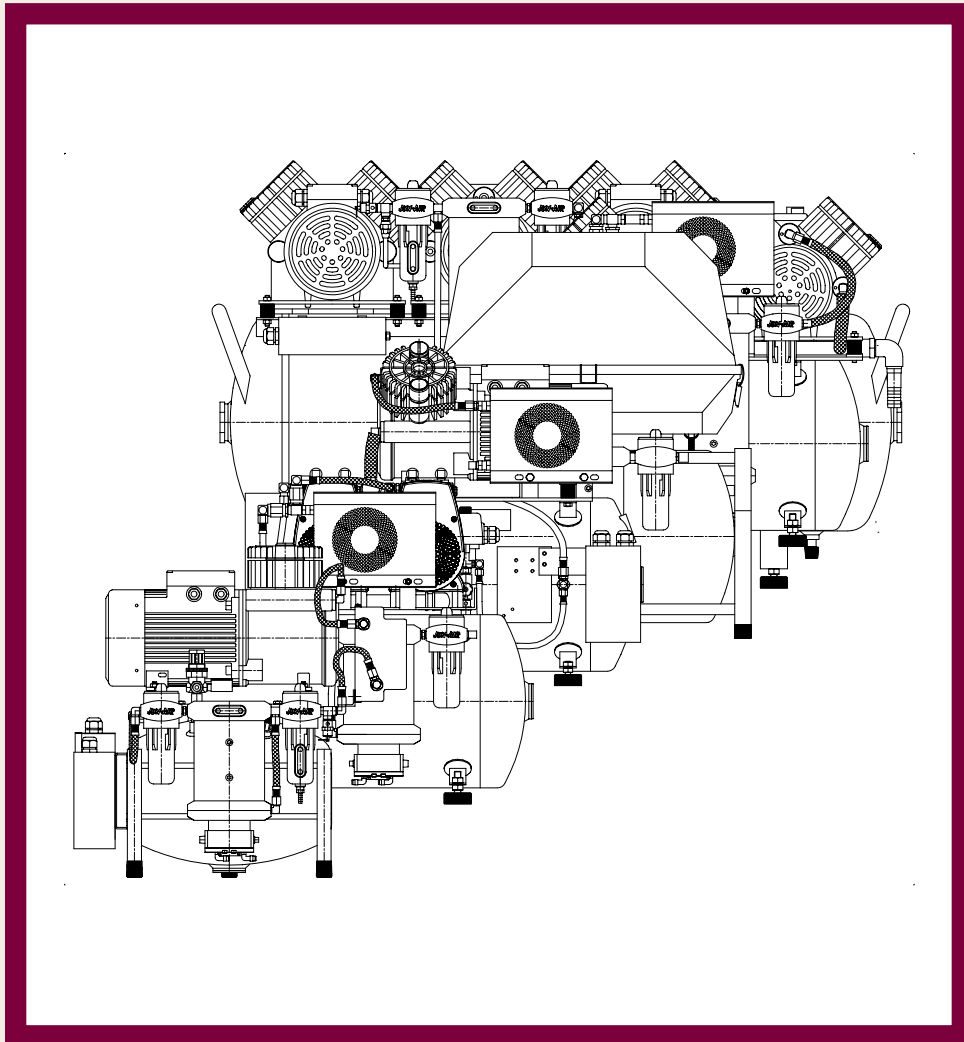


# **LubeFree Compressors**

## **800 Series**



**Installation, Operation and Care Manual**

## **Low voltage box**

The low voltage relay box also called the control box is already installed on this compressor. The purpose of the control box is for the end use to install all remotely Master Control Panel (24 Volt operated) that can control the air from one location. By means of ONE switch the compressor can be turned off in the dental office instead of going to the utility room. By having the control box/low voltage relay installed on the compressor, you have all that is required for any future additions.

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This manual contains installation, operation and care instructions and user service information for the CustomAir® 800 Series Compressors.

The LubeFree 800 Series Compressors are designed to provide trouble-free service when installed, operated and cared for according to the procedures set forth in this manual.

## Specifications

**NOTE:** *The dimensions for each model are illustrated on Pages 3 through 10.*

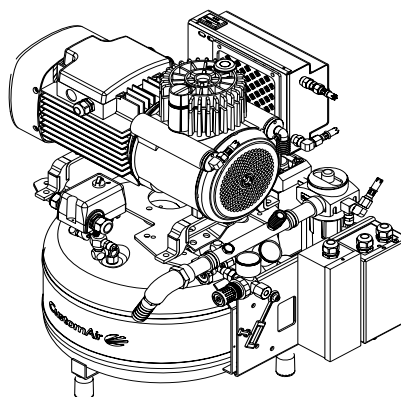
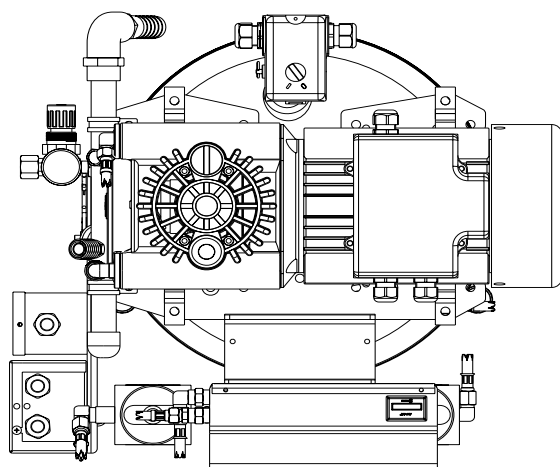
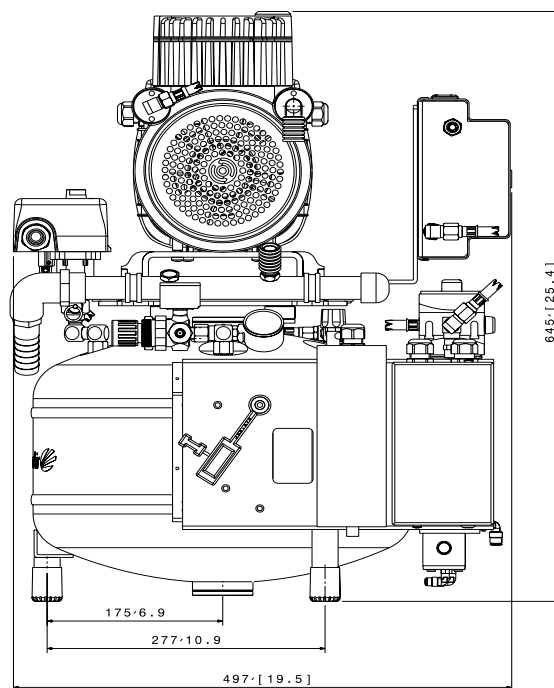
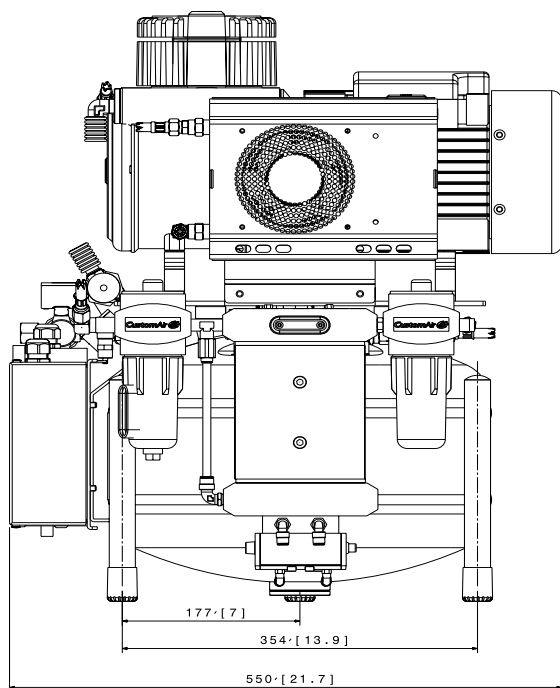
**NOTE:** *The pressure dew point for all 800 series units is -40° C/-40°F.*

Model	CA-812	CA-822	CA-813D	CA-823D	CA-825
Users (max.)	2	2	3	3	5
Voltage (V/Hz)	120/60	230/60	120/60	230/60	230/60
Power (amps.)	9.75	5.4	15.0	8.2	8.3
Weight: (kg.) (lbs.)	49 108	49 108	43 95	43 95	61 134
Dimensions: (mm) LxWxH (in.)	522x478x619 20.5x18.8x24.4	522x478x619 20.5x18.8x24.4	603x533x632 23.8x21x24.9	603x533x632 23.8x21x24.9	535x496x663 21.1x19.5x26.1
Noise level (db)	72	72	69	69	74
Pump Time (sec.) 0-120 psi	210	210	190	190	160

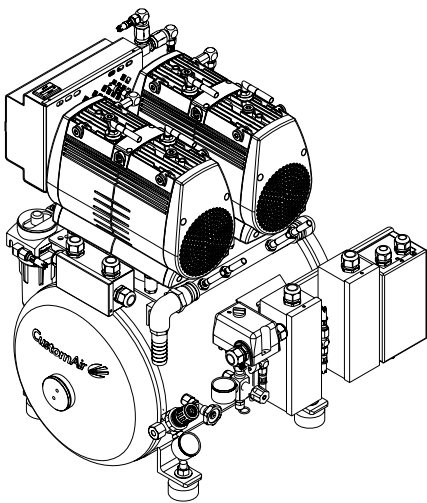
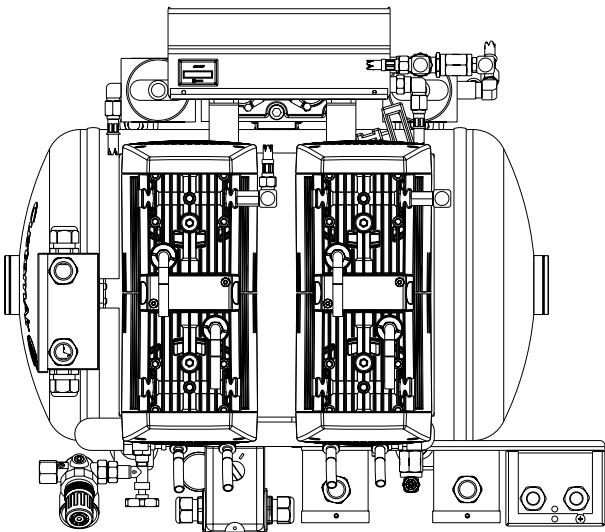
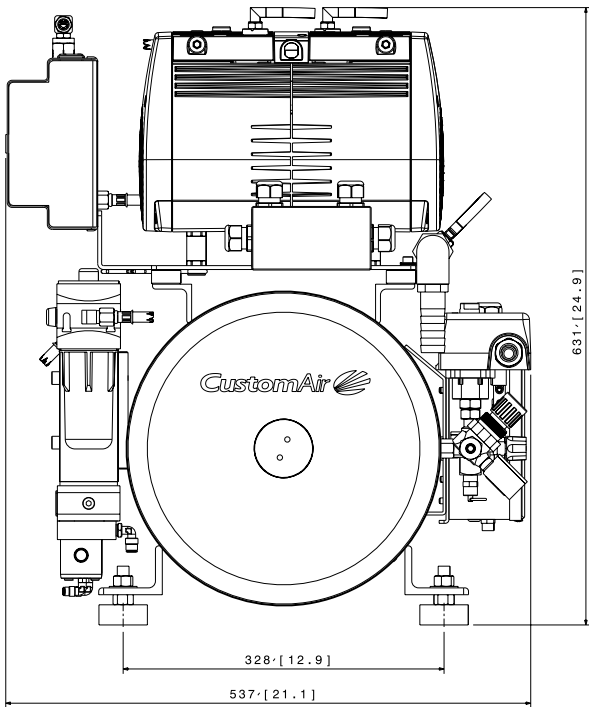
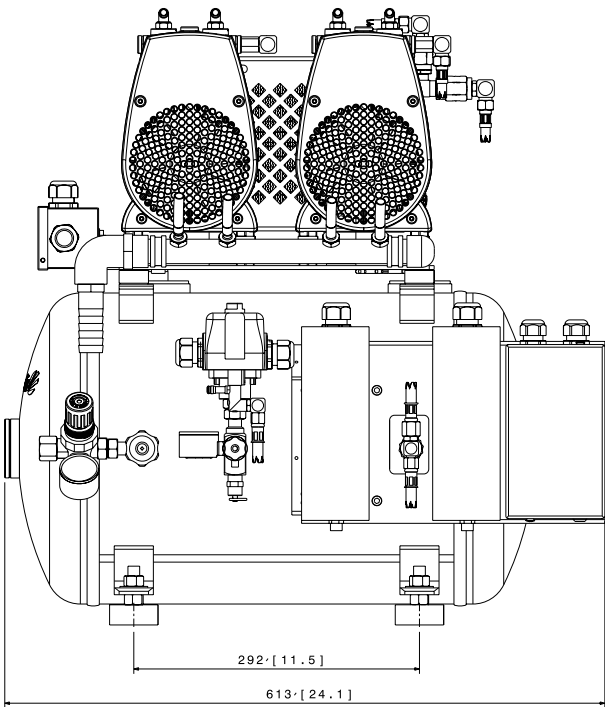
Model	CA-825D	CA-827D	CA-829D	CA-8212T
Users (max.)	5	7	9	12
Voltage (V/Hz)	230/60	230/60	230/60	230/60
Power (amps.)	10.8	13.4	16.2	24.9
Weight: (kg.) (lbs.)	79 174	91 201	97 214	167 368
Dimensions: (mm) LxWxH (in.)	709x562x652 27.9x22.1x25.7	709x582x652 27.9x22.9x25.7	710x551x644 27.9x21.7x25.4	1288x637x788 50.7x25.1x31
Noise level (db)	74	75	75	77
Pump Time (sec.) 0-120 psi	160	105	80	190

