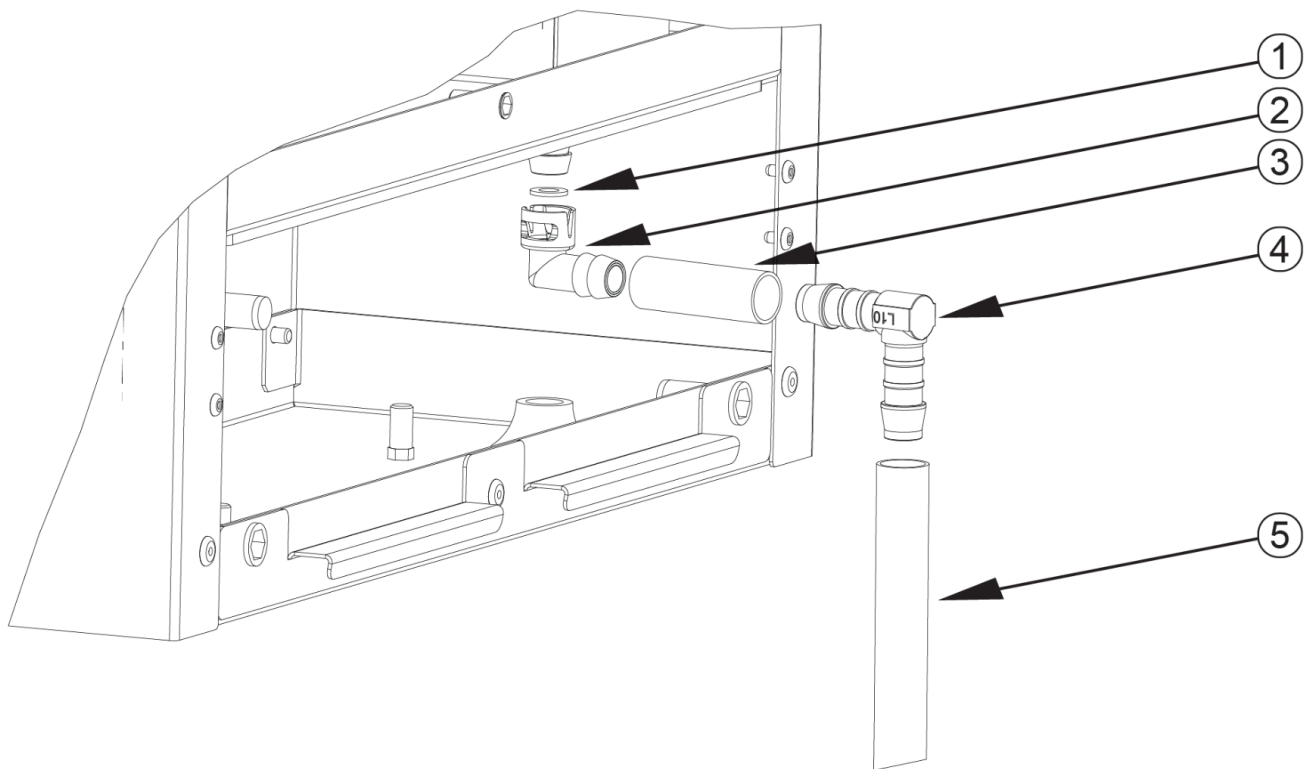
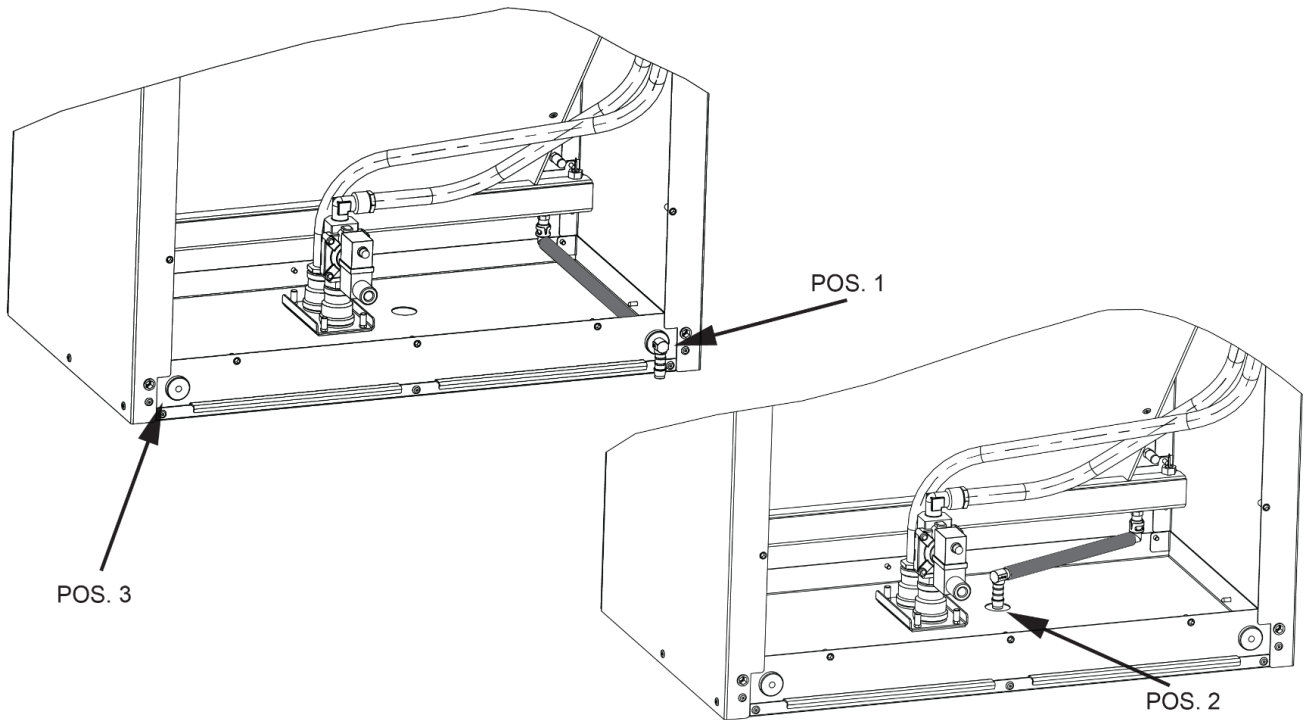
1. Remove the bottom cover and the middle cover. The louver blanks that are marked with an arrow need to be removed carefully with a flat blade screwdriver. Then a torx screwdriver is to be used to loosen the screws behind the removed louver blanks. There is no need to completely remove the screws.
2. Remove the bottom sealing panel.
3. Disconnect the internal drain pipe from the elbow.
4. Remove the elbow and place where desired in the left outlet or the bottom outlet.
5. Re-attach the drain pipe. The drain pipe may need to be shorter or longer depending on the preferred location. Part of the hose supplied in the packing bag can be used if a longer pipe is required.
6. Connect the drain pipe on the outside of the unit.
7. Re-install the bottom sealing panel
8. Re-install the covers and the louver blanks.

