AEROTEC

Instruction and Maintenance Manual

DIRECT EXPANSION COMPRESSED AIR DRYERS

AERODry PRO 700 - 8000

Models

20150600	Aerotec Kältetrockner Aerodry 600
20150601	Aerotec Kältetrockner Aerodry 900
20150602	Aerotec Kältetrockner Aerodry 1400
20150603	Aerotec Kältetrockner Aerodry 1800
20150604	Aerotec Kältetrockner Aerodry 2400
20150605	Aerotec Kältetrockner Aerodry 3000
20150606	Aerotec Kältetrockner Aerodry 3800
20150607	Aerotec Kältetrockner Aerodry 5300
20150608	Aerotec Kältetrockner Aerodry PRO 6100
20150609	Aerotec Kältetrockner Aerodry PRO 8000
20150610	Aerotec Kältetrockner Aerodry 36000

EC DECLARATION OF CONFORMITY

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Declare under our sole responsibility that the product to which this declaration relates is in conformity with the following standards and other normative documents:

2006/42/CE
97/23/CE
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2004/108/CE

Name / Surname

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Position

Managing Director

Date

14.09.2015

Signature

STD.

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1. GENERAL INFORMATION

1.1 FUNCTIONAL DESCRIPTION

Drying systems with refrigeration cycle have been designed for a cost effective elimination, with minimal overall dimensions, of the condensate contained in compressed air by cooling it down. The operation principle of the dryers described in this manual is shown in the air and refrigeration circuit diagrams (paragraph 2.2 and 2.3)

The air delivered to the services is virtually humidity free, and the condensate collected in the separator is discharged through appropriate draining devices. In order to limit the size of the machine and to avoid condensation on the external surface of the tubing, before exiting the dryer, treated air is counter current pre-heated by the air entering the system.

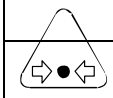
The dryer comes provided with all the control, safety and adjustment devices, therefore no auxiliary devices are needed.

A system overload not exceeding the maximum operative limits can worsen the operational performances of the dryer (high dew point), but it will not affect its safety.

The electric diagram (attached file E) shows the minimum protection degree IP 42. The user must provide the dryer with a line protection and a ground terminal.

1.2 USE OF THE MACHINE IN SAFE CONDITIONS

Symbols applied on the dryer and the manual

	***General warning***		***Do not touch electrical hazard***
	***Danger - high voltage, electrical current***		***Prohibition of maintenance to unqualified personnel***
	***Danger point***		***Environmental requirements***
	***Mandatory consulting the manual***		***Recyclable materials***

This system has been designed and manufactured in compliance with the European safety directive in force, therefore any installation, use and maintenance operations must be performed respecting the instructions contained in this manual.

Any installation, use and maintenance operation requiring to access the internal parts of the dryer must be performed by qualified personnel.

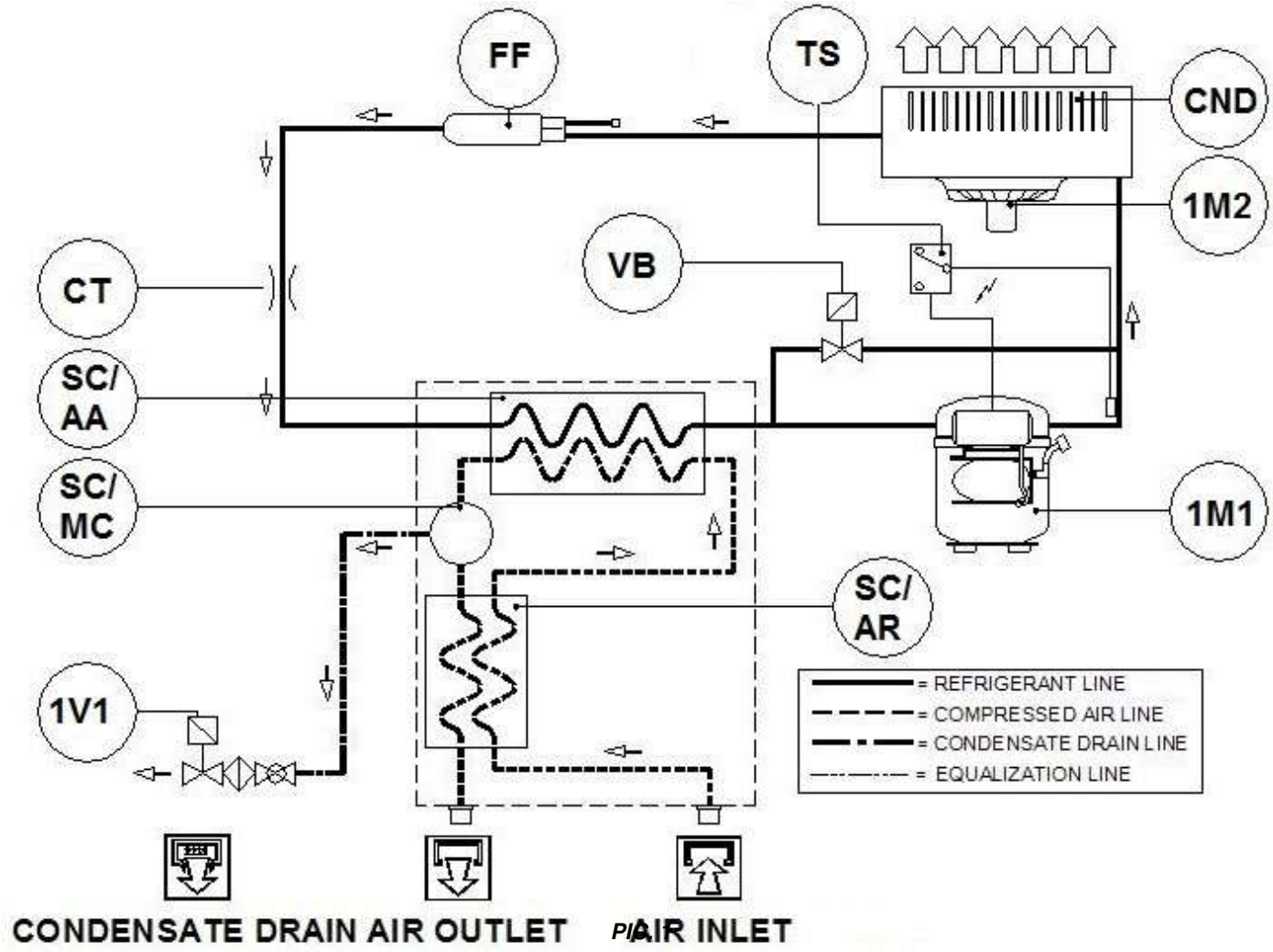
The manufacturer will not be liable in case of uses different or nor complying with those foreseen in this manual.

2. TECHNICAL DESCRIPTION

2.1 OPERATION

The dryer described in this manual basically consists of two separated circuits: a compressed air circuit, divided into two heat exchangers, and a refrigeration circuit.
The warm and humid entering air goes through an air-to-air exchanger before entering the evaporator (air- to-refrigerant exchanger) where, due to the contact with the refrigeration circuit, it cools down to allow the
condensation of the humidity it contains.
The condensed humidity is than separated and expelled into the separator.
The cooled air goes through the air-to-air exchanger, where it partially warms up in cooling down the entering warm air (pre-refrigeration).
The refrigeration circuit needed for these operations is basically composed of a refrigeration compressor, a condenser and the evaporator, also called air-to-refrigerant exchanger.

