

SERVICE MANUAL

USE

Refrigerated Dryer

Model: TA 8

GL-Nr.: 1_8027_2-00 01

Serial No.:

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1 Technical Specification

1.1 Refrigerated Dryer

Model	TA 8
Condensate volume under nominal conditions*	9 oz/h
Weight	176 lbs
Noise level to CAGI–Pneurop	< 70 dB(A) at 1 m distance (free sound field measurement)
Cooling air volume	360 cfm

* See chapter 1.2 for nominal conditions.

Drawings:

P & I flow chart	FKTTA8–00004.00 (Pipework and instrument flow chart)
Electrical diagram	STA–U0900.00
Dimensional drawing	T 8796.1
By-pass piping	896225.0

1.2 Compressed Air System

Flow volume	30 scfm
Pressure drop	1.8 psid
Pressure dewpoint	35 °F at 100 °F air inlet, 100 psig and 100 °F ambient temperature.
Maximum gauge working pressure	230 psig

1.3 Refrigerant System

Refrigerant	R 134a
Maximum quantity	0.62 lbs
Permissible gauge working pressure	260 psig

1.4 Installation Requirements

Max. elevation above sea level of installation	3000 ft. (for all elevations above please contact authorized KAESER distributor)
Min. ambient temperature	40 °F
Max. ambient temperature	110 °F
Maximum compressed air inlet temperature	130 °F

1.5 Connections

Compressed air outlet	3/4 NPT
Condensate drain connection (hose connection)	3/8"
Service connection (Schrader valve)	7/16 UNF

1.6 Electrical Connection

Main voltage	115 V ± 10 % 1-phase
Full load current, FLA	4.2 A
Frequency	60 Hz
Recommended main disconnect fuses (Dual element or time-delay)	15 A
Recommended power supply cable (Cu multi-stranded) cross-section	14 AWG

Attention!

Maximum dual element time-delay fuses are selected according to 1996 N.E.C. Article 240-6, 430-52 and Tables 430-148 & 150.

Select multi-strand copper core wire at 40°C ambient temperature according to 1996 N.E.C. 110-14(c), 220-3, 310-15, Table 310-16, 430-6, 430-22 and Tables 430-148 & 150.

1.7 Settings**Safety pressure switch (refrigerant)**

switching point (fixed)

P_{OFF} 265 psi**Thermostat**

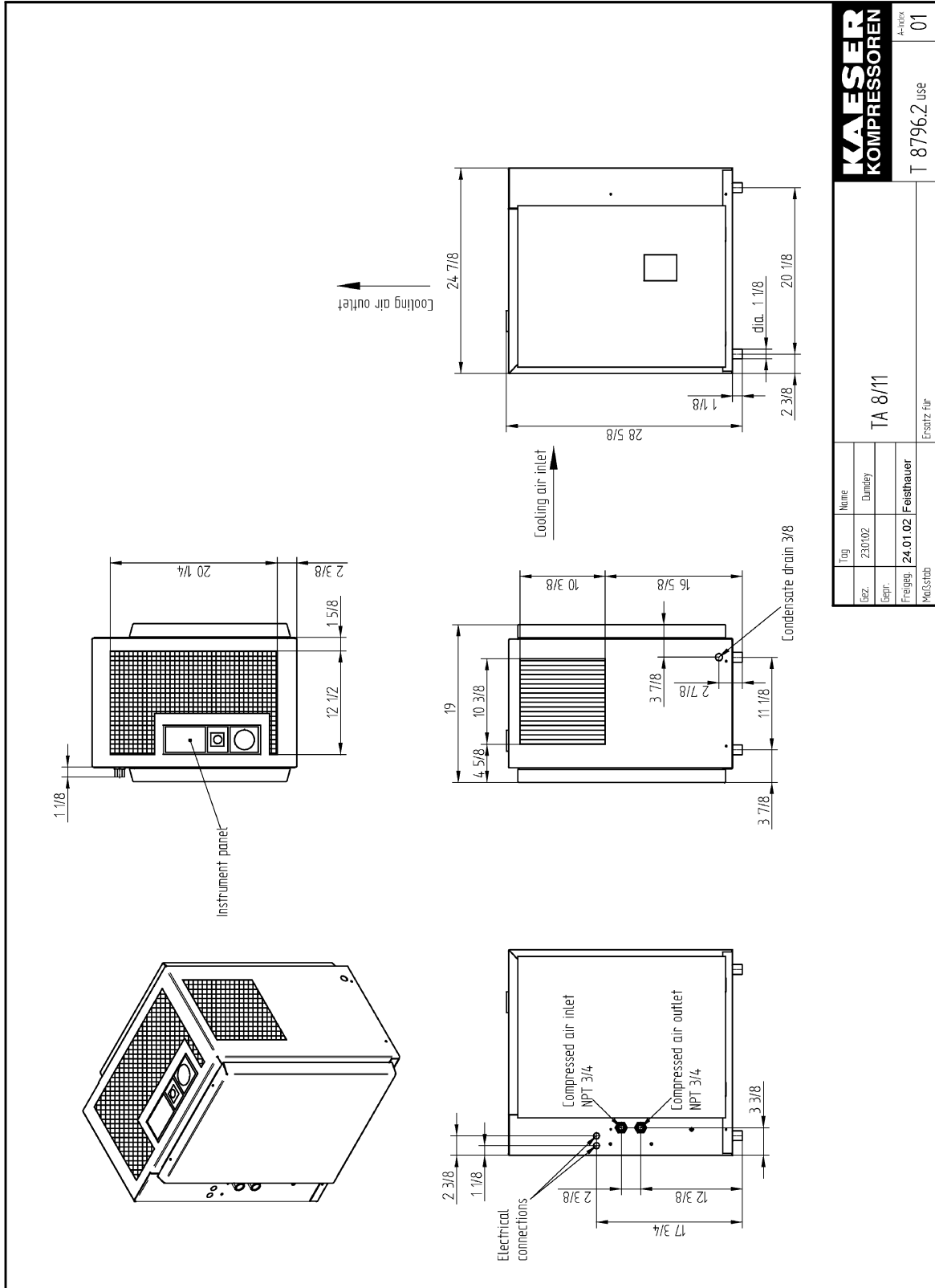
regulates pressure dewpoint to ca. 35 °F

1.8 Designation

The nameplate of the refrigerated dryer is located on the front left below the cooling air inlet (see chapter 10 for an illustration of the nameplate).

1.9 Dimensional Diagram

(see next page)

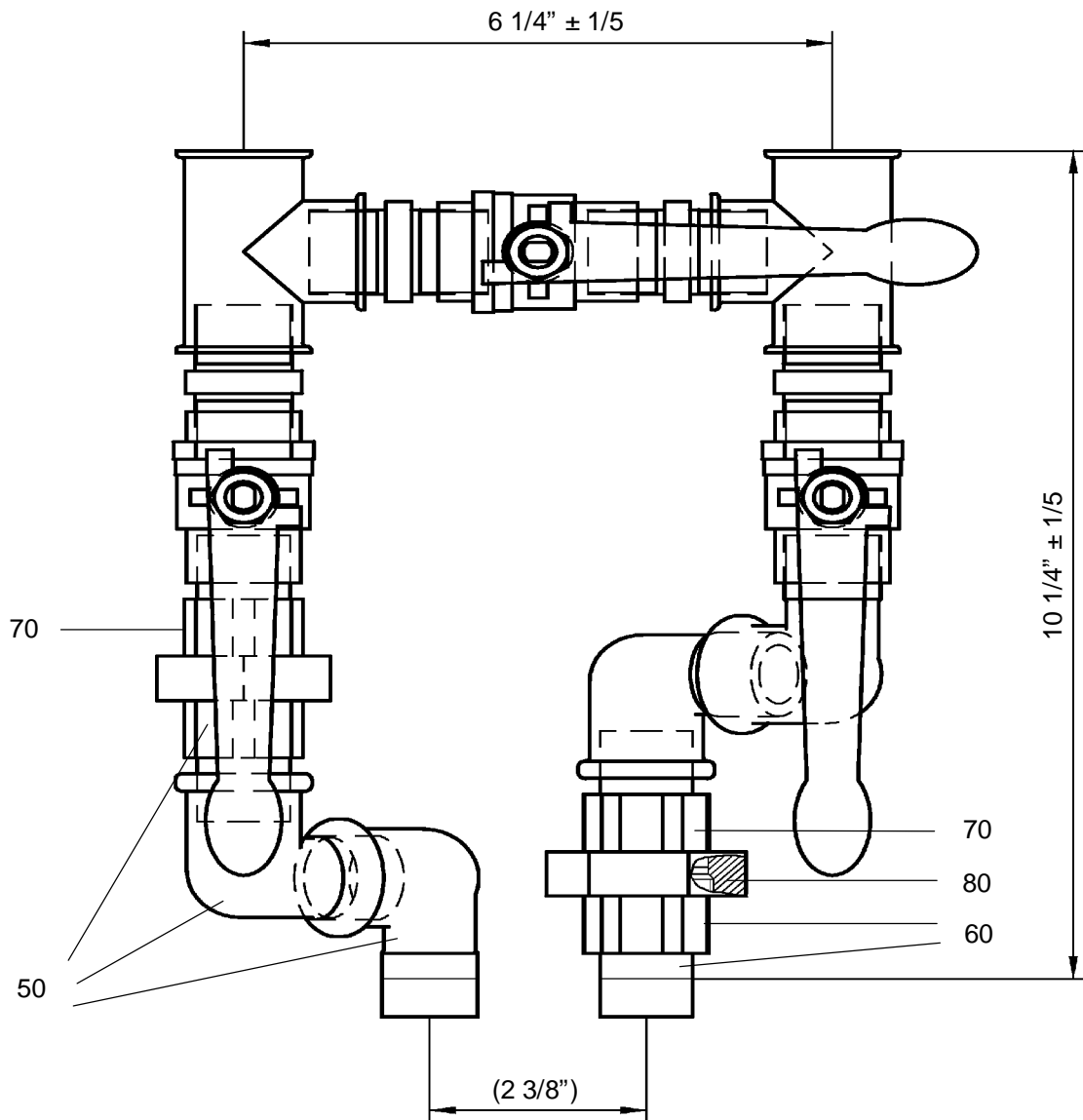


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Entwicklungsbedingte Änderungen vorbehalten. Zeichnung darf nur über den Fall geändert werden.

KAESER KOMPRESSOREN		TA 8/11		T 8796.2 use		A-index 01	
Ersatz für				Ersatz für			
Tag	Name	Freigegeben		Freigegeben		Freigegeben	
Bez	Dumsky	24.01.02		24.01.02		24.01.02	
Gepr.		Freistauer		Freistauer		Freistauer	
Maßstab				Maßstab			

1.10 Bypass 3/4 NPT



2 Safety Regulations

Read this service manual very carefully and observe all cautionary references before the initial start of this refrigerated dryer and before carrying out any maintenance on the unit.

2.1 Explanation of Symbols and References



This symbol is placed before all safety references where there is danger to life and limb. It is especially important that any associated instructions are followed explicitly and that extreme care is taken when performing the indicated task(s). For their own protection, inform all other users of these safety rules. Observe general safety and accident prevention regulations as well as the safety rules laid down in this service manual.

Attention!

This symbol is placed by text where considerable attention must be paid to recommendations, regulations, references and correct sequence so that damage and/or destruction of the compressor and/or other equipment is prevented.



