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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 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

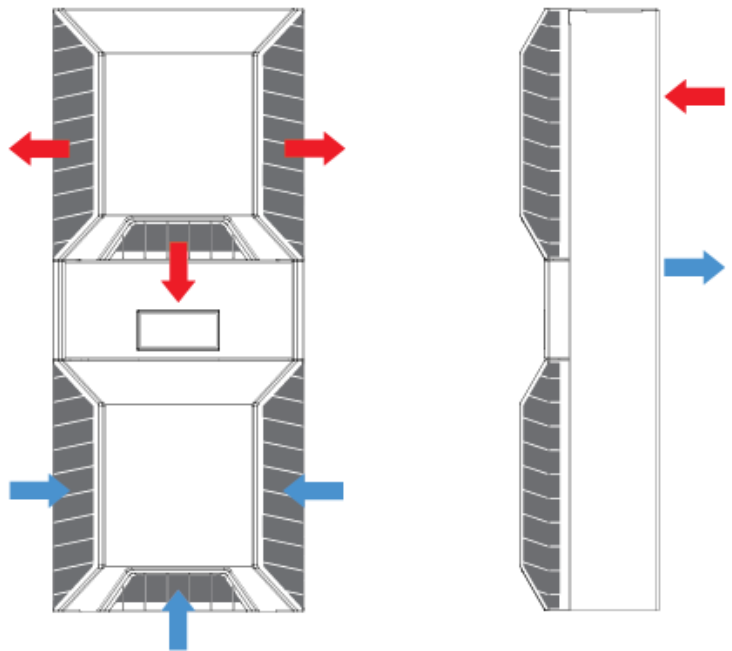
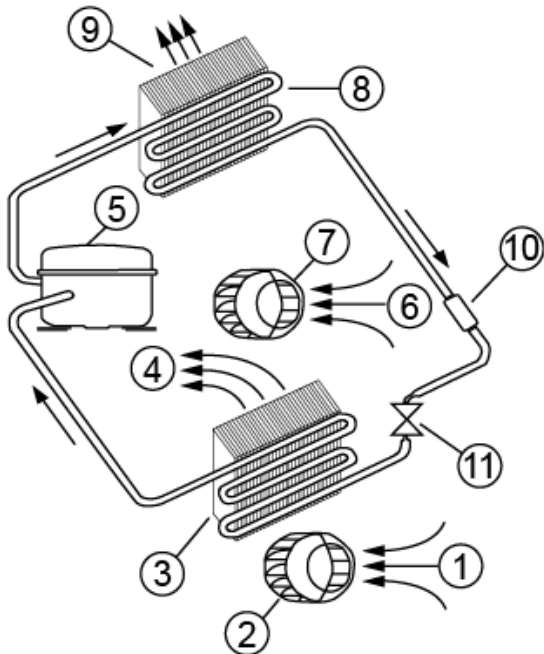
Damage to the environment through unauthorised disposal. All spare parts and associated material must be disposed according to the environmental laws.

4. Functional principle

The cooling unit for enclosures works on the basis of a refrigeration circuit consisting of four main components: compressor, evaporator, condenser and expansion device.

The circuit is hermetically sealed and R134a refrigerant circulates inside it (R134a is chlorine free and has an Ozone Destruction Potential [ODP] of 0 and a Global Warming Potential [GWP] of 1430). The compressor compresses the refrigerant (thus taking it to high pressure and high temperature), and pushes it through the condenser, where it is cooled by ambient air thus passing from the gas to the liquid state. At the liquid state it then passes through the capillary pipe being a much lower pressure the refrigerant arrives to the evaporator where it absorbs the necessary heat to change from liquid to gas state. The gas is then drawn back into the compressor completing the cycle.

