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Superb Air Models:

DC-6112, DC-6122, DC-6214, DC- 6224, DC-6326, DC-6228

DENTAL AIR SYSTEM

Installation and Operation Manual

Installation, Operation & User Manual

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CONGRATULATIONS

Your Superb Air delivers 100% oil-free, ultra-dry dental air to help protect your valuable handpieces from premature wear caused by moisture and oil residue buildup. Since the system requires no oil for lubrication, there's no risk of contaminating prepared surfaces with an oily film that could compromise resin bonding and restorations—saving you valuable chair time. Most importantly, it safeguards your patients' health by supplying clean, dry air that helps inhibit bacterial growth.

The Superb Air is equipped with oil-free compressor heads ranging from 860 watts to 1,800 watts. Operating at approximately 65–70 dB, these units run exceptionally quietly. Designed for environments where clean, oil-free compressed air and low noise levels are essential, they provide reliable performance without compromise.

The dryer system consists of a cooling unit, a desiccant filter, and a 5-micron particulate filter. Together, these components remove moisture and airborne contaminants, delivering exceptionally dry, clean compressed air while optimizing system performance. The dry air is then stored in the main ASME-rated storage tank, ready for use by the operator.

The Superb Air features include:

- Virtually Maintenance Free
- Low-Pressure Dew Point
- Uninterrupted Compressor Availability
- Maximum Dryness with triple Filtered Air
- Compact size for space-saving installation

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SAFETY INSTRUCTIONS

Use of the Superb Air not in conformance with the instructions specified in this manual may result in permanent failure of the unit.

This product is manufactured to high-quality standards and is safe when used properly. However, all tools can be dangerous if the correct precautions are not taken.

Warning!

When using compressors, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and personal injury.

- Read all these instructions before attempting to operate this product.
- Keep these instructions with the compressor.
- Save these instructions for future reference.

QR Code For Manual

Personal Safety

Symbols used on the air compressor:

- Read the operator's instructions

- Warning: Shock Hazard

- Warning: High-temperature parts

- Warning: The compressor is automatic and can start unexpectedly

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KEY PARTS IDENTIFICATION

Figure 1. Superb Air Parts Location

No.	Description
1	Main power switch
2	Resettable fuse
3	Low voltage panel wires
4	Power inlet whip
5	Tank moisture dump feature solenoid.
6	Pressure switch
7	Emergency pressure relief valve
8	Air outlet / ball valve
9	Air filter inlet filter (head)
10	Tank

