

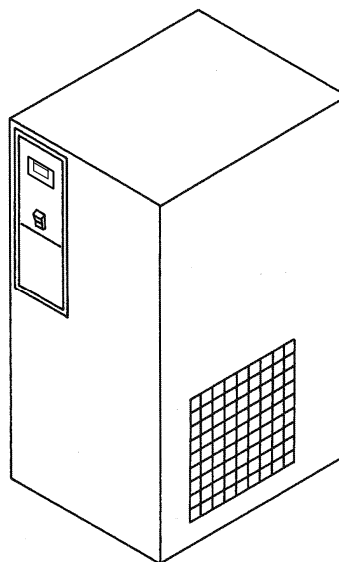
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9828093584-G-ST00
Edit. 11/2021



INSTRUCTION AND MAINTENANCE MANUAL

DRYERS

85N - 105N - 125N - 150N - 185N - 230N - 250N



READ THIS MANUAL CAREFULLY BEFORE CARRYING OUT ANY OPERATIONS ON THE DRYER.

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ATTENTION: THERE IS A COPY OF THE WIRING DIAGRAM INCLUDED WITH THE UNIT

ADDRESSES OF ASSISTANCE CENTRES

In the event of breakdown or malfunction of the dryer, switch it off and do not tamper with it. If repairs are needed, contact your dealer or the manufacture for an approved service contact and insist on the use of original spare parts. Failure to comply with the above may impact the safety and operation of the machine.

INTRODUCTION

**Keep this manual for future consultation; the use and maintenance manual is an integral part on the dryer.
Read this manual carefully before carrying out any operations on the dryer.
The installation of the dryer and all operations involving it must be performed in conformity with all regulations in force concerning electric plants and personal safety.**

CHARACTERISTICS AND SAFETY PRECAUTIONS



**BEFORE REMOVING THE PROTECTIVE GUARDS TO CARRY OUT ANY MAINTENANCE ON THE MACHINE, SWITCH OFF THE ELECTRIC POWER SUPPLY AND DISCHARGE THE RESIDUAL PRESSURE INSIDE THE UNIT.
ALL WORK ON THE ELECTRICAL CONNECTIONS, HOWEVER SLIGHT, MUST BE CARRIED OUT BY PROFESSIONALLY SKILLED PERSONNEL.**

The manufacturer does not accept responsibility for damage caused as a result of negligence of failure to abide by the instructions given above.

THIS MACHINE IS NOT SUITABLE FOR OUTDOOR INSTALLATION

THIS MACHINE CORRESPONDS TO THE ESSENTIAL SAFETY REQUIREMENTS FORESEEN FROM THE EUROPEAN STANDARD (2006/42 CE).

THE LUBRICATING LIQUIDS AND OTHER CONDENSATE FLUIDS MUST NOT BE DISCHARGED IN THE ENVIRONMENT. THESE POLLUTING AND HAZARDOUS PRODUCTS MUST BE DISPOSED OF ACCORDING TO THE LOCAL RULES AND REGULATIONS IN THE LOCATIONS OF THE INSTALLATION.

1.0 GENERAL CHARACTERISTICS

The dryer is a chilling machine with direct expansion heat exchanger and dry evaporator.
The air to be dried is sent to the heat exchanger in which the water vapour present is condensed: the condensate gathers in the separator and is discharged outside through an electronic level sensing drain.

2.0 INTENDED USE

The dryer has been designed and built to dry compressed air for industrial use. The dryer cannot be used in premises where there is a risk of fire or explosion or where work is carried out which releases substances into the environment which are dangerous with regard to safety (for example: solvents, inflammable vapours, alcohol, etc.).
In particular the appliance cannot be used to produce air to be breathed by humans or used on direct contact with foodstuffs. These uses are only allowed if the compressed air is additionally treated by means of a suitable purification system

(Consult the manufacturer for these special uses.)

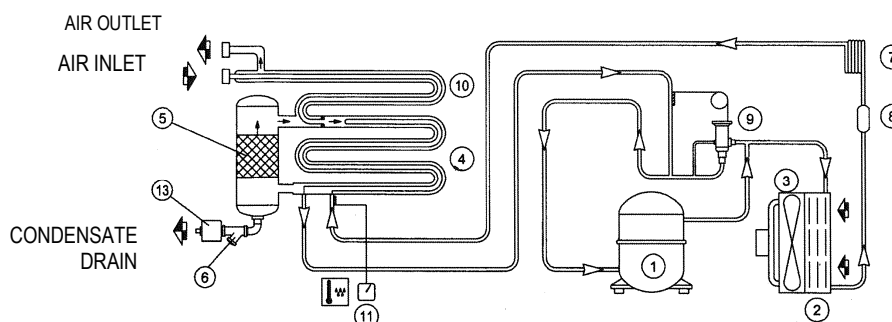
This appliance must be used only for the purpose for which it was specifically designed. All other uses are to be considered incorrect and therefore unreasonable. The Manufacturer cannot be held responsible for any damage resulting from improper, incorrect, or unreasonable use.

3.0 OPERATION

The hot gaseous refrigerant leaves the evaporator (4) and enters the refrigeration compressor (1) where it is compressed and pumped into the condenser (2). With the aid of a cooling fan (3) the refrigerant is condensed into a liquid. The condensed liquid refrigerant then passes through a filter/dryer (8) to remove any residual moisture. A capillary tube (7) is used as an expansion device before the refrigerant re-enters the evaporator (4). The expansion and evaporation of the refrigerant produces a cooling effect. Due to the heat exchange with the compressed air passing through the heat exchanger, the air temperature is reduced causing water vapour to condense out of the air stream. The water is removed in a water separator (5) so that it can be evacuated through the automatic level drain (13). The now gaseous refrigerant is returned to the compressor (1) where the cycle repeats.

