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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

The cooling unit is intended to be used as a complementary accessory to larger industrial equipment. The unit is used where heat needs to be dissipated from electrical control cabinets or similar enclosures in order to protect heat sensitive components. *It is not intended for household use.*

The unit has two completely separate air circuits which ensure that the clean cabinet air does not come into contact with the ambient air which may well be dirty or polluted.

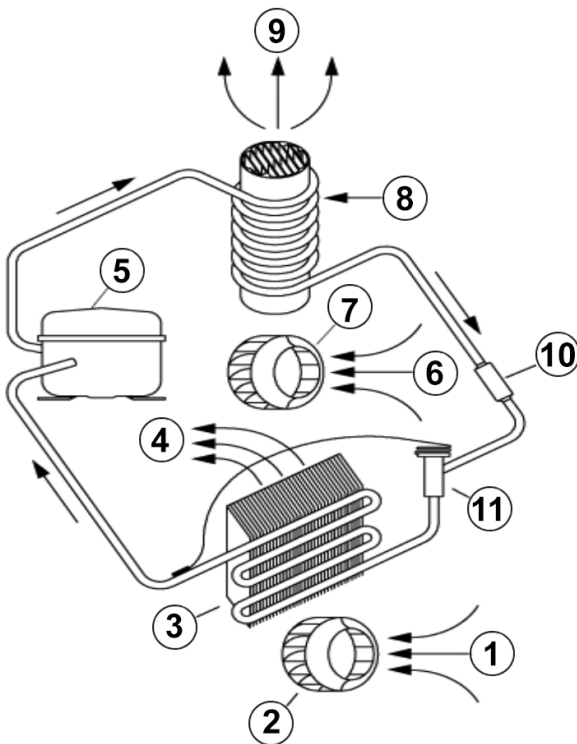
Enclosure cooling units can dissipate large quantities of heat from sealed enclosures such as electrical enclosures into the ambient air and at the same time reduce the cabinet internal temperature to below that of the ambient air. The unit can function without problems in extreme ambient conditions (e.g. dusty and oily air) with a standard operating temperature ranging between -40°C (-40°F) and +55°C (131°F).

Units can be ordered with an additional electrical cabinet heater. For the cooling capacities and environmental ratings please refer to the type plate data.

5. Functional principle

The cooling unit for enclosures works on the basis of a refrigeration circuit consisting of four main components: compressor (1), evaporator (2), condenser (3) and expansion device (4).