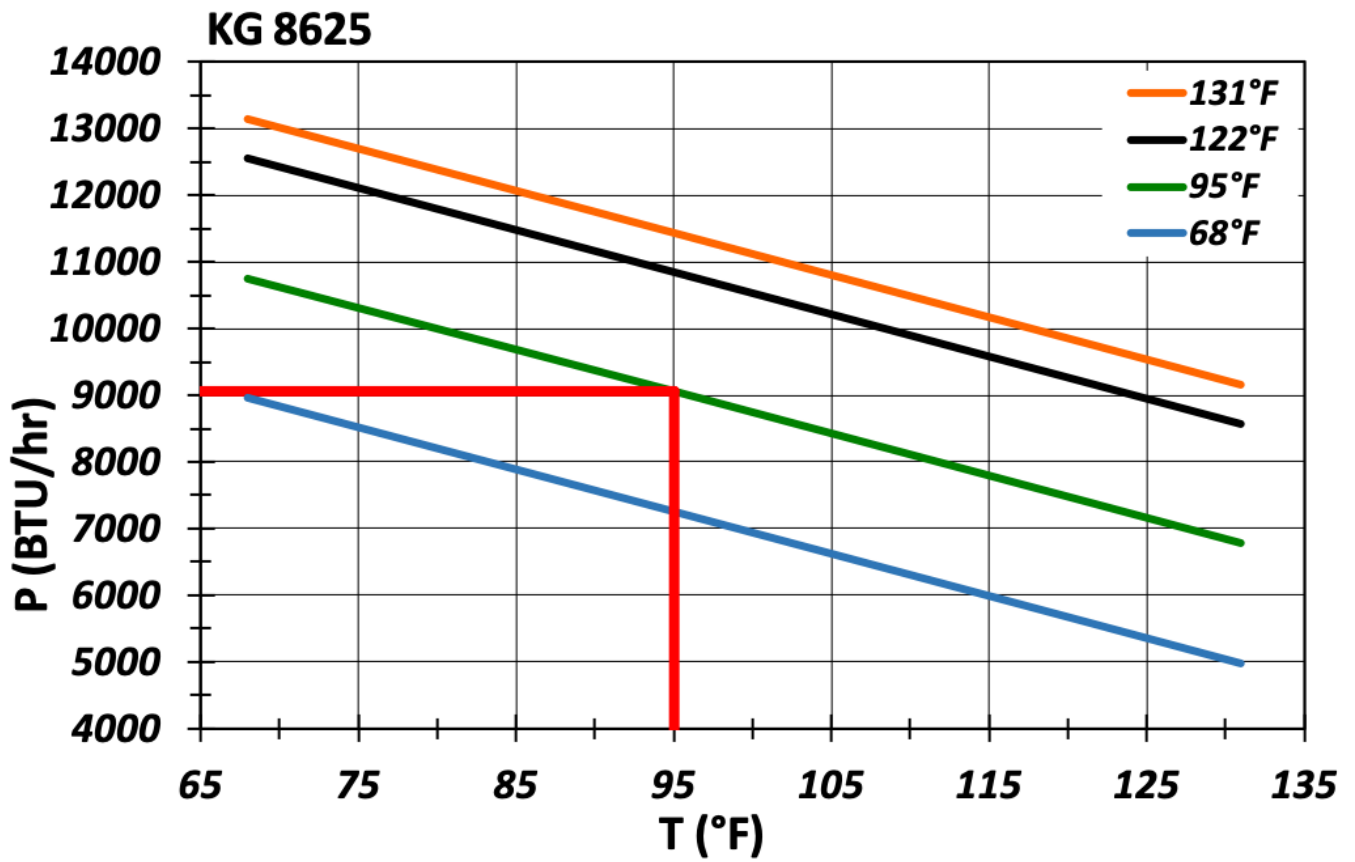
- | | |
|---------------------------|---------------------------|
| 1 Air intake cabinet side | 6 Air intake ambient side |
| 2 Radial fan cabinet side | 7 Air intake ambient side |
| 3 Evaporator | 8 Condenser |
| 4 Air outlet cabinet side | 9 Air outlet ambient side |
| 5 Compressor | 10 Filter dryer |
| | 11 Expansion device |



5. Technical data

Order Number	862500001
Cooling capacity 95F/95F	8700 BTU/hr
Cooling capacity 95F/122F	7380 BTU/hr
Compressor type	BLDC Rotary Piston
Refrigerant / GWP	R134a / 1430
Refrigerant charge	368 g / 13 oz.
High / low pressure	30 / 6 bar 435 / 88 psig
Operating temperature range	50°F - 140°F
UL temperature range	50°F - 140°F
Mounting	Wall mounted / Recessed
Housing Material	Mild steel, powder coated
Dimension H x W x D	53.1 x 15.6 x 8.3 inch
Weight	99 lbs.
Cut out dimensions	51.77 x 14.37 inch
Voltage / Frequency	115-250 V ~ 50/60 Hz
UL Voltage / Frequency	120-230V 60Hz
Current 95F95F	9.2 A / 4.6 A
Starting current	16 A / 8 A
Max. current	12.6 A / 6.3 A
Nominal power 95F95F	1.02 kW
Max. power	1.42 kW
Fuse	24 A (T) / 12 A (T)
Short-circuit current rating	5 kA
Rated current compressor	1.83 A
Full load current fans	1.4 A
Connection	4 pole terminal block for electrical connection 5 pole terminal block for signals 3 pole terminal block for RS485
Ingress protection	Type 12, 3, 3R
Approvals	CE, cURus, cULus

6. Performance graph



7. Mounting Principle



NOTES:

- Do not use within the first 15 minutes after installation!
- 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

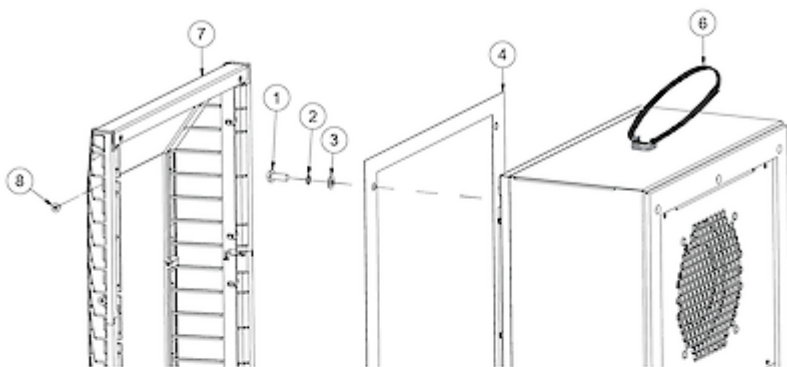


Fig. 1

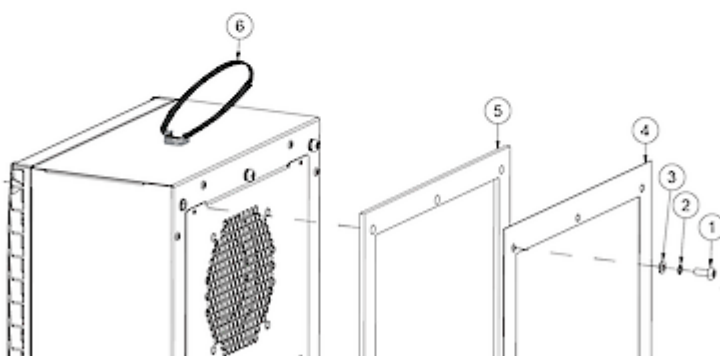


Fig. 2

Mounting:



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



Always disconnect the power supply before opening the unit.