The circuit is equipped with a hot gas bypass (HGBP) system for the refrigerant which adjusts the available refrigerating capacity to the actual cooling load. This is achieved by injecting hot gas under the control of the HGBP valve (9) to maintain a constant refrigerant pressure in the evaporator. With this control the of the refrigeration pressure the temperature never decreases below (32°F / 0°C).

DRYER FLOW DIAGRAM



1) REFRIGERANT COMPRESSOR	8) REFRIGERANT FILTER
2) CONDENSER	9) HOT GAS BYPASS VALVE
3) MOTOR FAN	10) AIR-TO-AIR EXCANGER
4) EVAPORATOR	11) DIGITAL CONTROLLER
5) DEMISTER CONDENSATE SEPARATOR	13) CONDENSATE DRAIN
6) IMPURITY TRAP	
7) EXPANSION CAPILLARY TUBE	

4.0 GENERAL SAFETY STANDARD






The appliance may be used only by specially trained and authorized personnel.
Any tampering with the machine or alterations not approved beforehand by the Manufacturer relieve the latter of responsibility for any damage resulting from the above actions.
The removal of or tampering with the safety devices constitutes a violation of the European Standards on safety.



ALL WORK ON THE ELECTRONICS AND REFRIGERANT CIRCUIT, HOWEVER SLIGHT, MUST BE CARRIED OUT BY PROFESSIONALLY SKILLED PERSONNEL.

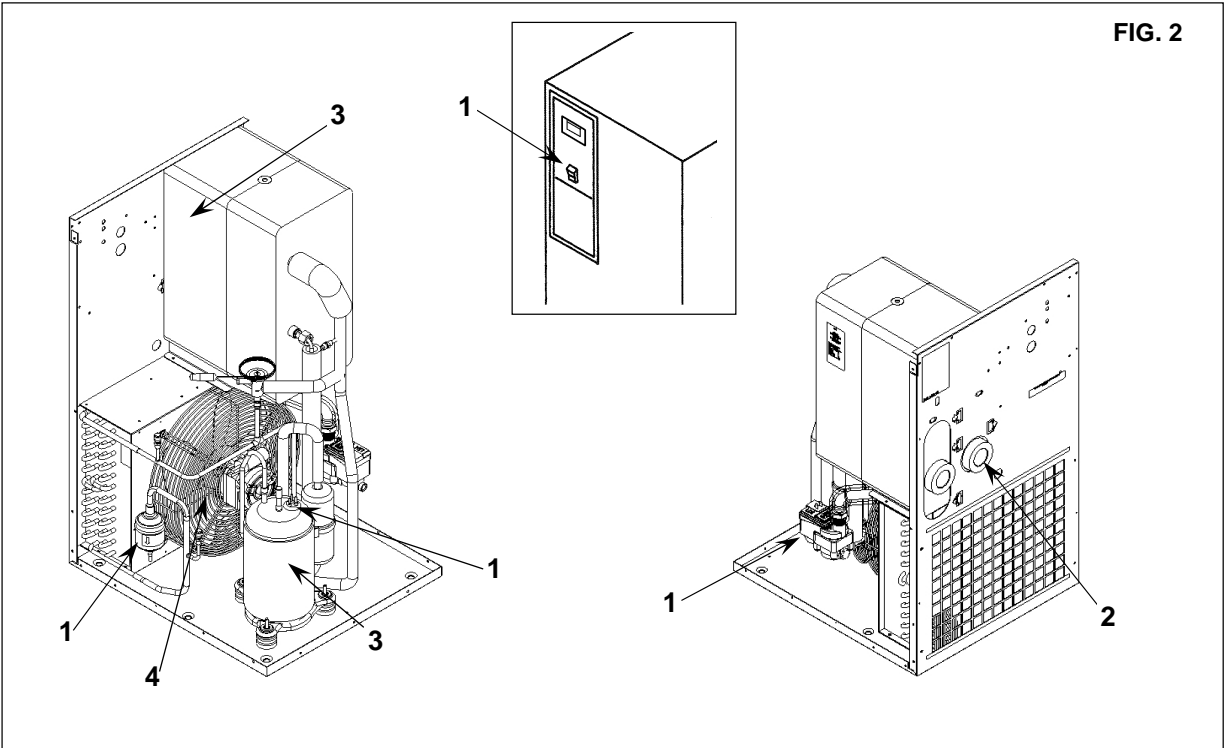
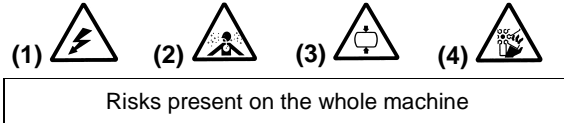
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5.0 DESCRIPTION OF WARNING SYMBOLS

				
1) Electrocution Risk	2) Air not fit for breathing	3) High pressure	4) Fan rotating	5) Hot parts