2.2 REFRIGERANT CIRCUIT
2.2.1DIAGRAM



2.2.2 REFRIGERATING COMPRESSOR (1M1)

The refrigerating compressor is the pump of the system where the gas coming from the evaporator (low pressure side) is compressed up to the condensation pressure (high pressure side). All the compressors used are manufactured by primary companies and are designed for applications where high compression ratios and wide temperature changes are present. The fully sealed construction is perfectly gas tight, so ensuring high-energy efficiency and long useful life. The pumping unit is supported by dumping springs, in order to consistently reduce the acoustic emission and the vibration diffusion. The electric motor is cooled down by the aspirated refrigerating gas, which goes through the coils before reaching the compression cylinders. The internal thermal protection protects the compressor from over heating and over currents. The protection is automatically restored as soon as the nominal temperature conditions are reached.

2.2.3 CONDENSER (CND)

The condenser is the element in which the gas coming from the compressor is cooled down and condensed becoming a liquid. Mechanically, it is formed by a copper tubing circuit (with the gas flowing inside) immersed in an aluminium blades package. The cooling operation occurs via a high efficiency axial ventilator which, in applying pressure on the air contained within the dryer, forces it into the blades package.
It's mandatory that the temperature of the ambient air will not exceed the nominal values. It's as well important TO KEEP THE UNIT FREE FROM DUST AND OTHER IMPURITIES.

2.2.4 DEHYDRATION FILTER (FF)

Traces of humidity and slag which could accumulate inside the chilling plant, or smudge which could occur after a long use of the dryer, could limit the lubrication of the compressor and clog the capillary tube. The

function of the dehydration filter, located before the capillary tubing, is to stop the impurities, so avoiding their circulation within the system.

2.2.5 CAPILLARY TUBE (CT)

It consists of a piece of reduced cross section copper tubing located between the capacitor and the evaporator to form a throttling against the flow of the refrigerating fluid. This throttling creates a pressure drop, which is a function of the temperature to be reached within the evaporator : the less is the capillary tube outlet pressure, the less is the evaporation temperature.
The length and the diameter of the capillary tubing are accurately sized with the performance to be reached by the dryer; no maintenance/adjustment operations are necessary.

2.2.6 ALUMINIUM HEAT EXCHNAGER (SC)

The air-to-air and the air-to-refrigerant heat exchangers plus the demister type condensate separator are housed in a unique module. The counter flows of compressed air in the air-to-air heat exchanger ensure maximum heat transfer. The large cross section of flow channel within the heat exchanger module leads to low velocities and reduced power requirements.
The generous dimensions of the air-to-refrigerant heat exchanger plus the counter flow gas streams allow full and complete evaporation of the refrigerant (preventing liquid returning to the compressor).
The high efficiency condensate separator is located within the heat exchanger module. No maintenance is required and the coalescing effect results in a high degree of moisture separation.

2.2.7 ETY THERMAL SWITCH (TS)

Applied to protect the compressor. When the dryer is operated with a proper amount of refrigerant, the discharge temperature is stable, while if the amount of refrigerant is not correct the discharge temperature increases beyond the standard and the safety thermostat cuts off the power to the compressor. The discharge temperatures also increases with dirty condenser or fan failure.

2.3 AIR CIRCUIT

The dryer was manufactured in order to dry compressed air; every application of the machine in conditions other than those described in Annex A must be authorized by the manufacturer.

3 INSTALLATION

3.1 ACCEPTANCE AND TRANSPORTATION

At the moment the customer accepts the delivery, he must fully inspect the dryer to verify its integrity and the presence of all the items listed in the shipping documentation.

Eventual claims for missing and/or damaged parts must be addressed directly to our facility or to the closest reseller, within 8 (eight) days from the date on which the goods have been received.

It is mandatory to keep the dryer always in vertical position, as indicated by the symbols present on the packaging. For eventual displacements, use devices having sufficient capacity for the weight of the machine.

Remove the packaging after having positioned the dryer in the installation site. We suggest to keep the original packaging at list for the duration period of the warranty of the machine. Anyhow, do not forget to dispose the various materials in compliance with the relevant rules locally in force.

It's avoided removing any panels during transportation and positioning of dryer.

If not in use, the dryer can be stored in its packaging in a dust free and protected site at a maximum temperature of 50 °C, and a specific humidity non exceeding the 90 %. Should the stocking time exceed 12 months, please contact the manufacturer

3.2 INSTALLATION SITE

While preparing a proper site for the installation of the dryer, please take into account the following requirements

- *The machine must be protected from atmospheric agents and not directly exposed to sun light.*
- *A seating base flat and capable to hold the weight of the machine.*
- *Ambient temperature complying with the nominal data of the dryer.*
- *A clean, dry and without forced draft (we suggest to blow the warm air outside the installation site).*
- *Make sure to leave sufficient clearance around the dryer in order to allow an adequate cooling of the machine and for maintenance and/or control operations.*

The incoming air must be free from smoke or flammable vapours which could lead to explosion or fire risks.

3.3 INSTALLATION LAYOUT

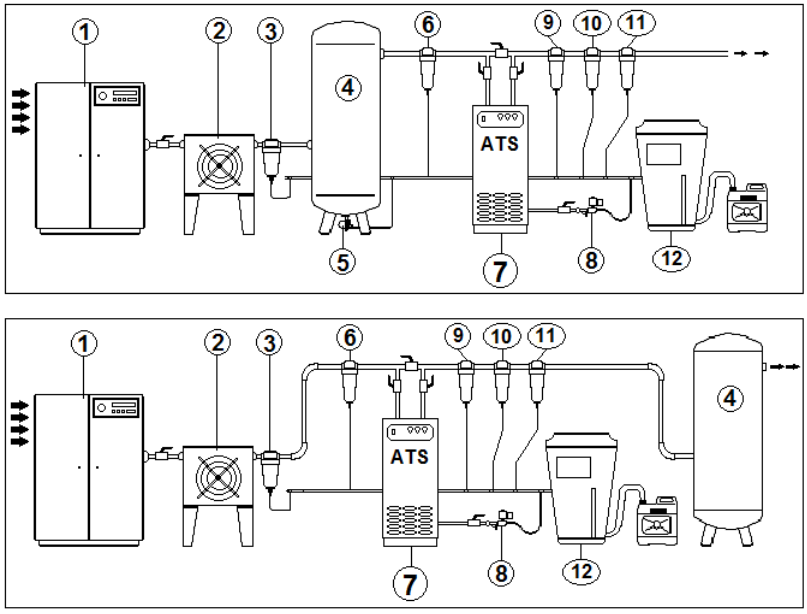
Before attempting any installation operation, make sure that

- *No part of system is under pressure.*
- *No part of the system is electrically powered.*
- *Tubing to be connected to the dryer are impurities free.*

After having verified the points listed above, you can proceed to the installation of the machine. Connect the dryer to the compressed air lines indicated in the diagrams below. Check out the above conditions we recommend:

- *Direct the dryer so that all the instruments of control of the machine are clearly visible in order to optimize utilization.*
- *Install an anti-dust filter of 3μm because it is necessary to warrant a good operation of internal components of machine.*
- *Install a by-pass group valve that allows to isolate dryer from plant and to facilitate any maintenance operations*

1	Air Compressor
2	After cooler
3	Condensate separator
4	Receiver
5	Automatic Drain
6	Dust Filter 3μ
7	Dryer
8	Solenoid drain valve
9	Coalescing Filter 1μ
10	Coalescing Filter 0.01μ
11	Activated carbon filter 0.003 mg/m^3
12	Water/Oil Separator



PIC. 2

3.4 CONNECTION TO THE MAINS

DANGER*- *High Voltage is present.
PROPERLY HANDLING PROCEDURES MUST BE USED OF ELECTRICAL SHOCK.