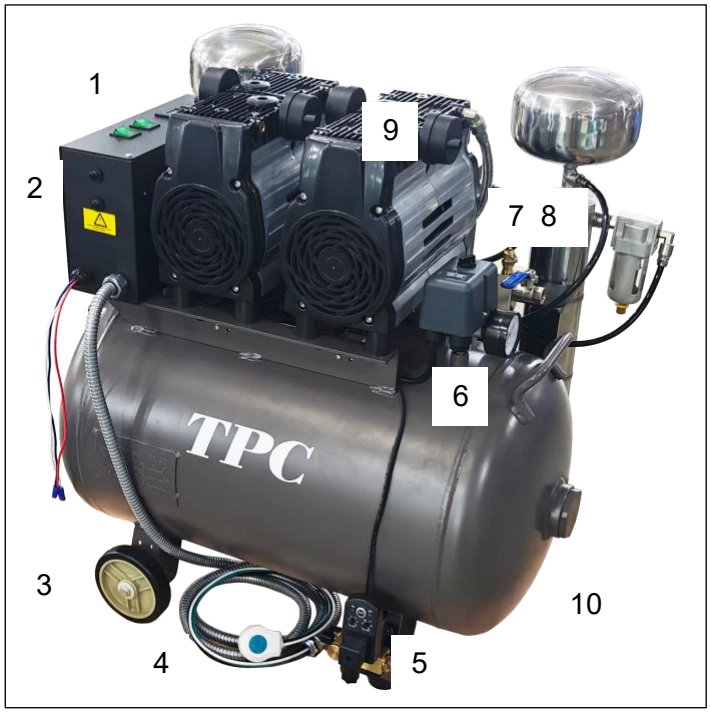
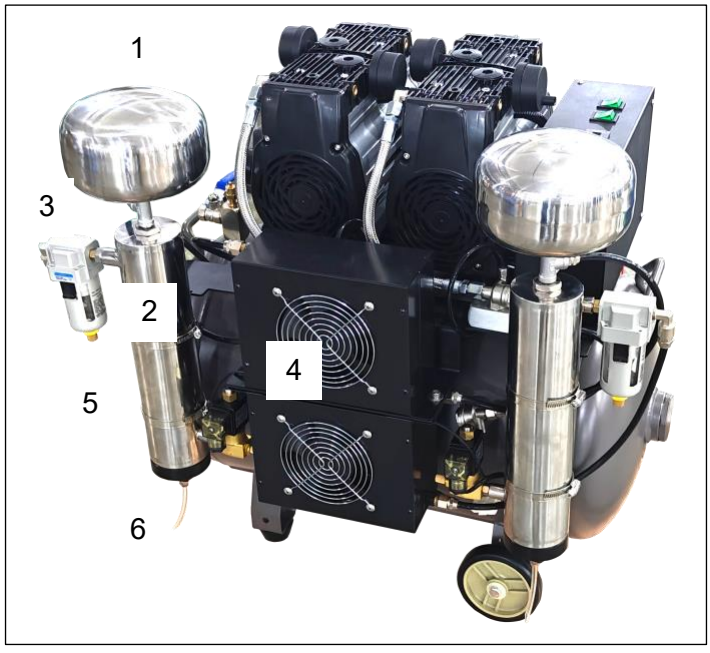


Figure 2. Superb Air Parts Location

No.	Description
1	Desiccant Filter Cap
2	Desiccant filter Body
3	Micro Filter
4	Cooler air
5	Filter relief ports
6	Filter relief port



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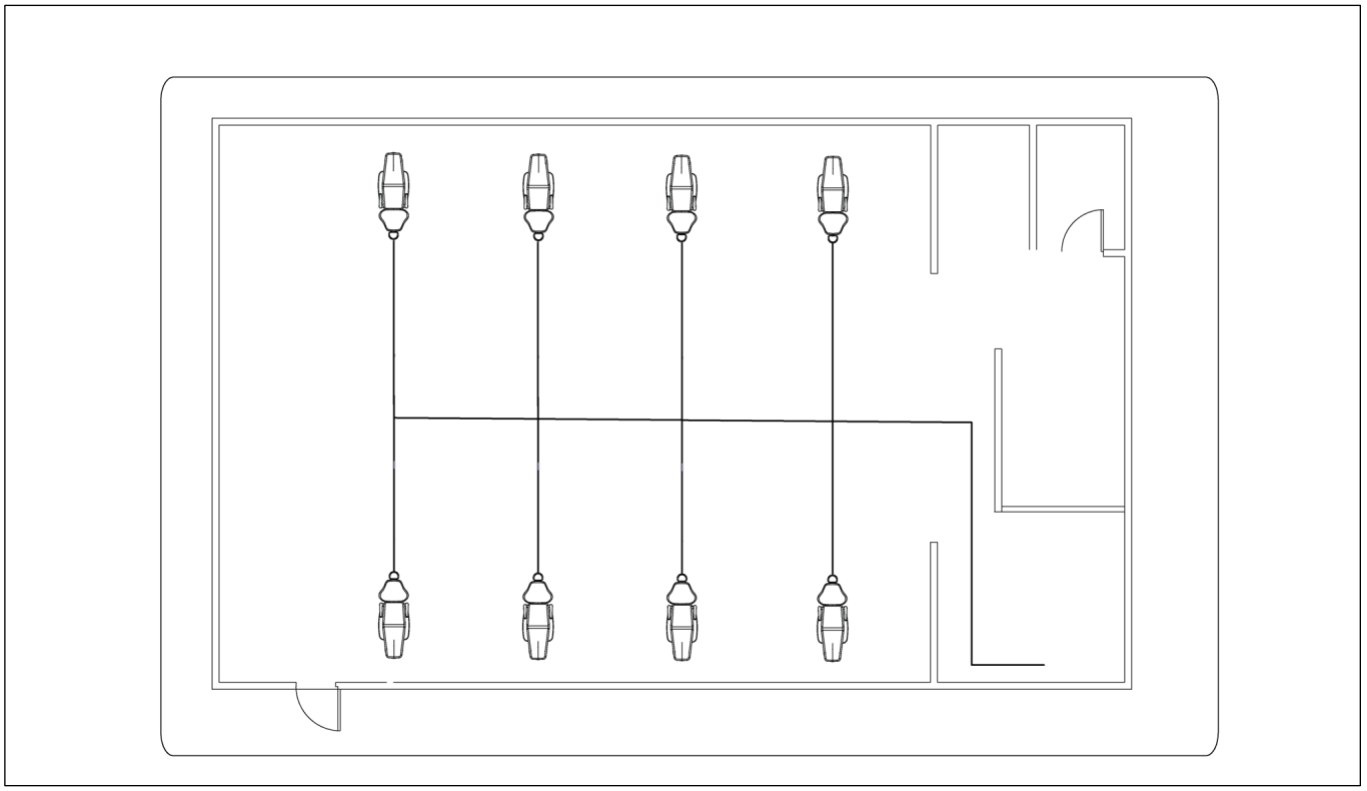
SIZING GUIDE