6.0 DANGER ZONES

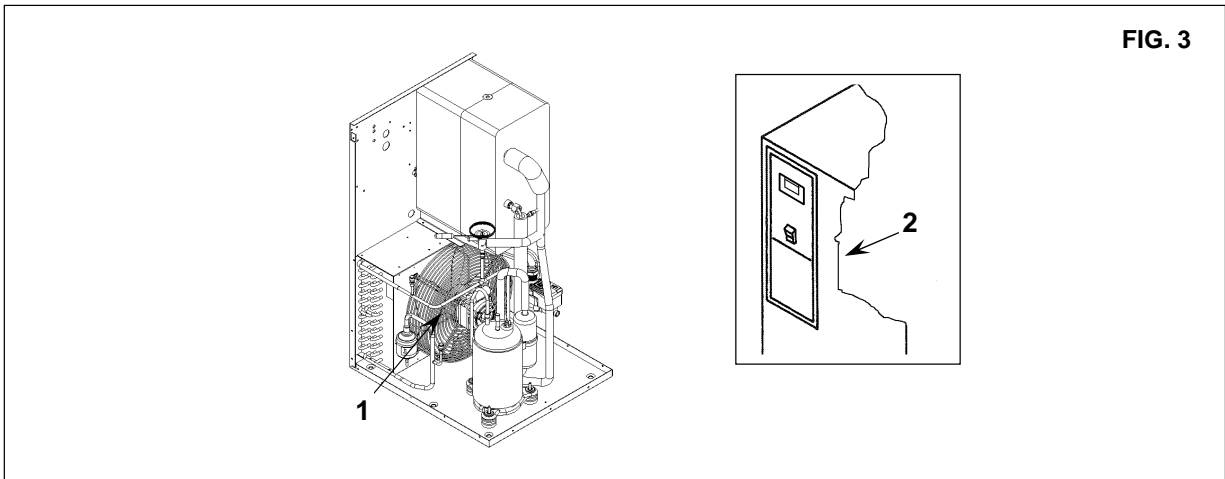
6.1 DANGER ZONES



7.0 SAFETY DEVICES

7.1 SAFETY DEVICES

- 1) Cooling fan shield 2) Earth

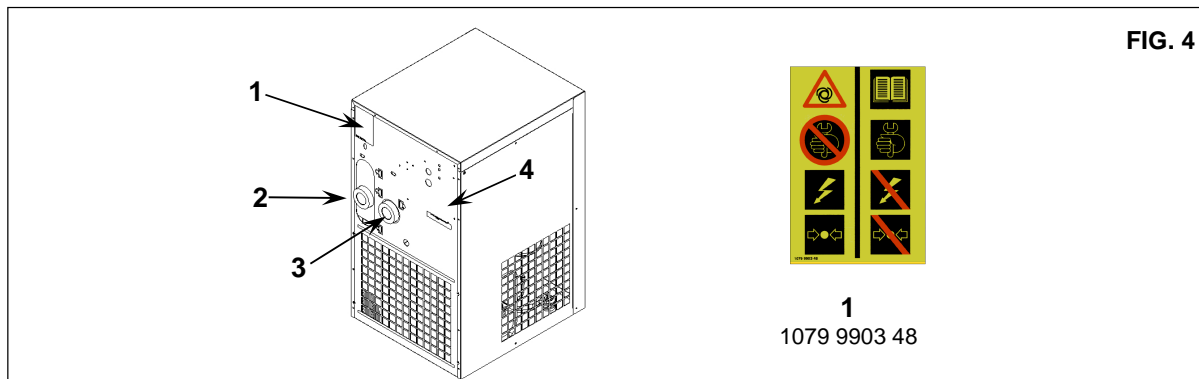


8.0 POSITION OF WARNING LABELS

8.1 POSITION OF THE WARNING LABELS (Fig. 4)

The labels fitted on the compressor unit are part of the machine; they have been applied for safety purposes and must not be removed or spoiled for any reason.

Ref.1 - Spare plate Code 1079 9903 48



8.2 POSITION OF THE DATA PLATES (Fig. 4)

2) Compressed air inlet	4) Identification plate
3) Compressed air outlet	

9.0 INSTALLATION LOCAL

9.1 FLOOR

The floor must be level and be of a type that can suitably support the total weight of the machine as shown in Fig. 5. Remember the total weight of the machine when positioning it.

9.2 VENTILATION

The choice of an appropriate room will prolong the life of your dryer; the room must be spacious, dry, well ventilated and free from dust.

The operating conditions to be complied with are the following:

Min. room temperature: +41 °F (+ 5 °C) (compulsory)	Min. temperature of incoming air: +34°F (10 °C)
Max. room temperature: 110°F (+ 43 °C) (compulsory)	Max. working pressure: 203 psi (14 bar)
Max. temperature of incoming air: 131°F (55 °C)	

- Please keep environmental conditions stable (temperature and humidity) in order to avoid refrigerant compressor/fan overload and/or reduction of dryer performance. Similar failures shall affect warranty reimbursements.
- Please ensure the appropriate composition of the air within the machine room: - clean with no damaging contaminants (e.g., dust, fibers, fine sand) - free of explosive or chemically unstable gases or vapors - free of acid/alkaline forming substances, particularly ammonia, chlorine or hydrogen sulfide. Similar failures shall affect warranty reimbursements.
- Please note that we do not recommend the use of ducting for the cooling air on these units.

10.0 TRANSPORT AND HANDLING

The machine must be transported as shown in the following figures.

	TYPE	NET WEIGHT lb (kg)	FIG. 5
	85N	137 (62)	
	105N	137 (62)	
	125N	132 (60)	
	150N	137 (62)	
	185N	181 (82)	
	230N	181 (82)	
	250N	185 (84)	

11.0 UNPACKING



CUTTING THE METAL STRAPPING CAN BE DANGEROUS, CUT PIECES SHOULD BE PROPERLY DISPOSED..

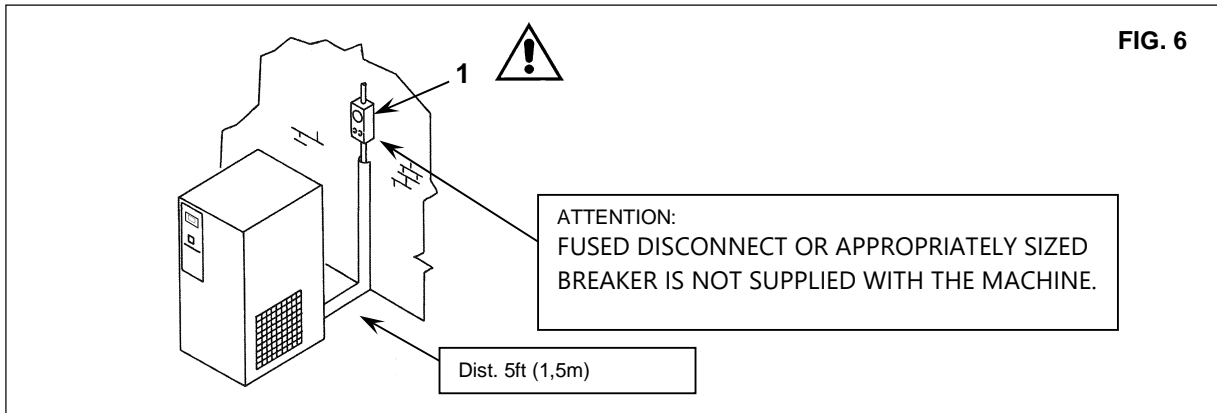
After removing the packing, ensure that the machine is unbroken and that there are no visibly damaged parts. If you are in doubt, do not use the machine and contact your dealer or the manufacture for technical assistance. The packing material (plastic bags, polystyrene foam, nails, screws, wood, metal strapping, etc.) must not be left within the reach of children or abandoned in the environment, as they are a potential source of danger and pollution. Dispose of these materials in the approved collection centres.