If this drain pipe is not used, then the drain point in the bottom of the unit **MUST** be open. A grommet is supplied in the packing bag to be installed in the bottom of the unit if an alternate drain location is used.

In order to prevent the formation of excessive condensate, you should nevertheless:

- check the seals on regular intervals
- consider installing a door contact switch (order no. 3100001). This will prevent condensation forming when enclosure door is left open.



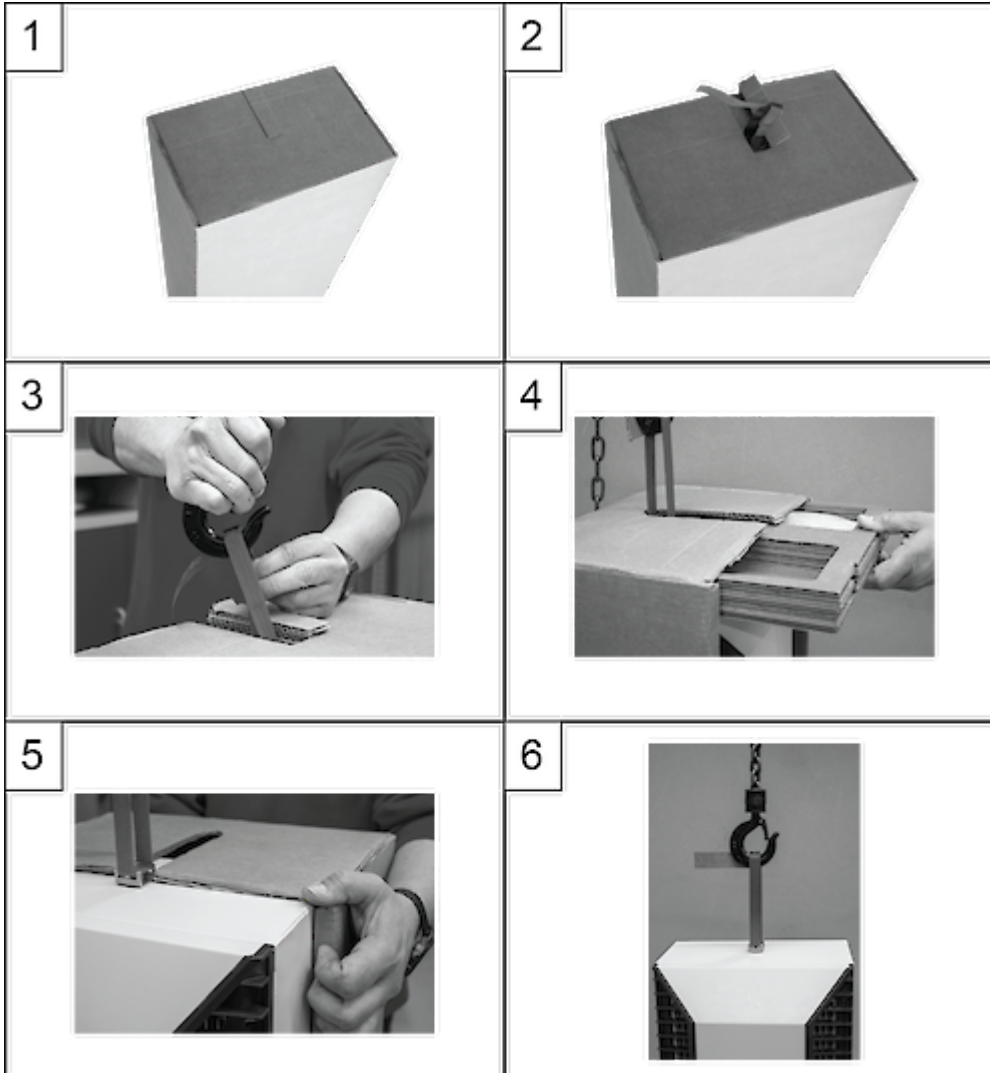


1. M5 silicon washer
2. Condensate drain elbow
3. Drain hose
4. Barbed POM elbow
5. Drain hose

10. Mounting Principle

Unpacking unit:

Please follow the below steps to unpack the unit.



STEP 1:
Stand the cooling unit upright with the pre-cut packaging opening facing up.

STEP 2:
Pull off the packaging opening.

STEP 3:
Hang the transport loop of the unit in the transport hook and lift it slightly.

STEP 4:
Pull off the packaging and slide out the tray with installation material and the short version of the operating manual.

STEP 5:
Pull off the remaining packaging.

STEP 6:

The cooling unit can now be attached to the enclosure.

Mounting:



The power supply rating on unit rating plate must comply with mains rating.



Always disconnect the power supply before opening the unit.

The heat load to be dissipated from enclosure should not exceed specific cooling output of the unit at any condition. At cooling unit selection always cater for a safety margin of at least 15% extra cooling output in the worst conditions.