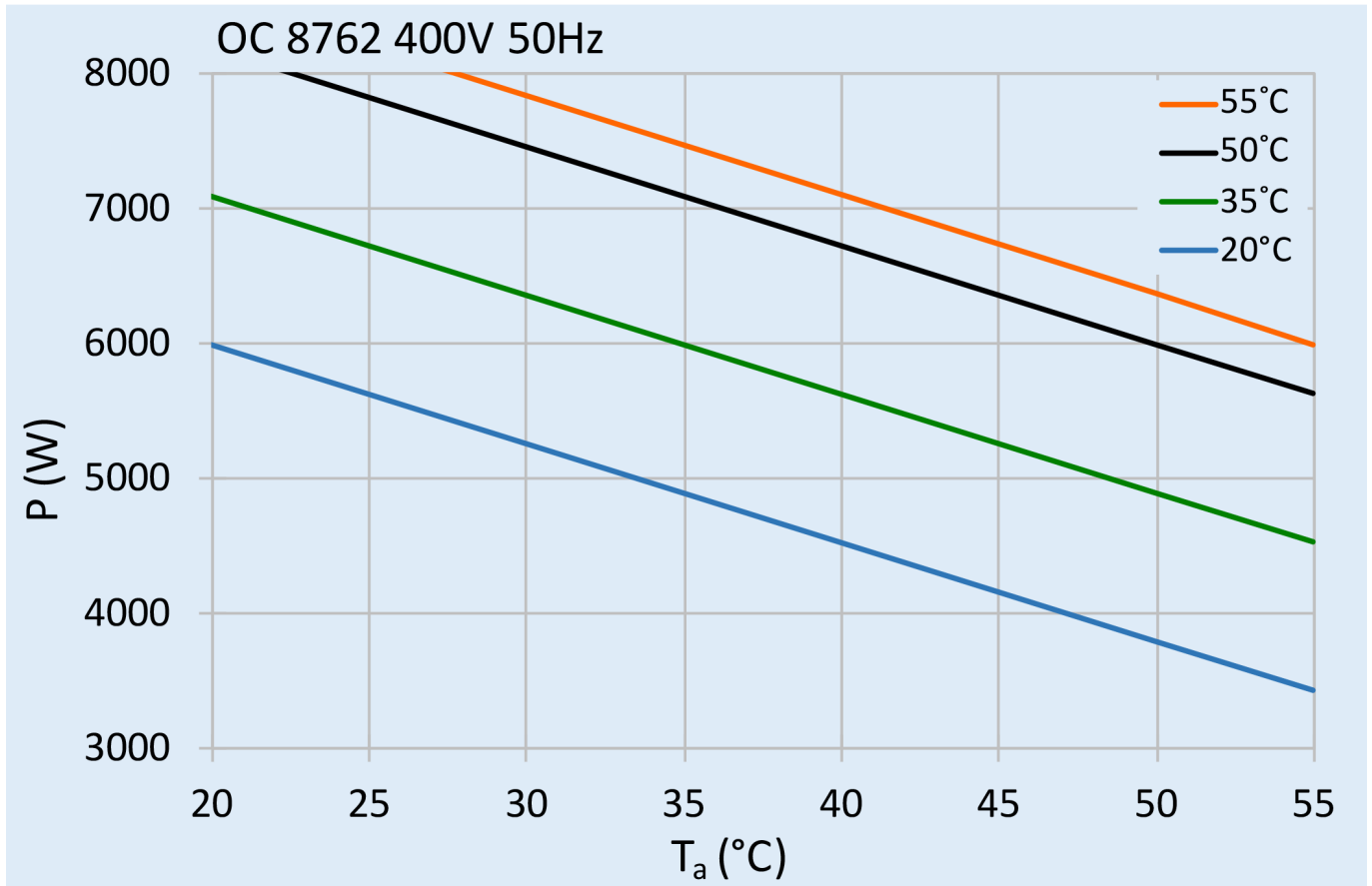
The circuit is hermetically sealed and R134a refrigerant circulates inside it (R134a is chlorine free and has an Ozone Destruction Potential [ODP] of 0 and a Global Warming Potential [GWP] of 1430). The compressor compresses the refrigerant (thus taking it to high pressure and high temperature), and 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 arrived 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.



6. Technical data

Order Number	87622182
Cooling capacity L35L35 (EN14511-3)	5800 W @ 50 Hz 6200 W @ 60 Hz
Cooling capacity L35L50 (EN14511-3)	4800 W @ 50 Hz 5400 W @ 60 Hz
Enclosure heater	2000 W
Compressor type	Scroll Compressor
Refrigerant / GWP	R134a / 1430
Refrigerant charge	1140 g / 40.2 oz
High / low Pressure	32 / 6 bar 460 / 88 psi
Operating Temperature Range	-40°C - 55°C
Air flow volume (system / unimpeded)	Ambient: 1080 / 1480 m ³ /h Enclosure: 935 / 1080 m ³ /h
Mounting	Wall mounted
Housing Material	Stainless steel AISI 304 (V2A)
Dimensions A x B x C (D+E)	1135 x 455 x 390 mm
Short-circuit current rating	5 kA
Connection	4 pole terminal block for power 5 pole terminal block for signals, 3 pole connector for RS 485 interface
Ingress Protection	IP 56 / Type 12, 3, 3R, 4X
Approvals	CE, cURus, cULus

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.