12.0 INSTALLATION

12.1 POSITIONING

After unpacking the equipment and preparing the installation location, put the machine into position:

- ensuring that there is sufficient space around the machine to allow maintenance (see Fig. 6).



12.2 ELECTRICAL CONNECTION

- Check that the supply voltage is the same as the value indicated on the machine data plate.
- Check the condition of the line leads and ensure that there is an efficient earth lead.
- **Ensure that there are disconnect switch Ref. 1 Fig. 6 and fuses upstream the machine. For details (size and type) see wiring/service diagram.**



ONLY PROFESSIONALLY LICENSED PERSONNEL SHOULD ACCESS TO THE ELECTRIC PANEL. SWITCH OFF THE POWER BEFORE OPENING THE DOOR OF THE ELECTRIC PANEL. COMPLIANCE WITH THE REGULATIONS IN FORCE CONCERNING ELECTRIC WORK IS FUNDAMENTAL FOR OPERATOR SAFETY AND FOR THE PROTECTION OF THE MACHINE.

12.3 CONNECTION TO THE COMPRESSED AIR NETWORK

Install isolation valves (not supplied) Ref. 1 between the machine and the compressed air network so that the dryer may be isolated during maintenance operations (see figure 7).

Plumb the condensate auto-drain, Ref. (2) Fig. 7, to a location where it can be treated prior to disposal.

Condensate must be disposed of according to the local rules and regulations in the location of the installation.

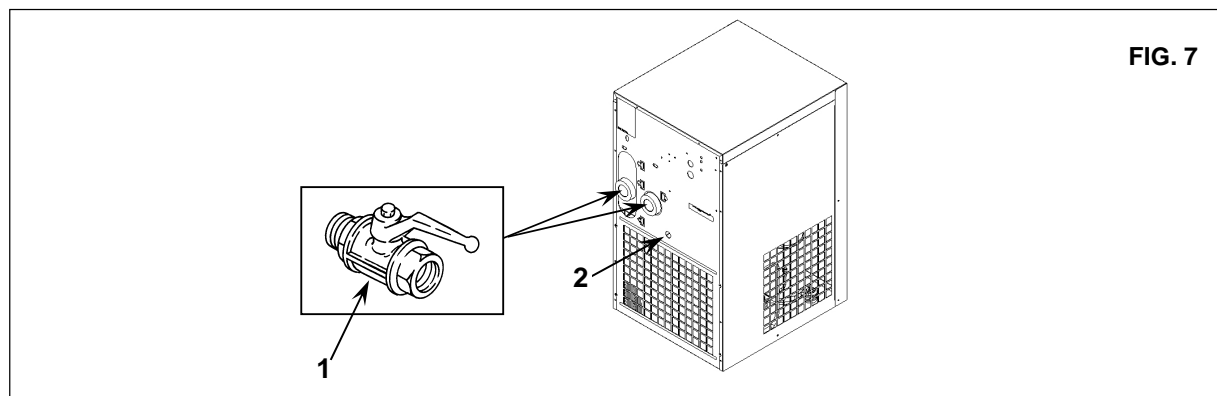
- All refrigerant dryers shall be equipped with proper pre-filter at closest position to dryer air inlet. The filter should be replaced annually or sooner for installations with high contaminate levels or ambient humidity.



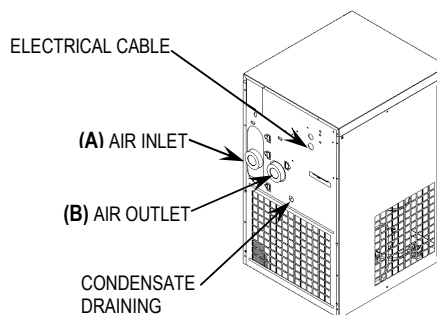
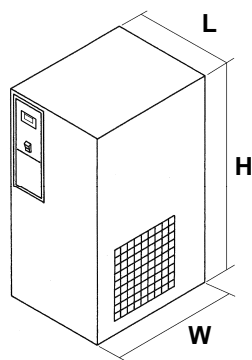
ALL DAMAGE DUE TO THE FAILURE TO COMPLY WITH THESE INDICATIONS CANNOT BE ATTRIBUTED TO THE MANUFACTURER AND MAY LEAD TO THE VOIDING OF THE MACHINE WARRANTY.

12.4 STARTING UP

See part B of this manual, Section 18.0



13.0 DIMENSIONS AND TECHNICAL DATA



TYPE	L	W	H
85N	18,1 (460)	22,6 (575)	31,1 (789)
105N	18,1 (460)	22,6 (575)	31,1 (789)
125N	18,1 (460)	22,6 (575)	31,1 (789)
150N	18,1 (460)	22,6 (575)	31,1 (789)
185N	22,8 (580)	23,8 (605)	35,4 (899)
230N	22,8 (580)	23,8 (605)	35,4 (899)
250N	22,8 (580)	23,8 (605)	35,4 (899)

Refrigerant gas ⁽¹⁾	GWP ₁₀₀ ⁽²⁾
R-410A	2088

⁽¹⁾ According to ISO 817
⁽²⁾ According to EN-378-1

TYPE	A	B
85N	1" NPT F.	1" NPT F.
105N	1" NPT F.	1" NPT F.
125N	1" NPT F.	1" NPT F.
150N	1" NPT F.	1" NPT F.
185N	1 1/2 GAS F.	1 1/2 GAS F.
230N	1 1/2 GAS F.	1 1/2 GAS F.
250N	1 1/2 NPT F.	1 1/2 NPT F.