The connection to the mains, to be carried out by qualified personnel, and the safety systems must comply with local rules and laws.

Before connecting the unit to the electric power, verify that the voltage and the frequency available on the mains correspond to the data reported on the data plate of the dryer. In terms of voltage, a ±5% tolerance is allowed.
The dryers come with a mains connecting cable already installed.
The mains socket must be provided with a mains magneto-thermal differential breaker and the cross section of the power supply cables must be suitable sized by qualified staff in compliance to rules in force and to the consumption of the dryer (see the nominal values on the data plate of the dryer).

Power the dryer after having checked that the nominal voltage and line frequency are constant and matching the nominal values of the machine. The user must provide the installation with an adequate line protection and a ground terminal complying with the electrical rules locally in force.

3.5 CONDENSATE DRAIN

The condensate is discharged at the same pressure of the air entering the dryer.
Never point the condensate drain jet towards anybody.
Don't dispose the condensate in the environment.

The condensate collected in the dryer contains oil particles released in the air by the compressor. Dispose the condensate in compliance with the local rules.
We suggest to install a water-oil separator where to convey all the condensate drain coming from compressors, dryers, tanks, filters, etc.

The dryer can be provided with a timed drain operated by electronic board or it can be supplied with a capacitive drain (see ANNEX G).

4. START UP

4.1 BEFORE START UP

Before starting the machine, make sure that all operating parameters correspond to the nominal data.

The dryer is supplied already tested and present for normal operation, and it doesn't require any calibration. Nevertheless, it's necessary to check the operating performances during the first working hours.

4.2 START UP

The operations specified below must be performed after the first start up and at each start up after a prolonged inactive period of time due to maintenance operations, or any other reason.

1. ***Make sure that all instructions contained in chapters INSTALLATION SITE (par. 3.2) and INSTALLATION LAYOUT (par. 3.3) have been respected.***
2. ***Activate current supply.***

3. ***If display is OFF, press the START / STOP key***  ***for at least 3 seconds to start the machine display will show temperature.***

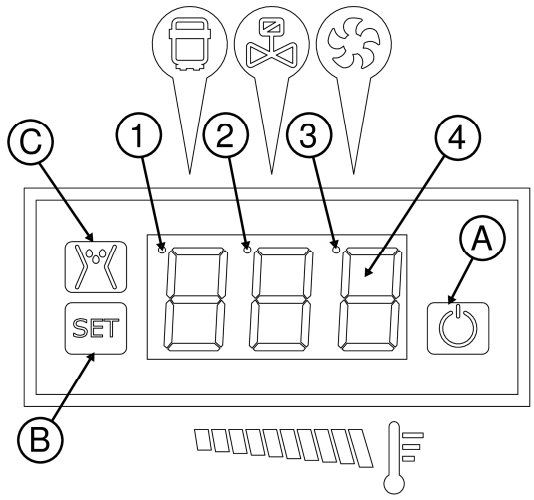
4. ***The unit will start after 1 minute safety delay.***
5. ***Wait 5 to 10 minutes until machine has achieved its standard operating parameters.***
6. ***Slowly open the air outlet valve and successively open the air inlet valve.***
7. ***Let go in slowly the air through dryer.***
8. ***Check if all connecting pipes are properly tightened and fixed.***

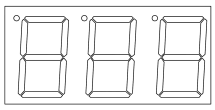
Before disconnecting the dryer from electrical power supply, press START/STOP key for at least 3 seconds. After that wait 10 minutes before switching the dryer on again, in order to allow freon pressure re-balance.

5. OPERATION

5.1 CONTROL PANEL

The machines belonging to this series are provided with an electronic system so eventual reset operations can be performed by digital panel located on the front of the dryer.
The control panel illustrated in the picture is composed of 3 keys (START / STOP, SET, DRAIN TEST) and 3 signaling LEDs indicated by icons.



No	LED	ICON	STATUS	DESCRIPTION
1	LED COMP		ON	Compressor energized
2	LED VALVE		ON	Condensate drain energized
3	LED FAN		ON	Fan energized
4	DISPLAY		OFF	UNIT SWITCH OFF
			3	DEWPOINT TEMPERTURE
A	START / STOP key			Activates and deactivates the process
B	SET key			Parameter setting entry (depend on the current display)

C	***DRAIN TEST key***			***Manual drain test***

5.2 STANDARD OPERATION

START / STOP key: Pushed for 3 seconds, it activates or deactivates the process. When the process is deactivated, the display not shows. During the dryer operation, the COMP LED (1) is on.

5.3 SET-UP

The device controls the compressor, fan and condensate drain solenoid of the dryer, and allows the calibration of the operating parameters. In case of particular requirements concerning the operation management the user can change the setting of the programmed parameters. The parameters (Pr1-8), which can be set up, are show on table.

How to set-up

- ***To access the set-up mode, keep pressed the SET button SET for at least 3 seconds.***
- ***The first parameter Pr1 will be display***
- ***Use DRAIN button to increase or reduce value.***
- ***To confirm and move to next parameter press SET button SET.***
- ***To save and out to normal display, keep press SET button for 3 seconds. Display will show "SA".***
- ***In case no operations are made during 30 seconds, the system exits automatically the set-up condition.***

Parameter	Description	Unit	Range	Default	Note
Pr1	Drain time	sec	1-10	1	Adjust depending on condition
Pr2	Drain cycle time	sec	0-600	120	0 to use with no loss drain
Pr3	Auto reset time	min	1-19	3	Manufactory use only
Pr4	Sensor type		0-3	0	
Pr5	Fan set point	˚C	25-52	42/46*	
Pr6	Fan hysteresis	˚C	1-10	1/2**	
Pr7	Fan offset	˚C	-5 / +5	0	
Pr8	Dew point offset	˚C	-5 / +5	0	

5.4 Display Message

Message	Description	Conditions	Actions
ES	Energy saving	Dewpoint lower than -1 ˚C over 5 minutes	N/A
AdP	High dewpoint alarm	Dewpoint higher than 17 ˚C Over 6 minutes	Switch off the unit to reset if alarm persists contact service
P1	Dewpoint probe alarm	All problem with dewpoint probe	Change probe / dryer will not stop to work
P2	Fan probe alarm	All problem with fan probe	Change probe / dryer will not stop to work fan motor keep running

5.5 ALARM HISTORY

The device can display the alarm history. To know how many alarm event occur on the last operation.