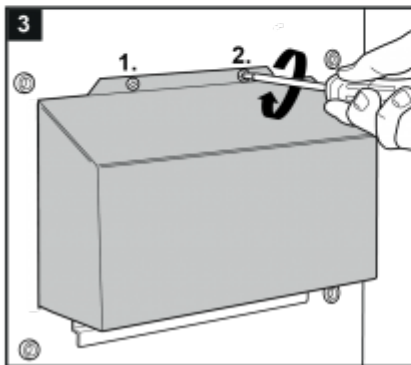
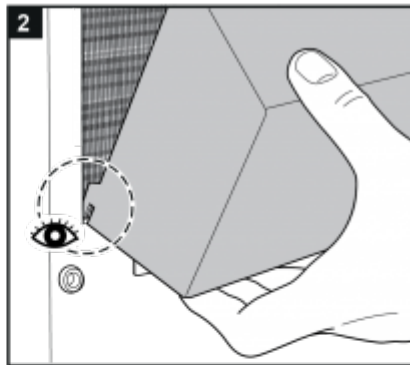
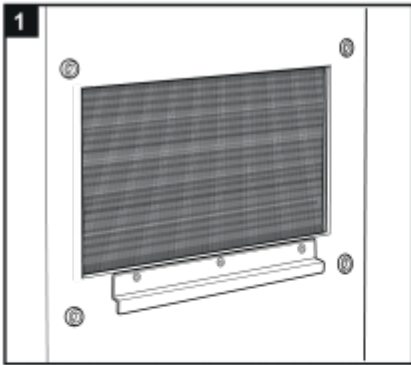
Air inlets and outlets must be completely free from obstruction. Ensure that flows of air leaving and entering the cooling unit, internal and external, are not obstructed. It must also be ensured in accordance with UL, that the air outlet is not blowing air directly at an equipment operator. Should this be the case a barrier or duct shall be provided to redirect the airflow.

Cooling unit enclosure air suction hole must be installed in the highest possible point.

When installing the unit on a door ensure it can take the weight. Before drilling the enclosure ensure the fixing elements and couplings will not interfere with the equipment inside the enclosure itself. Disconnect power before starting any work inside the enclosure.

Cold air outlet duct:

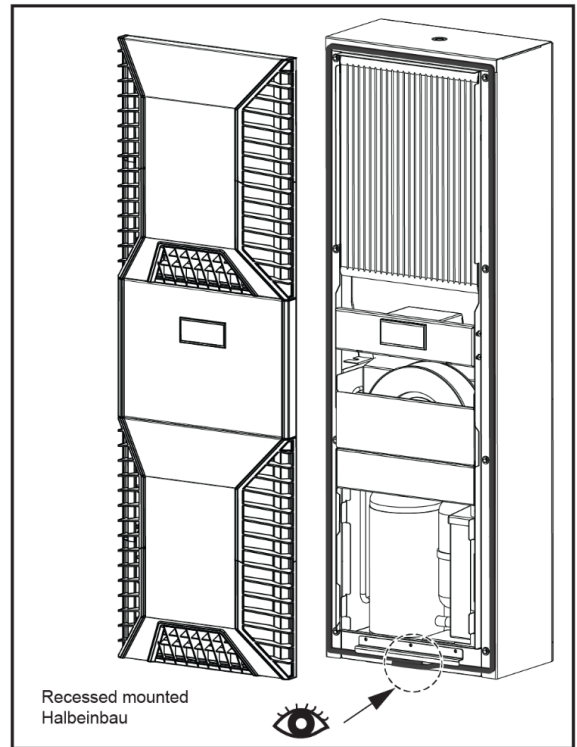
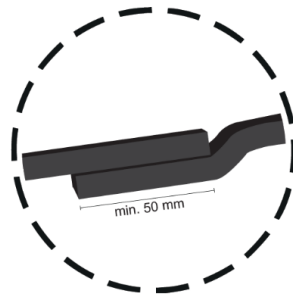
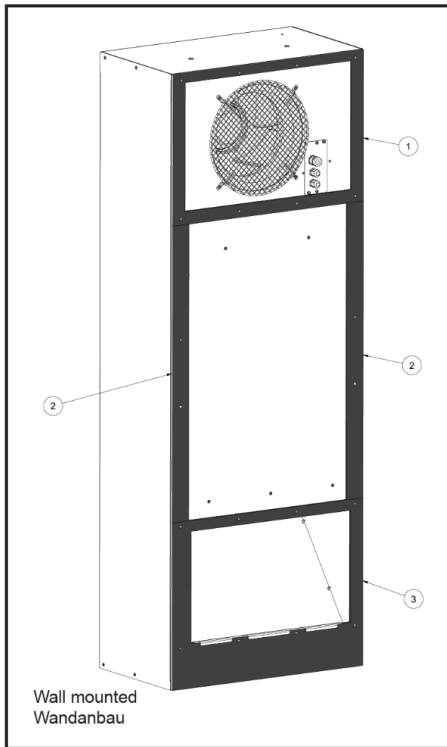
When using a cold air outlet duct please follow the steps below.



Applying supplied mounting gasket or tight tape.

For external mount units the mounting gasket is used. This consists of 4 pieces. Top section (1), sides (2), and bottom section (3). Attach the gasket to the unit making sure to align the holes in the gasket with the mounting popnuts. Also make sure not to leave any gaps between the pieces of gasket.

For recess mount units apply the supplied foam tape as shown in the below image. At the bottom overlap the tight tape to ensure there are no air leaks.





NOTES:

- Use only the supplied mounting hardware.
- Tighten Screws to 4.5 Nm.
- Ensure the mounting surface does not warp after assembly and reinforce it if necessary.