This symbol identifies environmental care measures.



This symbol indicates operations to be carried out by the operator or service technician.

- This bullet identifies listings.

2.2 General Safety Instructions



Work on power driven systems may only be carried out by trained or instructed personnel or by specialized personnel.

Work on the electrical equipment of the refrigerated dryer may only be carried out by a qualified electrician or trained personnel under the supervision of a qualified electrician according to the NEC and any applicable local codes.

Work on the refrigeration system may only be carried out by a certified refrigeration technician (according to 40CFR Part 82).

Further points to be observed:

- No open flame or sparks at the point of installation.
- The maximum ambient temperature may not be exceeded (see chapter 1.4), otherwise special measures must be agreed between the manufacturer and the user.
- This unit is not explosion-protected and may not be operated in hazardous areas.

Attention!

The refrigerated dryer contains live electrical components.



Prior to working on electrical systems of the compressor always perform the following steps in the sequence shown.

1. Lock the main disconnect in the "off" position in accordance with applicable lock out/ tag out procedures (example: OSHA CFR 29 § 1910.147) to ensure the compressor does not restart.
2. Ensure the package cannot be switched on again
3. Check that no voltage is present
4. Lock the isolation shut-off valve in the "closed" position and vent all compressed air trapped between the compressor and the isolation shut-off valve in accordance with applicable lock out/ tag out procedures (example: OSHA CFR 29 § 1910.147).



The refrigerated dryer contains systems subject to high pressures. Before any maintenance work is carried out, vent and shut off all pipe-work under pressure.



Do not weld or braze on any pressurized components (e.g., pipes, tanks, fittings) or make any modifications that require heat treatment.

Attention!

Safety devices may not be modified or deactivated.

Signs and labels of reference may not be removed or rendered unreadable.

Attention!

Any alterations or reconstruction carried out without consultation with and the previous consent of KAESER COMPRESSORS will invalidate the warranty.

2.3 Refrigerant



Initial startup of and maintenance work on the refrigerant circuit may only be carried out by persons who have been trained in the safety concepts of refrigeration engineering.



Escaping compressed air and/or refrigerant can cause injury, frostbite, burns and lead to damage to the unit. Safety data sheets explaining how to deal with refrigerant are available from KAESER COMPRESSORS Inc.



The refrigerant contained in the refrigerating system may not be vented to the open air. Always use a refrigerant recovery system when working on the refrigerant circulation. Dispose of unusable refrigerant according to environmental regulations!

2.4 First Aid after Contact with Refrigerant

General: Remove damp clothing.

Inhalation:

- ☞ Remove victim to the fresh air.
Obtain medical attention in the case of breathing difficulties or nervous symptoms.

Skin:

- ☞ Rinse area with plenty of warm water.
Treat frostbite the same as burns. Obtain medical attention if pain persists or skin reddens.

Eyes:

- ☞ Open eyelids wide to allow product to evaporate.
Rinse immediately with open eyelids and plenty of running water for at least 10 minutes and seek medical advice if pain persists.

2.5 Spare Parts

The use of KAESER original parts guarantees safe and reliable operation of the refrigerated dryer.

2.6 Environmental Protection

Condensate drainage



The condensate accumulated during the drying of compressed air must be removed via a suitable drainage system, collected in special canisters and disposed of according to federal and local environmental regulations.

Maintenance materials/wear items/replacement parts



Ensure that all wear items, maintenance and replacement parts accumulated during operation of the refrigerated dryer are disposed of according to environmental regulations.

3 General



The service manual must always be available for use at the location of the refrigerated dryer.

3.1 Proper use

The refrigerated dryer is intended solely for drying compressed air.

Any other use outside of this purpose is considered improper. The manufacturer cannot accept liability for any damage caused by improper use; the user alone is liable for any risks incurred.

Proper use of the dryer includes compliance with the installation, removal, servicing, operation and maintenance instructions as specified by the manufacturer.

3.2 Improper use



Never direct compressed air toward persons. Compressed air is a concentrated form of energy and as such is dangerous to life.

3.3 Copyright

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4 Transport

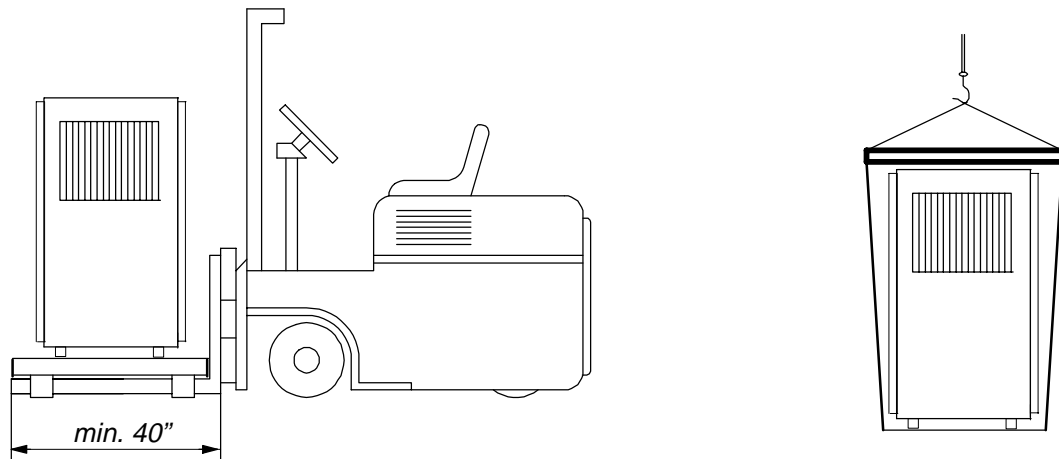
4.1 Transport Instructions

Attention!

Under no circumstances lift the refrigerated dryer with the compressed air inlet and outlet connections or lay the refrigerated dryer on its side. Serious damage can result from such treatment of the refrigerated dryer.

To prevent damage to the panelling of the refrigerated dryer always use a jack lift or a forklift truck for transport.

- Always mount the refrigerated dryer on a suitable transporting medium (pallet or wooden base) during transport.

**Attention!**

Do not exert any side forces on the refrigerated dryer with lifting equipment.

4.2 Packaging

The packaging provided with this compressor as delivered is intended to safeguard the package against normal road transport damage. Please dispose of in an environmentally friendly way and arrange for it to be recycled if possible.

4.3 Temporary Storage

Store the refrigerated dryer in an enclosed space, regardless of whether it is packaged or not.

The storage temperature should not fall below -13°F and not rise above 140°F .

Attention!

Before initial start, wait until the temperature of the refrigerated dryer has adapted to the ambient temperature.

5 Construction and Operation

Items referred to in () correspond with the items in the Pipe and Instrument Flow Diagram (see chapter 5.6).

5.1 Construction

The main component of the refrigerated dryer comprises a combined heat exchanger (heat transmitter). It consists of the two following main groups:

1st. stage: air to air heat exchanger (1)

2nd. stage: air to refrigerant heat exchanger (2)

A condensate separating system (3) is fitted in series with the heat exchanger.

A safety pressure switch (9) is fitted in the refrigerant circulation system as a protection against excessive pressure.

A thermal overload switch protects the refrigerant compressor (11) against current overloads and high temperatures.

The refrigerant circulation is automatically regulated with a thermostat (13).

5.2 Functional Description

The dried compressed air is then rewarmed by flowing through the air to air heat exchanger (1) before leaving the refrigerated dryer.

The warm compressed air of high humidity entering the unit is initially cooled in the air to air heat exchanger (1) through heat exchange with the cooled compressed air leaving the unit.

The moisture precipitated in the air to air heat exchanger is drained via an automatic condensate drain (5).

Further cooling occurs in the air to refrigerant heat exchanger (2), connected in series with the air to air heat exchanger through the action of expanding, gassing refrigerant. This action causes the humid components of the compressed air to condense out when the pressure dewpoint is undercut.

The condensate separator, (3) connected in series, separates the condensed water and oil droplets, together with coarse dirt particles, from the compressed air. This condensate is removed from the system by an automatic condensate drain (5).

The cooling action of the refrigerated dryer causes the condensation and subsequent separation of the humid content of the compressed air.

The refrigerant compressor (11) is switched off by a thermostat if the refrigeration demand sinks and switched on again when the demand rises. Considerable savings in energy are possible with this principle of operation.

5.3 Refrigerant Circulation

The dryer is able to cool the compressed air by using a refrigeration system not unlike a typical home refrigerator. Cooling is achieved by transferring heat from the compressed air to the refrigerant by vaporizing (boiling) the refrigerant, thereby turning the refrigerant into a gas. A more complete description of this process is given below:

The refrigerant enters the hermetically sealed compressor (11) as a low pressure gas. The gas is compressed to a suitable pressure to ensure that the gas is nearly saturated. The high pressure refrigerant gas flows to the condenser (10) where heat is removed from the refrigerant. As the high pressure refrigerant gas is cooled, the refrigerant becomes a liquid.

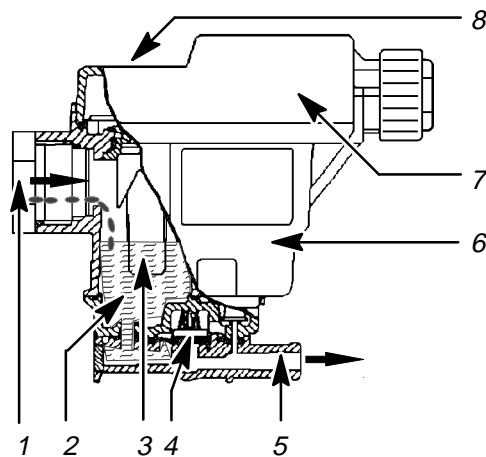
The high pressure liquid is then forced through a capillary tube (7). By forcing the refrigerant through this restriction, the refrigerant becomes a low pressure liquid. The low pressure, liquid refrigerant enters the evaporator (2) where heat from the compressed air is transferred to the refrigerant. The added heat causes the refrigerant to boil and results in the refrigerant becoming a low pressure gas. This becomes an endless cycle which allows the refrigerant to simply remove heat from the compressed air and expel it to the ambient air.

5.4 ECO-DRAIN

5.4.1 Functional Principle

Items referred to in () refer to the items in the following figures.

- The accumulating condensate enters the collector tank (2) via the inlet openings (1). The diaphragm valve (4) is closed.
- A capacitive sensor (3) continuously registers the liquid level and passes a signal to the electronic control (7) as soon as the chamber is full. The pilot valve is activated and the diaphragm valve (4) opens the outlet line (5). When the ECO-DRAIN is empty, the outlet line is closed again before compressed air can escape.



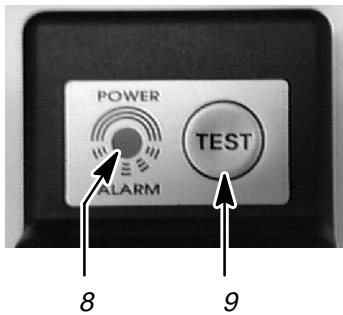
- | | |
|-------------------|------------------------|
| 1 Inlet opening | 5 Outlet line |
| 2 Collector | 6 Housing |
| 3 Level detector | 7 Electronic control |
| 4 Diaphragm valve | 8 Light-emitting diode |

- If a fault occurs (e.g. overload), the valve cycles on and off continuously to clear the fault. The light-emitting diode flashes.