How to entry to alarm history display:

- ***Press and hold SET SET and DRAIN TEST buttons for 2 seconds***
- ***You will see E and the numbers of time energy saving occur.***
- ***Press set SET for 1 second to reset.***
- ***Press drain for 1 second to move to next alarm history.***

- ***You will see S and the numbers of time sensors problem occur.***
- ***Press set*** SET ***for 1 second to reset.***
- ***Press drain***  ***for 1 second to move to next alarm history.***
- ***You will see d and the numbers of time high dew point alarm occur.***
- ***Press and hold SET*** SET ***and DRAIN TEST***  ***buttons for 2 seconds to back to normal display.***

6. MAINTENANCE, TROUBLESHOOTING, SPARES AND DISMANTLING

6.1 CONTROLS AND MAINTENANCE

Before attempting any maintenance operation, make sure that:

1. ***No parts of the system is under pressure.***
2. ***No parts of the system is electrically powered.***

➔ WEEKLY OR EVERY 40 HOURS OF OPERATION

- ***Verify the temperature on the control panel display.***
- ***Visually check if the condensate is drained regularly.***

➔ MONTHLY OR EVERY 200 HOURS OF OPERATION

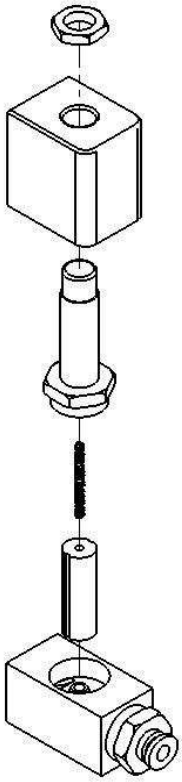
- ***Clean the condenser with a compressed air jet, taking care not to damage the cooling battery aluminium wings.***

- ***At the end of the above mentioned operations, check if the dryer is working properly.***

➔ YEARLY OR EVERY 2000 HOURS OF OPERATION

- ***Check if the flexible tube used for condensate drainage is damaged and replace it if necessary.***
- ***Check if all connecting pipes are properly tightened and fixed.***
- ***At the end of the above mentioned operations, check if the dryer is working properly.***

6.1.1 CLEANING OF THE DRAIN SOLENOID VALVE



1. ***Close the ball valve located on the filter/stop installed at the drain trap inlet.***
2. ***Depressurize the trap by pushing the***  ***button on the control panel.***
3. ***Unscrew the plug in the end of the filter/stop to access the filter screen and clean it with a compressed air jet.***
4. ***Reassemble and open filter/stop valve.***

6.2 TROUBLESHOOTING

Troubleshooting and eventual control and/or maintenance operations must be performed by qualified personnel.

For maintaining the refrigerating circuit of the machine, contact a refrigeration engineer.

TROUBLE	POSSIBLE CAUSE AND REMEDY
▪ Luminous switch / Display of the control panel OFF.	1. Check if the line is electrically powered. 2. Check cabling. 3. Check the electronic control board; if the trouble persists, replace it.
▪ The compressor doesn't start.	1. Check cabling and control. 2. Activation of compressor's internal thermal protection or 1T1 thermal protection; wait one hour and check again. If the fault persists: stop dryer and call a refrigeration engineer. 3. Check the compressor's electrical components. 4. Short circuit in the compressor. Replace it.
▪ The fan doesn't work.	1. Check the protection fuse (if present), and in case replace it. 2. Check cabling. 3. Check the electronic control board; if the trouble persists, replace it. 4. Short circuit in the fan. Replace it.
▪ Condensate drain absent (no water nor air).	1. Check cabling. 2. Pre-filter of the drainage system dirty, clean it. 3. The coil of the drainage solenoid vale is burned out, replace it. 4. Drainage solenoid valve clogged/jammed, clean or replace it. 5. Check the electronic card, if the trouble persists, replace it. 6. The temperature on the display of the control panel is lower then the nominal value, call a refrigeration engineer.
▪ ***Air flows continuously through the condensate drainage***	*1.* ***Drainage solenoid valve jammed, clean or replace it.*** *2.* ***Verify the condensate drainage times.*** *3.* ***Check the electronic control. If the trouble persists, replace it.***
▪ ***Water in the pipes downstream the dryer.***	*1.* ***The dryer is off; turn it on.*** *2.* ***Close by-pass (if present).*** *3.* ***Condensate drainage absent; see specific section.*** *4.* ***The temperature on the control panel display is higher than the nominal value; see specific section.***
▪ ***The temperature on the control panel display is higher than the nominal value.***	*1.* ***Check if the compressed air inlet/outlet is connected properly.*** *2.* ***The compressor doesn't start; see specific section.*** *3.* ***The fan doesn't turn; see specific section.*** *4.* ***The flow rate and/or temperature of the air entering the dryer are higher than the nominal values; restore the nominal conditions.*** *5.* ***The ambient temperature is higher than the nominal values; restore the nominal conditions.*** *6.* ***The condenser is dirty; clean it.*** *7.* ***Condensate drain absent (no water nor air); see specific section.*** *8.* ***Check if the temperature control probe in the evaporator is positioned improperly or faulty.*** *9.* ***Gas leakage in the refrigerating circuit: stop dryer and call a refrigeration engineer.*** *10.* ***Check cabling.***

- ***The dryer does not let compressed air flow through.***

1. ***Check if the compressed air inlet/outlet is connected properly.***
2. ***The temperature on the control panel display is lower than the nominal value; call a refrigeration engineer.***
3. ***Check if the temperature control probe in the evaporator is positioned improperly or faulty.***
4. ***Check if the connecting tubing are clogged; eventually proceed accordingly.***
5. ***Check if by-pass (if present) is installed properly.***
6. ***Check electronic control board. If the trouble persists, replace it.***

IMPORTANT:

1-The temperature control probe is extremely delicate. Do not remove the probe from its position. In case of any kind of problem, please contact your "Service Centre"

6.3 DISMANTLING OF THE DRYER

If the dryer is to be dismantled, it has to be split into homogeneous groups of materials.

Part	**Material**
Refrigerant fluid	R134.a,R407C – HFC, Oil
Canopy and Supports	Carbon steel, Epoxy paint
Refrigeration Compressor	Steel, Copper, Aluminium, Oil
Aluminium heat exchanger	Aluminium
Condenser Unit	Aluminium, Copper, Carbon steel
Pipe	Copper
Fan	Aluminium, Copper, Steel
Valve	Brass, Steel
Electronic Level Drain	PVC, Aluminium, Steel
Insulation Material	Synthetic gum without CFC, Polystyrene, Polyurethane
Electric cable	Copper, PVC
Electric Parts	PVC, Copper, Brass

We recommend to comply with the safety rules in force for the disposal of each type of material. The chilling fluid contains droplets of lubrication oil released by the refrigerating compressor. Do not dispose this fluid in the environment. Is has to be discharged from the dryer with a suitable device and then delivered to a collection centre where it will be processed to make it reusable.

LIST OF ATTACHMENTS

Dryers Air flow rate	AERODry PRO	700	1000	1500	2000	2500	3200	4000	6000	8000
Air flow rate	Nl/min scfm	700	1000	1500	2000	2500	3200	4000	6000	8000
Air connections	BSP-F	G 3/4"			G 3/4"			G 1"	G 1.1/2"	
Refrigerant		R.134a							R.407C	
Fan motor working	barg	Running 11 / Stop 8							Running 20 / Stop 16	
Weight	kg	23		26		37			40	47	90	95
Air inlet temperature	°C	45º (Max 55º)								
Ambient temperature	°C	35º (Max 45º)								
Working pressure	barg	7 (Max 16)								
Pressure dew point	°C	3º (Max 10º)								