- 1 M6 screws
- 2 M6 toothed washers
- 3 M6 flat washers
- 4 Enclosure
- 5 Mounting gasket
- 6 Lifting sling
- 7 Cover
- 8 M4 screws

Fig. 1 Recessed

Fig. 2 External

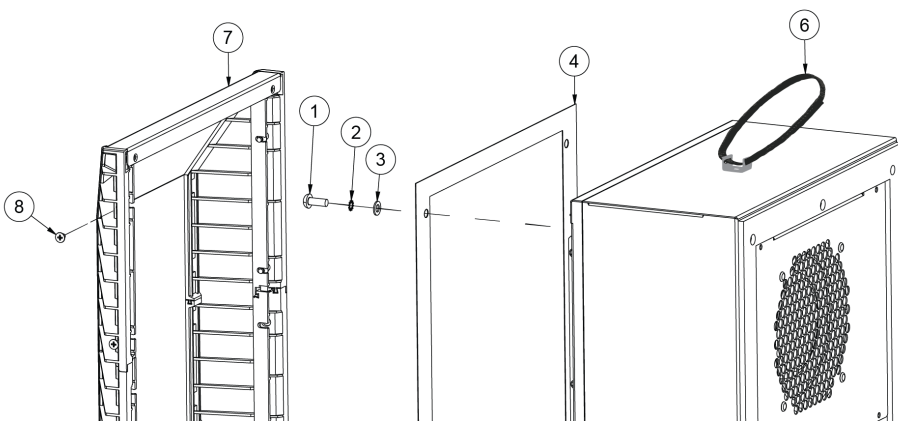


Fig. 1

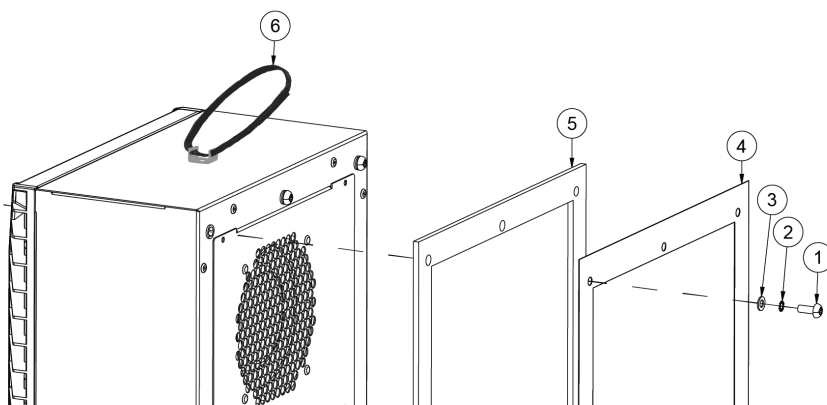
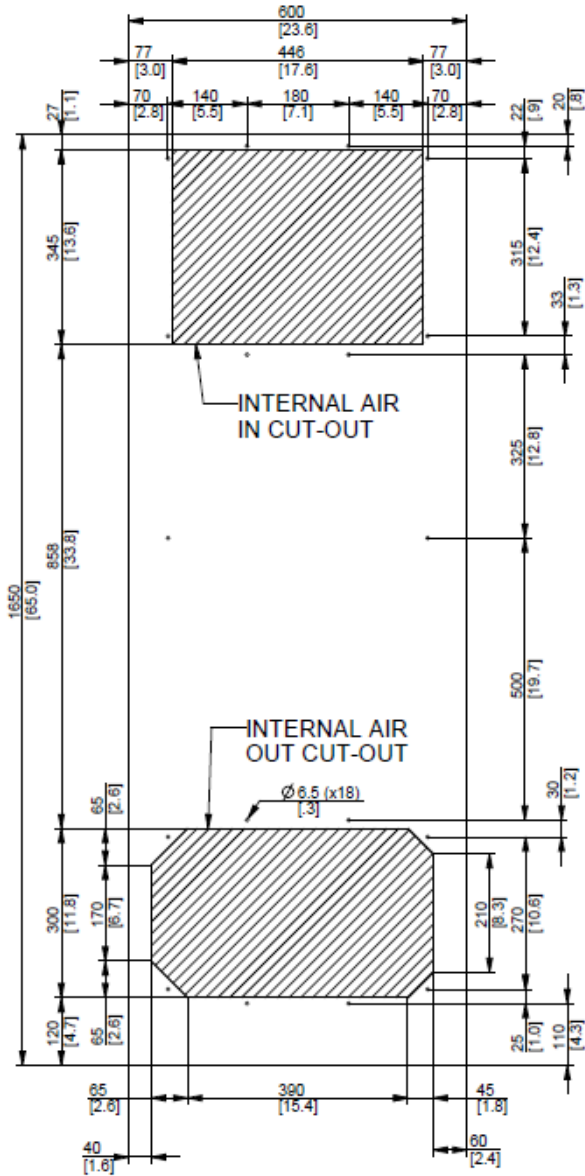