5.4.2 Operational Status Indicator

The operational status of the condensate drain is indicated by a red LED (8) on the housing of the ECO-DRAIN. The LED will indicate one of the following conditions:

- 1 LED on permanently:
the drain is operational
- 2 LED extinguishes for a short period:
the drain is discharging moisture
- 3 LED flashing continuously:
a fault exists



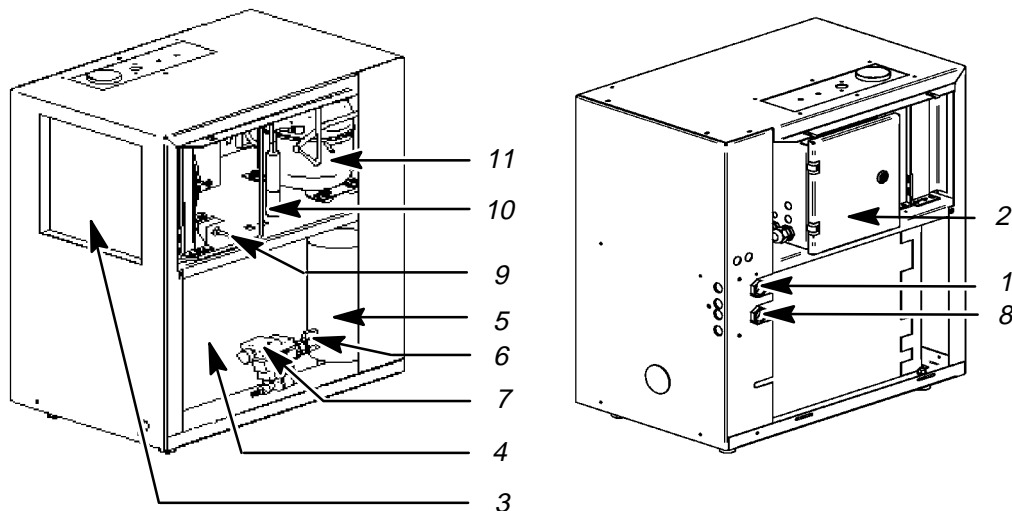
- 8 Operational status – light emitting diode
9 TEST pushbutton (condensate drain)

5.4.3 Functional check

Check the function of the ECO-DRAIN by pressing the TEST pushbutton (9). The ECO-DRAIN will switch to the discharge mode every 2 to 3 seconds as long as the button is depressed. The LED (8) flashes at the same interval.

5.5 Component Identification

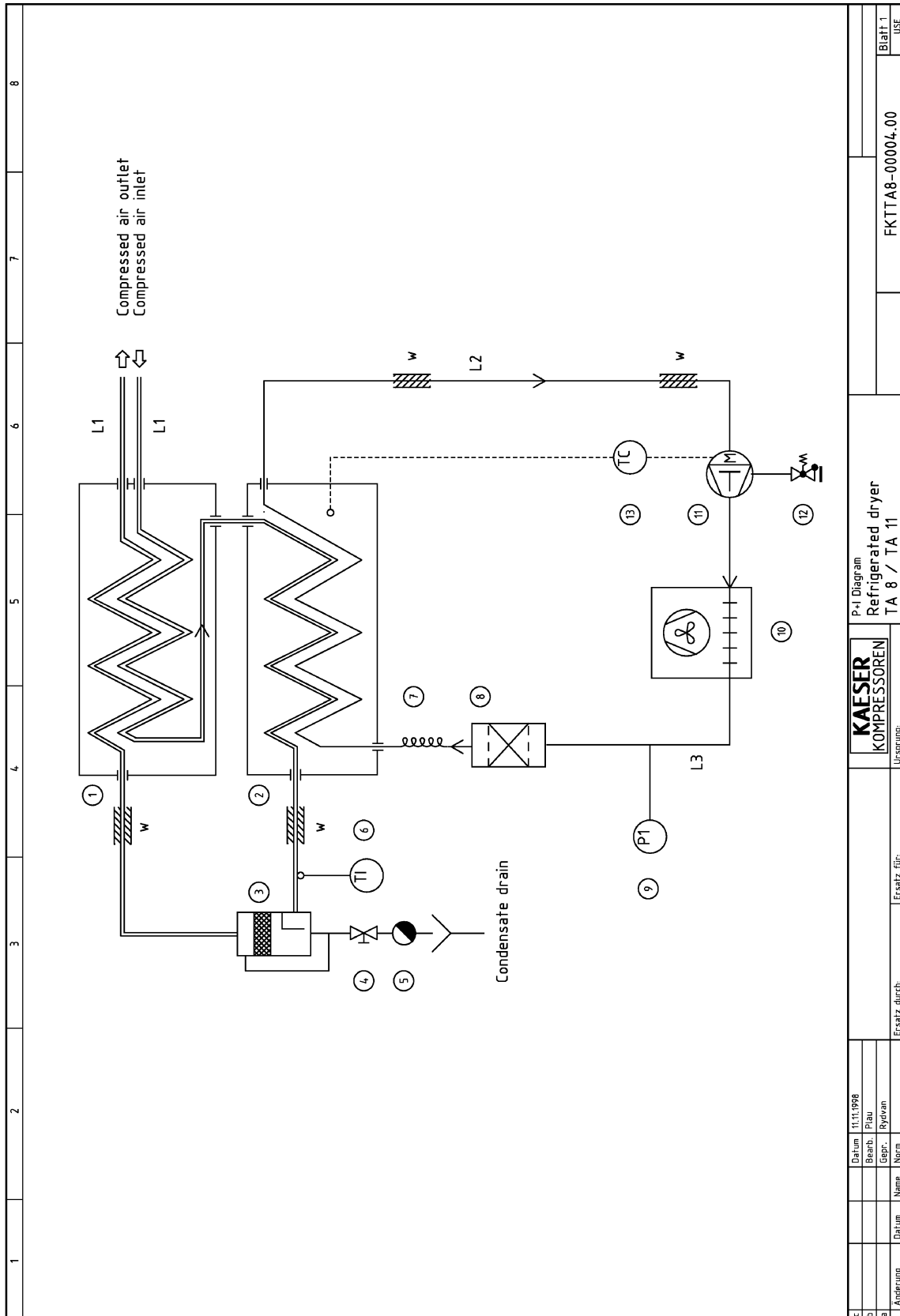
Numbers in () correspond to those in the Pipe and Instrument Flow Chart. (P & I Flow Chart).



- | | |
|------------------------------|--------------------------------|
| 1 Compressed air inlet | 7 Condensate ECO-DRAIN (5) |
| 2 Control cubicle | 8 Compressed air outlet |
| 3 Refrigerant liquefier (10) | 9 Safety pressure switch (9) |
| 4 Heat exchanger (1), (2) | 10 Filter dryer (8) |
| 5 Condensate separator (3) | 11 Refrigerant compressor (11) |
| 6 Shut-off valve (4) | |

5.6 Pipe and Instrument Flow Chart (P & I Flow Chart)

(see following pages)



1	2	3	4	5	6	7	8
1		1 Air to air heat exchanger			} heat insulated		
2		2 Air to refrigerant heat exchanger (Evaporator)					
3		3 Condensate separator					
4		4 Shut-off valve					
5		5 Condensate drain					
6		6 Pressure dew point indicator TI					
7		7 Capillary tube (Refrigerant injection)					
8		8 Filter dryer					
9		9 Safety pressure switch					
10		10 Refrigerant liquefier (air cooled condenser)					
11		11 Refrigerant compressor (hermetic)					
12		12 Service connection (Schrader valve)					
13		13 Thermostat					
		Piping:					
		L1	Pipe (Cu) 18 x 1 DIN 1708				
		L2	Pipe (Cu) 8 x 1 DIN 1708				
		L3	Pipe (Cu) 6 x 1 DIN 1708				
		w	heat insulated				
c		Datum	11.11.1998	P+I Diagram legend Refrigerated dryer TA 8 / TA 11		FKTTA8-00004.00	
b		Bearb.	Plau	KOMPRESSOREN		Blatt 2	
a		Gepr.	Rydwan	Ursprung:		USE	
Änderung		Datum	Name	Ersatz für:			

6 Installation

6.1 Installation Requirements

The refrigerated dryer must be installed in a dry and dust free space. To ensure adequate room for the maintenance of the refrigerated dryer, the minimum distances must be complied with (see following sketch).

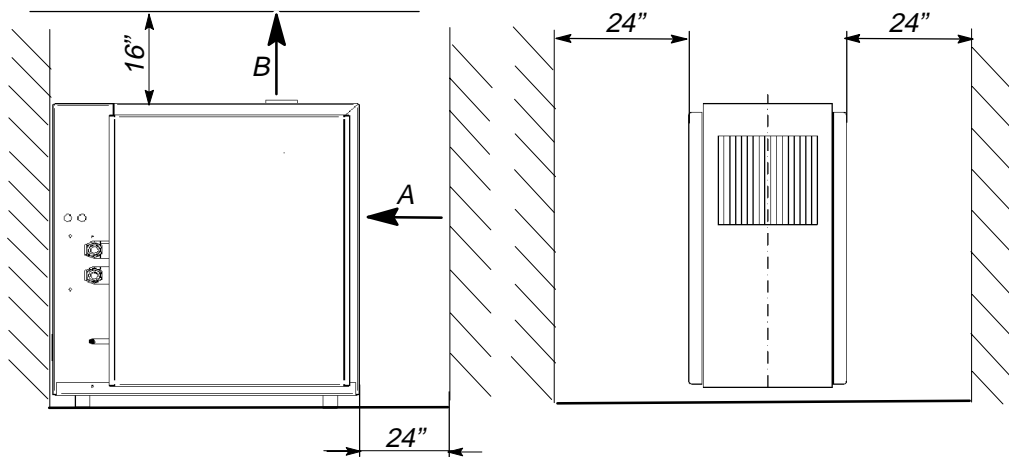
Install the dryer on an even flat surface. Special foundations for the installation of the refrigerated dryer are not necessary.

See chapter 1.4 for the the ambient temperature and maximum height of the place of installation.

Attention!

To ensure adequate ventilation and air circulation, be sure to allow for the indicated minimum clearances at the cooling air inlet and exhaust.

The refrigerated dryer must not be installed in the air inlet and/or cooling air outlet area of a compressor package.
The compressed air to be dried and the ambient air in the compressor space may not contain any acid-forming or other aggressive materials.



Measurements shown are minimum recommendations

A Cooling air inlet

B Cooling air outlet

Attention!

Installing of inlet and/or exhaust air ducting without prior written approval from of KAESER COMPRESSORS Inc. is not permitted.

6.2 Compressed Air Connection

Attention!

Use flexible connecting pipes at the compressed air inlet and discharge to ensure vibration isolation, prevent strain on piping connections and allow easy installation.

To avoid damage, do not overtighten the compressed air connections.

The refrigerated dryer is piped ready for operation.

Shut-off valves:



All power driven systems must be equipped with a main stop system for all forms of energy feed, the operation of which determines the start and stop of the energy supply to the system.

The compressed air inlet and outlet pipework must be provided with shut off arrangements (e.g. ball valves).

Bypass:

The compressed air inlet and outlet should be fitted with a bypass.

See diagram in chapter 1.10 for details of the bypass.