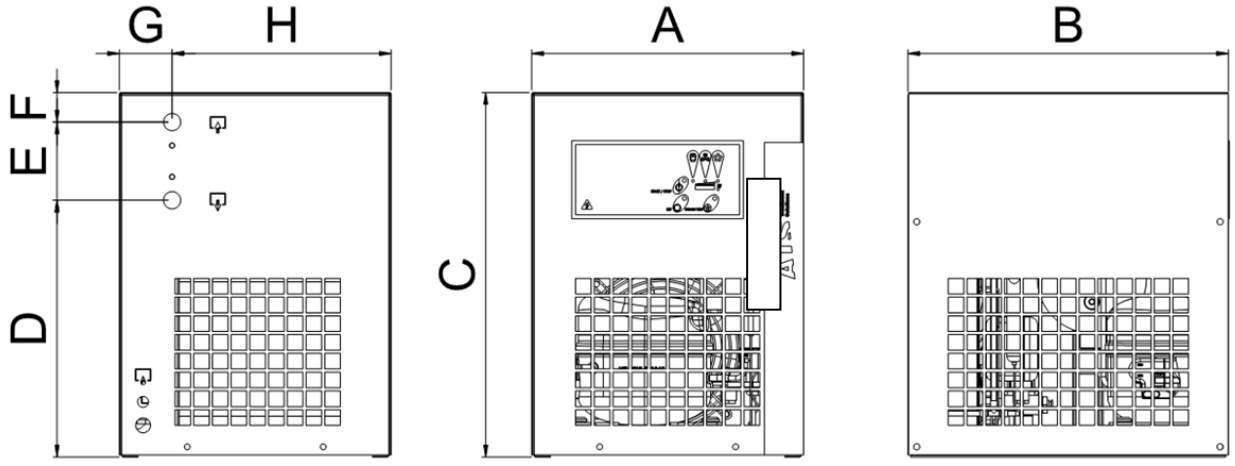
Power supply	V/Ph/Hz	230/1/50-60								
Nominal consumption	k	0.175	0.175	0.22	0.22	0.32	0.32	0.32	0.73	0.73
Nominal current	A	1.15	1.15	1.00	1.00	1.45	1.45	2.86	3.30	3.30
Full load current	A	1.38	1.38	1.32	1.32	1.66	1.66	3.35	3.80	3.80
Locked rotor current	A	8	8	4	9	5.6	5.6	15	17	17

B. LEGEND

1A1	Electronical controller	
1M1	Refrigerant compressor	
1M2	Fan motor	
1R1	NTC probe L=0.8m	
1R2	NTC probe L=2.5m	
CND	Condenser	
FF	Filter dryer	
SC	Aluminium heat-exchanger	
	SC / AA	Aluminium exchanger air - air
	SC / AR	Aluminium exchanger air - refrigerant
	SC / MC	Mixing chamber
VB	By-pass valve	
TS	Thermal switch	
1B1	Coil drain valve	
RBF	Filter	
1V1	Solenoid valve	
CT	Capillary tube	

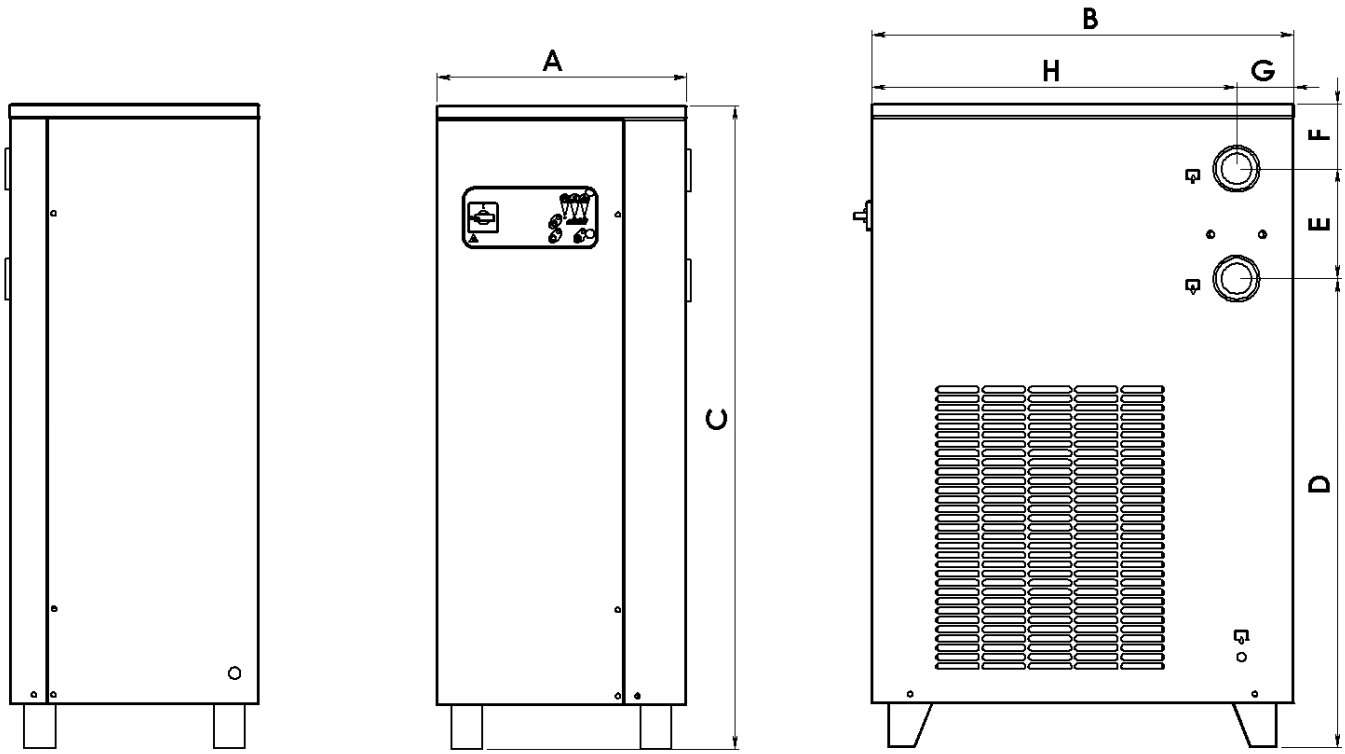
D. DRYER DIMENSIONS

AERODry PRO



MODEL	A	B	C	D	E	F	G	H	&		
AERODry PRO	mm	mm	mm	mm	mm	mm	mm	mm	inch	mm	V/ph/Hz
700+1000	305	373	440	340	65	35	45	262	BSP 3/4"	D.6	230/1/50-60
PRO 1500-2000	345	409	480	344	100	37	67	277	BSP 3/4"		
PRO 2500-3200	396	462	536	363	100	73	68	328	BSP 3/4"		
PRO 4000	397	462	536	939	100	43	64	33	BSP 1"		
PRO 5500	357	542	1015	833	110	72	279	78	BSP 1 ½"		