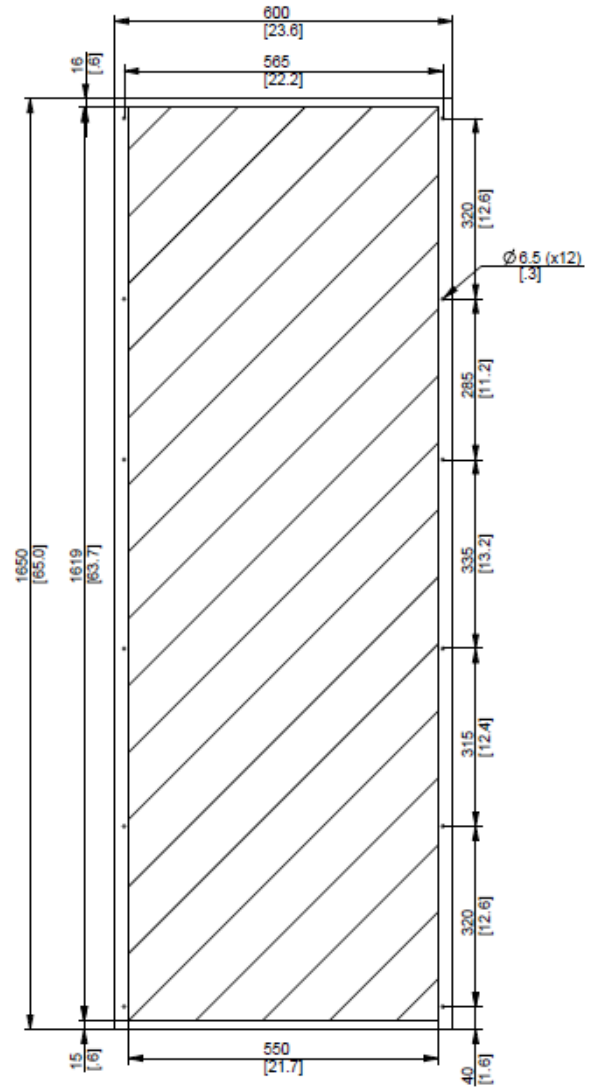
Fig. 2

11. Cut Out Dimension

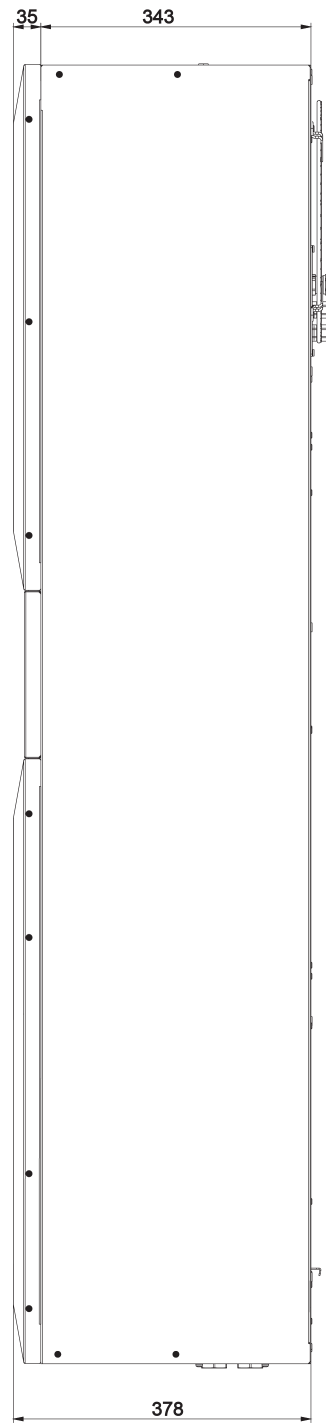
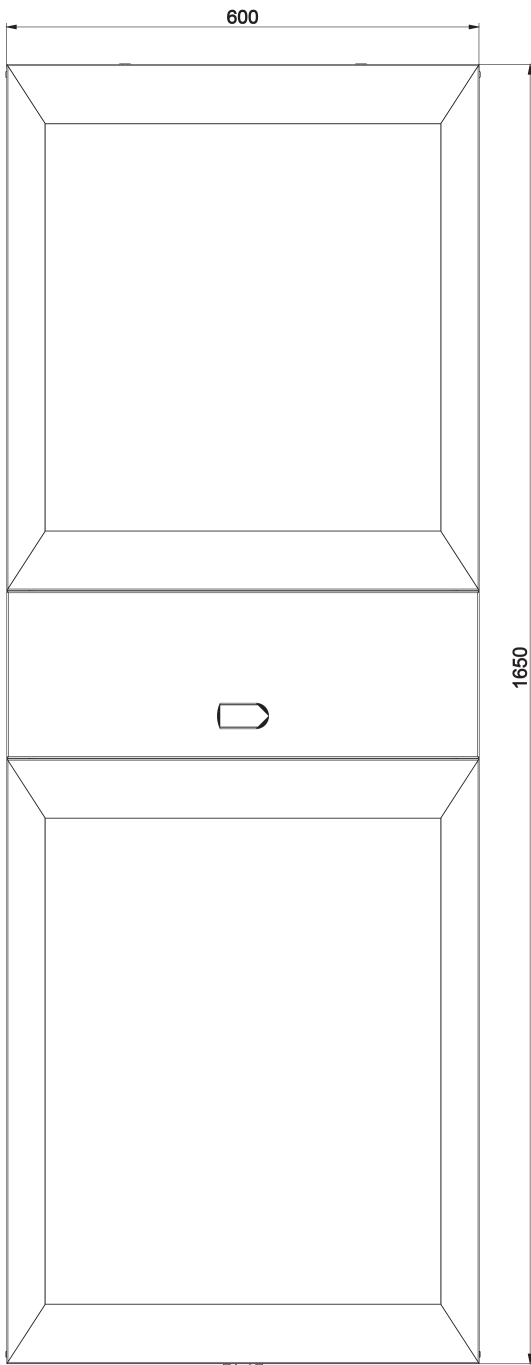
EXTERNAL MOUNTING
(AS VIEWED FROM FRONT OF UNIT)



RECESSED MOUNTING



12. Dimension (H x W x D)



13. Electrical Connection



Caution, risk of death

Unconnected and / or faulty protective conductor systems can lead to dangerous voltages and electric shocks which can cause serious accidents.

Work on electrical connections may only be carried out by trained electrical engineers.

Door Switch

The unit can be switched ON and OFF via a door contact switch. When delivered the door contact terminals are bridged on the female connector. To connect the door contact switch remove the bridge and connect door contact switch. The contact must be closed when the cabinet door is closed.