Installation notes:

Identification numbers in () correspond to the diagram of the bypass in chapter 1.10.

- ☞ Screw the threaded part of the union fitting (60) (with sealing tape) into the corresponding connection for the compressed air inlet or outlet.
- ☞ Insert the flat gasket (70) and fit the bypass by screwing down and tightening the union nut of the fitting (60).
- ☞ Check the fittings for leakages.

See chapter 1.5 for the dimensions of the connector fittings.

6.3 Condensate Drain Connection

A hose connection is provided for drainage of the condensate. See chapter 1.5 for the dimensions.

Attention!

Use caution when attaching the condensation drain line to ensure that the condensate flow is not obstructed.



The condensate must be drained and collected in a suitable container. It must be disposed of in accordance with federal and local environmental codes.

6.4 Electrical Connection



The main power supply and overcurrent protection must be installed by a qualified electrician in accordance with NEC, OSHA and any applicable local codes.

For fuse and wire recommendations, see chapter 1.6.

The refrigerated dryer is delivered completely wired, ready for connection to the power supply. This connection must be made as detailed in the electrical diagram (see chapter 11.1). See the dimensional diagram (see chapter 1.9) for the position and size of the cable entry into the refrigerated dryer.

Attention!

Maximum dual element time–delay fuses are selected according to 1996 N.E.C. Article 240–6, 430–52 and Tables 430–148 & 150.

Select multi–strand copper core wire at 40 °C ambient temperature according to 1996 N.E.C. 110–14(c), 220–3, 310–15, Table 310–16, 430–6, 430–22 and Tables 430–148 & 150.

Wire temperature rating:

1.25 x FLA (see chapter 1.6)	wire temperature rating	correction factor for 40 °C
≤ 100A	60 °C	0.82
> 100A	75 °C	0.88

7 Preparation For Initial Start Up

7.1 Points to be Observed before Start Up

Every refrigerated dryer is tested in the factory and carefully checked before shipment. The test run confirms that the refrigerated dryer conforms to the manufacturer's specifications and operates as designed. However, independent of the checks made at the factory, the refrigerated dryer could be damaged during transport. For this reason, we recommend that the refrigerated dryer be examined for any damage. Inspect the refrigerated dryer carefully during the first hours of operation for any possible malfunction.

Attention!

The internal components of the refrigerated dryer are factory adjusted for correct operation. Adjustments may not be made to these components without prior written consultation with KAESER Compressors Inc.

7.2 Points to be Observed before Switching On:



NON-OBSERVANCE OF THESE OR OTHER REFERENCES (WARNING; ATTENTION) CAN LEAD TO ACCIDENTS CAUSING INJURY TO PERSONNEL OR DAMAGE TO EQUIPMENT.

It is forbidden to operate the refrigeration dryer with the panelling removed because of the danger of injury to personnel.

- ☞ Remove all packaging materials, tools and transport securing devices on and in the refrigerated dryer.
- It is expected that the user employs safe working techniques when operating the refrigeration dryer and that all valid operating and safety provisions are followed.
- The operator of this refrigerated dryer unit is responsible for its safe working condition.
- The air in the compressor space and the compressed air to be dried may not contain any acid-forming or other aggressive matter.
- Do not connect the refrigerated dryer to a supply voltage different to that shown on the nameplate.
- Install the refrigerated dryer in a space that is not subject to freezing conditions. See chapter 1.4 for the minimum ambient temperature.
- Wait for the refrigerated dryer to warm up to the ambient temperature before putting into operation.



Carry out the following work only when the power supply is removed from the refrigerated dryer:

Check all screws on the electrical connections for tightness and tighten if necessary (carry out this check again after 50 operating hours).

7.3 Ready for Operation

Attention! Do not start the refrigerated dryer until completing the following:

- The refrigerated dryer is installed according to the conditions stated in chapter 6.
- All electrical connections, air piping and condensate lines are correctly connected and properly tightened.
- The shut-off valves in the compressed air inlet and outlet lines are closed.
- The condensate drainage line is free of obstructions.
- The refrigerated dryer is supplied with the correct voltage supply.
- The by-pass in the compressed air line between input and output lines is closed.

Attention! Start the refrigerated dryer for approximately 15 minutes before opening the shut-off valves in the compressed air inlet and outlet lines.

8 Operation

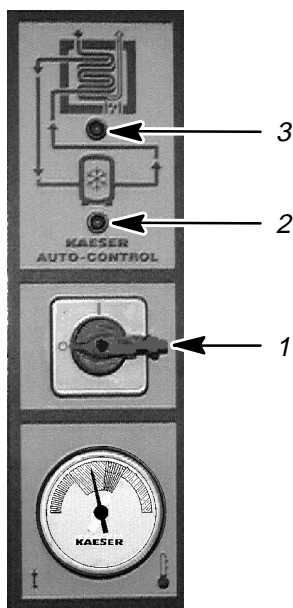
During operation of the refrigerated dryer, condensate is separated from the compressed air.



The condensate must be drained and collected in a suitable container. It must be disposed of according to Federal and local environmental codes.

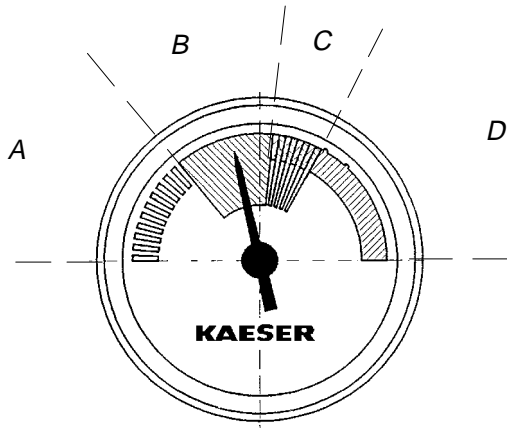
☞ Collect the accumulated condensate in a container and dispose of properly.

8.1 Instrument Panel



- 1 Main switch
- 2 "Refrigerant Compressor ON" indication
- 3 "Control Voltage ON" and thermal mass effective

Explanation of the colored segment scale of the pressure dew point indication:
(suction pressure gauge)



- **A**

Blue–white range (low suction pressure) results in too low a pressure dewpoint due to:

- Evaporator temperature too low (evaporator freeze–up)
- Dryer too large or very low air demand. Refer to chapter 1.4

- **B**

Green range (normal suction pressure) results in a normal pressure dew point.

- **C**

Green–red range (elevated suction pressure) results in increased pressure dew point to:

- High ambient temperature

- **D**

Red range (high suction pressure) results in too high a pressure dew point due to:

- Fault, see chapter 8.4.3 for help

8.2 Starting the Refrigerated Dryer

Attention!

Switch on the refrigerated dryer only if the conditions in chapter 7.3 “Ready for Operation” are fulfilled.

- ☞ Check the refrigerated dryer according to chapter 7.3.
- ☞ Remove the padlock provided for protection against “inadvertent switch–on” of switch (1).
- ☞ Rotate the switch (1) to “I” (ON).

The refrigeration dryer is now in operation, the control lamp (3) illuminates indicating power on.

Depending on the temperature in the air to refrigerant heat exchanger, the refrigerant compressor switches on after the refrigeration dryer is switched on. Simultaneously the control lamp (2) “Refrigerant Compressor ON” illuminates.



If the control lamp (2) does not extinguish after approximately 15 minutes then a fault is apparent (see chapter 8.4.3).

Attention!

Do not open the compressed air shut-off devices (inlet/outlet) until the control lamp (2) is extinguished.

- ☞ Open the shut-off valve of the compressed air inlet slowly (admission of the compressed air).
- ☞ Open the shut-off valve of the compressed air outlet slowly.

The compressed air system is now connected to the refrigerated dryer.

Attention!

Press RESET if the safety pressure switch has shut down the refrigerated dryer.



1 RESET

8.3 Stopping the Refrigerated Dryer

- ☞ Close the compressed air shut-off valves (inlet and outlet).

Attention!

The main switch (1) can be secured in the "0" position against inadvertent switch-on by a small padlock.

- ☞ Turn switch (1) to "0" (OFF).

The refrigerated dryer is switched off and the control lamp is off.

8.4 Trouble shooting



The local safety regulations (see chapter 2) and the regulations detailed in the "Safety" chapter must be complied with during trouble-shooting.

See chapter 7.3 and chapter 8.2. when starting the refrigerated dryer after the malfunction has been corrected.

8.4.1 Water in the compressed air system

Possible cause:

Moisture deposits in the compressed air pipe work that were formed before the dryer was started.

Bypass opened.

Compressed air inlet and outlet swapped.

The condensate is not drained out of the system.

Remedy:

Blow out the compressed air pipe work with dry air until no more moisture condenses.

Close the bypass.

Check the compressed air connections using the dimensional diagram.

Check the ECO-DRAIN (see chapter 9.2.4); Contact the authorized KAESER distributor.

8.4.2 High pressure losses via the refrigerated dryer

Possible cause:

Refrigerated dryer iced up on the air side.

Remedy:

Switch off the dryer until the air system has thawed. If the system ices up again after starting again, refer to authorized KAESER distributor.

8.4.3 Pressure dew point too high

Possible fault:

Ambient temperature too high.

Compressed air inlet temperature is too high.

Flow volume too high.

Low refrigerant.

Defective refrigerant compressor.

Defective condenser fan motor.

High contamination component in the compressed air causing scale in the compressed air system.

Condenser surface (refrigerant liquefier) contaminated.

Remedy:

Check the technical data, see chapter 1.2.

Check the technical data, see chapter 1.2.

Check the technical data, see chapter 1.2.

Refer to authorized KAESER distributor.

Refer to authorized KAESER distributor.

Refer to authorized KAESER distributor.

Clean the compressed air system.

See maintenance instructions chapter 9.2.2.

8.4.4 High compressed air losses**Possible fault:**

Constant loss of pressure via the condensate drain.

Remedy:

Clean the ECO–DRAIN (see chapter 9.2.5).

8.4.5 Red LED on the ECO–DRAIN housing flashes**Possible cause:**

Condensate not draining.

Remedy:

Check the ECO–DRAIN (see chapter 9.2.4); contact authorized KAESER distributor.

8.4.6 The safety pressure switch shuts down the refrigerated dryer**Possible fault:**

Ambient temperature too high.

Remedy:

Check the technical data, see chapter 1.2.

Condenser surface (refrigerant liquefier) contaminated.

See maintenance instructions chapter 9.2.2.

Defective condenser fan motor.

Refer to authorized KAESER distributor.

9 Maintenance

9.1 Maintenance Instructions:



Before starting work, follow the procedure below to ensure the unit is not started or energized while maintenance work is being performed:

Work on the electrical equipment of the refrigerated dryer may only be carried out by a qualified electrician or trained personnel under the supervision of a qualified electrician according to local codes.

Lock the main disconnect in the "off" position in accordance with applicable lock out/tag out procedures (example: OSHA CFR 29 § 1910.147) to ensure the dryer does not restart.

Before starting work, carry out the following procedure to prevent inadvertent application of power to the refrigerated dryer:

- ☞ turn switch (1) to " 0 ".
- ☞ lock out the switch (1) using a suitable padlock.

Before restarting the refrigerated dryer, ensure that:

- no maintenance personnel are working on the refrigerated dryer.
- all tools are removed from the refrigerated dryer.
- all guard and cover panels are properly installed and secured.