TYPE	Weight lb (kg)	V230 Freon R410A lb (kg)	Nominal Power W	Nominal Power W	Nominal Power W	 psi MAX.
85N	137 (62)	1,3 (0,6)	1042	105	1147	203
105N	137 (62)	1,3 (0,6)	1161	105	1266	203
125N	132 (60)	1,3 (0,6)	1062	105	1167	203
150N	137 (62)	1,3 (0,6)	1095	126	1221	203
185N	181 (82)	1,7 (0,8)	1284	190	1474	203
230N	181 (82)	1,6 (0,75)	1582	190	1772	203
250N	185 (84)	2,4 (1,1)	2389	290	2679	203

Reference conditions:	Limit conditions:
Ambient temperature 100°F (38 °C)	Max. ambient temperature 110°F (43 °C)
Inlet air temperature 100°F (38 °C)	Min. ambient temperature 41°F (5 °C)
Working pressure 101,5 psi (7 bar)	Max. inlet air temperature 131°F (55 °C)
	Max. working pressure 203 psi (14 bar)

14.0 MACHINE ILLUSTRATION

14.1 GENERAL LAY-OUT

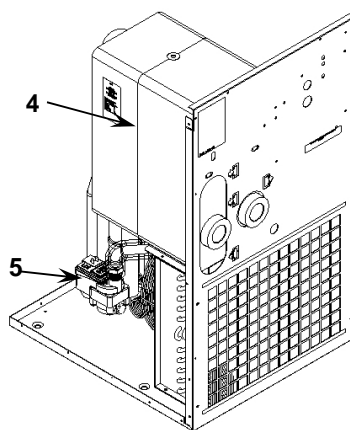
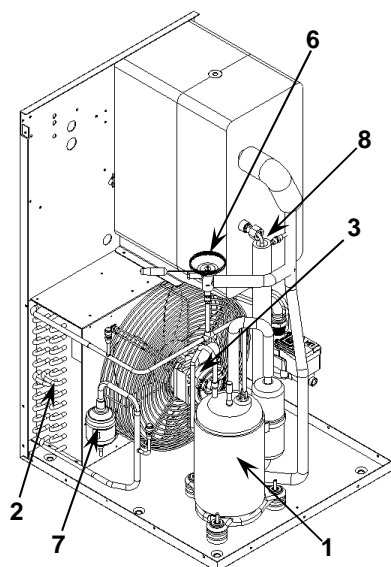


FIG. 8

1	Refrigerant compressor
2	Condenser
3	Motor fan
4	Evaporator
5	Condensate drain
6	Hot gas by-pass valve
7	Refrigerant filter
8	Expansion capillary tube

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14.2 COMMAND AND CONTROL PANEL



BEFORE CARRYING OUT THE OPERATION TEST, READ CAREFULLY AND ACQUIRE A GOOD KNOWLEDGE OF THE COMMAND FUNCTIONS.

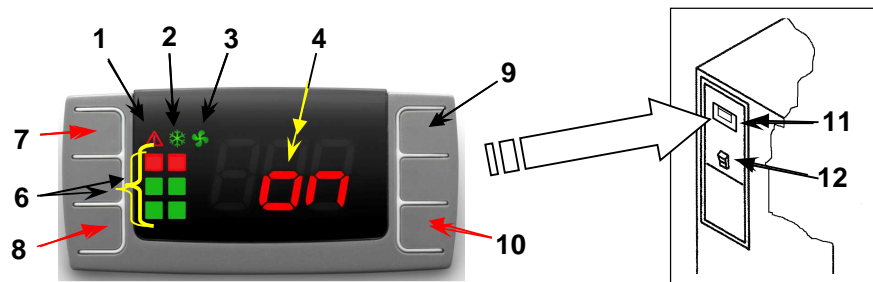


FIG. 9

Reference	Name
1	Alarm icon
2	Refrigerant compressor icon
3	Fan icon
4	Dryer ON
6	PDP indicator
7	Button to snooze or to reset the alarm
8	SET button
9	UP button
10	DOWN button
8 + 9	Back to previous screen
8 + 10	Menu
11	Digital controller
12	Switch

ICONS

ICON	NAME	MODE	FUNCTIONS
	Alarm	OFF	No active alarms
		ON	Probe failure alarm
		ON	High/Low temperature alarm
		ON	Service alarm
	Refrigerant compressor	OFF	Dryer off
		ON	Dryer on
		Flashing + SE	Maintenance warning
		Flashing + L2	Dewpoint too low / Dryer is stopped
		Flashing + Countdown	Residual time before start
	Fan	OFF	Fan off
		Flashing	Not applicable
		ON	Fan on
		Flashing + H3	Too high discharge temperature of the refrigerant compressor (see "H3" pag. 12) Dryer is stopped

STARTING DRYERS

	Flashing: countdown before starting the refrigerant compressor for internal pressure balancing (180 seconds).
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REMOTE ALARM FUNCTION

The controller allows to remotely control a number of alarms. This is managed by means of a free NC (Normally Closed) contact.

The contact opens in case of an alarm or when the dryer is switched off.

Refer to the table below to identify the availability of the function and refer to the related picture Fig. 9a Ref. 1 to identify the physical location of the free contact connector.

Is possible remote alarm for P1, P2, P3, L2, H2 and H3. For the details of alarm see Cap. 17.1 Pag. 12.