Alarm Contacts

Alarm contacts rated according to:

EN60730-1 8(4)A, 10(10)A @ 250Vac 100000 cycles
UL 873 8A 2FLA 12LRA, 12A 12FLA 72LRA @ 250Vac 30000 cycles

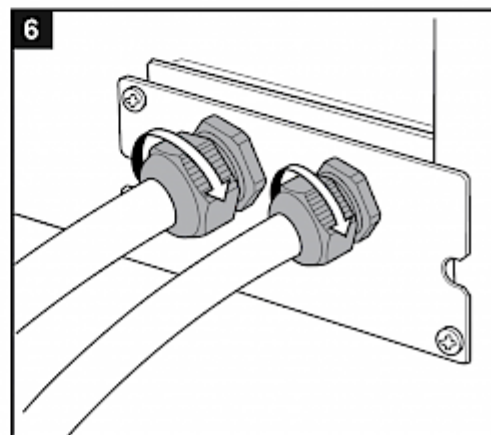
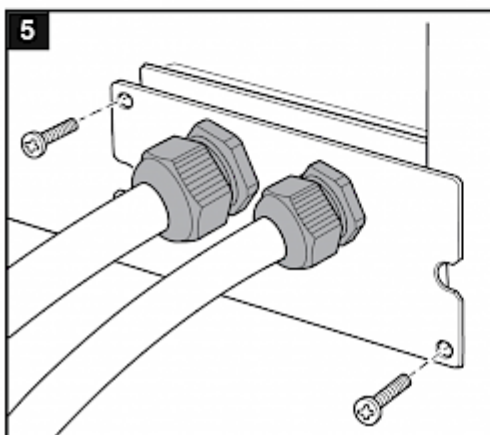
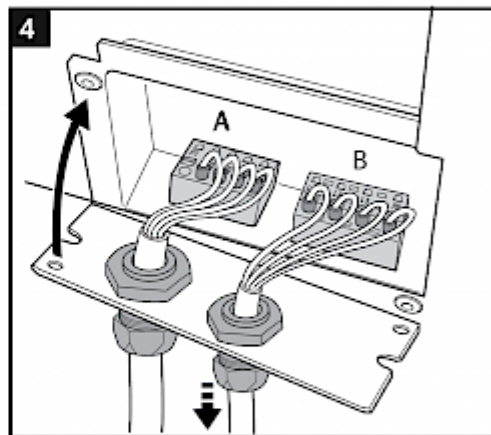
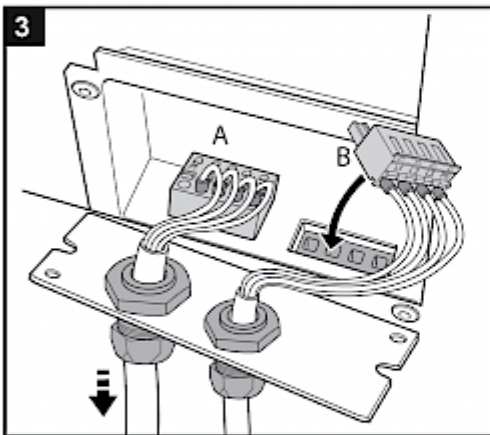
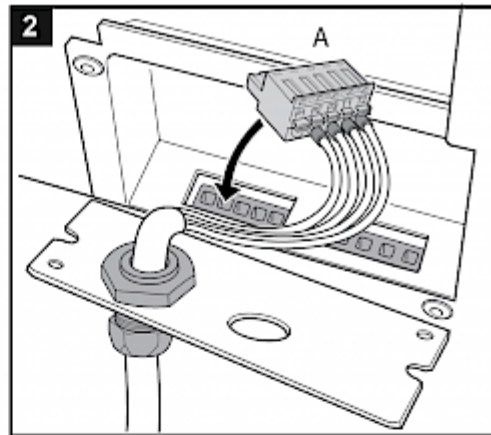
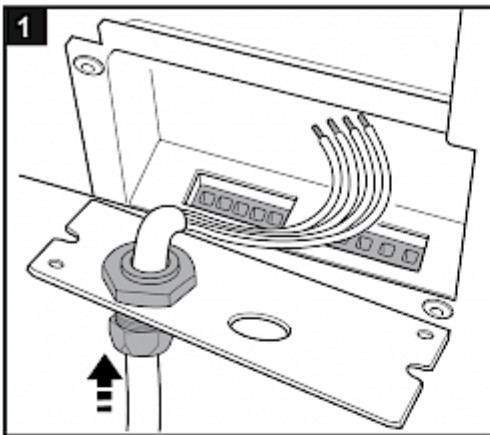
These contacts are not suitable for fluorescent loads (neon lights, etc.) that use starters (ballasts) with phase shifting capacitors. Fluorescent lamps with electronic controllers or without phase shifting capacitors can be used, depending on the operating limits specified for each type of relay.

SCCR

Refer to *UL508A Supplement SB* and Seifert Systems' document [Short Circuit Current Rating \(SCCR\)](#) on methods how to modify the available short circuit current within a circuit in the panel.

Connect unit:

Connect the cooling device according to the instructions below. The cable cross-section must correspond to the required power for the current consumption, but max. 2.5 mm² / AWG 14.



14. Controller

Adjusting the control setpoint

The cooling set point can be adjusted between 0°C and 60°C. The setpoint is controlled by parameter **St**. The default setting is 25°C.

To change the control setpoint:

Press the red **Set** button for 1 second until **St** appears on the display.

Press the **Up/Down** buttons to reach the desired value.

Press the **Set** button to save the new setting.

Adjusting the high and low temperature alarm setpoints

The high temperature alarm setpoint is controlled by parameter **AH**. The default setting is 55°C.

The low temperature alarm setpoint is controlled by parameter **AL**. The default setting is 0°C.

Adjusting parameters

- Press and hold **SET** for 3-5 seconds until **PS** is displayed.
- Release and press **SET** again briefly to display **0**.
- Press the **UP** arrow until you reach the value of **22**. Then press **SET**. (This is the factory password to access the protected parameters). Once the parameter list is accessed, **PS** is again displayed.
- Press the **UP** or **DOWN** buttons to scroll through the various parameters.
- Press **SET** to display the selected parameter's stored value if needed.
- Press **UP/DOWN** to change the parameter value if needed.
- Press **SET** to save the current value displayed.
- When ready from parameter adjustment, press and hold **SET** for 5 seconds to save any changes made.
- The display will return to temperature reading. (This last step has to be performed correctly or all the parameter changes are lost.)