**NOTE:** Pump Time plus/minus 10%. Average at 20°C/68°F motor start temperature

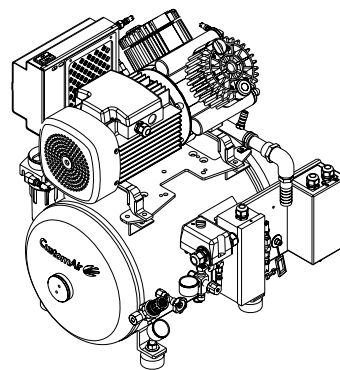
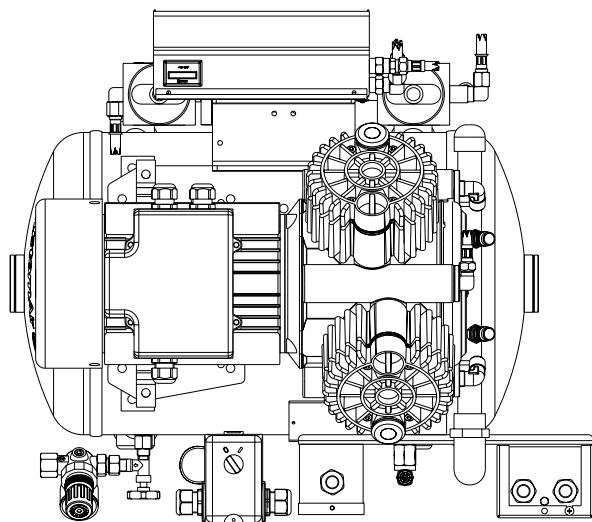
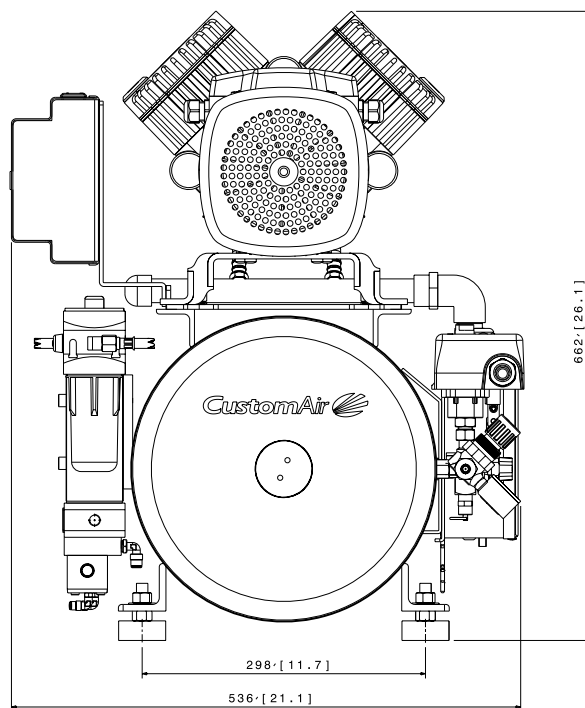
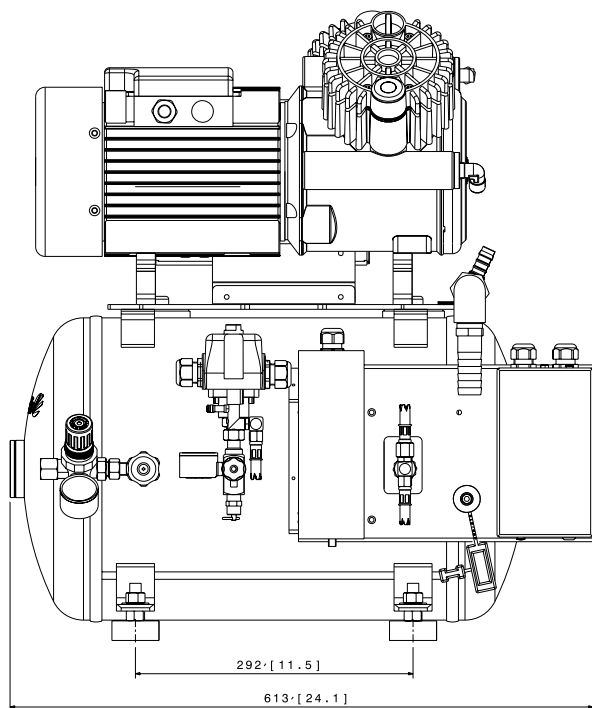
## Model CA-812 / CA-822



Model CA-813D / CA-823D

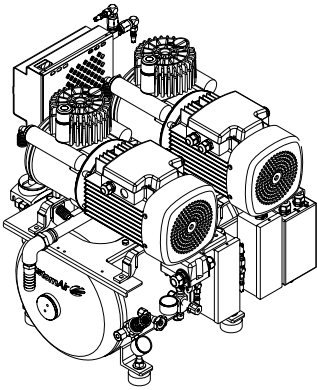
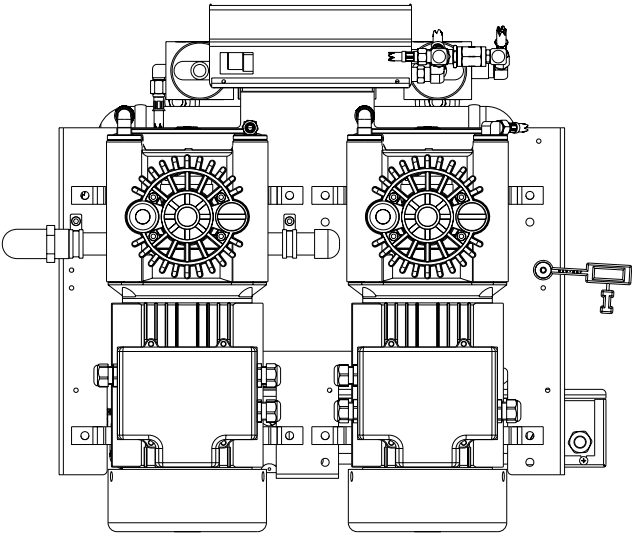
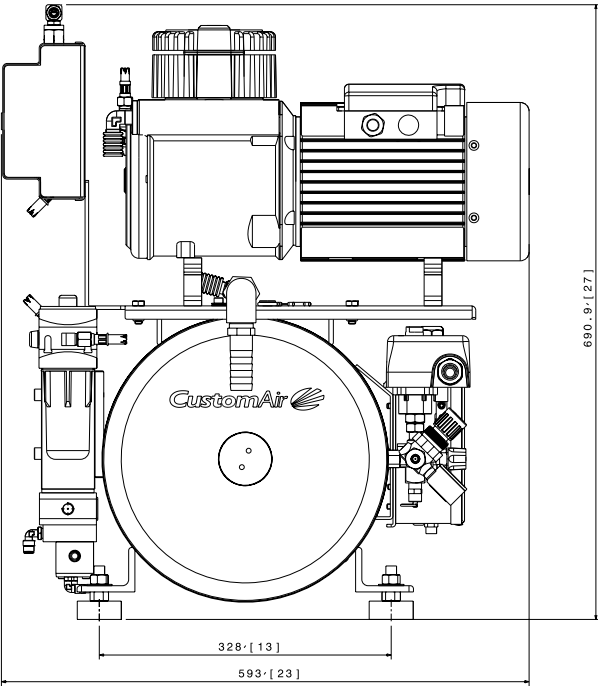
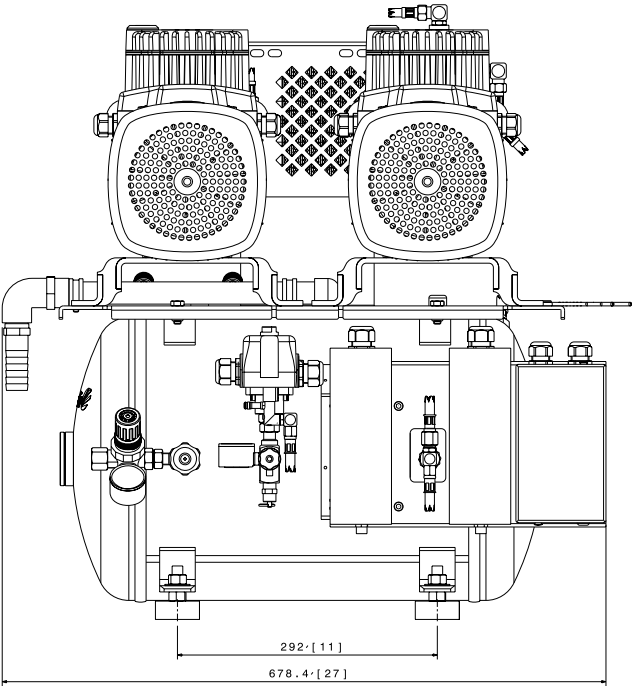


## Model CA-825

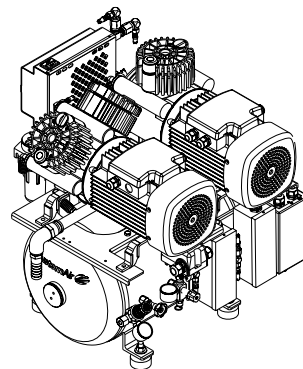
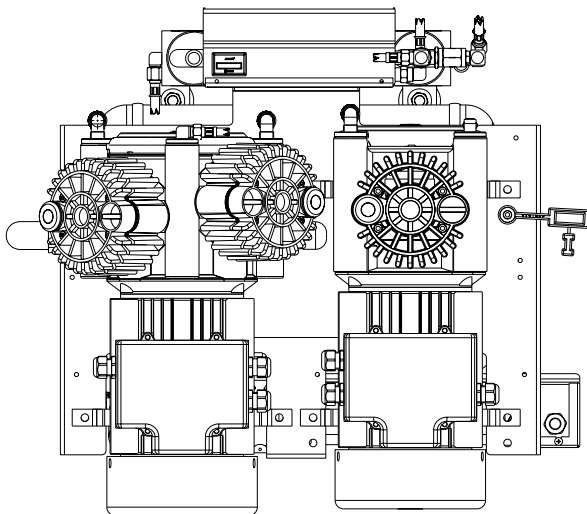
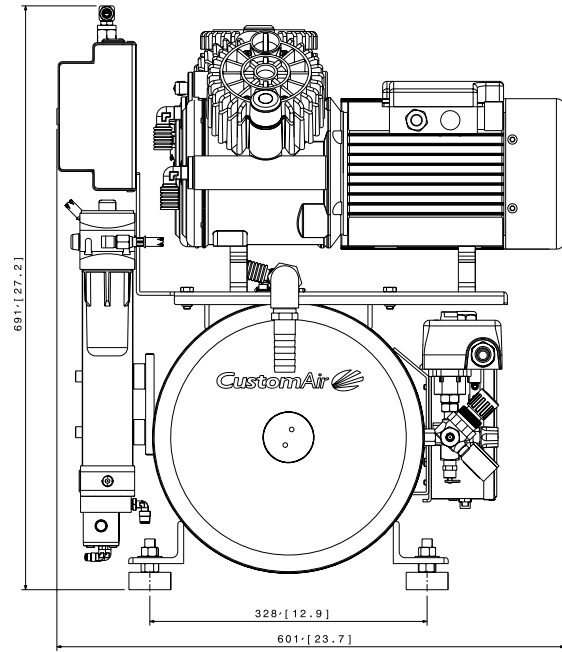
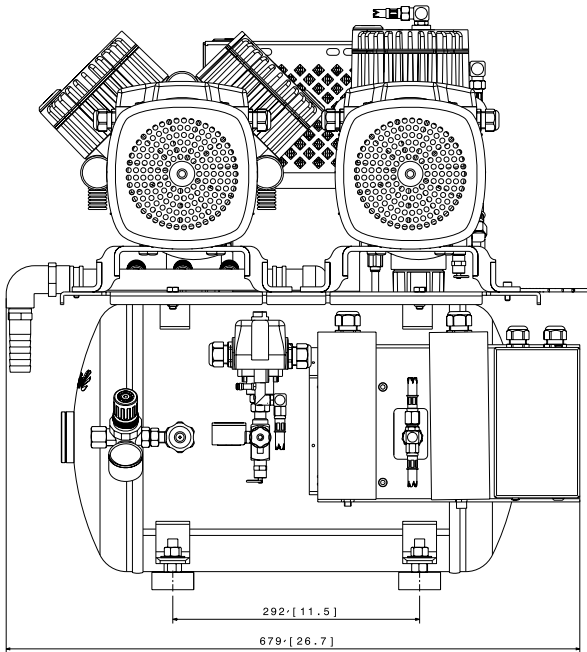