AERODry PRO



BACK VIEW | FRONT VIEW | SIDE VIEW

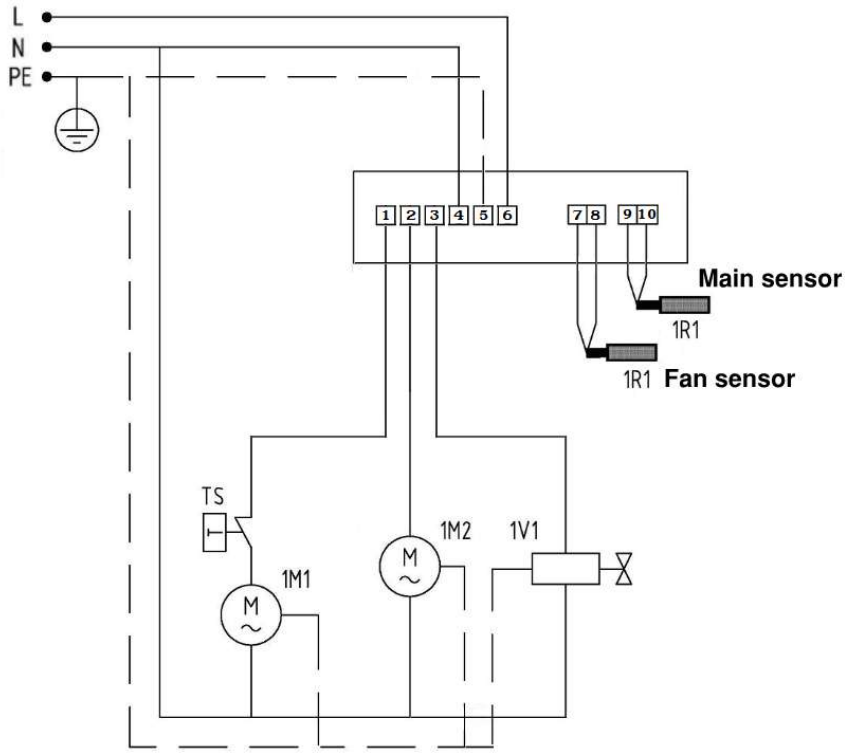
MODEL	A	B	C	D	E	F	G	H	&		
	mm	mm	mm	mm	mm	mm	mm	mm	inch	mm	V/ph/Hz
AERODry PRO / AERODry 6100-8000	405	685	1045	761	178	106	93	592	BSP 1 ½"	D.6	230/1/50-60

WIRING DIAGRAMS

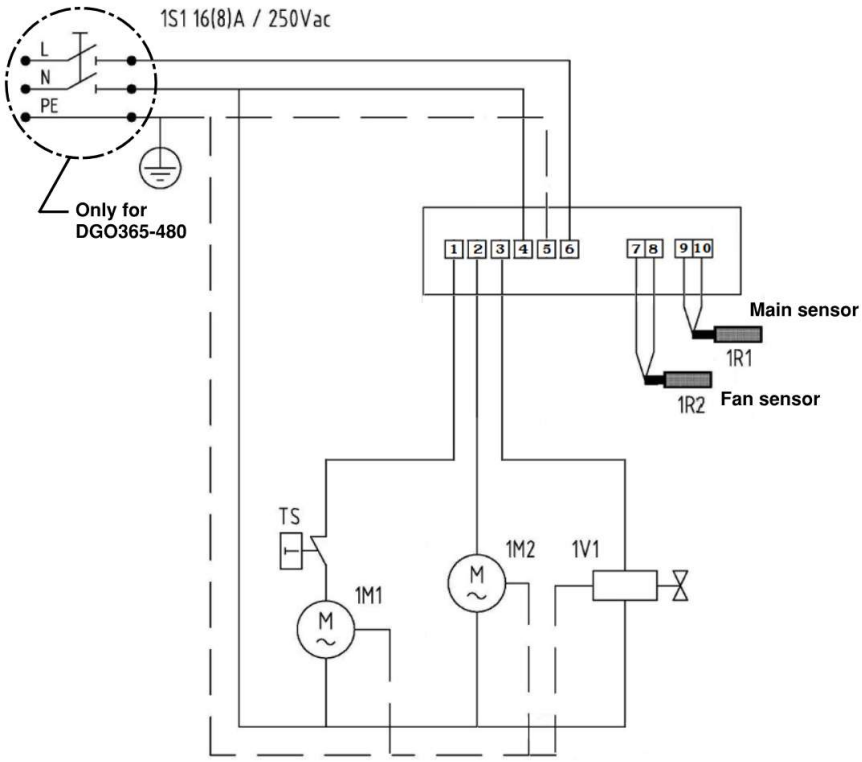
AERODry PRO 1000-4000

DOUBLE PROBE VERSION

C.