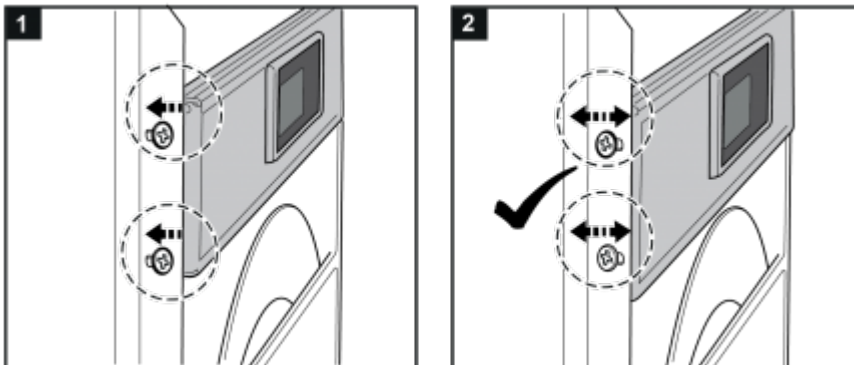
The heat load to be dissipated from enclosure should not exceed specific cooling output of the unit at any condition. At cooling unit selection always cater for a safety margin of at least 15% extra cooling output in the worst conditions.

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.

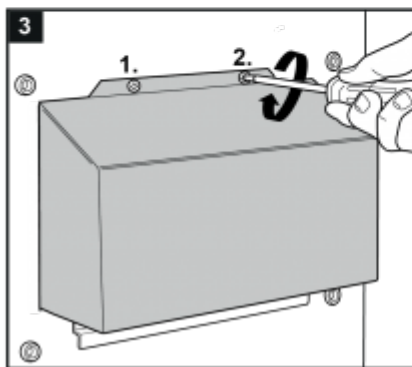
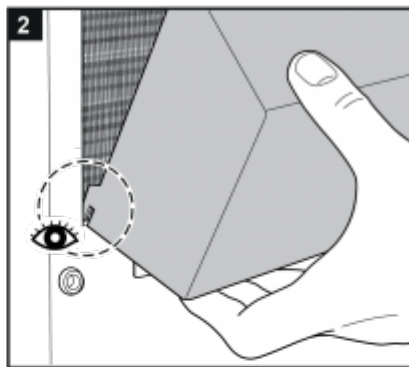
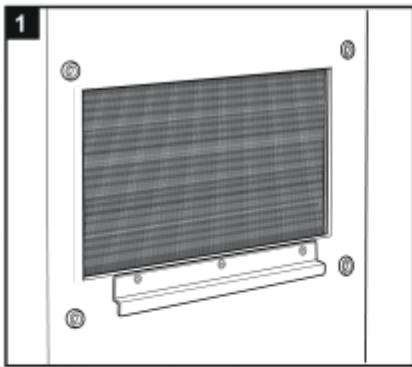
When installing the unit on a door ensure it can take the weight. Before drilling the enclosure ensure the fixing elements and couplings will not interfere with the equipment inside the enclosure itself. Disconnect power before starting any work inside the enclosure.

If the unit is mounted in a recessed position, the controller bracket can be pulled according to the wall thickness of the enclosure outwards as per steps below.



Air flow duct:

When using an air flow duct please follow the steps below.



Filter installation:

If you install / replace a filter please follow the steps below.