**FIG. 9a**

Location of the free contact connector (1)

ENGLISH**15.0 DISPOSING OF THE UNIT**

If the machine is to be scrapped, it must be dismantled into parts of the same material, to be disposed of according to the local regulations in force.

ALWAYS RESPECT THE REGULATIONS IN FORCE FOR DISPOSING OF OLD OIL AND OTHER POLLUTING MATERIALS SUCH AS INSULATING FOAM, ETC.



SPECIAL CARE NEEDS TO BE TAKEN IN REGARDS TO THE REFRIGERANT WITHIN THE UNIT. IT SHOULD NOT BE RELEASED TO THE ATMOSPHERE. ALL REFRIGERANTS SHOULD BE RECLAIMED BY A PROPERLY CERTIFIED REFRIGERANT TECHNICIAN PRIOR TO THE UNIT BEING SCRAPPED.

PART "B"



THIS PART "B" OF THE INSTRUCTIONS MANUAL IS RESERVED FOR PROFESSIONALLY SKILLED PERSONNEL APPROVED THE MANUFACTURER.

16.0 ROUTINE MAINTENANCE



BEFORE CARRYING OUT ANY MAINTENANCE JOBS IT IS OBLIGATORY TO STOP THE MACHINE, DISCONNECT IT FROM THE POWER MAINS AND FROM THE COMPRESSED AIR DISTRIBUTION NETWORK.

16.1 MAINTENANCE SCHEDULE

These maintenance intervals are recommended for work environments that are not dusty and are well ventilated. For particularly dusty environments, double the frequency of the recommended service intervals.

Every week	■ ■	Brush/blow off the finned surface of the condenser
	■ ■	Clean the filter of the automatic condensate drain
Every 2000 hours / 1 year	■ ■	Replace the filter of automatic condensate drain (2902016102)
Every 4000 hours / 1 year	■ ■	Replace drain kit (2200902017)

16.2 CLEANING OF THE AUTOMATIC CONDENSATE DRAIN FILTER (Fig. 10)

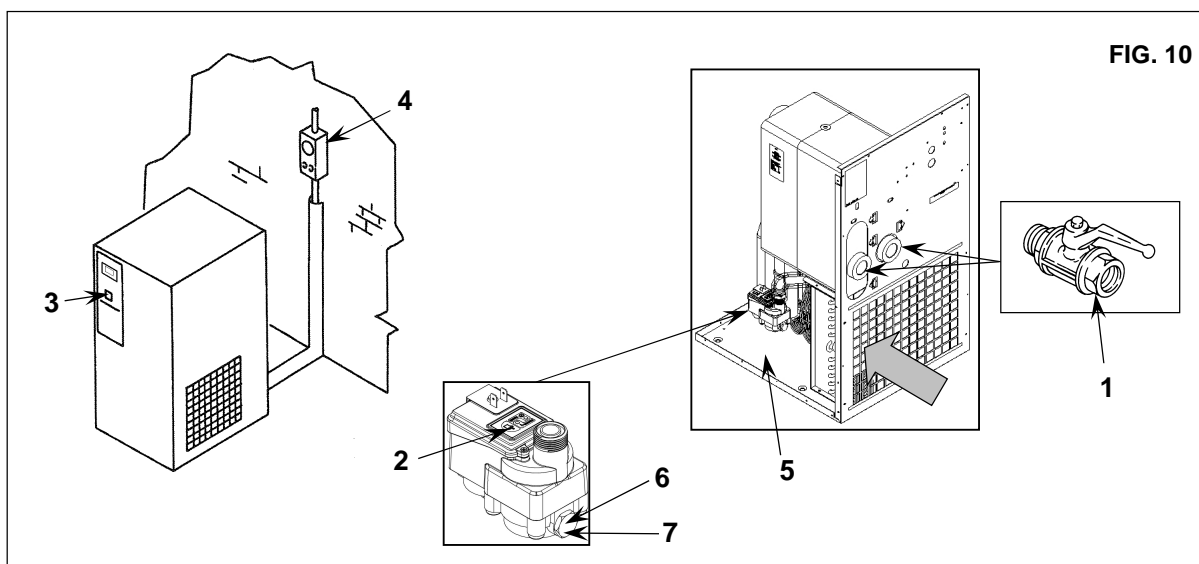
Proceed as follows:

- Isolate the unit from the compressed air network. Ref.1 Fig.10
- Release the pressure in the dryer by pressing the condensate drain "TEST" button located on the drain. Ref.2 Fig.10.
- Switch off the machine by pressing the STOP button. Ref.3 Fig.10.
- Lock-out and tag-out the unit at the fuse/breaker box. (see disconnecter switch. Ref.4 Fig.10).



HOT PARTS INSIDE

- Remove the panels
- Remove the stopper Ref. 6
- Remove the filter Ref. 7
- Clean the filter Ref. 7 with a jet of air, working from inside to outside
- Re-install the filter, fix the plug Ref. 7 - 6
- Close the panels



16.3 CLEANING THE CONDENSER (Fig. 10)

The condenser must be cleaned every month.

Proceed as follows:

- Switch off the machine by pressing the STOP button. Ref.3 Fig.10
- Lock-out and tag-out the unit at the fuse/breaker box. (see disconnecter switch Ref. 4 Fig. 10)
- Remove the panels.
- Clean the condenser fins Ref. 2 with compressed air (Fig. 8) **DO NOT USE WATER OR SOLVENTS**
- Close the panels.

17.0 TROUBLE-SHOOTING AND EMERGENCY REMEDIES














ALL WORK MUST BE CARRIED OUT BY PROFESSIONALLY TRAINED AND LICENSED PERSONNEL. BEFORE CARRYING OUT ANY MAINTENANCE JOBS IT IS OBLIGATORY TO STOP THE MACHINE AND DISCONNECT IT FROM THE POWER SOURCE.