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.

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. Following this 1:1 Scale Drilling Template drill the holes and make the required cuts on the enclosure. This template may have been affected by storage conditions, please check this template by verifying values of the largest dimensions before drilling. Fit the sealing strip on the cooling unit on the side connected to the enclosure and follow the installation diagram.

This AC unit can only be mounted to a suitably Type rated enclosure to maintain it's Type rating. The Type and IP rating of the enclosure should be the same or higher than that of the unit.

9. Condensate management

In environments with humidity and low internal enclosure temperatures, condensation may form on the evaporator coil. By default the cooling units have a drain socket towards the bottom of the unit for connection of the drain pipe.

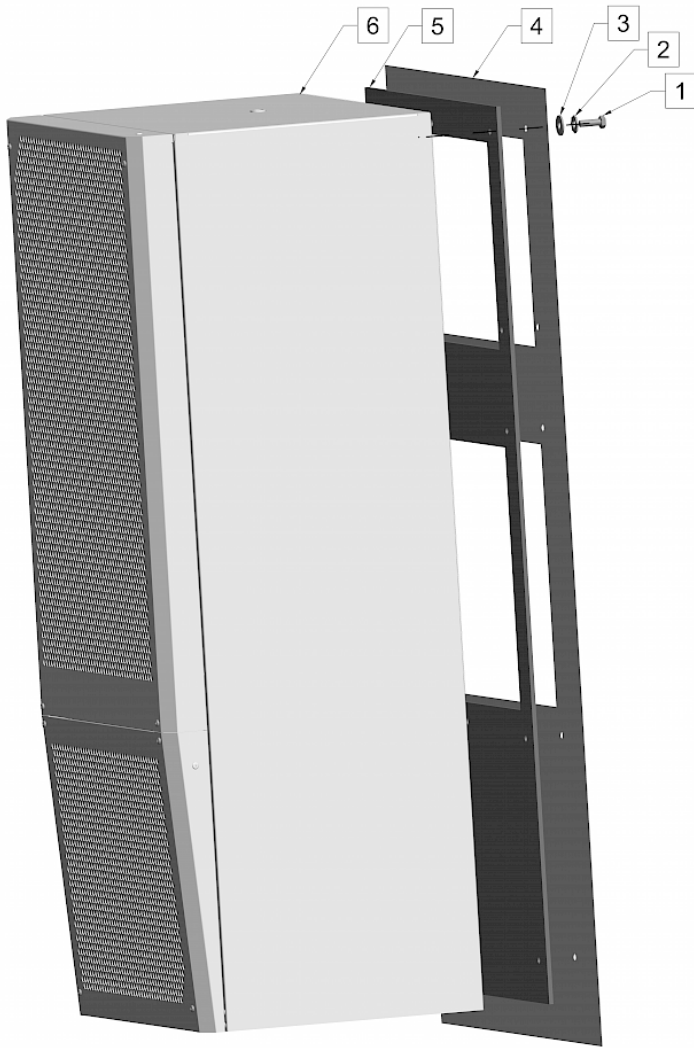
Furthermore the cooling units have an internal condensate evaporator based on self-regulating PTC cartridges. Condensate is drained to an internal recipient where it evaporates when in contact with the cartridge surface. Resulting steam is directed towards the condenser. The PTC heater cartridge is permanently connected, and condensate evaporator has an approximate evaporation capacity of 250ml/hr. The recipient has an overflow socket at the bottom of the unit. A drain pipe is supplied to connect to overflow socket.

10. Mounting Principle



Do not use within the first 15 minutes after installation!