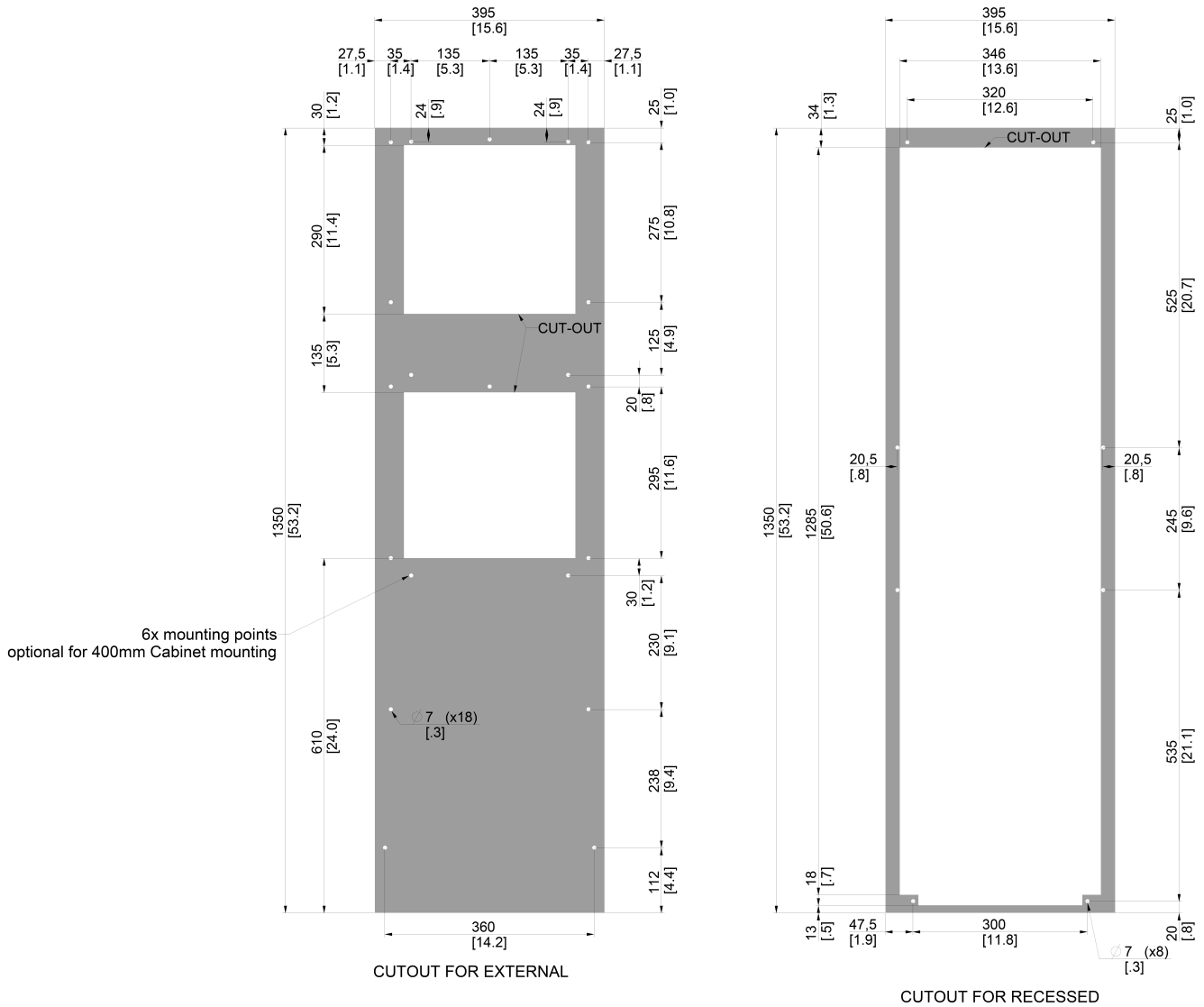


Condensate management:

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. The integrated condensate evaporation of the cooling unit releases the condensate to the environment. If condensate formation is too great, additional condensate can drip into an overflow trough, which then drains off on the ambient side. In order to prevent the formation of excessive condensate, you should nevertheless:

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

8. Cut out dimensions



9. 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.

It is possible to change the logic of the door switch (controller firmware rev. 1.2 or higher). This can be set by changing the value of parameter c68. Refer to the table below and section *Controller: Setting temperature units (°C / °F), low temperature alarm, door contact logic* section for more information.

c68 = 0 (default)	ON if closed - Door contact terminals bridged, or NC door switch connected (contact must be closed when cabinet door is closed)
c68 = 1	ON if open - Remove bridge, or NO door switch connected (contact must be open when cabinet door is closed)

Alarm Contacts

Alarm contacts rated according to:

EN60730-1 8(4)A N.O., 6(4)A N.C., 2(2)A N.O./ N.C. @ 250Vac 100000 cycles
UL 873 8A resistive 2FLA 12LRA, pilot duty C300 @ 250Vac 30000 cycles