Choosing the correct size **Superb Air** compressor for your practice depends on the number of users and the anticipated air demand. For optimal compressor performance, the total air demand should not exceed the number of operatory users shown in the table below.

Model User Capacity	DC6112D/A 1-3 users	DC6122D/A 1-3 users	DC6124D/A 3-4 users	DC6224D/A 5 users	DC6326D/A 6-7 users	DC6228D/A 8-9 users
CFM @ 80psi	4.9	4.9	9.8	9.8	14.7	19.6
# of Heads	1	1	2	2	3	2
Total HP	1.15	1.15	2.30	2.30	3.45	4.80
Voltage	110V	230V	110V	230V	230V	230V
Amps	8	4	16	8	12	16
Breaker Amps	20	20	30	20	30	30
dBA	62	62	62	62	72	72
Tank Capacity	10 Gallon	10 Gallon	16 Gallon	16 Gallon	23 Gallon	30 Gallon
Size (HxWxD)	16x23x27 + 6" Clearance	16x23x27 + 6" Clearance	26x21x29 + 6" Clearance	26x21x29 + 6" Clearance	34x22x29 + 6" Clearance	41x22x36 + 6" Clearance
Shipping Dimension (WxDxH)	29x23x35	29x23x35	34x26x35	34x26x35	39x25x38	46x27x41

COMPRESSOR SITE LAYOUT



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SITE REQUIREMENTS

Service Clearance:

Allow 6" on all sides for all models

Ambient Temperature:

Must not exceed 105°F

Air System Plumbing Connection:

3/8" FNPT shut-off valve and a 6 ft pressure hose (supplied)

Air distribution piping for all models - 1/2", type L or type K copper

If the pipe volume is too great, more than 235 in^3 or more than 100 ft of 1/2" diameter pipe, a pressure regulator should be installed between the main tank and the distribution piping. Set the pressure to the pressure switch cut-in value (factory set at 85 PSI, 6-8 Bar, 116 psi).

IEC 60601-1 Classification:

Protection against electric shock (5.1, 5.2): Class I

Applied Parts: There are no Applied Parts

Protection against harmful ingress of water (5.3): Ordinary, IPX0

Degree of safety in the presence of flammable anesthetic mixtures with air or with oxygen and nitrous oxide (5.5): Not suitable

VOLTAGE REQUIREMENTS

A dedicated circuit breaker panel may be required, depending on local code and site conditions. The panel shall be installed, wired, and sealed by a licensed electrician in accordance with all applicable electrical codes.