See chapter 7.3 and 8.2 for starting the refrigeration.

9.2 Regular Maintenance

Period	Work to be done	see chapter
Daily	Check the condensate outlet	9.2.3
50 hours after initial start	Clean the ECO–DRAIN	9.2.5
Every month	Check ECO–DRAIN for proper operation	9.2.4
	Clean the surface of the condenser	9.2.2
If necessary	Clean the ECO–DRAIN diaphragm valve	9.2.5
Every three month	General checks	9.2.1
Every year	Clean the ECO–DRAIN	9.2.5

The maintenance periods are recommended periods and may need to be adjusted based on installation and service conditions.

9.2.1 General checks

- ☞ Inspect the electrical components of the refrigerated dryer every two to three months. Correct any malfunctioning or worn components, such as loose connections or over-heated cable immediately!



Escaping compressed air and/or refrigerant can cause injury to personnel and lead to damage to the dryer.

- ☞ Check all pipework, hoses and screwed fittings for leakage every two to three months and carry out a visual check for any external damage. Correct any faults immediately!



The refrigerant contained in the refrigerating system may not be vented to the open air. Always use a refrigerant recovery system when working on the refrigerant circulation. Dispose of unusable refrigerant according to environmental regulations!

9.2.2 Cleaning the condenser

Clean the condenser every month.

- ☞ Stop the refrigerated dryer by turning the switch (1) to the “off” position.
- ☞ Lock the switch (1) with a suitable padlock to prevent unauthorized switch-on.
- ☞ Clean the cooling fins of the refrigerant liquefier by blowing compressed air from the outside to the inside.

See chapter 8.2 to start the refrigerated dryer.

9.2.3 Check the condensate outlet daily as follows:

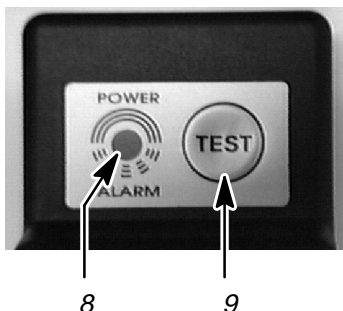
Attention!

If neither condensate nor compressed air exits, clean the ECO-DRAIN. (See chapter 9.2.5)

- ☞ Verify that condensate exits from the hose of the condensate drain outlet when the drain opens (the LED extinguishes for a short period).

9.2.4 Check ECO-DRAIN for proper operation monthly, as follows:

Check the function of the condensate drain by pressing the TEST pushbutton on the upper housing of the ECO-DRAIN. The solenoid valve of the ECO-DRAIN opens when the TEST pushbutton is pressed.



8 Operational status – light emitting diode

9 TEST pushbutton (condensate drain)

- ☞ Unscrew the two screws holding the left-hand side cover and remove the cover.
- ☞ Press the TEST pushbutton on the ECO-DRAIN housing.

Press the test pushbutton for at least 1 second. The valve will open every 2 to 3 seconds. The LED will flash to indicate the valve's opening and closing. Note that all accumulated condensate should drain.

Condensate does not drain:

- Outlet hose of the ECO-DRAIN is blocked.
If necessary, clean or replace the outlet drain hose.
 - Diaphragm valve is clogged.
See chapter 9.2.5.
 - Solenoid coil is defective.
Contact authorized KAESER distributor.
- ☞ Screw on the left-hand side panel.

9.2.5 Cleaning the ECO-DRAIN

Clean the condensate drain monthly, or more frequently depending on the degree of contamination of the compressed air.

It is recommended that the ECO-DRAIN is cleaned after the first 50 hours of service.

Maintenance work on the ECO-DRAIN is only possible with the ECO-DRAIN removed.

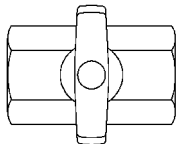
Initial work:

- ☞ Stop the refrigerated dryer by turning the switch (1) to the "off" position.
- ☞ Lock the switch (1) with a suitable padlock to prevent unauthorized switch-on.
- ☞ Unscrew the two screws holding the left-hand side cover and remove the cover.

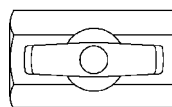


Before removing up the ECO-DRAIN it must be shut off from the compressed air.

- ☞ Close the shut-off valve in the air line to the ECO-DRAIN.



*Shut-off valve
closed*



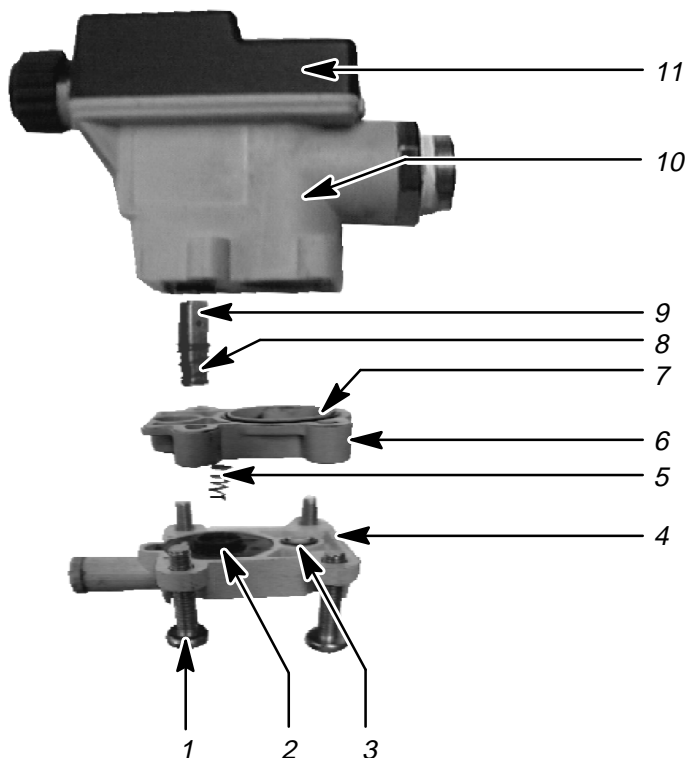
*Shut-off valve
opened*

Removing the ECO-DRAIN:

- ☞ Depressurize the ECO-DRAIN by pressing the TEST pushbutton.
- ☞ Unscrew the screw fittings between the shut-off valve and the ECO-DRAIN.
- ☞ Take out the ECO-DRAIN.

Attention!

The ECO-DRAIN is still connected to the power supply cable.



- | | |
|-------------------------------|----------------------------------|
| 1 Cross-head screws, M5 x 2.5 | 7 O Ring, 28 x 1.5 |
| 2 Diaphragm | 8 Thrust spring for valve piston |
| 3 O Ring, 6 x 1.5 | 9 Valve piston |
| 4 Diaphragm seat | 10 Housing |
| 5 Thrust spring for diaphragm | 11 Top cover |
| 6 Diaphragm cover | |

Items in () refer to items detailed in the previous figures.

Removal of the ECO-DRAIN:

Attention!

Watch for loose parts fitted into each other that could easily be lost when disassembling the ECO-DRAIN. Note the final positions of the individual parts.

- ☞ Unscrew the four cross-head screws (1) on the diaphragm seat (4) and remove carefully with the diaphragm cover (6) from the housing (10). Watch for loose parts, such as the pressure springs (5) and (8), diaphragm (2) and the O rings (3) and (7)!

Cleaning:

- ☞ Remove the thrust spring (5), diaphragm (2) and valve piston (9) with its thrust spring (8) and clean them.



Do not direct compressed air toward any person at any time. Compressed air is contained energy and as such, is dangerous to life.

Wear protective goggles when blowing out components.

- ☞ Blow out the diaphragm seat (4), diaphragm cover (6), and the housing inside with compressed air.

Reassembly of the ECO–DRAIN:**Attention!**

It is recommended that parts subject to wear, such as the diaphragm, valve piston and O rings are renewed for reasons of safety and reliability.

- ☞ Check the diaphragm (2), the existence and correct seating of the O rings (3) and (7) on the diaphragm seat (4) and diaphragm cover (6). Renew defective parts.
- ☞ Check the valve piston (9) for signs of wear and renew, if necessary.
- ☞ Check the existence and correct seating of the thrust spring (8) for the valve piston (9).
- ☞ Insert the valve piston (9) into the guide hole in the housing.
- ☞ Place the thrust spring (5) over the nipple on the diaphragm cover (6). Check that the thrust spring (5) sits correctly.
- ☞ Fit and position the diaphragm cover (6) over the valve piston (9) in the housing.
- ☞ Fit the diaphragm (2) into the opening in the diaphragm seat (4).
- ☞ Fit the diaphragm seat (4) to the diaphragm cover (6). Check that the thrust spring (5) is positioned in the recess provided in the diaphragm (2). Insert the four cross–head screws (1) through the holes provided in the vertically assembled diaphragm seat, diaphragm cover and housing and screw the components together tightly.

Final work:

- ☞ Fit the ECO–DRAIN back into the refrigeration dryer with the screw fittings.
- ☞ Open the shut–off valve (in the compressed air line to the ECO–DRAIN).
- ☞ Carry out a functional check of the ECO–DRAIN (see chapter 9.2.4).
- ☞ Screw on the left–hand side panel.

See chapter 8.2 to start the refrigerated dryer.

10 Spare Parts and After Sales Service

Provide the following details for all queries and spare parts orders:
(see also the name plate)

Refrigerated dryer, model:

Serial number:

Part name:

Part order number:

Always provide the date of initial start up when making claims under warranty!

Name plate:

	Typ./Model./Type/Tipo/ Modelo/Type
	Artikel-Nr./Part-No./ Référéncja/Codice/ Artículo-N.º / Artikel-Nr.
	Baujahr/Year/Année de fabrication/Anno/Año de construcción/Bouwjaar
	Serien-Nr./Serial No./ No. de série/N. di Matricola/ Nº de Matricula/Serienr.
Kältesystem/Refrigerant system/Système frigorifique/ Circuito refrigerante/Circuito frigorífico/Koelstelsysteem	Kältemittel/Refrigerant/Système frigori- lique/Agente refrigerante/ Agente frigorífico/Koelmiddel
	Füllgewicht/Charge/Charge/ Carga/Peso de relleno/ Vulgewicht lb.
	Betriebsdruck HD/Working pressure HP/ Pression de fonctionnement HP/Pressione AP/ Presión de trabajo AP/Bedrijfsdruk HD psig
Luftsysteem/Air system/ Système d'air/Circuito aria/ Circuito de aire/Luftsysteem	Betriebsdruck/Working pressure/Pression de fonctionnement/Pressione di esercizio/ Presión de trabajo/Bedrijfsdruk psig
E-Anschluss/Electrical supply/ Alimentation électrique/ Alimentazione elettrica/ Alimentación eléctrica/ Elektrische aansluiting	Nennspannung/Rated voltage/Tension nominale/tensione nominale/ Tensión nominal/Nominale spanning V <input type="checkbox"/> 1ph <input type="checkbox"/> 3ph
	Frequenz/Frequency/ Fréquence/Frequenza/ Frecuencia/Frequentie Hz
	Nennstrom/Rated current/Courant nominal/Corrente nominale/Corriente nominal/Nominale stroom A
Umgebungstemperatur/Ambient temperature/ Température ambiante/Temperatur ambiente/Tem- peratura ambiente/Omgevingstemperatuur min. 40 °F / max. 110 °F	
Dichtheit geprüft/Leakproof/Etanchéité testée/Ermetico/Hermético/Dichtheid getest <input type="checkbox"/>	