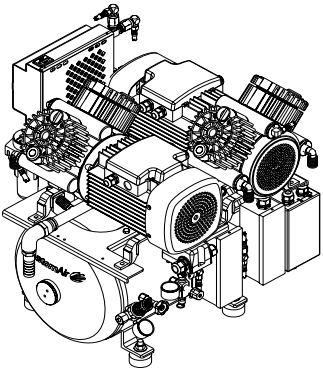
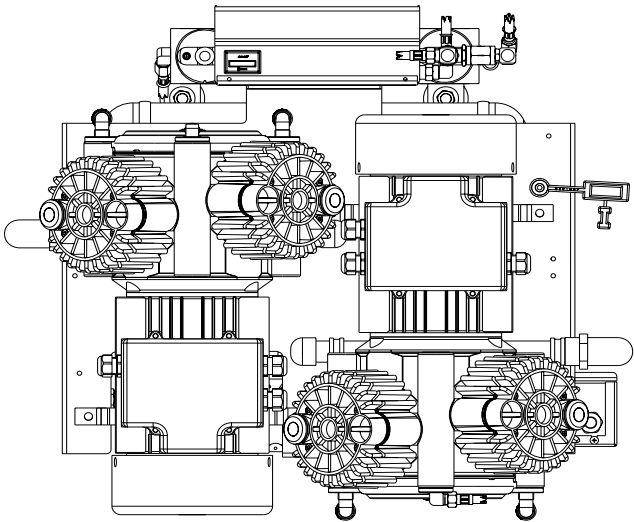
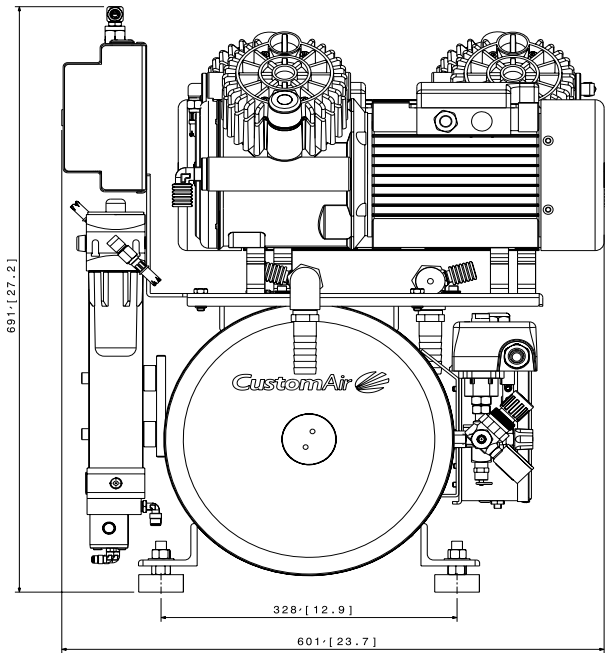
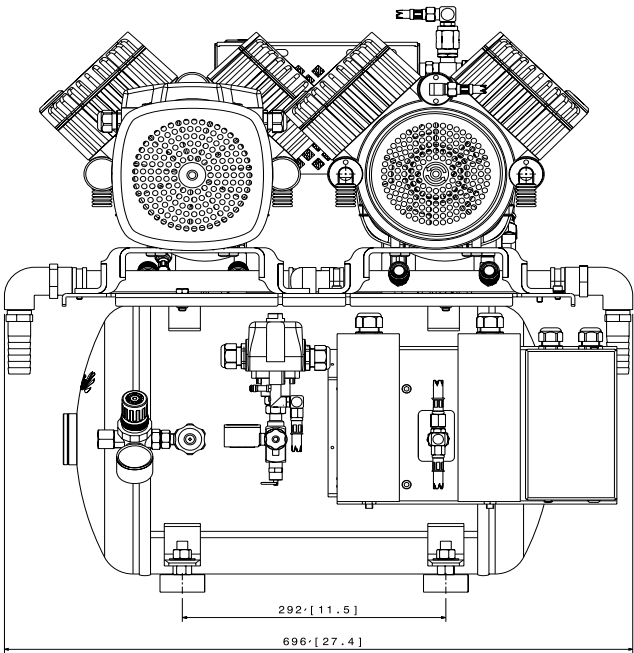
Model CA-825D



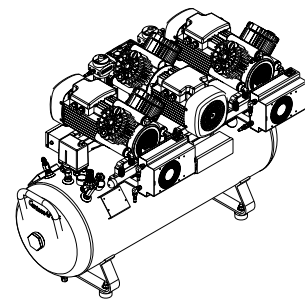
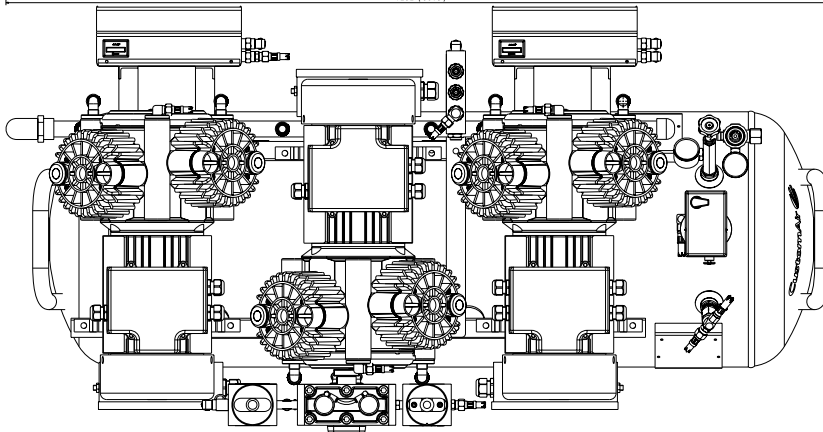
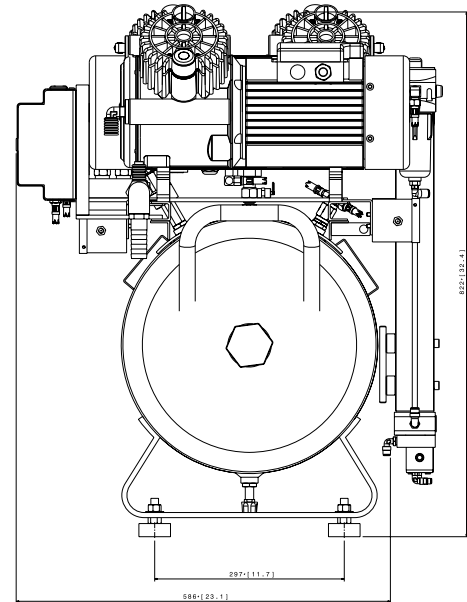
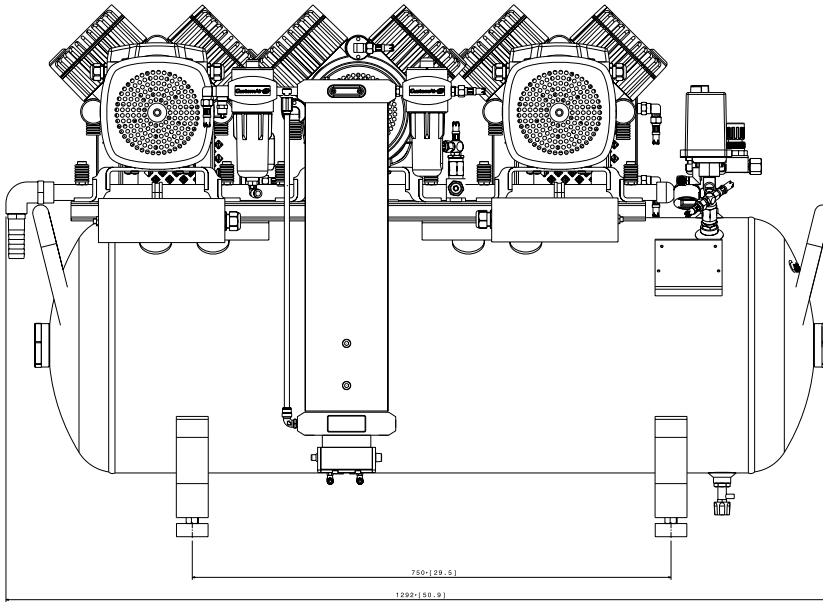
## Model CA-827D



Model CA-829D



## Model CA-8212T



### Unpacking

1. Carefully remove the compressor from its shipping carton.
2. Visually inspect the unit for shipping damage. Contact the freight carrier and supplier immediately if the unit has shipping damage. (See *Product Support Services*, Page 40.)

### Placement

1. Place the compressor in a dust-free, dry, cool and frost-free room.

#### — CAUTION —

The compressor is for **indoor use only** --  
**NOT FOR OUTDOOR USE!**

2. **Do not** install the compressor in a closed cupboard, unless adequate openings for ventilation are available at the top and bottom of the unit (*minimum 500 cm<sup>2</sup>/77.5 in<sup>2</sup> each*). And remote air intake is connected to ambient air source.

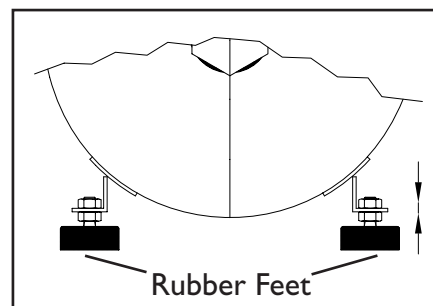
#### — WARNING —

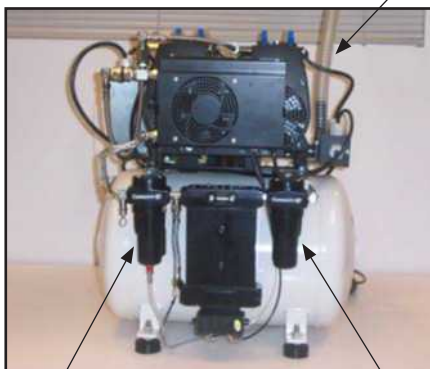
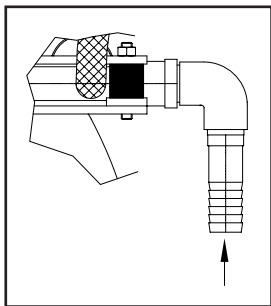
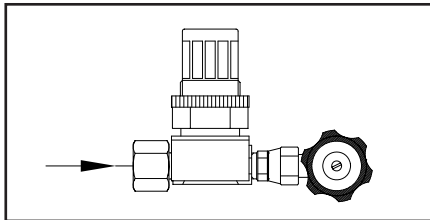
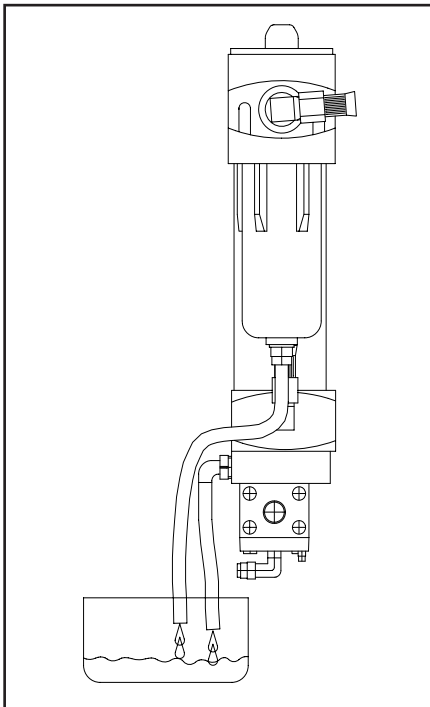
When spraying flammable liquid, there may be **danger of fire or explosion**, especially in closed rooms.