Model	DC6112D/A	DC6122D/A	DC6124D/A	DC6224D/A	DC6326D/A	DC6228D/A
Voltage	110V	230V	110V	230V	230V	230V
Amps	8	4	16	8	12	16
Breaker Amps	20	20	30	20	30	30
60 Hz	☑	☑	☑	☑	☑	☑
Gauge	14 AWG	14 AWG	**14 AWG**	14 AWG	14 AWG	14 AWG

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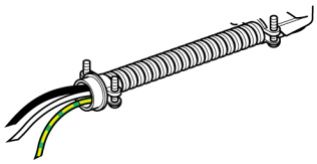
VOLTAGE REQUIREMENTS

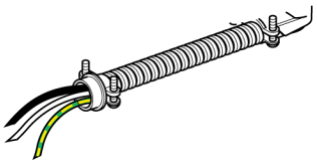
Power Whip Configuration 110V

Black, White, Green Hot, Natural Gnd.



Power Whip Configuration 230V

Black, White, Green (L1, L2, Gnd)



When to Use a Buck-Boost Transformer

- **Voltage is below nominal** (190–220 V for a 230 V motor) → Use **boost** mode
- **Voltage is above nominal** (235–250 V) → Use **buck** mode

Supply Voltage	Motor Rated	Action
190 V	230 V	Boost with buck-boost transformer
210 V	230 V	Optional boost if continuous operation
240 V	230 V	Buck mode to reduce voltage
230 V	230 V	No transformer needed

OPERATING FROM THE CONTROL PANEL

- If a remote-control panel is being used, the main power switch needs to remain in the "on" position.
- The 24-volt circuit breaker will automatically engage when the main power switch is turned "on".
- Connect the control panel to the control wires on the compressor. Match the color of each connection to its corresponding wire color. If using an extension, mark the connections on both ends so that the colors always match at the final connection points.
- If a remote-control panel is not being used, be sure that the blue and red wires are connected. These wires are located directly below the green power switch on the face panel. The white wire should remain capped.