- 1 M6 bolts
- 2 M6 toothed washers
- 3 M6 Flat washers
- 4 Enclosure
- 5 Mounting gasket
- 6 Cooling unit



11. Cut Out Dimension



12. Electrical Connection

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.*

13. Controller

The display shows the temperature in the range of -30°C to 110°C. The temperature is displayed with a resolution of 0.1°C between -9.9°C and 99°C, and 1°C between -30°C and -10°C, and between 100°C and 110°C. On start-up, the screen shows the unit's internal temperature, and this is considered the Home Menu of the controller.



Buttons LED Functions

□ Menu	Blue LED: Steady On - Cooling mode
○ Set	Blue LED: Blinking - min. comp. off time not elapsed
△ Up	Red LED: Steady On - Heating mode (opt.) Red LED: Blinking - Alarm
▽ Down	Rightmost digit - Master/Slave indicator

i) Operations from Home Screen:

- Pressing △ or ▽ for 1 second will go to Menu 1. This will show the status of DI1, DI2, S1, S2, Onboard Sensor and total Alarms. Pressing △ or ▽ will toggle between sensors/digital inputs and alarms.
- Pressing □ will go to Menu 2.
- Any Alarms will appear on the Home Screen.
- If the Door Contact is Open, the Home Screen will show an OFF status.
- Pressing △ and ▽ simultaneously for 3 seconds will start Test Mode

ii) Operations from inside the Menus:

- Pressing □ from any menu will return to the Home Screen.
- Pressing ○ while in Menus 2/3 shows the parameter value.
- Pressing ○ for 3 seconds while showing a parameter, will save the parameter.
- Pressing □ while showing a parameter, will return to the respective menu.

iii) Menu Access using passwords :

- As standard, the user can only access Menus 1 and 2.
- When using the client password, the user is allowed access to Menu 3.
- This password can be set at any value between 0 and 9998.

All parameters are sorted in 3 separate menus.

Menu 1

Parameter	Description	Range
Sbrd	Onboard Sensor Reading	-
S1	S1 Sensor Reading	-
S2	S2 Sensor Reading	-
d1	Digital Input 1 Reading	0: Open 1: Closed
d2	Digital Input 2 Reading	0: Open 1: Closed
AL1 – AL10	Alarms Counters for Alarm 1 to Alarm 10. Alarm description is described in table Alarms Codes below.	Alarm counts, up to 250 per alarm.

Menu 2

Parameter	Description	Input	Setting range
Ct_S	Control Setpoint	△ or ▽ to Increase/Decrease Temperature	Min: ccS1 Max: ccS2
HA_S	High Alarm Setpoint	△ or ▽ to Increase/Decrease Temperature	Min: HAS1 Max: HAS2
LA_S	Low Alarm Setpoint	△ or ▽ to Increase/Decrease Temperature	Min: LAS1 Max: LAS2
Ht_S	Heater Setpoint	△ or ▽ to Increase/Decrease Temperature	Min: HS1 Max: HS2
C_F	Celsius / Fahrenheit	△ or ▽ to change between °C and °F	C: Celsius F: Fahrenheit
IP_1	Input 1 Invert	△ or ▽ to changes between NC/NO door contact	0: NC 1: NO
StAt	System State	Read Only	OFF: Off IdL: Idle CL: Cooling Ht: Heating tSt: Test
OUiP	Relay Outputs	Read Only	H: Heater Relay A: Ambient Blower Relay C: Compressor Relay
PASS	Password	△ to increase number and ▽ to change digit	Any number between 0 to 9999
		An incorrect Password will reset the input to 0	
		The correct password opens MENU 3	