Behaviour of digital input

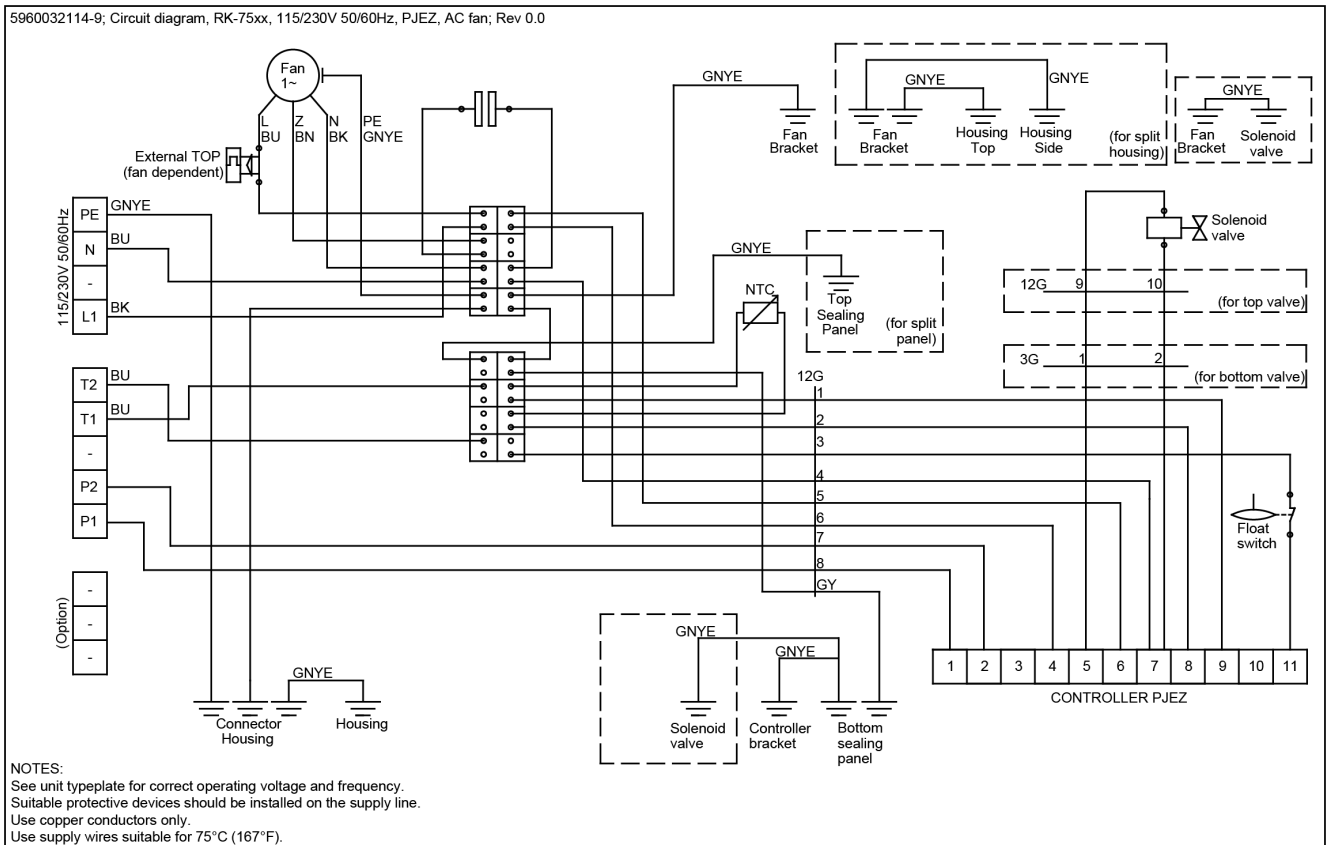
The unit can be switched on and off via a door contact switch (optional). When delivered the door contact terminals are bridged on the female connector. To connect the door contact switch remove the bridge and connect door contact switch. The contact must be closed when the cabinet door is closed.

Attention

The unit can be damaged through incorrect adjustment. Do not modify any other values other than those specified above. Adjusting other values may result in incorrect operation and damage to the unit.

15. Wiring Diagram

- Power connector
 - PE
 - N
 - /
 - L1
- Signal connector
 - Door contact T2
 - Door contact T1
 - /
 - Alarm contact P2
 - Alarm contact P1



16. Taking into Operation

The cooling performance of the heat exchanger is dependent on the water flow rate available from the supply. The water flow is dependent on the water supply system to which the heat exchanger is connected and is affected by various factors, such as conduit pressure, conduit diameter, etc.

1. Units with water flow regulator

It is possible to adjust the water flow rate from the supply system to provide the cooling performance actually required. Operation is controlled according to a pre-set control cabinet temperature. The control cabinet temperature is measured by a temperature sensor situated in the intake air flow. If the target temperature is exceeded, the water flow regulator opens the water circuit. If the temperature falls below the target temperature, the flow regulator closes the water circuit. In this way, the heat exchanger works more efficiently by saving water.

(a) with proportional water flow regulator (RK 2114 A632 & A891, RK 2116, RK 2124, RK 2194): max. water flow 350 l/h

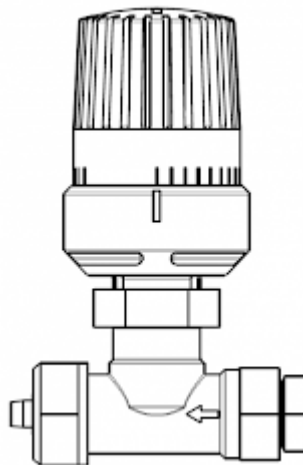
(b) with magnetic valve (RK 2125, RK 2149, RK 2192, RK 2197): max. water flow 500 l/h

1.1 Adjustment of the water flow regulator

Before opening the unit make sure that there is no supply voltage at the unit. Remove the fixing screws to open the cover of the unit. To set the flow rate (Q) turn the thermostatic head. Set the indicator position to the required cabinet temperature. The work's setting of the water flow regulator is +35°C. The adjustment range is +20°C to +50°C.