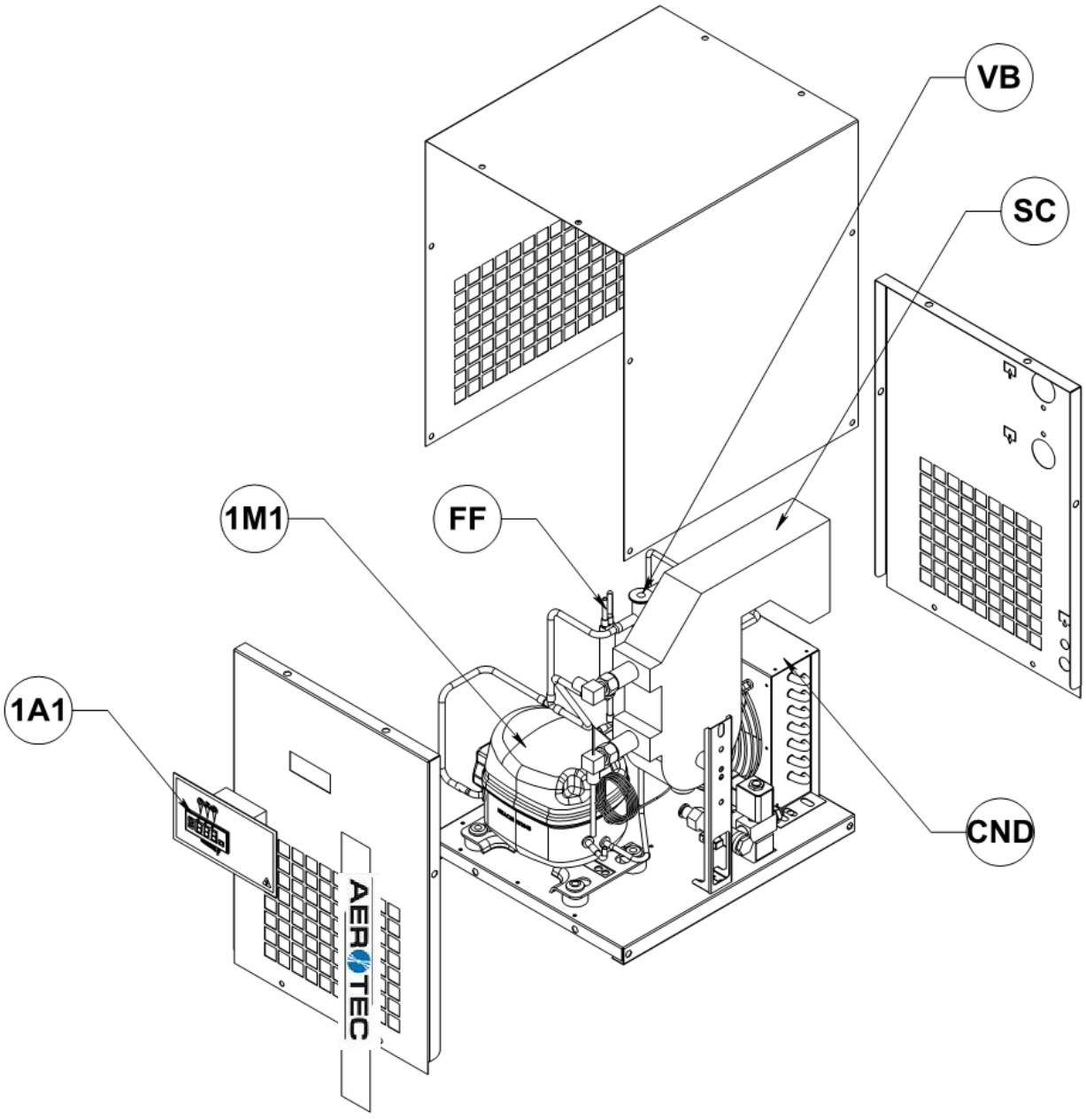


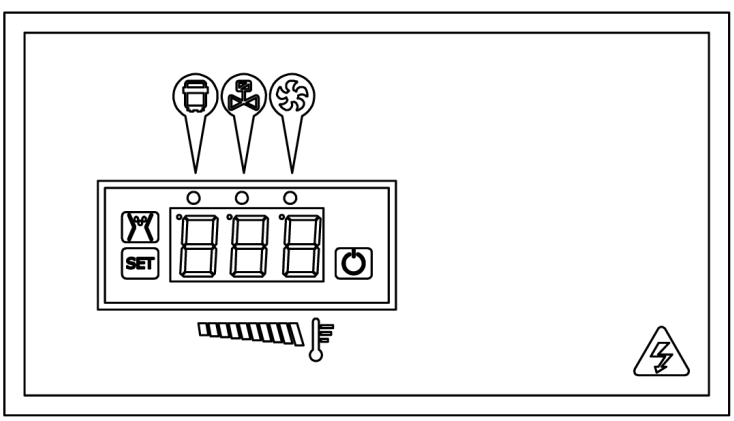
AERODry PRO 6100-8000

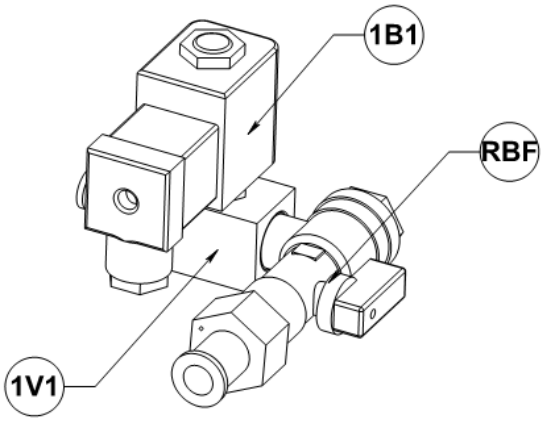


D. EXPLODED VIEW

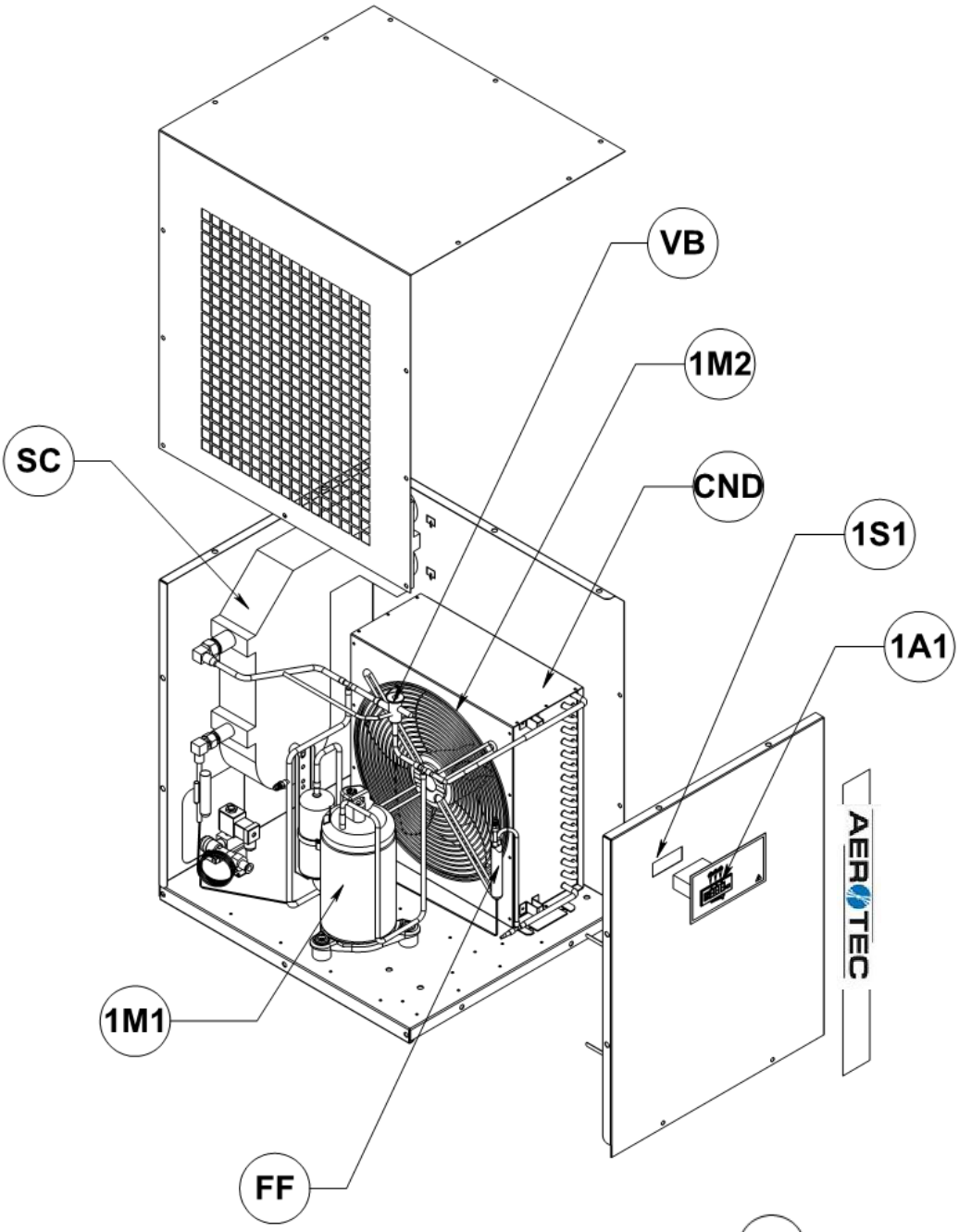
AERODry PRO 700-4000

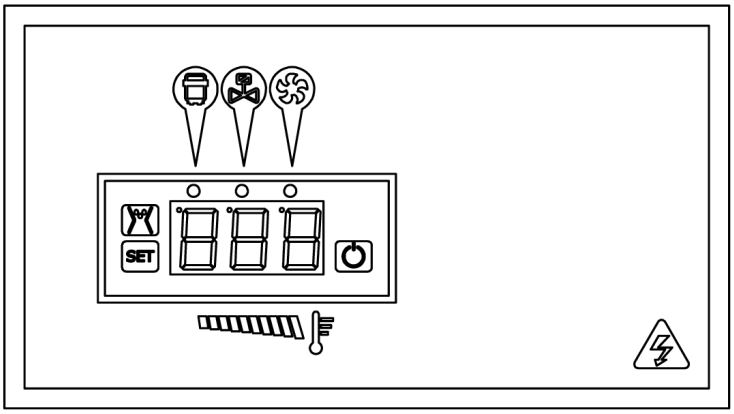


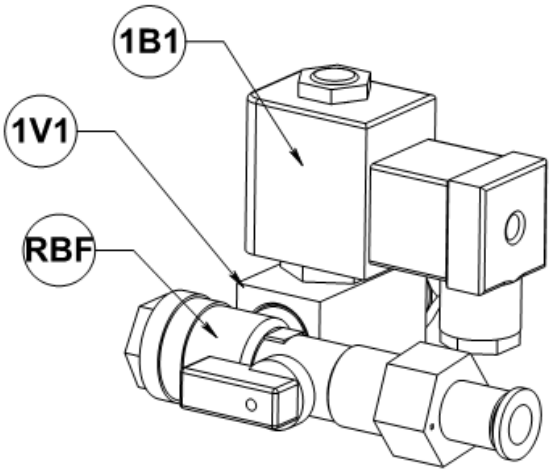




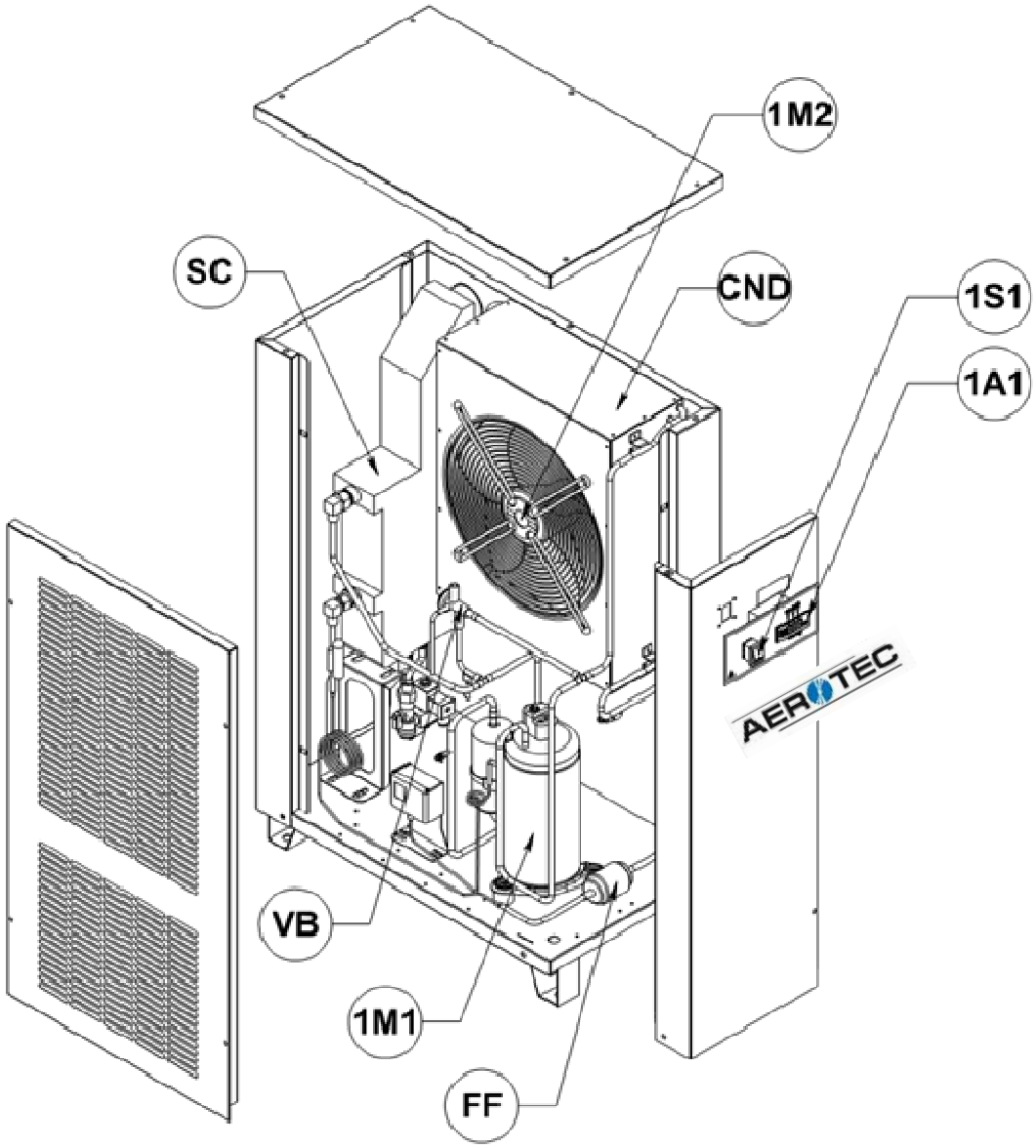
AERODry PRO 5500







AERODry PRO 6000-8000



E. SUGGESTED SPARE PARTS

The suggested spare parts list will enable you to promptly intervene in case of abnormal operation, so avoiding to wait for the spares delivery. In case of failure of other parts, for example inside the refrigerating circuit, the replacement must mandatory be worked out by a refrigerating systems specialist or in our factory.

	DESCRIPTION OF THE SPARE PARTS	CODE	30	42	60	90	120	150	192	240	330
1A1	Electronic controller	305.0EB.00004	1♦	1♦	1♦	1♦	1♦	1♦	1♦	1♦	1♦
1R1	NTC probe L=0.8m	243.0080.00.00-00	2♦	2♦	2♦	2♦	2♦	2♦	2♦	2♦	1♦
1R2	NTC probe L=2.5m	243.0250.00.00-00									1♦
VB	By pass valve	142.2950.00.00-00	1	1	1	1	1	1	1	1	
		142.4536.00.00-00									1
1B1	Coil CS728 220-240V 50/60 Hz	240.T100.01.00-00	1♦	1♦	1♦	1♦	1♦	1♦	1♦	1♦	1♦
1V1	Solenoid CS728 Conn 1/2"	240.T100.02.00-00	1♦	1♦	1♦	1♦	1♦	1♦	1♦	1♦	1♦