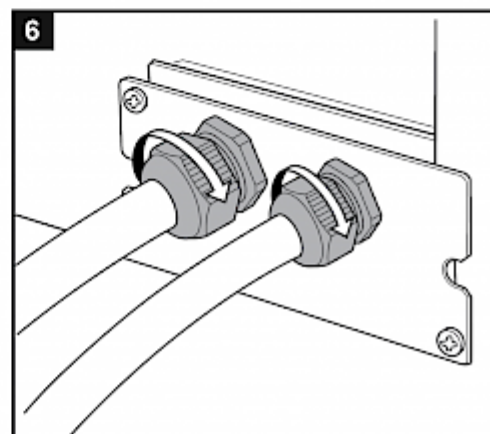
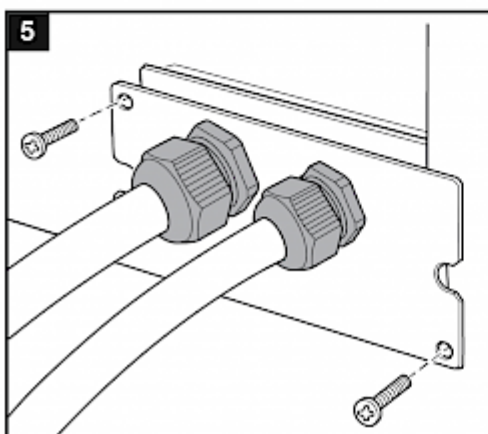
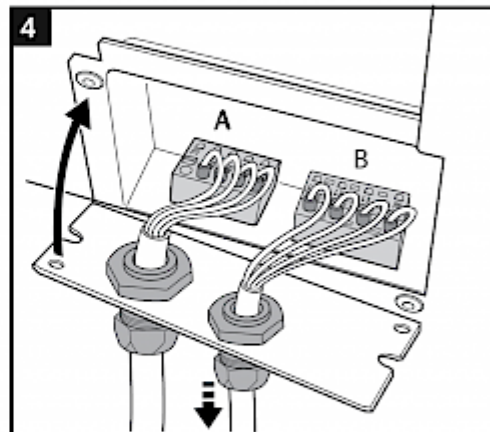
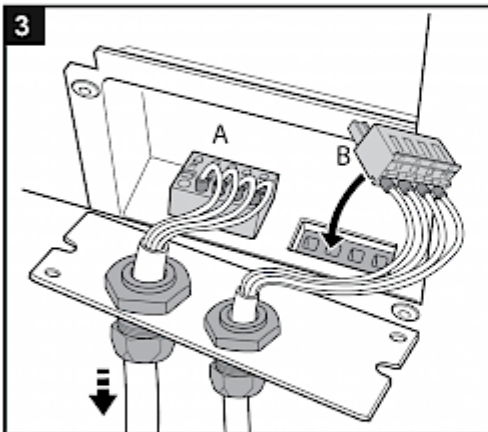
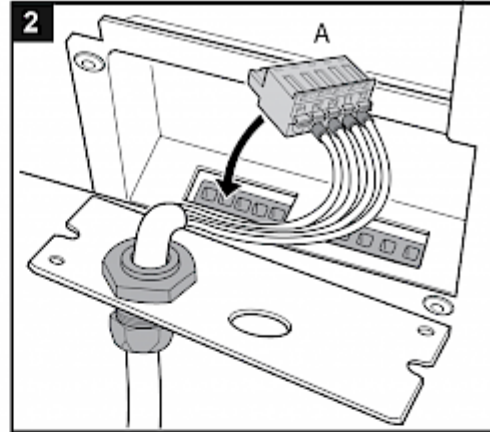
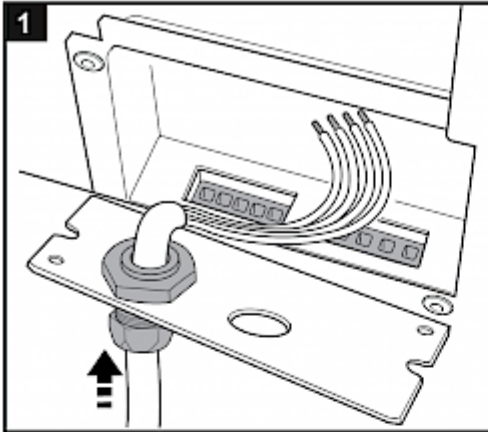
These contacts are not suitable for fluorescent loads (neon lights, etc.) that use starters (ballasts) with phase shifting capacitors. Fluorescent lamps with electronic controllers or without phase shifting capacitors can be used, depending on the operating limits specified for each type of relay.

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.



10. Controller

Mit dem Display der Steuerung kann folgendes eingestellt werden:

- Steuerungsalarm Sollwerte
- Temperatur Sollwerte
- Alarm Sollwerte



Das Hauptmenü zeigt standardmäßig folgendes an:

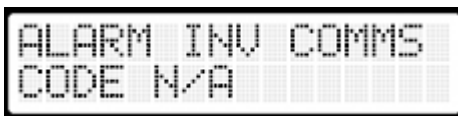


TEMP READINGS: Temperaturwerte und Alarmzeige

TEMP SETPOINTS: Um die Sollwerte zu ändern, drücken Sie die Tasten **UP** oder **DOWN** und **SET**, um eine Option auszuwählen



TEMP READINGS: Anzeige der Temperaturwerte und eventuellen Alarmen. Jeder Alarm wird durch Blinken alle paar Sekunden angezeigt.



Das Beispiel zeigt einen Kommunikationsverlust mit dem Wechselrichteralarm. Drücken Sie **MENU**, um zum Hauptmenü zurückzukehren.

Liste möglicher Alarme welche eine Alarmbedingung erzeugen

ALARM COMPRESSOR
 ALARM INT BLOWER
 ALARM AMB BLOWER
 ALARM HIGH TEMP
 ALARM INV COMMS
 ALARM SENS FAIL
 ALARM LOW TEMP
 ALARM CONT COMMS

Hochtemperaturalarm
 Keine Kommunikation mit Wechselrichteralarm
 Temperatursensor-Ausfallalarm
 Niedrigtemperaturalarm
 Keine Kommunikation mit Hauptalarm

Liste möglicher Warnungen welche keine Alarmbedingung erzeugen

WARNG COMPRESSOR
 WARNG INT BLOWER

Liste möglicher Alarme welche eine Alarmbedingung erzeugen

WARNG AMB BLOWER
DOOR CONTACT

Türkontakt offen

Falls der Umrichter einen Alarm an einem der Motoren ausgibt, schaltet das System den jeweiligen Motor aus und versucht, ihn nach 2 Minuten neu zu starten. In diesem Stadium zeigt das Display nur eine Warnung an. Wenn nach 3 aufeinanderfolgenden Neustarts die Motoren immer noch nicht starten, zeigt das Display einen Alarm an.





TEMP SETPOINT: Anzeigen, welcher Sollwert angezeigt / geändert werden soll. Drücken Sie **MENU**, um zum Hauptmenü zurückzukehren.

SETPOINT CONTR	Steuersollwert
SETPOINT ALR H	Hochtemperaturalarm Sollwert
SETPOINT ALR L	Niedrigtemperaturalarm Sollwert
SETPOINT HEAT	Heizungs Sollwert
SETPOINT SEL	Auswahl zwischen Modbus / Display, Sollwerten oder Onboard-Potentiometer
TEMP SEL	Auswahl zwischen Celsius oder Fahrenheit.