3. Models CA-813D, CA-823D, CA-825, CA-825D, CA-827D, CA-829D and CA-8212T have four adjustable rubber feet to assure the unit stands firmly on the floor. (See *illustration at left*.)

#### — WARNING —

Place the compressor out of children's reach and **never leave children unattended** when the compressor is in use.





Moisture Drain Tube  
Dual Column Desiccant Dryer with Coalescing Filters and moisture

## Unit Connections

The following information will assist in making a quick, easy and quality installation. However, if there are any questions, contact a CustomAir technical service representative at 1-866-DTE-INFO (1-866-383-4636).

### — WARNING —

Unless directions are followed and the original spare parts used, physical injury or property damage may result.

1. Lead the hoses from the filter and dryer to an outlet or a bottle to collect possible water.
2. Make sure the operating voltage of the compressor corresponds to the voltage of the socket. (*Refer to Specifications, Page 2.*)

### — CAUTION —

Only connect the compressor to installations with the correct voltage stated on the motor plate

3. Connect the plug and cable and make sure the circuit is properly protected. (*See Grounding Instructions, Page 13.*)

**IMPORTANT NOTE:** *The air consumption of the equipment used with the compressor **must** be sized properly to the compressor/number of users.*

### — CAUTION —

Only connect equipment suitable for the maximum pressure stated on the tank pressure gauge.

4. Connect the pressure hose to the regulator.
5. Connect the remote air intake on the connecting piece on the intake to an ambient air source.

### — NOTICE —

When using the compressor in connection with vital equipment, an alternative air source should be available in case of a defect in the compressor.

### Grounding Instructions

#### — WARNING —

Risk of electric shock could occur as a result of improper grounding plug installation.

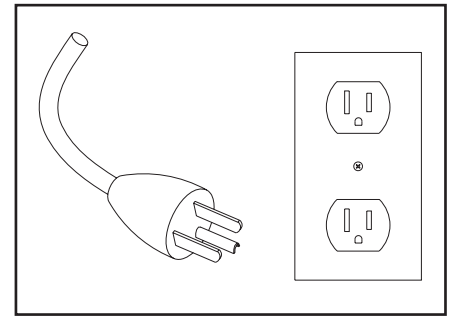
To reduce the risk of electric shock, this product **must** be grounded. In the event of an electrical short circuit, grounding provides an escape wire for the electric current.

This product is equipped with a cord having a grounding wire with an appropriate grounding plug. *The wire with insulation having a green or green with yellow stripes outer surface is the grounding wire.*

1. The plug **must** be plugged into a properly installed and grounded outlet, which is in accordance with all local codes and ordinances.
2. If the plug provided does not fit the outlet, **do not** modify it in any way. Have a qualified electrician install the proper outlet.
3. If repair or replacement of the cord or plug is necessary, **do not** connect the grounding wire to either flat blade terminal.
4. Check with a qualified electrician or serviceman if the grounding instructions are not completely understood, or if there is any doubt whether the product is properly grounded.

### For Grounded, Cord-Connected Products:

- Rated less than 15 amps and intended for use on a nominal 120V supply circuit:
  - a. This product has a grounding plug like the one depicted in the illustration on the left.
  - b. Make sure the product is connected to an outlet having the same configuration as the plug and no adapter should be used.
- Intended for use on a circuit having a nominal rating of more than 120V:
  - a. This product is factory-equipped with a specific electric cord and plug, which allows connection to a proper electric circuit.
  - b. If reconnecting on a different type of electric circuit, reconnection should be made by qualified service personnel.
  - c. Make sure the product is connected to an outlet having the same configuration as the plug and no adapter should be used.



**Extension Cords (120V Units)**

The use of an extension cord is **not advisable**. But if one must be used, it should meet the following recommendations:

- ✓ Use only a 3-wire extension cord having a 3-blade grounding plug and a 3-slot receptacle that will accept the plug on the product.
- ✓ Use an extension cord that is in good condition and heavy enough to carry the current the product will draw.
- ✓ For lengths less than 25 feet, No. 14 AWG extension cords should be used.

**— CAUTION —**

An undersized extension cord will cause a drop in line voltage and loss of power and overheating will result.

- ✓ If in doubt, use the next heavier gauge. *The smaller the gauge number - the heavier the cord.*



### General Operation

The oil-less 800 Series Compressor is very easy to operate and maintain. Observe the following simple operating instructions and the compressor will provide clean, high-quality air.

#### — WARNING —

Do not direct any air flow towards the body.

#### — CAUTION —

- Do not operate the compressor at ambient temperatures above 35°C/95°F or below 0°C/32°F.
- Always keep the compressor head in a vertical position during use and transportation.
- The compressor is designed for maximum operation at 120 psig. Do not adjust the pressure switch at a higher pressure.

1. Make sure the compressor is plugged into an appropriate outlet and is properly grounded. (See *Grounding Instructions*, Page 13.)
2. Turn the compressor **on** at the pressure switch.

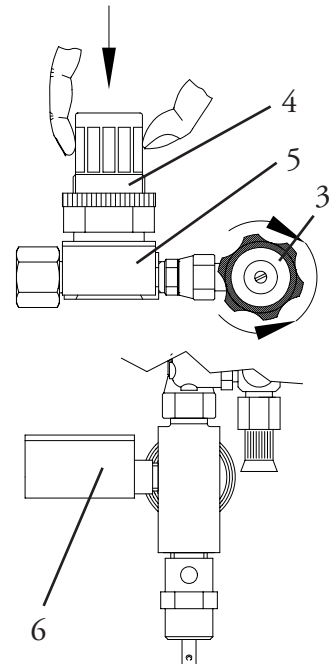
#### — NOTICE —

If the compressor does not turn on, see the Troubleshooting Chart on Pages 22.

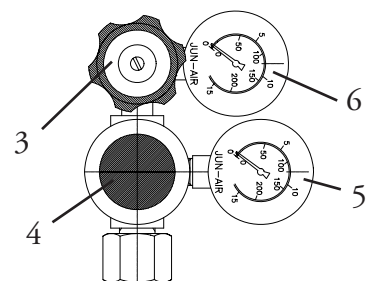
**NOTE:** When the compressor is powered, ventilation will automatically follow and the compressor will automatically operate between 90-120 psig.

3. Turn the outlet cock **counterclockwise** to open.
4. To ensure a constant outlet pressure, adjust the regulator to the correct pressure. Then press the regulating button **down** to lock the regulator.
5. Read the pressure on the outlet gauge.
6. Read the pressure on the air receiver gauge.

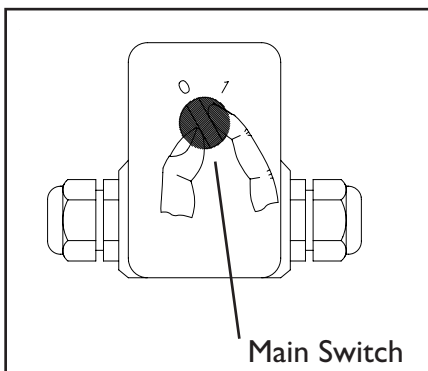
For Models:  
CA-813D/CA-823D/  
CA-825/CA-825D/  
CA-827D/CA-829D



For Models:  
CA-812/CA-822/CA-8212T



Pressure Regulator  
with Gauge



### — CAUTION —

Do not adjust the pressure switch to a higher pressure than the factory-set pressure. (8 bar/120 psig)

7. Turn the compressor **on** at the main switch.
8. Turn the button on the main switch to position 1. *This is normally factory pre-set.*

### Automatic Reset Protector

The unit is equipped with a thermal protector that cuts off the compressor motor if the temperature is too high or the amps drawn by the unit exceeds a certain limit. The protector has an automatic reset. When the temperature of the motor drops under the cut-in value of the protector, the motor will automatically start operating.

### — NOTICE —

If you need more information, contact DentalEZ Technical Service at 1-866-DTE-INFO.

## Maintenance Schedule

An hour meter is installed on the compressor. After one month of operation, observe the number of hours to determine the appropriate maintenance intervals for the activities listed in the chart below.

**IMPORTANT NOTE:** *In case of extreme operating conditions, e.g. dusty surroundings and/or high ambient temperature, the intervals indicated in the chart are reduced.*

Activity	Interval
Clean compressor. (Pg. 17).....	100 hrs.
Inspect dryer (Pg. 18).....	1000 hrs.
Check for leaks. (Pg. 18) .....	1000 hrs.
Test safety valves. (Pg. 19) .....	1000 hrs.
Replace intake filter(s).* (Pg. 19).....	2000 hrs.
Replace dryer filter.** (Pg. 20).....	1000 hrs.
Clean non-return valve. (Pg. 20).....	Periodically
* In case the compressor is installed in a very dusty environment, the intake filter should be changed at least every 12 months regardless of the hours of operation.	
** If the environment is contaminated intervals for changing the dryer filter should be at least every 12 months regardless of the hours of operation.	

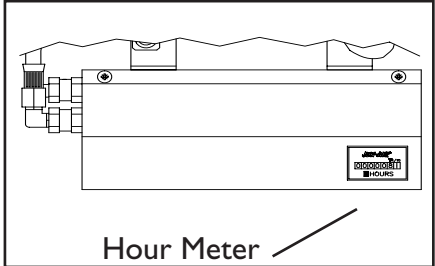
### — NOTICE —

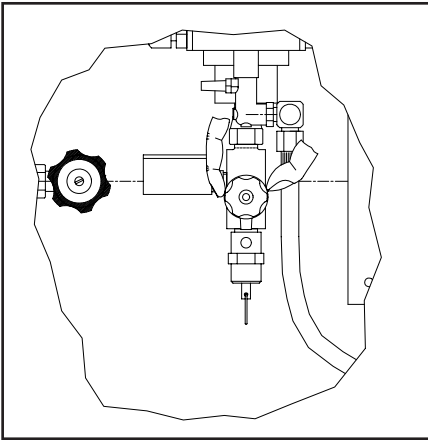
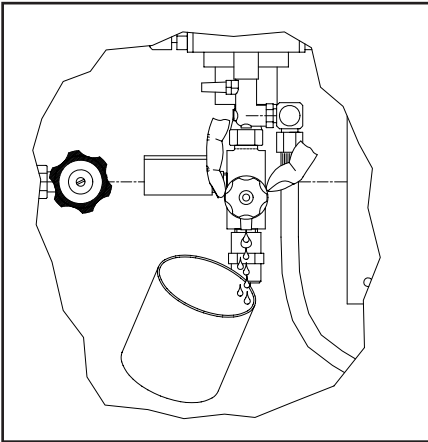
Maintenance kits are available. Contact DentalEZ Customer Service at 1-866-DTE-INFO.

## Cleaning Compressor

After approximately every 100 hours of operation, remove dust and any residue from the exterior of the compressor.

**IMPORTANT NOTE:** *DO NOT USE HARSH CHEMICALS.*





## Inspecting Dryer

Inspect the dryer every 1000 hours.

1. Operate the compressor until the pressure of the tank reaches at least 45 psig. *Read the pressure of the tank on the gauge.*
2. Turn the compressor **OFF** at the main switch and pull out the electrical plug.
3. Hold a cup under the drain cock and carefully open the cock.
4. If water leaks from the tank when the drain cock is open, the dryer is not working. See "Fault finding and repair" in the *Dryer Manual* or contact DentalEZ Technical Service at 1-866-DTE-INFO.

## Checking for Leaks

Check the compressor for leaks every 1000 hours.

### — IMPORTANT NOTE —

Always test the compressor when cold because the pumping time indicated refers to a cold compressor. Since the pumping time of a warm compressor is much longer, the result might be misleading.