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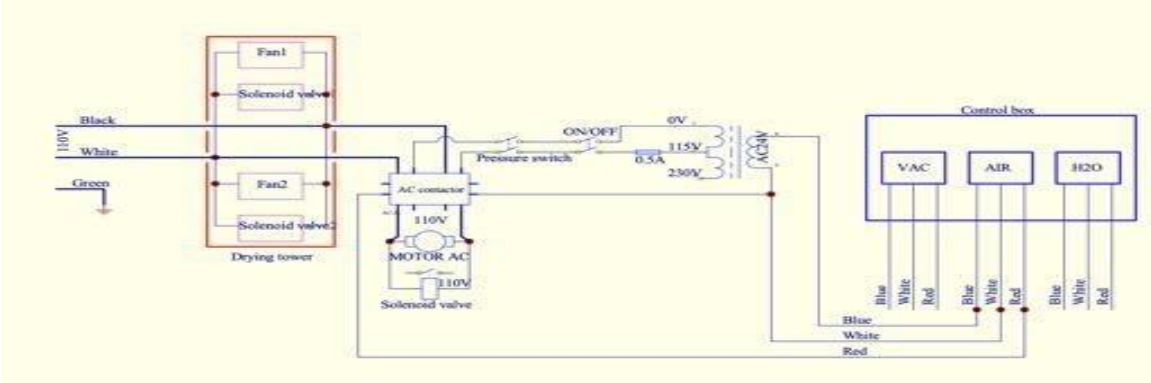
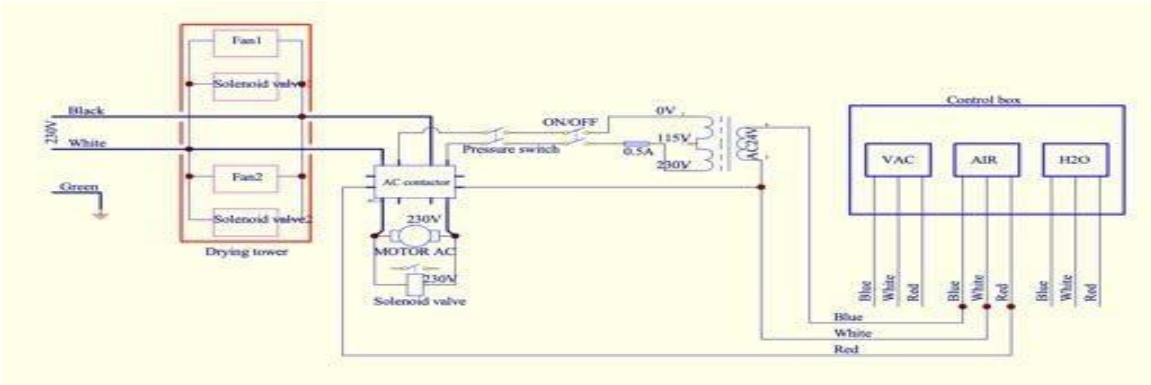
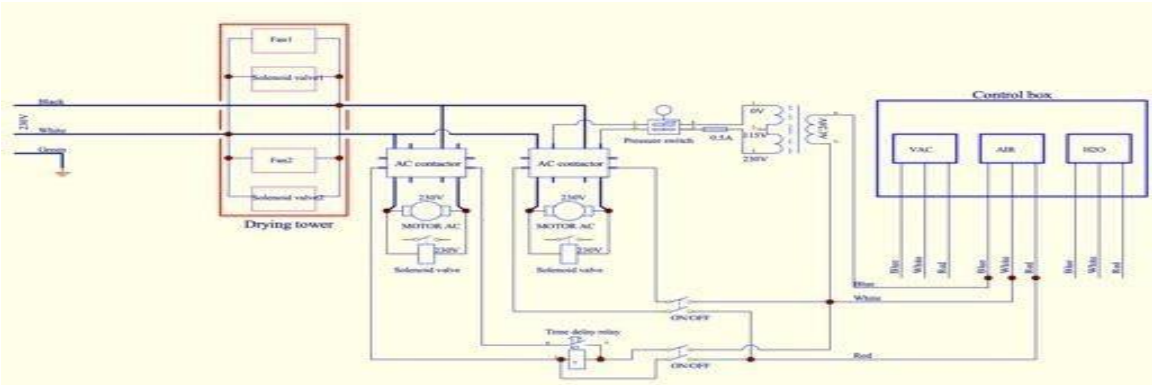
Wiring Layout (single head 110V) control panel



Wiring Layout (Single head 220V) control panel



Wiring Layout (Dual head 220V)



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List CP Models

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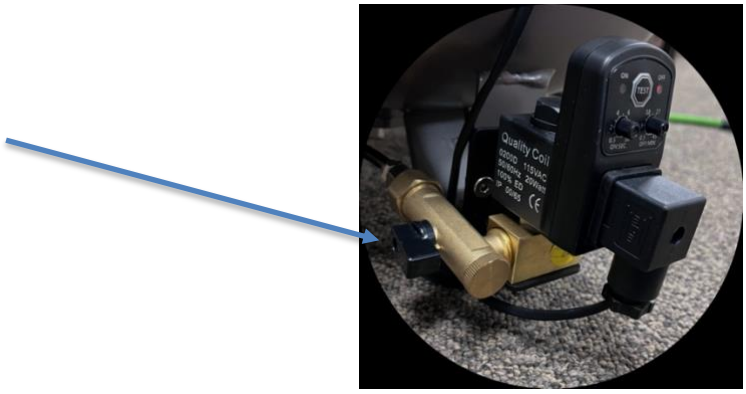
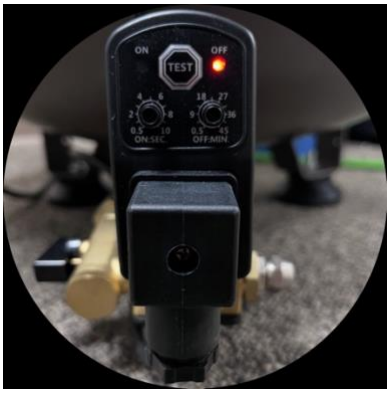
Tank Purge Function

All DC-6 Series compressors are equipped with a **factory-installed main tank moisture release system**. This system automatically purges accumulated moisture from the tank during normal operation to help maintain optimal performance. The moisture release interval is adjustable. Refer to the images below for details.