N.B. OPERATIONS MARKED ■ ■ MUST BE CARRIED OUT BY PROFESSIONALLY TRAINED AND LICENSED PERSONNEL APPROVED BY THE MANUFACTURER

FAULT FOUND	POSSIBLE CAUSES	OBSERVATIONS
1) No compressed air passes through the dryer outlet	1A) The pipes are frozen inside	■ ■ -The bypass valve of the hot gas is broken or out-of-calibration -The room temperature is too low and the evaporators piping are obstructed with ice
2) Presence of condensate in the pipings.	2A) The condensate separator does not work correctly 2B) The dryer is working outside its rated capacity 2C) The dryer refrigeration condenser is not working properly	-Clean the filter from the condensate drain ■ ■ -Check the condensate drain -Check the flow rate of treated air -Check the room temperature -Check the air temperature at the drier inlet. -Clean the condenser. ■ ■ -Check the operation of the fan.
3) The compressor head is very hot	See 2B above See 2C above 3A) The cooling circuit is not working with the right gas charge	■ ■ - See allarm "H3" pag. 12 ■ ■ -Check if there are leaks of refrigerating gas. ■ ■ - Charge it again.
4) Motor cuts out on overload	See 2B above See 2C above See 3A above	
5) The motor hums and does not start.	The line voltage is too low. The starting system of the motor is defective.	-Contact the electric power company ■ ■ -Check the running capacitor
6) The machine has stopped and does not restart even after a few minutes.	The overload protection has tripped: make reference to 2B-2C-3A. The motor is burned.	Contact authorized service provider
7) The compressor is very noisy.	Troubles with the internal mechanical parts	Contact authorized service provider

17.1 TROUBLE-SHOOTING AND EMERGENCY REMEDIES

N.B. OPERATIONS MARKED ■ ■ MUST BE CARRIED OUT BY PROFESSIONALLY TRAINED AND LICENSED PERSONNEL APPROVED THE MANUFACTURER

Display	Flashing fault message	Description	Possible root causes	Observations
		Dryer is working OK	n/a	
		Warning icon NOT flashing, label P1 flashing	Fan control probe failed	■ ■ replace probe
		Warning icon NOT flashing, label P2 flashing	PDP Temp probe failed	■ ■ replace probe
		Warning icon NOT flashing, label P3 flashing	Refrigerant compressor temperature probe failed	■ ■ replace probe
		Warning icon NOT flashing, label H2 flashing	High PDP	<ul style="list-style-type: none"> ■ ■ refrigerant leak ■ ■ flow rate / inlet ■ ■ temperature exceeding the limit. ■ ■ call for service
		Warning icon NOT flashing, label L2 flashing	Low PDP	<ul style="list-style-type: none"> ■ ■ hot gas by pass valve out of order. ■ ■ ambient temperature lower then limits ■ ■ call for service
		Warning icon NOT flashing, label H3 flashing	High refrigerant compressor temperature	<ul style="list-style-type: none"> ■ ■ refrigerant leak ■ ■ call for service
		Warning icon NOT flashing, label H1 flashing	High temperature discharge condenser	<ul style="list-style-type: none"> ■ ■ check probe ■ ■ call for service
		Warning icon NOT flashing, label L1 flashing	Low temperature discharge condenser	<ul style="list-style-type: none"> ■ ■ check probe ■ ■ call for service

EE ALARM

EE alarm is shown when internal EPROM errors happens, if the dryer will stop running when this warning occurs. The error can be reset by pressing one of the four buttons of the controller, but if it persists the controller must be replaced.



NOTE: In case of EE alarm please contact your tech support.

SE ALARM

After 6000Hrs, the controller will issue a "SE" warning. This is the maintenance due warning.

**FREEZE PROTECTION FUNCTION**

Once the digital controller detects a dewpoint temperature below 28,4°F (-2°C) lasting for more than 2 minutes (L2 Alarm), it switches off the refrigerant compressor.

AUTOMATIC CUT OUT OF REFRIGERANT COMPRESSOR

If the refrigerant temperature detected at the inlet of refrigerant compressor exceeds the limit set by manufacturer, the controller stops the refrigerant compressor in order to avoid possible damage.

COMPRESSOR RE-START AFTER A STOP

If a freeze protection or superheating alarm occurs, the controller stops the refrigeration compressor and the dryer must be manually restarted.

Before restarting the dryer, it is necessary to identify the root cause of the problem as such alarms indicate possible issue that may lead to a catastrophic failure. Contact your dealer or the manufacture for technical assistance and support on determining the issue. Restarting the dryer without investigation on possible root cause will affect the reliability of the dryer and may impact the warranty.

Press button Ref. 7 Fig. 9a to reset the alarm.

The dryer restarts when both the following conditions are satisfied:













- The dewpoint temperature is higher than 28.4°F (-2°C)
- 180 seconds are elapsed from the refrigerant compressor stop (minimum balancing pressure stop time).

A countdown is available if the reset is made before the minimum stop time.










SILENT ALARM FUNCTION

To reset the alarm, press button Ref. 7 (See Fig. 9)

How to reset the maintenance warning: follow steps 1 to 12

<p>1</p>  <p>PDP is flashing between standard view and "SE" alarm</p>	<p>2</p>  <p>Push and hold buttons "SET" and "DOWN" to enter in the menu.</p>	<p>3</p>  <p>Message "SE" appears on display.</p>
<p>4</p>  <p>Push and release button "UP".</p>	<p>5</p>  <p>Message "rS" appears on display.</p>	<p>6</p>  <p>Push and release button "SET".</p>
<p>7</p>  <p>Message "n" appears on display.</p>	<p>8</p>  <p>Push and release button "UP".</p>	<p>9</p>  <p>Message "y" appears on display.</p>
<p>10</p>  <p>Push and release "SET" to reset service alarm.</p>	<p>11</p>  <p>Message "y" blinks for 3 seconds.</p>	<p>12</p>  <p>Then "rL" is fixed and "°C" blinks on display for ~10 seconds. Service alarm is reset</p>