Menu 3

Parameter	Description	Input	Setting range
Add	Modbus Address	△ or ▽ to increase or decrease Modbus Address	Any number between 1 and 254
SLoc	Setpoints Lock	△ or ▽ to change between Locked/Unlocked	0: Unlocked 1: Locked
CPSS	Change Password	△ to increase number and ▽ to change digit	Any number between 0 to 9998
MS1	Master Enable	Master On/Off	ON: Master On OFF: Master Off
MS2	Master Mode	△ or ▽ to change Master Mode	NONE: None IDN: Identical Mode PR: Power Mode
MdL	Power Mode Delta Temperature	△ or ▽ to increase or decrease temperature	Min: 0 Max: 9999
r S1	Redundancy Mode	△ or ▽ to change between Redundancy Modes	NONE: None A: Redundancy Mode A B: Redundancy Mode B
r S2	Redundancy Start-up	△ or ▽ to increase starting units	Min: 1 Max: 10
r S3	Redundancy Timeout	△ or ▽ to increase time (Minutes)	Min: 0 Max: 9999

Alarms codes

Alarm Code	Description
AL1 - HI	High Temp Alarm
AL2 - LO	Low Temp Alarm
AL3 - PrEP	Pressure Pipe Alarm
AL4 - AbS	Ambient Sensor Faulty
AL5 - PPS	Pressure Pipe Sensor Faulty
AL6 - ICES	Ice Sensor Faulty
AL7 - InS	Internal Sensor Faulty
NA	Not Available
AL9	...Check 'Digital Input 2' Table below
AL10 - ICE	Ice Algorithm Active
AL11 - SLOC	Incorrect Sensor Location

Digital Input 2 Table

dIn2	Generic Error
PH_F	Phase Failure
Pr_S	Pressure Switch
FL_S	Float Switch

Test mode

- Test mode is started by simultaneously pressing Δ and ∇ for 3 seconds from the Home screen.
- When Test run is active, tEst will be shown blinking on the display.

Test procedure when Internal Temperature is between 10°C and 50°C

0 - 30 seconds	Ambient blower
30 seconds - 5:30 minutes	Ambient blower + compressor
5:30 - 6:30 minutes	Ambient blower + heater

Master / Slave and Redundancy Functionality

i) Master / Slave Mode - Specifications

- Network of maximum 10 units.
- The Modbus addresses of the units need to be set manually.
- Unit addresses need to be between 1 and 10.
- The Master unit must be set with Address 1. When setting a master, an extended menu opens to set the Master/Slave and Redundancy modes.
- The Master unit is the unit which controls all the Master/Slave and Redundancy Operations.
- The Client only needs to set the Master, the other units (addresses 2 to 10) do not need to be set and will convert to Slaves automatically. For a unit to be a slave and included in the network, an address between 2 and 10 needs to be pre-set.
- When communication with the Master is lost, all Slaves will return to normal mode.
- Setting the number of units in the network is not required as the Master will try to communicate with all Slaves (units 2 to 10), but operates the algorithm based on the online units.
- Every pre-defined time, the Master unit will try to communicate with the Offline Units.
- If a Slave is in an alarm condition, the Master will power the Alarm LED, but does not show the Alarm code.
- The system can operate in Master/Slave only, Master/Slave + Redundancy or Redundancy Only.
- If a unit needs to operate in Heating Mode, any Master/Slave/Redundancy operation is ignored. If the Master needs to operate in Heating Mode, the Slaves continue to operate in Master/Slave/Redundancy mode and enter cooling mode if necessary. The algorithm for the slaves will still be controlled by the Master, although the Master may possibly be in heating mode.
- The Master can only be enabled via the Display or via Gateway. It can be enabled via Modbus, but for the Gateway operation only rather than for Client use and a Modbus Controller will not be able to communicate with the units anymore. The Seifert Gateway acts as a Slave in the Master/Slave network and will still be able to communicate with the Master.

When a network is in MSR mode, the flashing of the 4th digit dot (right most digit), indicates the status of the unit in the MSR status. Below is a table describing the flashing based on the unit status.

Unit Master	Continuous Blinking	101010101010101010101010101010
Unit Slave	Blinking x2 and pause	101000000000101000000000
Unit Master Redundant	Blinking x3 and pause	1010100000000010101000000000
Unit Slave Redundant	Blinking x4 and pause	10101010000000001010101000000000

Master settings

Display	Description
MS1	Master On/Off
MS2	Master Modes: None, Identical, Power
MdL	Power Mode Delta Temperature

MS2: Master Modes

None:

- All units are Independent of each other.
- Each unit operates using its own setpoint and its own Internal Temperature.
- The Master still communicates with the Slave units to gather information in case information needs to be communicated to the Gateway.