1. Turn the compressor **OFF** at the main switch and pull out the electrical plug.
2. Open the drain cock and let the pressure drop to 0 psig. *Read the pressure of the tank on the gauge.*
3. Close the drain cock.
4. Disconnect air tools, if any.
5. Turn the compressor **ON** and measure the pumping time, i.e. how many seconds it takes until the pressure of the receiver reaches 120 psig. *Read the pressure of the tank on the gauge.*
6. Turn compressor off. Monitor Tank Pressure Gauge for 10 to 15 minutes. Tank should hold 120psig if there are not any air tools/ air being used. If tank loses pressure, there is an air leak. Turn off shut off valve of main airline (if equipped). If compressor continues to lose air, there is an airleak within the compressor. Contact DentalEZ Technical Service at 1-866-DTE-INFO for assistance. If the tank maintains pressure, then the leak is within the piping system and must be fixed to ensure proper operation of the compressor. Contact DentalEZ Technical Service for assistance.
7. If the leaks cannot be repaired, contact DentalEZ Technical Service at 1-866-DTE-INFO.
8. If the pumping time corresponds to the time in the specification chart on page 2, there are no leaks.

### Testing Safety Valves

Test the safety valve on the **dryer** and on the **tank** every 1000 hours.

1. Turn the compressor **ON**.

#### — WARNING —

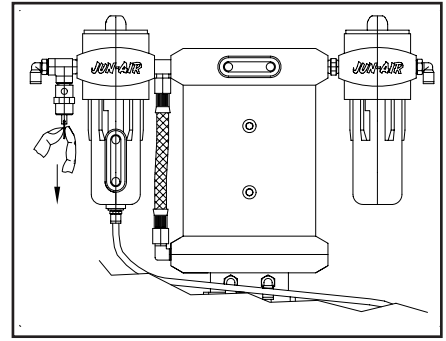
The compressor is still connected to the power supply.

2. Pull the safety valve ring. *A very loud burst should be heard when air leaks from the safety valve. If no air leaks out, the valve is defective and must be replaced immediately.*

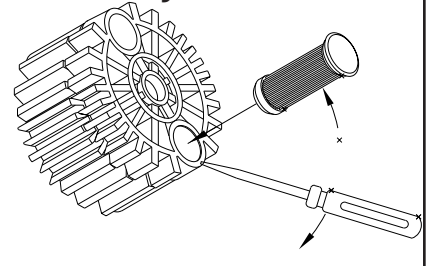
### Replacing Intake Filter

Replace the intake filter(s) every 2000 hours or once a year if extreme operating conditions exist.

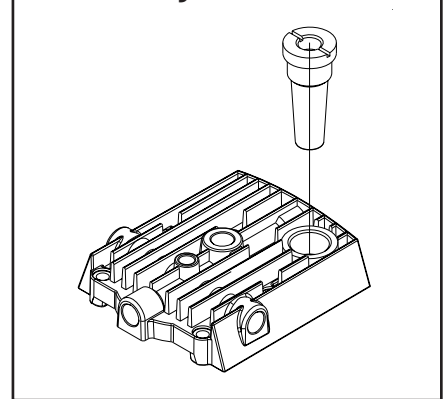
1. Turn the compressor **OFF** at the main switch and pull out the electrical plug.
2. Allow the compressor to cool.
3. Use PN: JA5412500 for the following models:
  - CA-812 has 1 intake filter
  - CA-822 has 1 intake filter
  - CA-825 has 2 intake filters
  - CA-825D has 2 intake filters
  - CA-827D has 3 intake filters
  - CA-829D has 4 intake filters
  - CA-8212T has 6 intake filters
  - a. Using a flat-head screwdriver, tip up the rubber rim on the intake filter. Then pull out the intake filter from the cylinder.
  - b. Using hands, gently press the new intake filter all the way down.
4. Use PN: JA5412400 for the following models:
  - CA-813D has 4 intake filters
  - CA-823D has 4 intake filters
  - a. On the cylinder head, unscrew the intake filter with a coin or similar.
  - b. Mount the new intake filter.

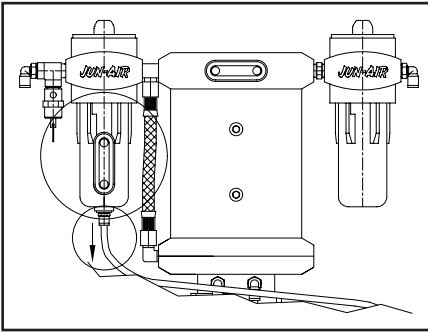


**PN: JA5412500**



**PN: JA5412400**





## Replacing Dryer Filter

Replace the prefilter every 1000 hours or once a year. Less if environment is contaminated.

1. Turn the compressor **OFF** at the main switch and pull out the electrical plug.
2. Pull the drain tube of the hose tail nipple underneath the prefilter.
3. Using hands, unscrew the filter bowl.
4. Using hands, unscrew the old filter from the filter bowl.
5. Place the new O-ring in the filter bowl.
6. Using hands, screw the new filter on the filter bowl.
7. Using hands, screw on the filter bowl.
8. Fit the drain tube to the prefilter.

**NOTE:** *If more information is needed, refer to the enclosed Dryer Manual.*

## Cleaning Non-return Valve

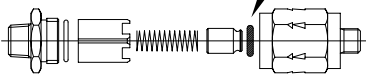
Clean the non-return valve periodically.

1. Turn the compressor **OFF** at the main switch and pull out the electrical plug.

**IMPORTANT NOTE:** *Before dismounting the non-return valve, empty all air from the tank.*

2. Dismount the non-return valve from the tank.
3. Disassemble the non-return valve and remove O-ring from piston.
4. Clean the non-return valve.
5. Fit a new O-ring in the non-return valve and reassemble.

**O-ring  
PN: JA6243000**



### Service Instruction

The troubleshooting chart on the next page should be used when attempting to isolate operational problems.

If the problem is not addressed or cannot be isolated by performing the suggested procedures, contact your local DentalEZ full-service dealership. (*See Product Service Support, Page 40.*)

Have the following product information available:

- Model Name \_\_\_\_\_
- Model Number \_\_\_\_\_
- Serial Number \_\_\_\_\_
- Installation Date \_\_\_\_\_
- Hour Meter Reading \_\_\_\_\_
- Dealer \_\_\_\_\_

**NOTE:** *The model and serial number can be found on the tank.*

#### — CAUTION —

- Always turn the power **OFF** before removing any parts from the compressor.
- Before dismantling any parts, always empty air from the air tank and ensure there is no pressure in the system.

## Troubleshooting Chart

Symptom	Possible Cause(s)	Solution
Compressor does not start	No power from main supply	Check plug/cable.
		Check building's fuses.
	Button on pressure switch is on "0"	Turn pressure switch button to "I"
	Pressure in tank is too high. Compressor does not start until the pressure drops to the cut-in pressure on the pressure switch	Empty pressure tank.
Compressor starts but pressure does not increase	Intake filter clogged	Replace intake filter.
	Leaks in compressor or air lines	Check tubes, fittings and tools for leaks. <i>Use soapy water.</i>
	Clogged non-return valve	Clean non-return valve. Change O-ring.
	Desiccant is saturated or filter elements are clogged	See Dryer Manul (enclosed separately).
Compressor gets hot	Intake filter clogged	Replace intake filter.
	Ambient temperature exceeds 35°C/95°F	Make sure there is sufficient ventilation.
	Fans are not working	Check wiring. Then check fan for movement or blade rotation.
	Compressor is overloaded	Disconnect some of the air tools.
	Leaks in compressor	Check tubes, fittings and tools for leaks. <i>Use soapy water.</i>
Compressor operates even when no air is being used	Leaks in the compressor or leaks in the air line in the office	Check tubes, fittings and tools for leaks. <i>Use soapy water.</i>
Compressor starts and stops more frequently than usual	Condensate in tank	Dryer defective. See "Fault Finding and Repair" in the Dryer Manual (enclosed separately).
	Leaks in compressor or air lines	Check tubes, fittings and tools for leaks. <i>Use soapy water.</i>
Compressor does not switch on at 90 psig and does not switch off at 120 psig. <i>Read the gauge for pressure</i>	Pressure switch is defective	Replace pressure switch.

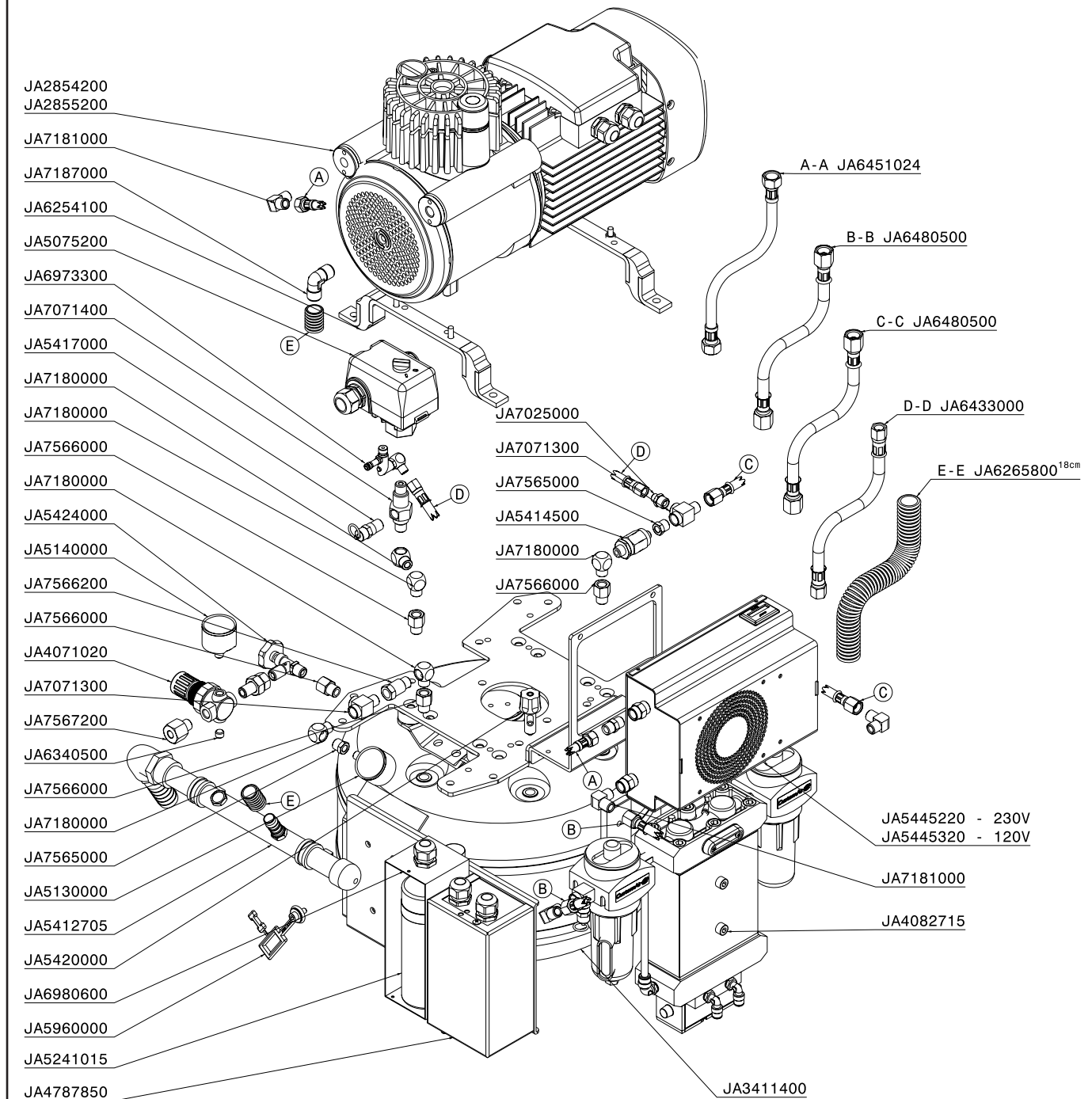




## Model CA-812 / CA-822 Parts List

2854200	Motor 1000 B(D)/M(D) 230V/50-60Hz
2855200	Motor 1000 B(D)/M(D) 120V/60Hz
3411400	Receiver 25l w/inspection plug, internally coated, RAL 9002, ASME
4071020	Regulator R07-280-RNMG
4082715	Dryer f/1000-25BD2 size 2
4787850	Low voltage relay
5075200	Pressure switch UL 21/11
5130000	Gauge Ø40 0-16 bar 1/8" down
5140000	Gauge Ø40 0-16 bar 1/8" back
5241010	Capacitor, run complete 100uF/120+230V f/1-2000 (60 cm)
5412710	Intake pipe f/1000-25BD2
5414500	Non return valve
5417000	Safety valve 9 bar / 135 psi
5420000	Drain cock 1/4" 25l
5424000	Outlet cock 1/4"
5427000	Connecting piece 1/4"
5427000	Hose nylon Ø6x4 mm white
5445200	Radiator & fan f/oil-less motors 230V CE/UL
5445300	Radiator & fan w/camtimer f/oil-less compressors 120V
6254100	Vibration damper 1-2000 (new version)
6340000	Unbraco plug 1/4"x12
6451024	Teflon hose 1/4" 24 cm
6480500	Flex hose 1/4" 20 (22) cm
6973300	Unloader valve w/silencer
6980600	Box f/capacitor oil-less models
7025000	Double nipple 1/4"x1/8"
7071300	T-piece 1/4" (2xinternal/external)
7071400	Plugs for drain bottle (set)
7180000	Elbow 1/4" int./ext. KRG
7181000	Elbow 1/4" ext./ext.
7187000	Elbow 3/8"
7565000	Bushing 1/4" ext. x 1/8" int.
7566000	Bushing 1/4" x 1/4"
7567200	Bushing 1/4" x 3/8" NPT internal