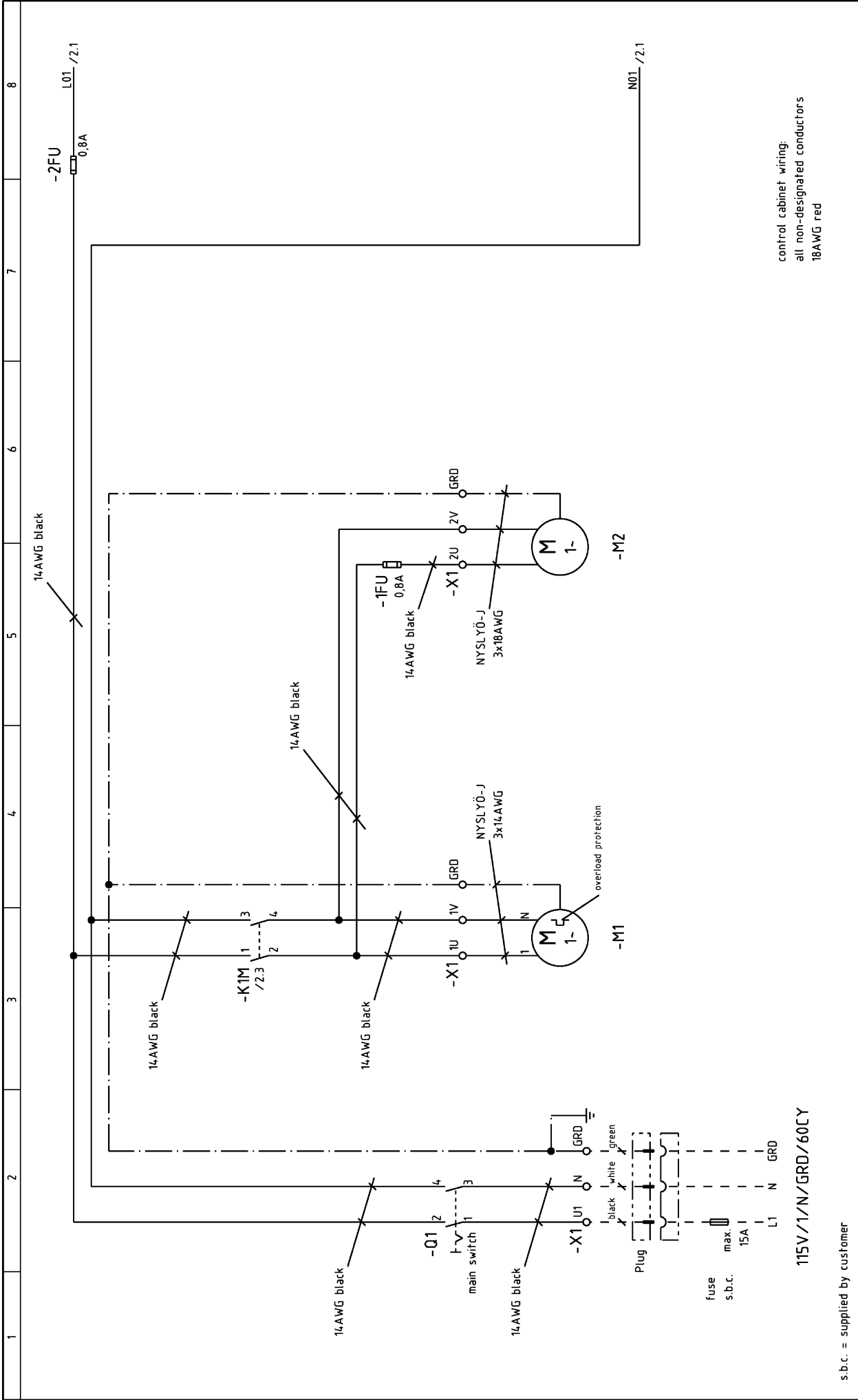
11 Appendix

11.1 Wiring Diagram

1	2	3	4	5	6	7	8
<p>Wiring Diagram</p> <p>air dryer TA5, TA8, TA11</p> <p>115V 60CY</p>							
<p>manufacturer: Kaeser Kompressoren GmbH</p> <p>Postfach 2143</p> <p>96410 Coburg</p>							
<p>The drawings remain our exclusive property. They are entrusted only for the agreed purpose. Copies or any other reproductions, including storage, treatment and dissemination by use of electronic systems must not be made for any other than the agreed purpose. Neither originals nor reproductions must be forwarded or otherwise made accessible to third parties.</p>							
c			Datum	03.04.2001	USE		
b			Bearb.	Sitter			
a	Terminal strip	14.09.01	Zeeh	Gepr.	Egner		
A	Änderung	Datum	Name	Norm	Ersatz durch:	Ersatz für:	
			KAESE		cover page	=	
			KOMPRESSOREN		air dryer TA5, TA8, TA11	+	
			Ursprung:				Blatt 1
							Bl.
							DTA-U0900.00

Lfd. Nr. No.	Benennung Name	Zeichnungsnummer (Kunde) Drawing No. (customer)	Zeichnungsnummer (Hersteller) Drawing No. (manufacturer)	Blatt Page	Anlagenkennzeichen Unit designation
1	cover page		DTA-U0900.00	1	
2	list of contents		ZTA-U0900.00	1	
3	wiring diagram	power unit	STA-U0900.00	1	
4	wiring diagram	control unit	STA-U0900.00	2	
5	component legend		STA-U0900.00	3	
6	electrical component parts list	controller	GTA-U0900.00	1	
7	terminal connection	terminal strip -X1	KTA-U0900.00	1	
8	lay-out	control panel	ATA-U0900.00	1	

c	Datum	04.04.2001	list of contents		=
b	Bearb.	Sittler	air dryer TA5, TA8, TA11		*
a	Gepr.	Legner		ZTA-U0900.00	
B	Änderung	Name	Ersatz durch:	Ersatz für:	Blatt 1
	Datum				Bl.



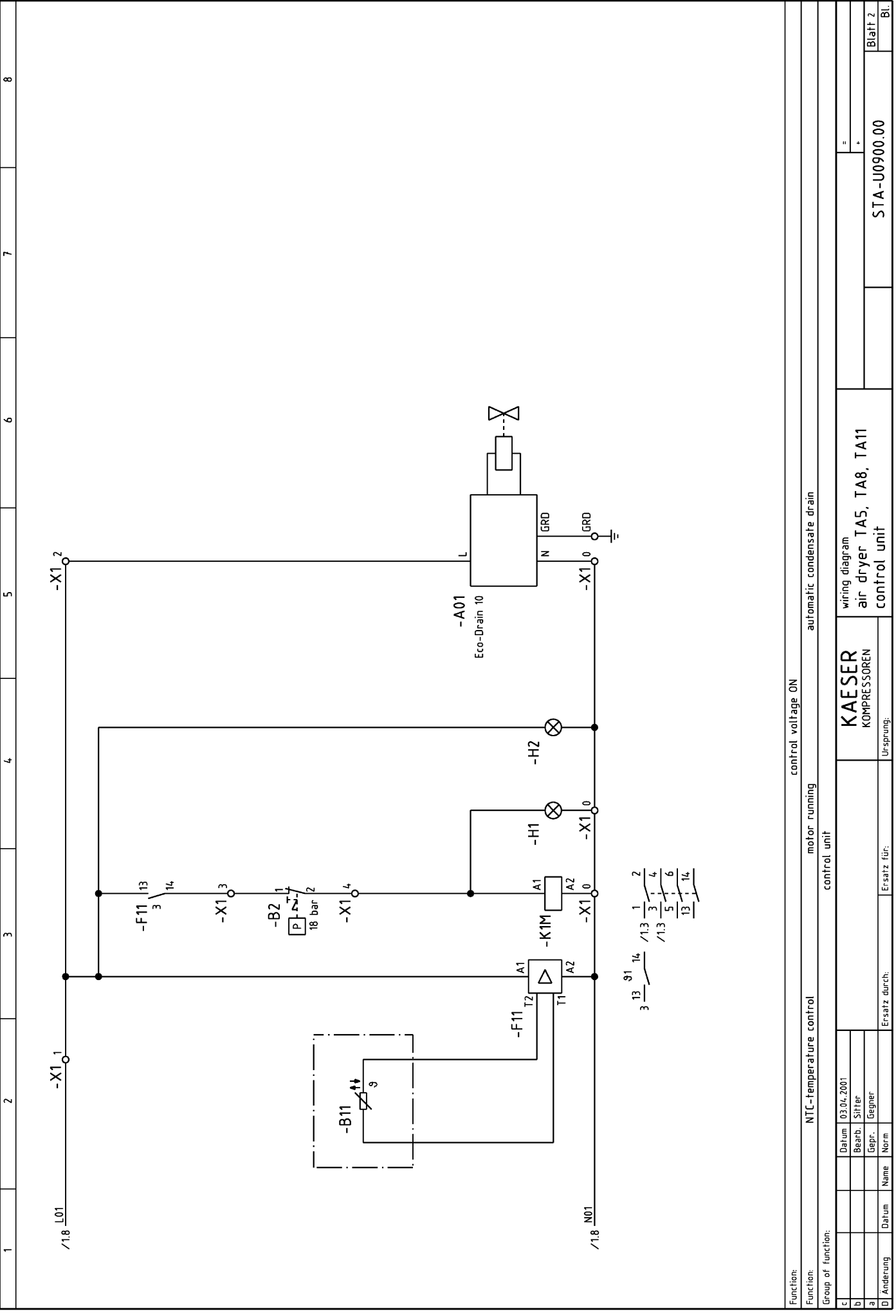
control cabinet wiring:
all non-designated conductors
18AWG red

s.b.c. = supplied by customer

Function:		vent motor		115V/1-/60CY	
Group of function:		compressor motor		control voltage tapping	
c		Input voltage		=	
b		Datum	03.04.2001	+	
a		Bearb.	Silber		
d		Gepr.	Egner		
D	Änderung	Name		Ursprung:	STA-U0900.00
	Datum		Ersatz durch:		Blatt 1
					Bl.

wiring diagram
air dryer TA5, TA8, TA11
power unit

KAESER
KOMPRESSOREN



Function:		control voltage ON	
Function:		automatic condensate drain	
Group of function:		motor running	
Group of function:		control unit	
c	Datum	03.04.2001	KAESEKOMPRESSOREN
b	Bearb.	Silber	
a	Gepr.	Egner	wiring diagram air dryer TA5, TA8, TA11 control unit
D	Änderung	Datum	
Ersatz durch:			Blatt 2
Ersatz für:			Bl.

1	2	3	4	5	6	7	8	
<p>-A01 automatic condensate drain</p> <p>-B2 safety air pressure switch</p> <p>-B11 NTC-temperature probe</p> <p>-1FU fuse vent motor</p> <p>-2FU control fuse</p> <p>-F11 NTC-thermostat</p> <p>-H1,-H2 LED indicator</p> <p>-K1M motor starter</p> <p>-M1 compressor motor with overload protection</p> <p>-M2 vent motor</p> <p>-Q1 main switch</p> <p>-X1 terminal strip</p>								
c	Datum	03.04.2001						=
b	Bearb.	Sittler						*
a	Geprf.	Gegner						
E	Änderung	Datum	Name	Ersatz durch:		Ursprung:		
			KAESE		component legend			
			KOMPRESSOREN		air dryer TA5, TA8, TA11			
					STA-U0900.00		Blatt 3	
							Bl.	