SETPOINT CONTR: Steuer Sollwert anzeigen. Die Temperatur kann mit den Tasten **UP** oder **DOWN** geändert werden.



Um die neue Temperatur zu speichern, drücken Sie die **SET**-Taste. Im Display wird ein **S** angezeigt. Drücken Sie **MENU**, um zum Bildschirm TEMP SETPOINTS zurückzukehren.



SETPOINT ALARM H: Hochtemperaturalarm Sollwert anzeigen. Die Temperatur kann mit den Tasten **UP** oder **DOWN** geändert werden.



SETPOINT ALARM H
40.0 C S

Um die neue Temperatur zu speichern, drücken Sie die **SET**-Taste. Im Display wird ein **S** angezeigt. Drücken Sie **MENU**, um zum Bildschirm TEMP SETPOINTS zurückzukehren.



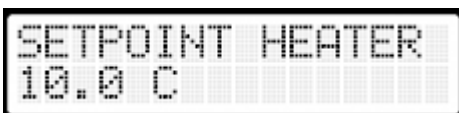
SETPOINT ALARM L
10.0 C

SETPOINT ALARM L: Niedrigtemperaturalarm Sollwert anzeigen. Die Temperatur kann mit den Tasten **UP** oder **DOWN** geändert werden.



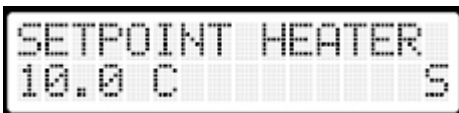
SETPOINT ALARM L
10.0 C S

Um die neue Temperatur zu speichern, drücken Sie die **SET**-Taste. Im Display wird ein **S** angezeigt. Drücken Sie **MENU**, um zum Bildschirm TEMP SETPOINTS zurückzukehren.



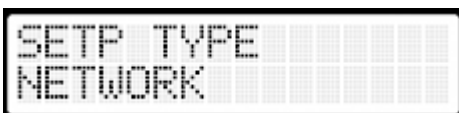
SETPOINT HEATER
10.0 C

SETPOINT HEATER: Niedrigtemperaturalarm Sollwert der Heizung anzeigen. Die Temperatur kann mit den Tasten **UP** oder **DOWN** geändert werden.



SETPOINT HEATER
10.0 C S

Um die neue Temperatur zu speichern, drücken Sie die **SET**-Taste. Im Display wird ein **S** angezeigt. Drücken Sie **MENU**, um zum Bildschirm TEMP SETPOINTS zurückzukehren.

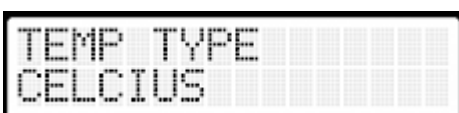


SETP TYPE
NETWORK

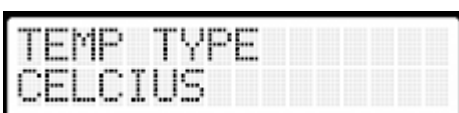


SETP TYPE
POTENTIOMETERS

SETPOINT TYPE: Zeigt an welcher Sollwert Typ ausgewählt wurde. Um den neuen Wert zu speichern, drücken Sie die **SET**-Taste. Im Display wird ein **S** angezeigt. Drücken Sie **MENU**, um zum Bildschirm TEMP SETPOINTS zurückzukehren.



TEMP TYPE
CELCIUS



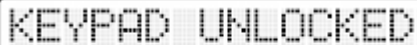
TEMP TYPE
CELCIUS

TEMP TYPE: Zeigt an ob die Temperatur in Celsius oder in Fahrenheit angezeigt wird. Die Auswahl erfolgt mit den Tasten **UP** oder **DOWN**. Um den neuen Wert zu speichern, drücken Sie die **SET**-Taste. Im Display wird ein **S** angezeigt. Drücken Sie **MENU**, um zum Bildschirm TEMP SETPOINTS zurückzukehren.



TEST MODE ACTIVE

Um den Testmodus zu aktivieren, drücken Sie im Hauptmenü 3 Sekunden lang die Tasten **UP** und **DOWN**. Es wird eine Benachrichtigung angezeigt, dass das Gerät in den Testmodus gewechselt ist. Diese Benachrichtigung wird nur einige Sekunden lang angezeigt.



KEYPAD UNLOCKED



KEYPAD LOCKED

Die Funktion zum Ändern von Sollwerten / Einstellungen kann über Modbus oder über das Display selbst gesperrt / entsperrt werden. Das Sperren oder Entsperren des Sollwerts / der Einstelländerung kann in der folgenden Reihenfolge erfolgen: **MENU - UP - SET - DOWN - MENU** Diese Sequenz kann nur im Hauptmenü (Bildschirm TEMP READINGS / TEMP SETPOINTS) ausgeführt werden. Jede Taste muss mindestens 2 Sekunden lang gedrückt werden und die gesamte Sequenz muss in 20 Sekunden abgeschlossen sein.



TEMP READINGS <
TEMP SETPOINTS.

Bei der Eingabe der Sequenz zeigt das Display an, dass die Sequenz registriert wird, wenn nach dem Drücken der zweiten Taste auf **TEMP SETPOINTS** ein Punkt folgt.(siehe Abbildung).