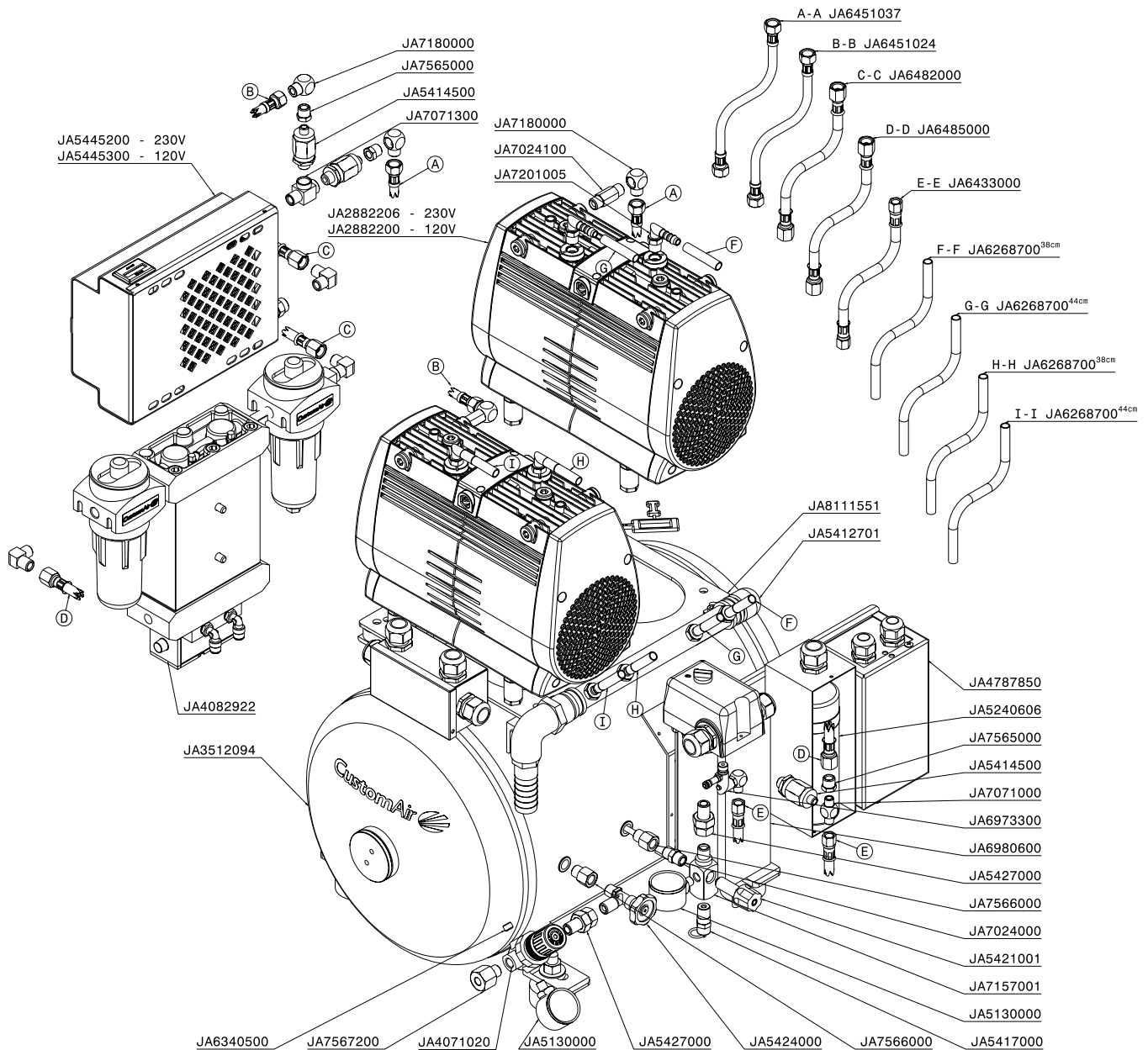
## Model CA-812 / CA-822 Diagram



## Model CA-813D / CA-823D Parts List

2882200	Motor OF302 120V/60Hz
2882206	Motor OF302 230V/60Hz
3512094	Receiver 40l w/inspection plug, internally coated, RAL9002
4071020	Regulator R07-280-RNMG
4082922	Dryer complete 2xOF302-40BD2
4787850	Low voltage relay
5075200	Pressure switch UL 21/11
5130000	Gauge Ø40 0-16 bar 1/8" down
5240606	Capacitor, run complete 60uF/120V f/OF300 (70 cm)
5412701	Intake pipe f/2xOF302
5414500	Non return valve
5417000	Safety valve 9 bar / 135 psi
5420000	Drain cock 1/4" 25l
5424000	Outlet cock 1/4"
5427000	Plugs for drain bottle (set)
5427000	Connecting piece 1/4"
5445200	Radiator & fan f/oil-less motors 230V CE/UL
5445300	Radiator & fan w/camtimer f/oil-less compressors 120V
6253701	Vibration damper f/OF301/OF302 Ø20x30
6340500	Unbraco plug 1/8"
6451024	Hose nylon Ø6x4 mm white
6451037	Teflon hose 1/4" 37 cm
6482000	Flex hose 1/4" x 23 (25) cm
6485000	Flex hose 1/4" 67 (69) cm
6973300	Unloader valve w/silencer
6980600	Box f/capacitor oil-less models
7024000	Double nipple 1/4" L= 26 mm
7024100	Double nipple 1/4" L= 43 mm
7071000	T-piece 1/8"
7071300	T-piece 1/4" (2xinternal/external)
7157001	Extension piece w/through 1/4"
7180000	Elbow 1/4" int./ext. KRG
7181000	Elbow 1/4" ext./ext.
7201005	Hose tail plastic Ø8 x 1/4" elbow
7565000	Bushing 1/4" ext. x 1/8" int.
7566000	Bushing 1/4" x 1/4"
7567200	Bushing 1/4" x 3/8" NPT internal
8111551	Motor foundation f/2xOF302-40, painted

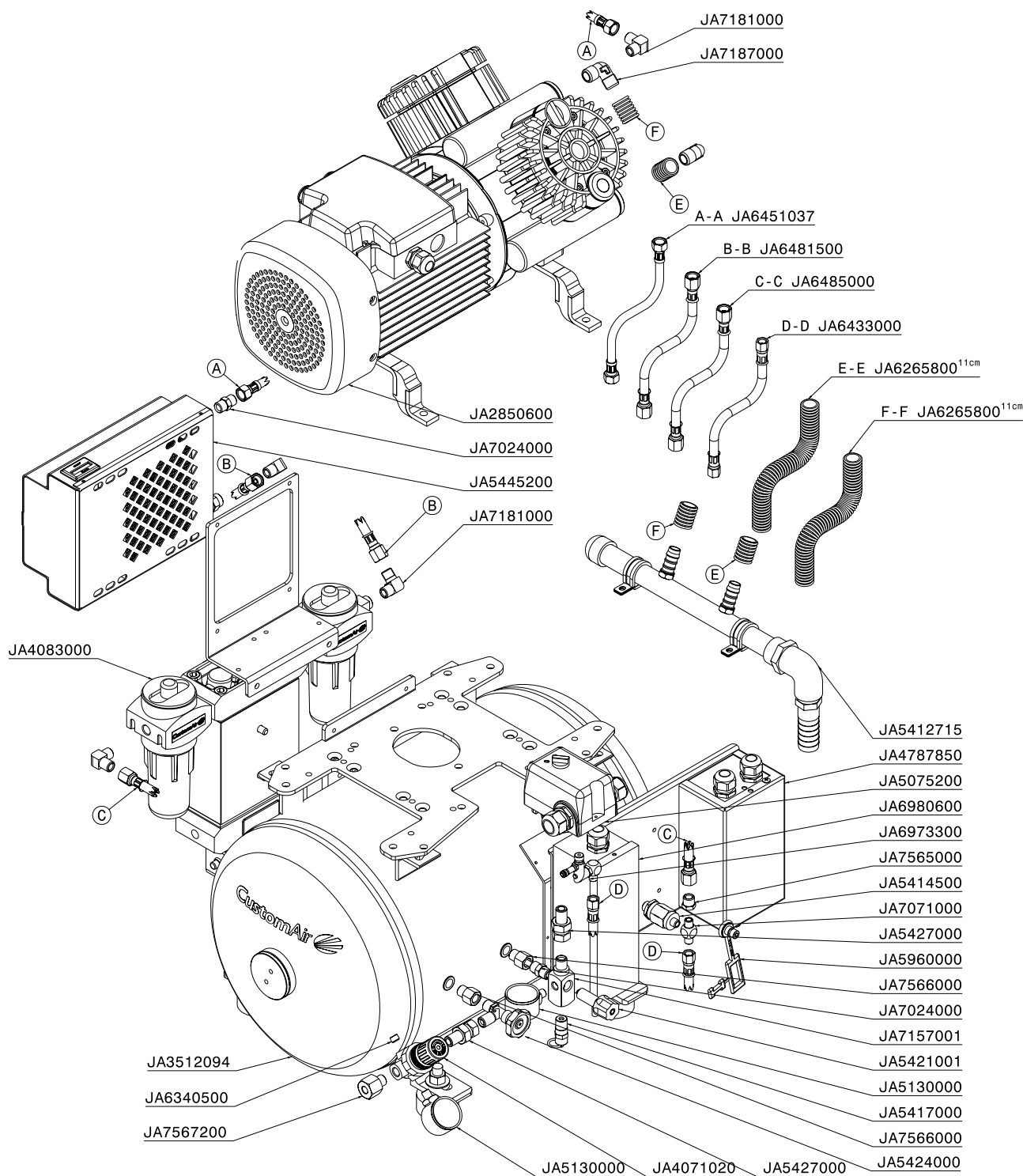
## Model CA-813D / CA-823D Diagram



## Model CA-825 Parts List

2850600	Motor 2000 B/M(D) 230V UL
3512094	Receiver 40l w/inspection plug, internally coated, RAL9002
4071020	Regulator R07-280-RNMG
4083000	Dryer f/2000 motors size 2
4787850	Low voltage relay
5075200	Pressure switch UL 21/11
5130000	Gauge Ø40 0-16 bar 1/8" down
5240010	Capacitor, run complete 40uF/450V AC f/2000 (60 cm)
5412715	Intake pipe f/2000/4000 BD
5414500	Non return valve
5417000	Safety valve 9 bar / 135 psi
5420000	Hose nylon Ø6x4 mm white
5424000	Outlet cock 1/4"
5427000	Connecting piece 1/4"
5445200	Radiator & fan f/oil-less motors 230V CE/UL
6340500	Unbraco plug 1/8"
6451037	Teflon hose 1/4" 37 cm
6481500	Flex hose 1/4" 49 (51) cm
6485000	Flex hose 1/4" 67 (69) cm
6973300	Unloader valve w/silencer
6980600	Box f/capacitor oil-less models
7024000	Double nipple 1/4" L= 26 mm
7071000	Plugs for drain bottle (set)
7157001	Extension piece w/through 1/4"
7181000	Elbow 1/4" ext./ext.
7187000	Elbow 3/8"
7566000	Bushing 1/4" x 1/4"
7567200	Bushing 1/4" x 3/8" NPT internal