1	2	3	4	5	6	7	8									
A Stückzahl Qty.	B Benennung und Verwendung Description and function		C Fabrikatsbezeichnung Type, Bestell-Nr.; Serien-Nr.; Normalsbezeichnung normale Techn. Daten, z.B. Steuerspannung, Frequenz, Einstellbereich Identification data Type, order No.; document No.; equipment code No.; basic technical data		D Lfd. Nr. Item	E Betriebsmittel-Kennz. nach DIN 40719, Teil 2 Identifying symbol of device	F Stromlaufplan Planabschnitt Circuit diagram sheet No.; section No.	G Einbauort Location	Concerns only the manufacturer							
									Wst.-Nr. H	Schabl. Nr.	BZ- Pos.	I J VA Kz. *	K Eingangs- vermerk			
1	controller		7.4696.3	CKC												
1	control panel		200x250x2.5	2014.4.1.20010	CKC											
1	motor starter		A9-30-10-89	115V 50/60CY	ABB	-K1M										
2	fuse terminal		WK4/THS15...U	7.0705.00010	Wieland	-1FU,-2FU										
2	fuse		5x20	0.8A	Siba	-1FU,-2FU										
1	NTC-thermostat		TRN 11IK-2-8	115V 50/60CY	Ziehl	-F11										
1	terminal strip			7.3165.10070	Wago	-X1										
	operating panel:															
1	Emergency Stop/main switch		KG20A	2-pole	Solenoid	-01										
2	LED indicator		19511331	green	EBT	-H1,-H2										

Bei Nachbestellung von Geräten und Maschinen sind alle in den stark umrandeten Spalten B und C angegebenen Daten anzuführen. Die Daten in den Spalten D bis G sind zusätzlich unter Nennung dieser Geräteschilder-Nummer anzugeben, soweit sie die Beantwortung technischer Rückfragen erleichtern. Für Ersatzteilbestellung ist zusätzlich die Angabe der Fabriknummer erforderlich, falls diese auf dem Typenschild des Erzeugnisses genannt ist.

In Zweifelsfällen gilt die deutsche Fassung.

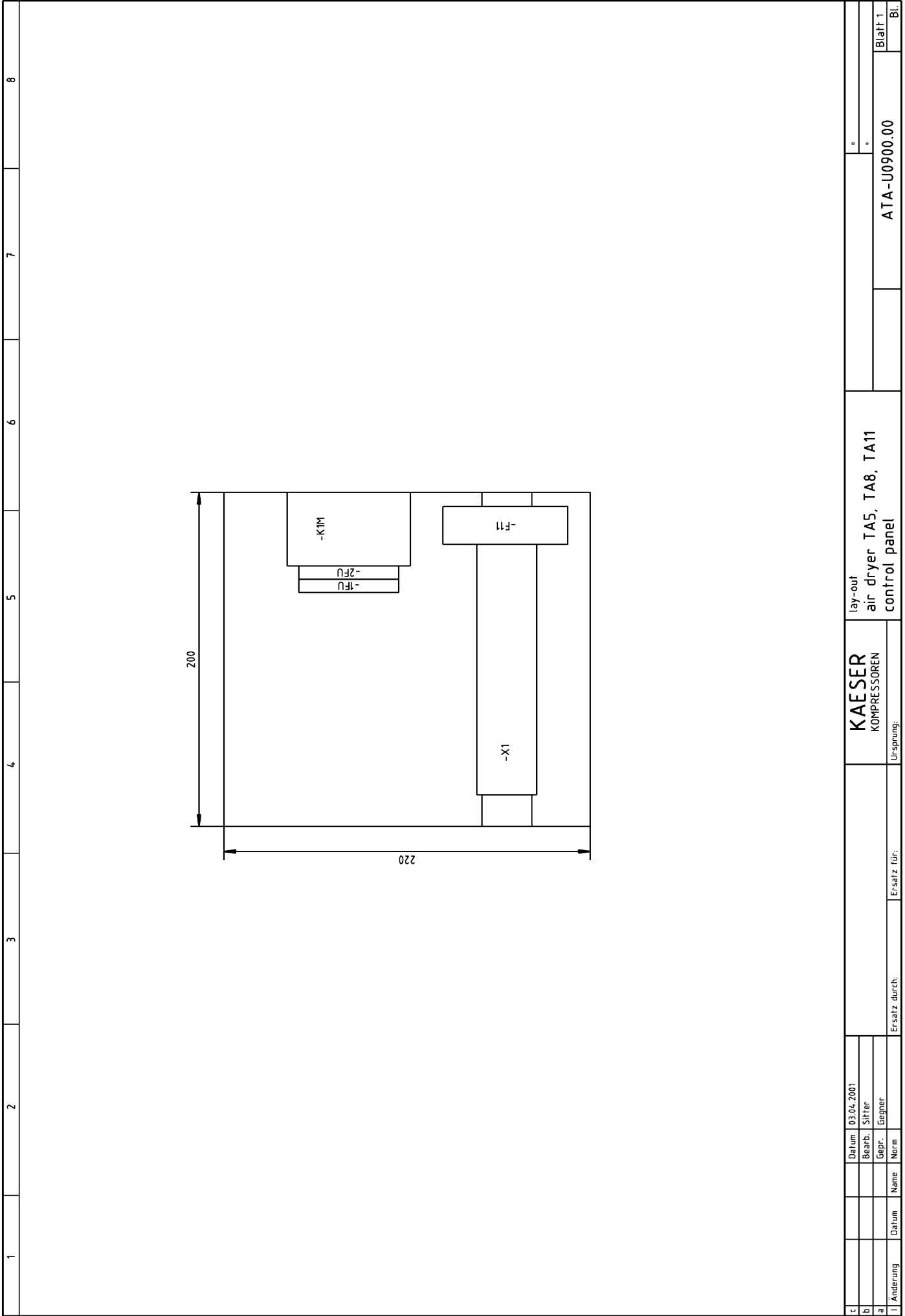
When reordering the equipment, all data enclosed by the heavy lines of columns B and C should be stated. In addition, the data in columns D to G should be given together with the No. of this list of equipment, insofar as they are helpful in answering technical enquiries. When ordering spare parts, also quote the serial No. of the product if stated on the rating plate.

The German version applies in cases of doubt.

c	Datum	03.04.2001
b	Bearb.	Silber
a	14.09.01	Zeeh Gepr.
F	Datum	Name Norm
		Ersatz durch:
KAESER KOMPRESSOREN		
electrical component parts list air dryer TA5, TA8, TA11 controller		
		=
		*
		GTA-U0900.00
		Blatt 1
		Bl.

cable-no.	destination	terminal strip			connection	name of device	terminal strip: -X1		
		inside	terminal strip	total 17 terminals					
connection	name of device	location	jumper wire	terminal legend	link	terminal-no.	connection	name of device	
-01	controller	/1.2		GRD		U1	-supply		
-01	control panel	/1.4		GRD		M1	-supply		
-K1M		/1.3				M1			
-FU		/1.5				M2			
-K1M		/1.3				M1			
ZV		/1.6				M2			
GRD		/1.6				M2			
GRD		/1.6				M2			
-FU		/1.5				M2			
-K1M		/1.3				M1			
N		/1.3				M1			
ZV		/1.6				M2			
GRD		/1.6				M2			
13		/2.2				A01			
L		/2.5				A01			
2		/2.5				A01			
1		/2.2				A01			
3		/2.3				B2			
14		/2.3				B2			
4		/2.3				B2			
N		/2.5				A01			
A2		/2.3				F11			
0		/2.4				F11			
GRD		/2.5				A01			

terminal connection	air dryer TA5, TA8, TA11	terminal strip -X1
BL		
WH		
EN		
SJT 3x14AWG		
W2 NYSLYO 2x18AWG		
W34 NYSLYO-J 3x18AWG		
W40 NYSLYO-J 3x14AWG		
W42 NYSLYO-J 3x18AWG		



1	2	3	4	5	6	7	8
---	---	---	---	---	---	---	---

c	Datum	03.04.2001	Ersatz durch:	Ersatz für:	KAESE KOMPRESSOREN	lay-out air dryer TA5, TA8, TA11 control panel	ATA-U0900.00	=
	Bearb.	Sittler						
a	Gepr.	Gegner	Blatt 1					
l	Änderung	Datum	Name	Norm	Bl.			

Ersatzteilliste

Kältetrockner Typ TA

Spare parts list

Refrigeration dryer series TA

Liste de pièces de rechange

Sécheur frigorifique Type TA

Lista de las piezas de recambio

Secador frigorífico modelo TA

Lista parti di ricambio

Essiccatore a ciclo frigorifero serie TA

Reservedelsliste

Kjøletørke type TA

Перечень запасных частей

Холодосушителем типа TA

スเปーパーパーツリスト

冷凍式ドライヤーモデル TA

Typ
Model
Type
Modelo
Modello
Тип
モデル

KAESER
<http://www.kaeser.com>
Dok.Nr. SEL-1065_01D

Materialnummer
Part number
Référence
Número material
Codice
Номер материала
部品番号

Serialnummer
Serial number
No. de série
Número de serie
Número di serie
Серийный номер
シリアルナンバー

ACHTUNG !

Bitte geben Sie bei der Ersatzteilbestellung Material- und Serialnummer der Anlage sowie Positionsnummer und Bezeichnung der Ersatzteile an.

ATTENTION !

Please quote the part number and serial number of the package together with the item number and the description of the part when ordering.

ATTENTION !

Indiquer sur chaque commande de pièces de rechange la référence et le No. de série de l'appareil, de même que le No. du repère et la désignation de la pièce de rechange.

¡ ATENCION !

Cuando pidan piezas de recambio les rogamos nos indiquen el número de material y de la serie, así como el número de la posición y la designación de las piezas de recambio.

ATTENZIONE !

Nell'ordinazione si prega di indicare il codice, il numero di serie, il numero di posizione e la descrizione del pezzo di ricambio.

OBS!

Ved reservedelsbestillinger må det opplyses om anleggets artikkel- og serienummer, i tillegg til posisjonsnummer og reservedels betegneise.

ВНИМАНИЕ !

При заказе запасных частей указывайте номер изделия и серийный номер установки так и номер позиции и наименование запасных частей.