Temperature setting look-up table

Pos.	°C
1	20
2	25
3	30
4	35
5	40
6	45
7	50



Setting

Turn clockwise or anti-clockwise to change operating temperature.

Operation

If cabinet temperature changes, the sensing bulb detects the change and results in open and closing of the flow. If cabinet temperature increases more than the set value, the valve gradually opens and vice versa.

Warning: Since valve is purely mechanical, the valve will still actuate itself even when the unit is not powered. Flush unit from fluids, prior to transportation to prevent any damage.

2. Units without water flow regulator

These units do not have any automatic control functions.

3. Units with Alarm Thermostat

With these units the cabinet air temperature can be monitored via a current free sensor which monitors the cabinet air as it enters the unit. Before opening the unit always make sure that there is no supply voltage at the unit. To set the target temperature turn the adjustment screw on the thermostat until the dial reads the correct target temperature. The numbers on the adjustment scale show the temperature at which the alarm circuit is closed. The Thermostat can be set to a temperature anywhere between +20°C and +60°C. The work's setting of the thermostat is 45°C.

4. Units with Solenoid valve

The solenoid valve is switched electrically. If the unit power is off, the valve switches to open.

5. Units with temperature controller

The unit is equipped with a temperature controller which regulates the function of the unit. On normal working conditions the display shows the temperature inside the enclosure. The controller "set point" for the interior of the enclosure (parameter St / St1) is pre-set at 35°C and can be adjusted between +20°C and +50°C.

The High temperature alarm (parameter AH) is preset at 55°C. The High Temperature Alarm relay is delivered as "normally closed" (H1=1). If you need to change it to "normally open", please modify value of parameter H1 (H1=2).

Modifying controller parameters

1. Press the SET button for more than 3 sec. (if there are active alarms, mute the buzzer). The display shows the parameter code 'PS' (password).
2. Only for parameters requiring password: Press the SET button to access the password setting, use the UP and DOWN buttons to scroll the numbers until displaying, "22" (default password to access the parameters), press the SET button to confirm the password
3. Use the UP and DOWN buttons to scroll the parameters. The LED corresponding to the category of parameters will be on
4. Press SET to display the value associated with the parameter
5. Increase or decrease the value using the UP or DOWN button respectively
6. Press SET to temporarily save the new value
7. Press the SET button for more than 3 sec. to permanently save the new parameters and exit the parameter setting procedure.

If no button is pressed for 60 sec. all changes made to the parameters, temporarily saved in the RAM, will be cancelled and the previous settings restored. The cooling unit manufacturer is in no way liable for any alterations the customer may make to the factory set parameters, unless the manufacturer has authorized the customer in writing to change them.

This manual is intended as quick reference for controller, for a full controller manual or if you need to restore the factory parameters please go to our website to download the full manual or to locate your nearest servicing office.

6. Units with door switch

The unit can be switched on and off via a door contact switch (optional). When delivered the door contact terminals are bridged on the female connector. To connect the door contact switch remove the bridge and connect door contact switch. The contact must be closed when the cabinet door is closed.

17. Maintenance

Every unit is given a performance test under load at the factory. The units are largely maintenance-free, however, the following points should be observed:

1. Fan replacement

Before replacing the fan, the equipment must be switched off from the power supply (pull out mains plug or connecting cable). The rated life time of the fan is $L_{10} = 30.000$ hours under normal operational conditions. Should it become necessary to replace the fan, remove the support for the fan by loosening the 4 fastening screws (RK-2114 models only). To detach the fan from the fan support loosen a further 4 screws and the fan connecting cable.

When connecting the new fan, take care that the correct polarity is maintained.

2. Thermostat replacement

Before replacing the thermostat, isolate the equipment from the power supply (pull out mains plug or connecting cable). Detach the thermostat from its support by unclipping it from the DIN railing and loosening the 4 connecting cables.

When connecting the new fan make sure that the correct polarity is maintained.

3. Environmental protection

If the heat exchanger has reached its end of life state, we will dispose it if it is returned to us freight paid.

4. Maintenance work on the cooling circuit

All the maintenance operations described above should only be carried out by expert personnel. All work on the cooling circuit should only be carried out at the factory.

18. Transport & Storage

Malfunction due to transport damage. During transport and storage the heat exchanger must be kept in the position marked on the box and at a temperature between -40°C and 70°C and a relative humidity of max. 95% (at 25°C). Check the packaging has not been damaged during shipping.

Damage to the unit through incorrect transport. Please ensure that all liquid has been removed prior any transport.

To avoid transport damage the unit should be returned in the original packing or in a packing case and must be strapped to a pallet. If the unit cannot be returned in the original packing please ensure that:

- A space of at least 30 mm must be maintained at all points between the unit and the external packing.
- The unit must be firmly fixed in the packing.
- The unit must be protected by shock -resistant padding (hard foam corners or cardboard corners).

19. Parts supplied / Spare parts / Accessories

The below parts are supplied with the unit. The quantity varies depending on unit version.

Mounting gasket for external mounting

Foam tape for recessed mounting

Toothed washers A6.4

Washers A6.4

Bolts M6x16

Lifting hook M8

Grommet for bottom drain position

5-pole terminal block for signals

4-pole terminal block for electrical connection

Condensate drain elbow and M5 silicon washer

Barbed POM elbow 10mm

Drain hose

Strain relief bracket

M20 cable gland and lock nut

M16 cable gland and lock nut

M16 stopper and lock nut

All spare parts are available through Seifert Systems. For further information or queries kindly contact Seifert Systems.

Note: Only original spare parts should be used.

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