## Model CA-825 Diagram

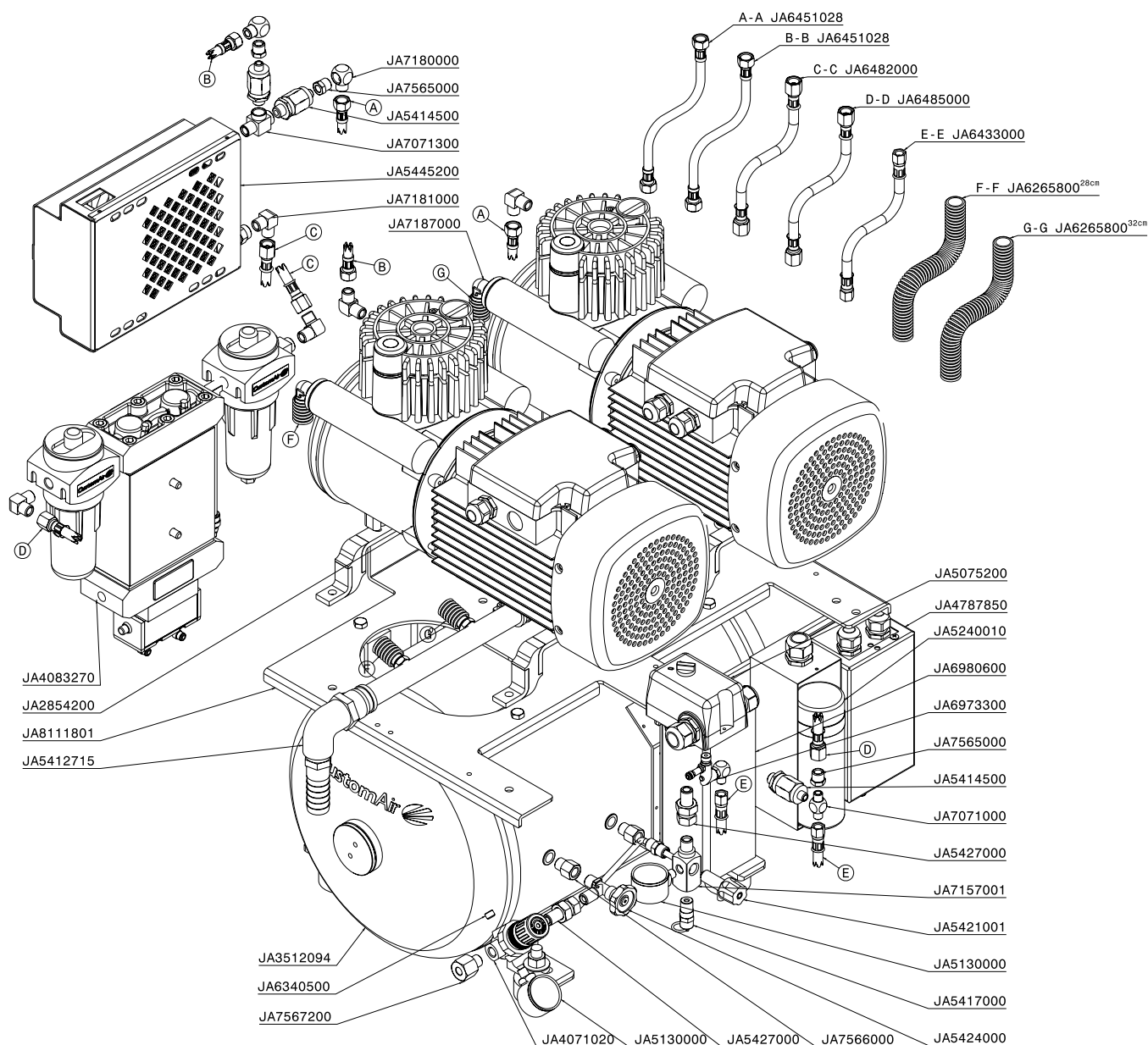


## Model CA-825D Parts List

2854200	Motor 1000 B(D)/M(D) 230V/50-60Hz
3512094	Receiver 40l w/inspection plug, internally coated, RAL9002
4071020	Regulator R07-280-RNMG
4083270	Dryer f/3000 motors size 3
4787850	Low voltage relay
5075200	Pressure switch UL 21/11
5130000	Gauge Ø40 0-16 bar 1/8" down
5240010	Capacitor, run complete 40uF/450V AC f/2000 (60 cm)
5412715	Intake pipe f/2000/4000 BD
5414500	Non return valve
5417000	Safety valve 9 bar / 135 psi
5420000	Drain cock 1/4" 25l
5424000	Outlet cock 1/4"
5427000	Plugs for drain bottle (set)
5427000	Connecting piece 1/4"
5445200	Radiator & fan f/oil-less motors 230V CE/UL
6254100	Vibration damper 1-2000 (new version)
6340500	Unbraco plug 1/8"
6451028	Teflon hose 1/4" 28 cm
6482000	Flex hose 1/4" x 23 (25) cm
6485000	Flex hose 1/4" 67 (69) cm
6973300	Unloader valve w/silencer
6980600	Box f/capacitor oil-less models
7024000	Double nipple 1/4" L= 26 mm
7071000	T-piece 1/8"
7071300	T-piece 1/4" (2xinternal/external)
7157001	Extension piece w/through 1/4"
7180000	Elbow 1/4" int./ext. KRG
7181000	Elbow 1/4" ext./ext.
7187000	Hose nylon Ø6x4 mm white
7565000	Bushing 1/4" ext. x 1/8" int.
7566000	Bushing 1/4" x 1/4"
7567200	Bushing 1/4" x 3/8" NPT internal
8111801	Motor foundation f/4000-40B, painted



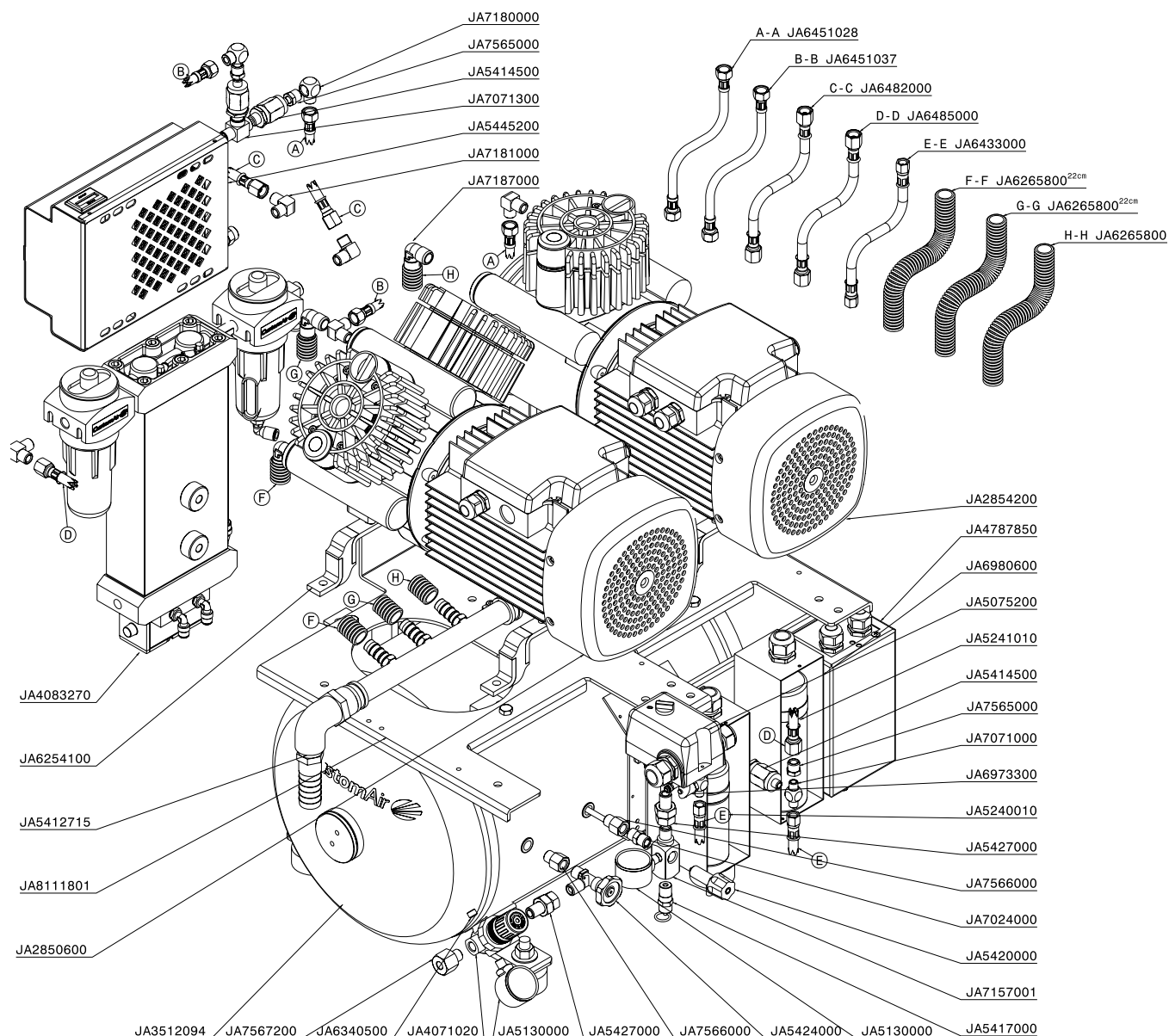
## Model CA-825D Diagram



## Model CA-827D Parts List

2850600	Motor 2000 B(M(D) 230V UL
2854200	Motor 1000 B(D)/M(D) 230V/50-60Hz
3512094	Receiver 40l w/inspection plug, internally coated, RAL9002
4071020	Regulator R07-280-RNMG
4083270	Dryer f/3000 motors size 3
4787850	Low voltage relay
5075200	Pressure switch UL 21/11
5130000	Gauge Ø40 0-16 bar 1/8" down
5240010	Capacitor, run complete 40uF/450V AC f/2000 (60 cm)
5241010	Capacitor, run complete 100uF/120+230V f/1-2000 (60 cm)
5412715	Intake pipe f/2000/4000 BD
5414500	Non return valve
5417000	Safety valve 9 bar / 135 psi
5420000	Drain cock 1/4" 25l
5424000	Outlet cock 1/4"
5427000	Connecting piece 1/4"
5445200	Radiator & fan f/oil-less motors 230V CE/UL
6254100	Plugs for drain bottle (set)
6340500	Unbraco plug 1/8"
6451028	Teflon hose 1/4" 28 cm
6451037	Teflon hose 1/4" 37 cm
6482000	Flex hose 1/4" x 23 (25) cm
6485000	Flex hose 1/4" 67 (69) cm
6973300	Unloader valve w/silencer
6980600	Box f/capacitor oil-less models
7024000	Hose nylon Ø6x4 mm white
7071000	T-piece 1/8"
7071300	T-piece 1/4" (2xinternal/external)
7157001	Extension piece w/through 1/4"
7180000	Elbow 1/4" int./ext. KRG
7181000	Elbow 1/4" ext./ext.
7187000	Elbow 3/8"
7565000	Bushing 1/4" ext. x 1/8" int.
7566000	Bushing 1/4" x 1/4"
7567200	Bushing 1/4" x 3/8" NPT internal
8111801	Motor foundation f/4000-40B, painted