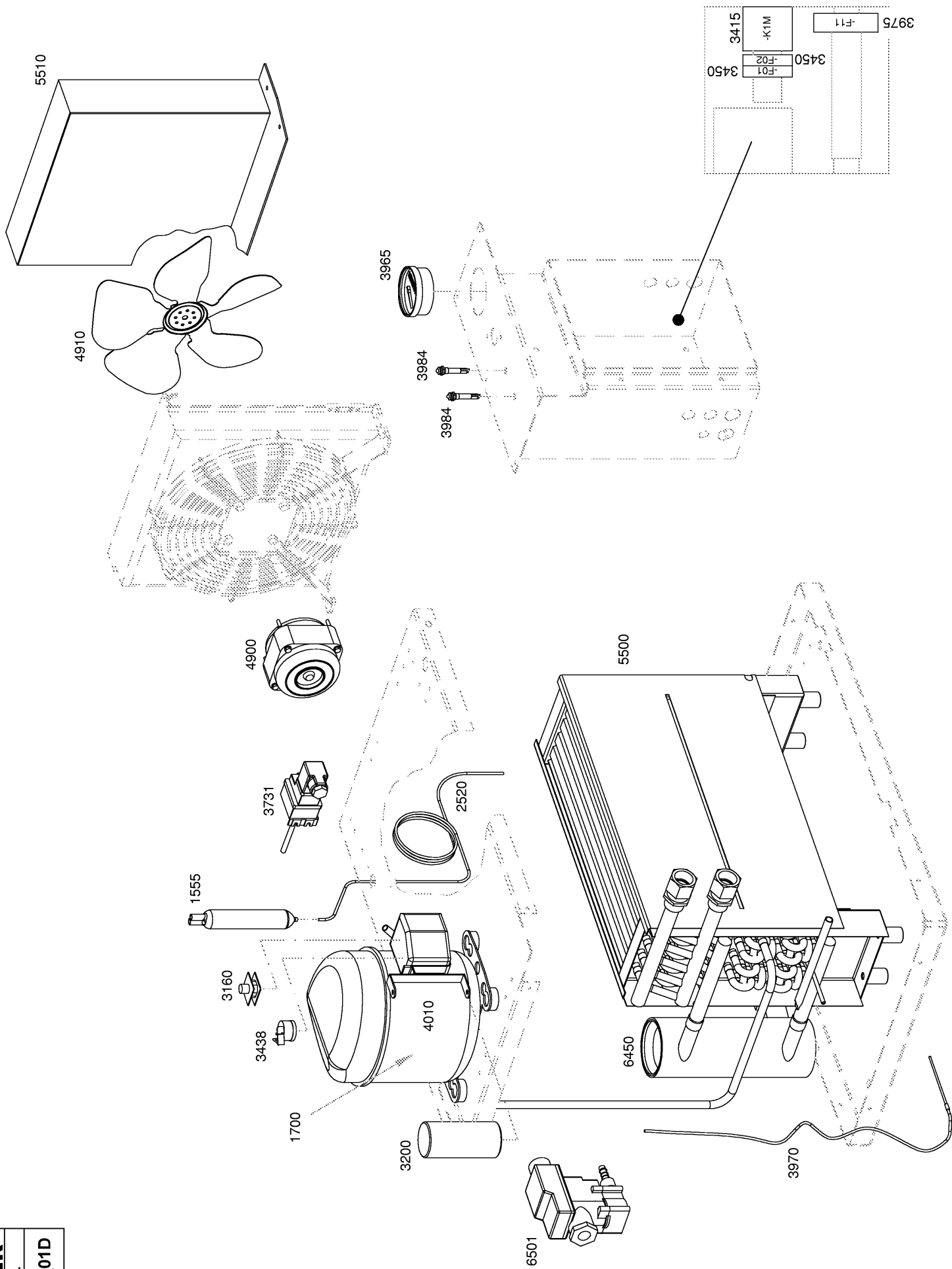
注意！

後注文時には、図の NO. と部品名、コンプレッサの製品番号とシリアルナンバーを併記して下さい。

KAESER

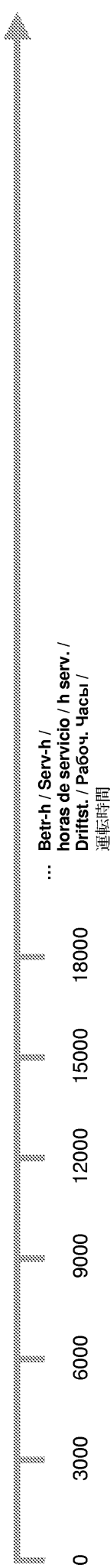
Dok.Nr.

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Nr./No.	Stck/Qty	Bezeichnung	Description	Désignation	Designación
1555	1	Filtertrockner	Filter dryer	Filter sécheur	Filtro secador
1700	1	Kältemittel	Refrigerant	Fluide frigorigène	Fluido refrigerante
2520	1	Kapillarrohr	Capillary tube	Tube capillaire	Tubo capilar
3160	1	Anlaufrelais	Starting relay	Relais de démarrage	Rele arranque
3200	1	Anlaufkondensator	Starting capacitor	Condensateur démarrage	Condensador de arranque
3415	1	Schutz (-K8M)	Contacteur (-K8M)	Contacteur (-K8M)	Contacteur (-K8M)
3438	1	Überlastschuttschalter	Overload protection switch	Protection contre surcharge	Protección sobrecarga
3450	2	Sicherung	Fuse	Fusible	Fusible
3731	1	Sicherheitsdruckschalter	Safety pressure switch	Pressostat de sécurité	Pressostato de seguridad
3965	1	Fernthermometer	Remote thermometer	Téléthermomètre	Control remoto temperatura
3970	1	Temperaturfühler	Temperature sensor	Sonde de température	Sensor de temperatura
3975	1	Temperaturregler	Thermostat switch	Réglateur	Regulador de temperatura
3984	1	LED-Anzeige	LED indicator	Affichage LED	Aviso LED
4010	1	Kältekompressor	Refrigerant compressor	Compresseur frigorifique	Compresor del refrigerante
4900	1	Lüftermotor	Fan motor	Moteur ventilé	Motor de ventilador
4910	1	Lüfterflügel	Fan impeller	Ailette de ventilateur	Paleta del ventilador
5500	1	Wärmetauscher kpl.	Heat exchanger cpl.	Échangeur chaleur cpl.	Intercambiador de calor de placas cpl.
5510	1	Kältemittelverflüssiger kpl.	Refrigerant liquefier cpl.	Condenseur de frigorigène cpl.	Fluidificador del agente frigorífico cpl.
6450	1	Abscheidebehälter	Separator tank	Réservoir séparateur	Separador de depósito
6501	1	Kondensatableiter	Condensate drain	Purgeur de condensat	Purgador de condensatos
9601	1	Verschleißteilsatz	Wearing part set	Kit pièces d'usure	Kit de desgaste
9603	1	Dichtungssatz	Seal set	Jeu de joints	Juego de juntas
9605	1	Membrane kpl.	Diaphragm cpl.	Diaphragme cpl.	Diáfragma cpl.

Nr./No.	Stck/Qty	Descrizione	Betegnelse	Наименование	部 品 名
1555	1	Filtro essiccatore	Filterørke	Фильтровальный сушитель	Фильтер-драйер
1700	1	Fluido frigorigeno	Kjølemiddel	Хладагент	冷媒
2520	1	Capillare	Kapillarrør	Капиллярная трубка	キャピラリー チューブ
3160	1	Relè di avviamento	Startrelè	Пусковое реле	起動用リレー
3200	1	Condensatore di avviamento	Startkondensator	Пусковой конденсатор	起動用コンデンサー
3415	1	Teleruttore (-K8M)	Kontaktør (-K8M)	Контактор (-K8M)	電磁接点器 (-K8M)
3438	1	Interruttore di protezione da sovraccarico	Overlastvembryter	Защитный выключатель перегрузки	過負荷保護スイッチ
3450	2	Fusibile	Sikring	Предохранитель	ヒューズ
3731	1	Pressostato di sicurezza alta pressione	Sikkerhetsstrykkbryter	Предохранительн. манометрический выключатель	安全圧カススイッチ
3965	1	Termometro a distanza	Fjerntermometer	Дистанционный термометр	遠隔温度計
3970	1	Sensore di temperatura	Temperaturføler	Сенсор температуры	温度センサー
3975	1	Regolatore di temperatura	Temperaturregulator	Регулятор температуры	サーモスタットスイッチ
3984	1	Display a LED	LED-anvisning	Светоиндикация	LED 表示計
4010	1	Compressore del refrigerante	Kjølekompressor	Холодильный компрессор	冷媒コンプレッサー
4900	1	Motore ventola	Viftemotor	Двигатель вентилятора	ファンモーター
4910	1	Pala della ventola	Vifteblad	Лопасть вентилятора	ファンインペラー
5500	1	Scambiatore di calore compl.	Varmeveksler kpl.	Теплообменник в сборе	熱交換器
5510	1	Condensatore del refrigerante completo	Kjølemiddel fordampner kpl.	Холодильный конденсатор в сборе	冷媒用液化装置
6450	1	Recipiente separatore	Sep.tank	Сборник	セパレータータンク
6501	1	Scaricatore di condensa	Kondensatavleder	Конденсатотводчик	凝縮水排出装置
9601	1	Set parti soggette a usura	Slitedelssett	Комплект быстроизнашивающихся деталей	消耗部品セット
9603	1	Set di guarnizioni	Pakningssett	Комплект уплотнений	シール、セット
9605	1	Membrana compl.	Membran kpl.	Мембрана в сборе	ダイヤフラム



...
Wartungspaket / Maintenance package /
Package d'entretien / Paquete de mantenimiento /
Kit di manutenzione / Vedlikeholdsprakke /
Комплект быстроизнашивающихся деталей / Менテナンスキット

A	
Nr. / No.	Stück / Qty.
9603	1
9605	1

B	
Nr. / No.	Stück / Qty.
9601	1

Wartungspaket / Maintenance package
 Package d'entretien / Paquete de mantenimiento
 Kit di manutenzione / Vedlikeholdsprakke
 Комплект быстроизнашивающихся деталей / Менテナンスキット

Wartungspaket / Maintenance package
 Package d'entretien / Paquete de mantenimiento
 Kit di manutenzione / Vedlikeholdsprakke
 Комплект быстроизнашивающихся деталей / Менテナンスキット

DE	Wartungspakete Kältetrockner Typ TA
EN	Maintenance packages refrigeration dryer series TA
FR	Packages d'entretien sécheur frigorifique Type TA
ES	Paquetes de mantenimiento secador frigorífico modelo TA
IT	Kit di manutenzione per il essiccatore a ciclo frigorifero modello TA
NO	Vedlikeholdsprakke kjøletørke type TA
RU	Комплект быстроизнашивающихся деталей для холодосушителем типа TA
JA	メンテナンスキット 冷凍式ドライヤーモデル TA シリーズ
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Vor und bei Ausführung aller Arbeiten sind die Sicherheits- und Servicehinweise in der Betriebsanleitung der Maschine zu beachten!
 Before and during all work, be sure to read and follow the safety and service instructions contained in the machine Service Manual!
 Avant et lors de l'exécution de travaux, il est impératif de respecter les consignes de sécurité et de maintenance décrites dans la notice d'utilisation de la machine.
 ¡Se ruega observar las indicaciones de seguridad y mantenimiento en las instrucciones de servicio de la máquina antes de efectuar cualquier trabajo y durante el mismo!
 Prima e durante ogni lavoro si raccomanda di osservare tutte le norme di sicurezza e le istruzioni di manutenzione contenute nel manuale di servizio della macchina!
 Både før og efter gjenmontering av vedlikeholdsarbeid, må maskinens sikkerhets- og service-anvisninger følges nøye (finnes i driftsinstruksen)!
 Перед и во время всех работ должны соблюдаться указания по безопасности и сервису в Инструкции по эксплуатации!
 すべてのメンテナンス作業中・前には、機械のサービスマニュアルの安全規則を守り、メンテナンスの注意事項に注意して下さい。