Identical Mode:

- All units operate as one single unit.
- The Master operates using the Maximum Internal Temperature in the network, and the Slaves follow the operation of the Master.
- In this mode, the client needs to only set the Master setpoints.
- If a Slave needs to execute the heating mode, Master/Slave operation is ignored.
- If the Master needs to execute the heating mode, the Slaves will keep operating on the Maximum Internal Temperature of the network.

Power Mode:

- All units operate using the Master Setpoints but using their own Internal Temperature.
- If any unit Internal Temperature exceeds the Master Control Setpoint + Delta, the Master takes back control of all the Slaves and operation is changed to Identical Mode.
- If all Internal Temperatures fall below the Master Control Setpoint, control is released from the Master and the Slaves will operate Independently based on their own Internal Temperature whilst using the Master Setpoints.
- If a Slave needs to operate in heating mode, Master/Slave operation is ignored.
- If the Master needs to operate in heating mode, the Slaves will keep operating on the Maximum Internal Temperature of the network.

ii) Redundancy Mode

Redundancy settings

Display	Description
rS1	Redundancy Modes: None, Mode A, Mode B
rS2	Start-up Mode
rS3	Changeover Timeout in Minutes

RS1: Redundancy Modes:

None:

No redundancy, all units operate normally

Mode A:

In this mode, there will be 2 sets of units, and they will toggle between each other after a pre-defined time. The start-up units are settable.

Below is an example, starting with Units 1 to 4 ON (Blue ON, White OFF)

1	2	3	4	5	6	7	8	9	10
1	2	3	4	5	6	7	8	9	10
1	2	3	4	5	6	7	8	9	10
1	2	3	4	5	6	7	8	9	10

Mode B:

In this mode, the system will 'move' one unit at a time after the pre-defined time.

Below is an example, starting with Units 1 to 4 ON

1	2	3	4	5	6	7	8	9	10
1	2	3	4	5	6	7	8	9	10
1	2	3	4	5	6	7	8	9	10
1	2	3	4	5	6	7	8	9	10
1	2	3	4	5	6	7	8	9	10
1	2	3	4	5	6	7	8	9	10
1	2	3	4	5	6	7	8	9	10
1	2	3	4	5	6	7	8	9	10

Setting rS2, Start-up Mode, indicate the number of units to start when redundancy is active (Mode A/B). If the setting is set to 4, this means that on the first cycle, unit 1 to 4 are switched ON. If setting is set to 4 but unit 2 is offline, on the first cycle, units 1, 3, 4, 5 are ON.

- Setting rS3, Changeover Timeout, indicates the duration of each cycle. This can be a value from 1 to 9999 minutes.
- If a Slave needs to execute heating mode, Redundancy operation is ignored.
- If the Master needs to execute heating mode, the Slaves will keep operating based on the Redundancy

Algorithm.

- The redundancy time increases only if there is at least one active (non-redundant) unit cooling from the active units group.
- The changeover between units happens only if no active unit is cooling.

Modbus Communication

Detailed instructions on Modbus communication can be found in the link below.

https://seifertsystems.com/site/assets/files/6903/rdtg2001-0_2_-_generic_modbus_table.pdf

Further notes:

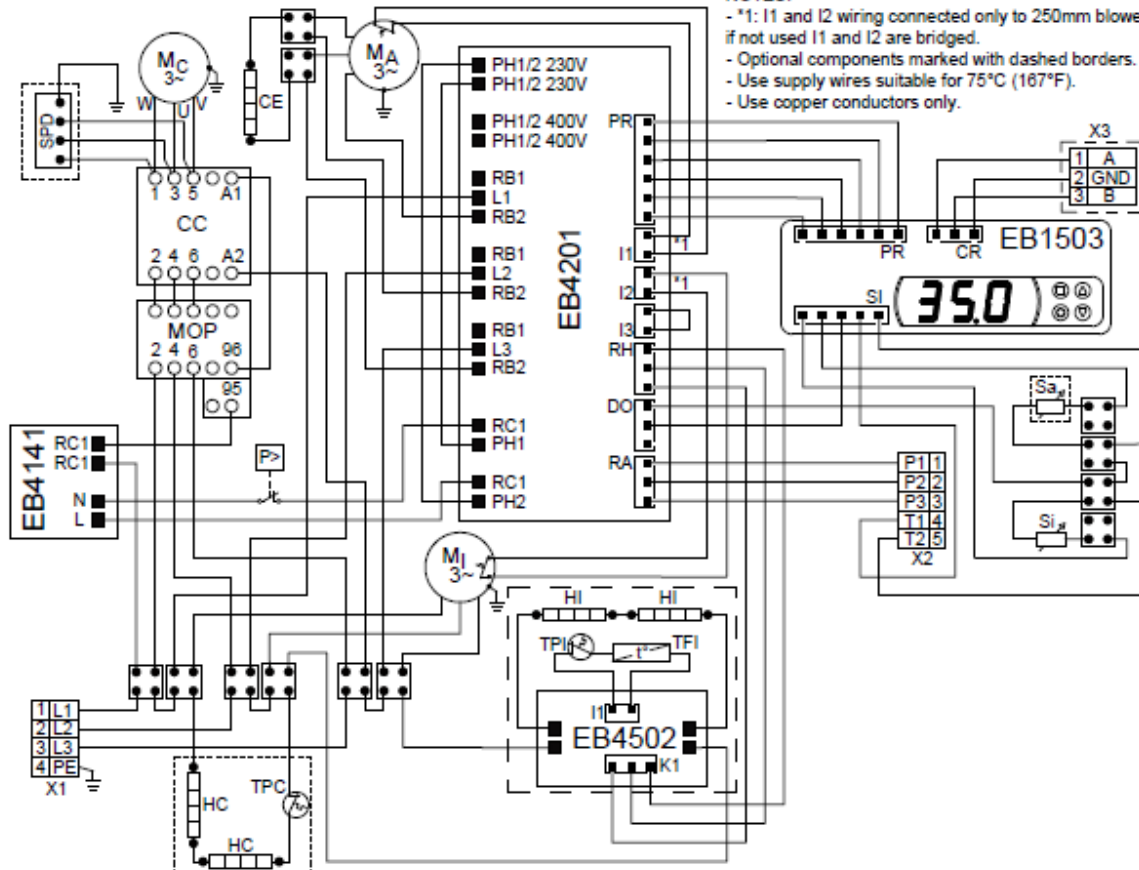
- From Modbus side, any setting can be with 0.1°C precision. From the display, the precision is 0.5°C. When having a setting, example 30.4°C, this will be rounded to 30.5°C when accessed via display.
- When Ambient, Icing and Pressure are not enabled, the value displayed (Modbus) is -50°C.
- When saving settings via communication, S is shown on display for 1 second.
- When system goes in Cooling Mode, C is shown on display for 1 second.
- When system goes in Heating Mode, H is shown on display for 1 second.
- When accessing the Display Settings of Menu 2/3, any settings from Modbus are ignored.
- When running a test with the door contact open, the display only shows TEST, since the unit will not be OFF.
- When running a test with Alarms, the Alarms and TEST are shown together.
- When unit is **not** Modbus Address 1, the Master/Slave and Redundancy parameters are hidden from Menu3 when using Client Password. (MS1, MS2, MdL, rS1, rS2, rS3).
- The Blue LED is ON when the unit is cooling.
- A red LED is ON when the unit is heating.
- The red LED flashes when an alarm is present.