RS 485 Modbus Schnittstelle:

Modbus ist ein serielles Protokoll, das für die Kommunikation zwischen einem Master und einer Reihe von Slaves-Geräten verwendet wird. Der Master fordert Informationen von den Slaves an, indem er die Slave-Adresse, einen Lese- oder Schreibbefehl und die Registeradresse angibt, von der er liest oder in die er schreibt. Es können entweder ein einzelnes Register oder mehrere Register gleichzeitig lesen oder schreiben

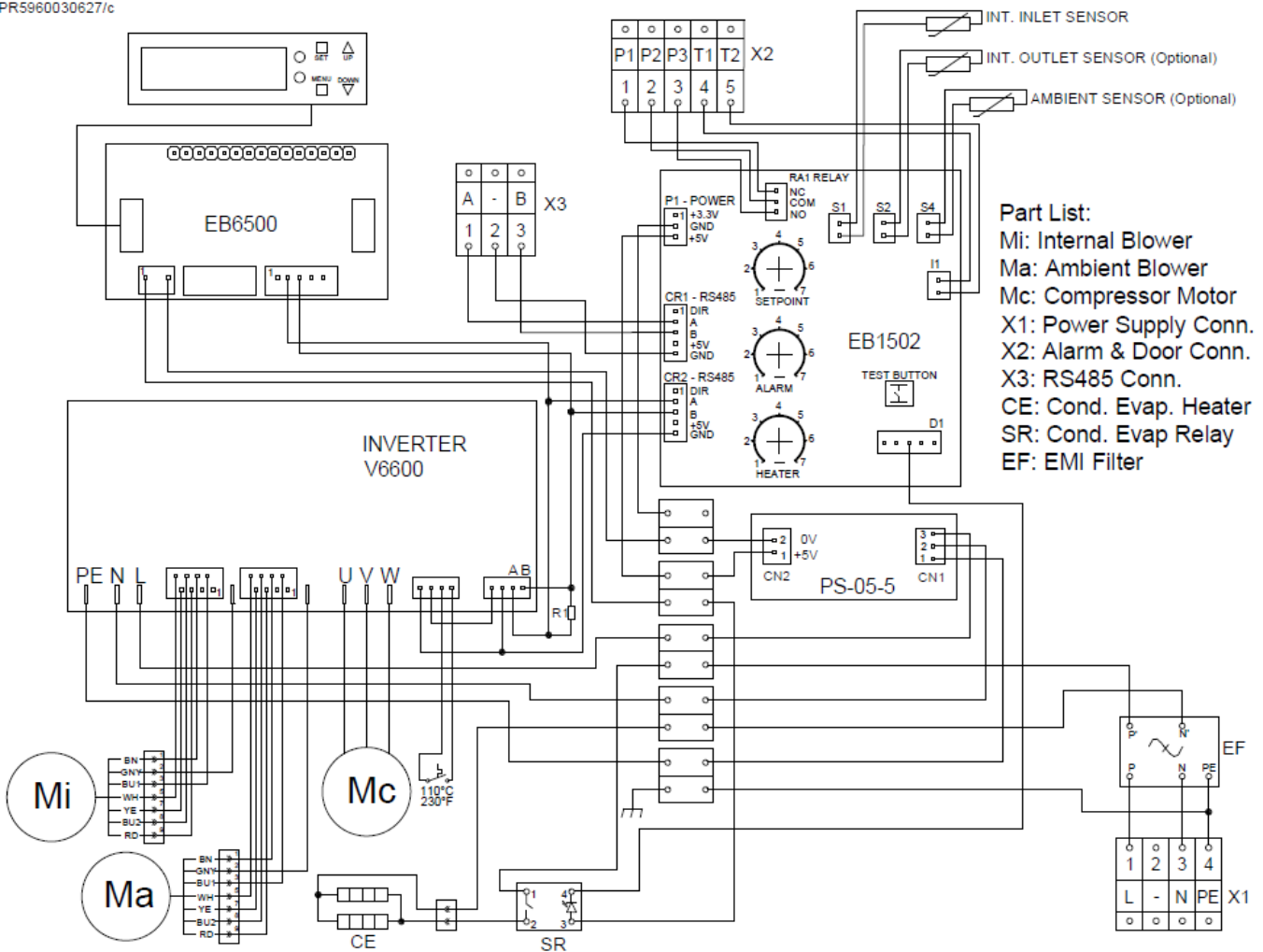
Sie können die Modbus-Einstellungen [hier](#) herunterladen oder auf den nachstehenden Link gehen.

https://www.seifertsystems.com/site/assets/files/6903/rdtg2001-0_1_-_generic_modbus_table.pdf

11. Wiring diagram

- Mc Compressor
- Ma Ambient fan
- Mi Internal fan
- Cc Compressor capacitor
- X1 Electrical connections:**
- L1 Live 115-230 V ~ 50/60 Hz
- N Neutral
- PE Earth
- P1 & P2 Alarm contacts
- T1 & T2 Door contacts

PR5960030627/c



12. Taking into operation

Attention!

The unit can be damaged by lack of lubricant. To ensure that the compressor is adequately lubricated the oil, which has been displaced during transport, must be allowed to flow back into it. The unit must therefore be allowed to stand for at least 30 min. before being connected to the mains and taken into operation.

The unit / system must be protected with a MCB Type D or K. Upon connection the internal fan will start working. If the temperature inside the enclosure is higher than the set value of the controller both the compressor and external air fan start working. The cooling cycle will either stop once the air inside the enclosure reaches the set temperature minus hysteresis or once the minimum On-time is reached. The setpoint for the internal enclosure temperature is pre-set at 95°F.