RBF	Strainer CS728 Conn1/2",6	240.T100.03.00-00	1	1	1	1	1	1	1	1	1
1M2	Fan motor	210.0130.00.00-00	1	1	1	1	1				
		210.0131.00.00-00						1			
		210.0132.00.00-00							1	1	
	Fan blade	213.0061.00.00-00	1	1	1	1	1				
		213.0062.00.00-00						1			
		213.0063.00.00-00							1	1	
	Fan grid	213.0065.00.00-00	1	1	1	1	1				
		213.0066.00.00-00						1			
		213.0067.00.00-00							1	1	
	Fan motor unit	210.D350.02.B0-00									1
FF	Dehydration filter	630.0049.00.00-00	1	1	1	1	1	1	1		
		630.0050.00.00-00								1	1
		630.0075.00.00-00									
CND	Condenser	921.0020.D0.00-BOI	1	1							
		921.0035.D0.00-BOI			1	1					
		921.0108.D0.00-BOI					1	1			
		921.0150.D0.00-BOI							1		
		921.0195.D0.00-BOI								1	
		921.0013.01.00-03									1
1M1	Refrigerant compressor	201.0108.00.00-00	1	1							
		201.0110.00.00-00			1	1					
		201.0111.00.00-00					1				
		201.0110.00.00-CH						1	1		
		201.T135.VH.SM-T								1	1
SC	Aluminium heat exchanger	920.5088.00.00-T	1	1	1						
		920.5105.00.00-T				1	1				
		920.5089.00.00-T						1	1		
		920.5161.00.00-T								1	
		920.5090.00.00-T									1
TH	Safety Thermostat	242.0075.00.00-00	1	1	1	1	1	1	1	1	1

♦ ***Suggested spare part.***

NOTE : To order the suggested spare parts or any other part, it's necessary to quote the data reported on the identification plate.