14. Wiring Diagram

L1: Live phase 1	L2: Live phase 2	L3: Live phase 3	PE: Protective Earth
P1: High temp. alarm	P2: High temp. alarm COM	P3: High temp. alarm	T1-T2: Door contact
HI: Internal heater	TPI: Thermal protector for HI	TFI: Thermal fuse for HI	MI: Internal blower
MA: Ambient blower	MC: Compressor	CE: Condensate evaporator	HC: Crankcase heater
TPC: Thermal cut-out for HC	CC: Contactor	OR: Overload relay	CR: Compressor relay
SPD: Surge arrester	X1: Power connector	X2: Signals/Alarms connector	X3: RS485 connector
P>: Manual reset high pressure switch			

NOTES:

- *1: I1 and I2 wiring connected only to 250mm blowers, if not used I1 and I2 are bridged.
- Optional components marked with dashed borders.
- Use supply wires suitable for 75°C (167°F).
- Use copper conductors only.



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15. 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. Once the air inside the enclosure reaches the set temperature the compressor and external fan will stop.

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.

The unit is pre-set at 35°C, which is suitable for most of the electronic devices.

16. Trouble Shooting

Failure	Condition	Cause	Solution
Unit doesn't cool	Internal fan does not work	Power not connected.	Verify power supply
	Internal fan works, external fan and compressor don't work	Enclosure temperature is below setting temperature (St)	Verify values of parameter "St"
		Door switch contact is open	Verify door switch
		Controller doesn't work	Replace controller
Internal fan works, external fan and compressor don't work. Display shows alternating OFF and temperature	The sequence of the phases inside the power supply connector is incorrect	Change phases inside power supply connector	
Unit doesn't cool	External and internal fan work, compressor does not work	Compressor motor electrical failure	Have compressor replaced by qualified service technician
		Capacitor for compressor failed	Replace capacitor
	Compressor works, external fan doesn't work	External fan needs to be replaced	Replace external fan
Enclosure temperature too hot	Compressor and fans (external and internal) work all the time	Cooling unit undersized	Enclosure needs a cooling unit with higher capacity
	Compressor and external fan work in alternating mode (ON / OFF)	Thermal compressor protector triggered	Verify if ambient temperature is too high, clean condenser
		Refrigerant leakage	Contact dealer/service center
Excessive condensate	Enclosure door open	Ambient air gets into the enclosure	Ensure door is closed, add a door switch and connect it to controller
	Enclosure door closed	Enclosure IP protection class is below IP54	Seal all openings of the enclosure
		Damaged or misplaced sealing strip	Repair sealing strip accordingly

17. Maintenance & Cleaning



Always switch power supply off before starting any maintenance on the unit.

The cooling unit is generally maintenance free and can be operated without filters in most environments. For units with filters these should be checked, cleaned and if necessary replaced on a regular basis. In addition the unit should have regular functional tests (approx. every 2,000 hours depending on the grade of ambient pollution).

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.

18. 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°C to 70°C
- Relative humidity (at 25°C): max. 95 %

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 30 mm. must be maintained at all points between the unit and the external packing.
- The unit must be shipped in the same position as it was mounted.
- The unit must be protected by shock resistant padding (hard foam corner pieces, strips or cardboard corner pieces)

19. Parts supplied / Spare parts / Accessories

Description	QTY	Image
Instruction manual	1	
CE Declaration	1	
Mounting template	1	
M4 * 10 screw	4	
M6 * 16 screw	17	
M6 toothed washers	17	
A6.4 washer	17	
Cable gland M16 * 1.5	1	
Lock nut M16 * 1.5	1	
Cable gland M20 * 1.5	1	
Lock nut M20 * 1.5	1	
4- pole terminal block	1	
5 - pole terminal block	1	
3 - pole terminal block for MODBUS	1	

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