The hysteresis is 3K, the minimum ON-time is 4 minutes, the minimum OFF-time is 3 minutes, for units with a cooling capacity of more than 1 kW is it usually 7 minutes.

13. Trouble shooting

Failure	Reason	Troubleshooting
<i>Unit doesn't start</i>	No power supply	Check the electrical connection
	Cabinet temperature is lower than set point	Wait until the set point is reached. The unit will then start automatically. If the set point of the cabinet temperature is too high, reduce it accordingly.
	Door contact is open	Close the cabinet door or bridge the door contact.
<i>Unit doesn't cool</i>	Compressor is faulty	Please get in contact with one of our service partners.
	The circuit breaker of the compressor got activated	Check the cooling capacity. In case the cooling capacity is too small, install the unit at a different place or add another cooling unit.
	The evaporator and / or condenser are extremely dirty.	Evaporator and /or condenser need cleaning
<i>Evaporator is iced up</i>	Not enough refrigerant due to leaking cooling circuit	Refill refrigerant and re-seal cooling circuit. Please contact the manufacturer.
	Ambient temperature is much lower than the stated operating temperature range	Install the unit at a different place. The ambient temperature must be within the stated operating temperature range.
	The control cabinet is not sealed properly.	The control cabinet needs re-sealing.
	Fan or fan capacitor on the cold side are faulty	Replace fan and/or fan capacitor.
<i>Too much condensate</i>	Cabinet door not closed	Ensure that cabinet door is closed properly
	The cabinet is not sealed properly	The control cabinet needs re-sealing.
	Incomplete gasket between cooling unit and cabinet	Please check gasket
<i>Uneven air circulation inside the cabinet</i>	Cabinet air intake and air outlet are blocked	Ensure that both are unblocked and that air can circulate
	Cabinet volume too big for this cooling unit	Check the cooling capacity. In case the cooling capacity is too small, install the unit at a different place or add another cooling unit.
<i>Condenser fan doesn't work</i>	Fan is faulty	Replace fan
<i>Evaporator fan doesn't work</i>	Fan is faulty	Replace fan

Note: Before you contact one of our service partners please press the test button of the controller. Like this the fans and the evaporator are getting switched on independent of the internal cabinet temperature. In cases of emergency you can contact us under one of the tel. numbers stated on the last page.

14. Maintenance & Cleaning



*Always switch power supply off before starting any maintenance on the unit.
Wait for 5 minutes for electrical components to discharge.*

The cooling unit is generally maintenance free and can be operated without filters in most environments.

If the ambient air is extremely dusty, we recommend installing filter mats (see accessories). These should be cleaned or replaced at regular intervals. Oily or greasy filter mats should be replaced immediately. Do not use a steam jet or high pressure to clean the filter mats. Do not wring out the filter mats. If the ambient air is extremely oily, we recommend the use of metal filters (see accessories). They can be cleaned with standard cleaning agents and reused. In addition the unit should have regular functional tests (approx. every 2,000 hours depending on the grade of ambient pollution).

Note: The use of filter mats / metal filters reduces the cooling capacity of the unit..

Disposal

The cooling unit contains R134a refrigerant and small quantities of lubricating oil. Replacement, repairs and final disposal must be done according to the regulations of each country for these substances.

15. Transport & Storage

Malfunction due to transport damage

On delivery the carton box containing the unit must be examined for signs of transport damage. Any transport damage to the carton box could indicate that the unit itself has been damaged in transit which in the worst case could mean that the unit will not function.

The unit can only be stored in locations which meet the following conditions:

- temperature range: - 40°F to 158°F
- relative humidity (at 77°F): max. 95 %
- the cooling unit should always be stored according to the installation position





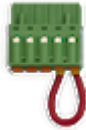






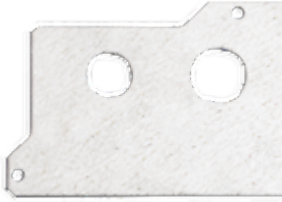


Returning the unit

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 1.2 inch 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 corner pieces, strips or cardboard corner pieces).

16. Parts supplied / Spare parts / Accessories

Description	QTY	Image
Instruction manual	1	
CE Declaration	1	
M6 * 16 bolts	12	
A6.4 toothed washers	12	
A6.4 washers	12	
M4 * 12 bolts	2	
5 - pole terminal block for signals	1	
4 - pole terminal block for electrical connection	1	
3 - pole terminal block for RS 485 Modbus	1	
Cable gland M16 * 1.5	1	
Lock nut M16 * 1.5	1	
Cable gland M20 * 1.5	1	
Lock nut M20 * 1.5	1	
Supply plate	1	
Drain fitting	1	
Foam tape		

Spare parts:



Description

Order no.

1 Spare Part Kit - Compressor	SP-852500001-A
2 Spare Part Kit - Ambient fan	SP-852500001-B
3 Spare Part Kit - Internal fan	SP-852500001-C
4 Spare Part Kit - Controller	SP-852500001-D
5 Spare Part Kit - Connectors, strain relief	SP-852500001-F
Spare Part Kit - Installation parts	SP-852500001-P

Please always state the serial number of the cooling unit when ordering any spare parts. *Note:* only original spare parts should be used. For further information or queries kindly contact our service department on service.emea@seifertsystems.com

Accessories:

Description	Order no.
Washable aluminium filter	AC-8515/20/25-BF-1
Cold air outlet duct	AC-8515/20/25-BZ-1
Anti vibration kit	AC-8515/20/25-T-1
Door switch contact	3100001

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