PROCEDURE TO SET THE SERVICE INTERVAL ON PDP DEVICE

<p>1</p>  <p>PDP is showing standard view.</p>	<p>2</p>  <p>Push and hold buttons "SET" and "DOWN" to enter in the menu.</p>	<p>3</p>  <p>Message "SE" appears on display.</p>
<p>4</p>  <p>Push and release "SET" to enter in the "SE" menu.</p>	<p>5</p>  <p>Current service interval is displayed. ("60" or different value from "0" to "99")</p>	<p>6</p>  <p>Select desired service interval using "UP" or "DOWN". (40=4000h, 55=5500h, 80=8000h,...)</p>
<p>7</p>  <p>Push and release "SET" to configure new service interval.</p>	<p>8</p>  <p>Value selected blinks for 3 seconds.</p>	<p>9</p>  <p>Then "rS" is fixed and "°C" blinks on display for ~10 seconds. New service interval is set</p>

18.0 STARTING UP



BEFORE CARRYING OUT ANY OPERATION ON THE MACHINE, ENSURE THAT THE ELECTRIC POWER SUPPLY HAS BEEN DISCONNECTED

18.1 PRELIMINARY CONTROLS

Before starting the dryer, check:

- The correct connection to the compressed air piping: remember to remove protected caps supplied on the drier inlet and outlet.
- The correct connection to the condensate drainage system.
- That the power supply matches the power supply indicated on the dryer nameplate.

18.2 STARTING AND STOP

Start the system before the air compressor starts running and stop it after the air compressor has been stopped. The compressed air piping will be free of condensate only by doing so. The drier must be kept running during all the time the air compressor is running.



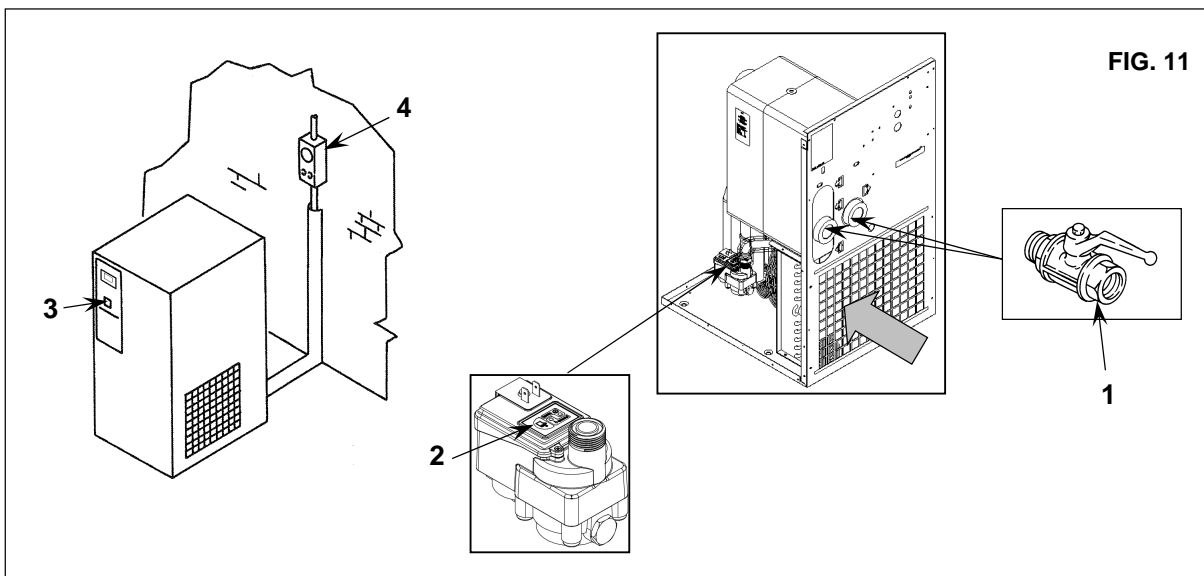
IF THE DRYER IS SWITCHED OFF, BEFORE STARTING IT AGAIN, WAIT AT LEAST 5 MINUTES IN ORDER TO ALLOW THE PRESSURE BALANCING.

BEFORE CARRYING OUT ANY MAINTENANCE JOBS IT IS MANDATORY TO STOP THE MACHINE AND DISCONNECT IT FROM THE POWER SOURCE AND ISOLATE IT FROM THE COMPRESSED AIR DISTRIBUTION NETWORK.

PRESSURE DISCHARGE PROCEDURE

Proceed as follows:

- Isolate the unit from the compressed air network Ref. 1 Fig. 11
- Release the pressure in the dryer by pressing the condensate drain "TEST" button located on the drain Ref. 2 Fig. 11
- Switch off the machine by pressing the STOP button Ref. 3 Fig. 11
- Lock-out and tag-out the unit at the fuse/breaker box (see disconnecter switch Ref. 4 Fig. 11)



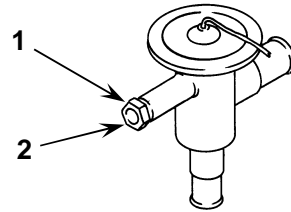
**CALIBRATIONS
BYPASS VALVE FOR HOT GAS**

N.B. These valves have already been calibrated and they do not require any adjustment. An operating dew point that is different from the standard rated performance is typically caused by conditions other than the hot gas bypass valve.

Ref. 1) Closing cap
Ref. 2) Adjusting screw

WORKING PRESSURES AND TEMPERATURES OF R410A

	SUCTION SIDE OF REFRIGERATION COMPRESSOR	
	Evaporat. Temperat. °F (°C)	Evaporating Pressure psi (bar)
RATED VALUES Temperat. 68 °F (20 °C)	23 - 41 (-0,5 - +0,5)	R410A 99,21 - 102,98 (6,84 - 7,10)





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