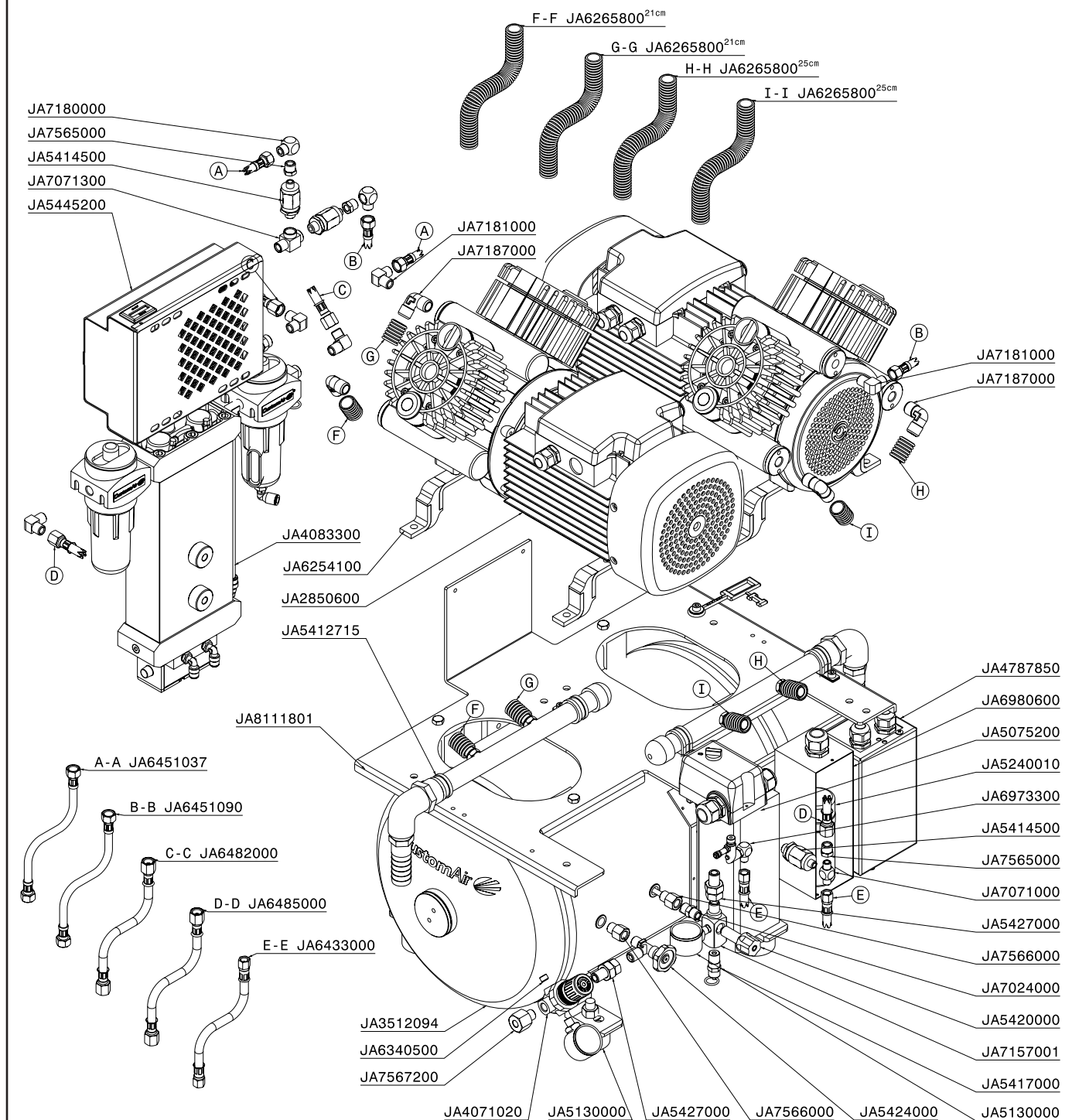
## Model CA-827D Diagram



## Model CA-829D Parts List

2850600	Motor 2000 B/M(D) 230V UL
3512094	Receiver 40l w/inspection plug, internally coated, RAL9002
4071020	Regulator R07-280-RNMG
4083300	Dryer f/4000 motors size 3
4787850	Low voltage relay
5075200	Pressure switch UL 21/11
5130000	Hose nylon Ø6x4 mm white
5130000	Gauge Ø40 0-16 bar 1/8" down
5240010	Capacitor, run complete 40uF/450V AC f/2000 (60 cm)
5412715	Intake pipe f/2000/4000 BD
5414500	Non return valve
5417000	Safety valve 9 bar / 135 psi
5420000	Drain cock 1/4" 25l
5424000	Outlet cock 1/4"
5427000	Connecting piece 1/4"
5445200	Radiator & fan f/oil-less motors 230V CE/UL
6254100	Vibration damper 1-2000 (new version)
6340500	Unbraco plug 1/8"
6451037	Teflon hose 1/4" 37 cm
6451090	Teflon hose 1/4" 90 cm
6482000	Flex hose 1/4" x 23 (25) cm
6485000	Flex hose 1/4" 67 (69) cm
6973300	Unloader valve w/silencer
6980600	Box f/capacitor oil-less models
7024000	Double nipple 1/4" L= 26 mm
7071000	Plugs for drain bottle (set)
7071300	T-piece 1/4" (2xinternal/external)
7157001	Extension piece w/through 1/4"
7180000	Elbow 1/4" int./ext. KRG
7181000	Elbow 1/4" ext./ext.
7187000	Elbow 3/8"
7565000	Bushing 1/4" ext. x 1/8" int.
7566000	Bushing 1/4" x 1/4"
7567200	Bushing 1/4" x 3/8" NPT internal
8111801	Motor foundation f/4000-40B, painted

## Model CA-829D Diagram

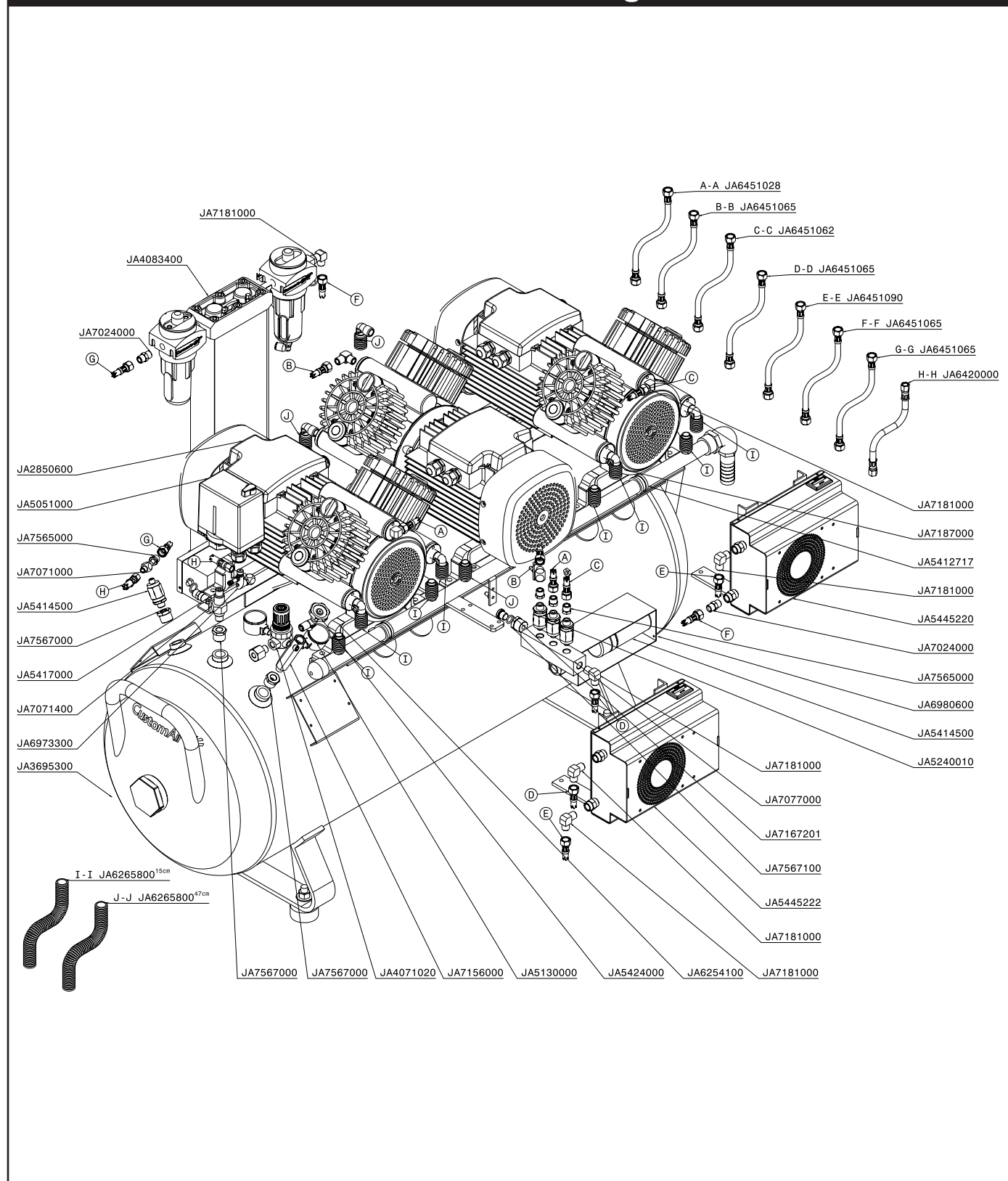


## Model CA-8212T Parts List

2850600	Motor 2000 B/M(D) 230V UL
3695300	Receiver 150l w/inspection plug, internally coated, RAL 9002, CE
4071020	Regulator R07-280-RNMG
4083400	Dryer f/6000 size 6
5051000	Pressure switch MDR 3/16 UL
5130000	Gauge Ø40 0-16 bar 1/8" down
5240010	Capacitor, run complete 40uF/450V AC f/2000 (60 cm)
5412717	Plugs for drain bottle (set)
5414500	Non return valve
5417000	Safety valve 9 bar / 135 psi
5424000	Outlet cock 1/4"
5445220	Radiator & fan M1000, 2x1000, 3000, 40000 & 6000 with camtimer
5445222	Radiator & fan M1000, 2x1000, 3000, 4000 & 6000 without camtimer 230V CE/UL
6254100	Vibration damper 1-2000 (new version)
6451028	Teflon hose 1/4" 28 cm
6451062	Teflon hose 1/4" 62 cm
6451065	Teflon hose 1/4" 65 cm
6451090	Teflon hose 1/4" 90 cm
6973300	Unloader valve w/silencer
6980600	Box f/capacitor oil-less models
7024000	Double nipple 1/4" L= 26 mm
7024000	Double nipple 1/4" L= 26 mm
7071000	Hose nylon Ø6x4 mm white
7071400	Cross connector Condor
7077000	Adaptor 3-way
7156000	Extension piece f/cock short
7167201	Plug 1/4" f/OF300
7180000	Elbow 1/4" int./ext. KRG
7181000	Elbow 1/4" ext./ext.
7187000	Elbow 3/8"
7565000	Bushing 1/4" ext. x 1/8" int.
7567000	Bushing 1/4" x 3/8" WRG
7567100	Bushing 1/2" x 1/4"



## Model CA-8212T Diagram



The DentalEZ Group and its employees are proud of the products we provide to the dental community. We stand behind these products with a warranty against defects in material and workmanship as provided below and have our own in-house repair facility to service our products.

In the event that you experience difficulty with the application or operation of any of our products, please contact our customer service department at our expense at (866)DTE-INFO.

If we cannot resolve the issue by telephone, we will arrange for a representative to contact you or suggest that the product be returned to our factory for inspection.

If product return or repair is required, we will provide you with a **Return Authorization** number and shipping instructions to return the product to the proper facility. If the product is under warranty we will ask you to provide proof of purchase such as a copy of your invoice. Please be sure to include the **Return Authorization** number on the package you are returning. **Products returned without a return authorization number cannot be repaired.**

Freight costs for product returns are the responsibility of the customer. Products under warranty will be repaired or replaced, at our sole discretion, and returned at our expense. Products outside the warranty limits will be repaired and returned with costs invoiced to the customer. We are not responsible for shipping damages. We will, however, help you file a claim with the freight carrier. Written repair estimates are available.

DentalEZ warrants all equipment and parts to be free of defects in material and workmanship, under normal usage, under the following terms:

**CustomAir Products:**

CustomAir 800 Series Compressors  
CustomAir 800 Basic Compressors

**Warranty Period:**

5 Years from date of installation\*.  
3 Years from date of installation\*.

Please note the following additional terms of our warranty and return policy:

- Warranties cover manufacturing defects only and do not cover defects resulting from abuse, improper handling, cleaning, care or maintenance, normal wear and tear or non-observance of operating, maintenance or installation instructions. **Failure to use authorized parts or an authorized repair facility voids this warranty.**
- **Liability is limited to repair or replacement of the defective product at our sole discretion. All other liabilities, in particular liability for damages, including, without limitation, consequential or incidental damages are excluded.**
- THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. NO EMPLOYEE, REPRESENTATIVE OR DEALER IS AUTHORIZED TO CHANGE THIS WARRANTY IN ANY WAY OR TO GRANT ANY OTHER WARRANTY.

**WARRANTY REPAIRS:**

Parts repaired or replaced on a product that is in warranty will be warranted for the duration of that product's original warranty.

**NON-WARRANTY REPAIRS:**

The warranty on parts either repaired or replaced on an out-of-warranty product will cover the repaired part only and will be for the timeframe of a new parts warranty period.

**PRODUCT RETURN:**

Opened products or product returns more than a year old cannot be returned for credit. There will be a 15% (\$25.00 minimum) restocking charge on all items authorized for return.

\*Provided conditions defined in instruction manual are met.

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