- Verify the main valve is in the open position. The lever will be parallel with the valve body as shown.



- To adjust the timing and duration settings, turn the corresponding knobs. Press the TEST button to verify operation. Purge duration: 0–10 seconds Purge interval: 0.5–45 minutes Purge duration: 0–10 seconds Purge interval: 0.5–45 minutes



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SETTING UP THE COMPRESSOR

This unit is engineered to function within its specified airflow capacity and technical limits. Do not exceed these parameters. The manufacturer is not liable for any damage resulting from misuse or failure to follow the instructions outlined in this manual.

Before Operation

Check package contents and check for damage:

Before using this item, check that each part is undamaged. Check that all pipes are firmly connected. Inspect the air receiver (tank) to ensure that it has not been damaged.

Save packaging:

Save major packaging for the return of the product in the event of service or repair.

Electrical supply:

Before using the air compressor, please check that you have a suitable electrical supply to support the requirements of the motor unit. Please ensure your mains power supply corresponds to the power rating on the data label on the machine.

Electrical Cables:

Verify that all cables are free from damage before connecting to the power supply.

Always maintain a clear area around the compressor:

The compressor must be positioned so that there is adequate airflow around the machine. The compressor should be situated so that it has 6” of obstacle-free space around its air receiver (tank) and pump/motor unit.

Ensure that the compressor draws clean air:

For the correct function and longevity of your air compressor, the air that is drawn into the compressor must be clean. The compressor should not be used in an area where the air is contaminated with dust.

Place the compressor on flat ground:

Ensure that the compressor is placed on ground that does not have an incline greater than 15°. If the compressor is placed at an angle greater than 15° in any direction, damage to the pump unit will result.

Do not operate the compressor without the air filter installed:

Operating the compressor without the air filter will cause severe damage to the pump unit.

Cleaning:

Clean the items with a soft brush or a cloth moistened with a suitable biodegradable solvent. Do not use flammable liquids like petrol or alcohol; they are a fire risk and will damage the finish and plastic parts. Ensure that the cooling fins on the pump body are kept clean. Fins that are heavy with dust have poor cooling properties, and the compressor will overheat, and damage will occur.

Faults:

Have the air compressor repaired by a qualified service technician.

Use only genuine replacement parts, which are available from the authorized dealer or distributor. Do not use modified or non-genuine parts.

Maintain the air compressor with care:

Keep the air compressor clean for better and safer performance.

Follow instructions for changing accessories.

Inspect the air compressor and extension cables/hoses occasionally; have them repaired by a qualified person or authorized service body.

Check for damaged parts:

Do not use the air compressor with damaged parts. Before further use, a damaged air compressor must be carefully checked by a qualified person to determine that it will operate properly. Check for breakage of parts, mountings, and other conditions that may affect its operation. A damaged part should be properly repaired by an authorized service center unless indicated in the instruction manual.

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INSTALLATION

1. Installation

a. The machine should be operated in a room with a temperature of 5-40°C. The surrounding area of the machine should be clean, dry, free of corrosive gas, and well-ventilated.

b. After unpacking, check the machine for any missing parts and damage. Check accessories and spare parts, and the technical documentation supplied together with the machine according to the packing list.

c. Connection of air pipes: Connect the air supply pipe with the quick coupling.

d. Check that the drainage valve is closed and the pressure switch is in the "off" position.

e. Electrical connection: All electrical connections must follow local codes. If using a plug, it must be a NEMA type 5-20 for 110 V and 6-20R for 220 V. You may also hardwire the compressor directly to a suitable power supply following local codes.

f. Connection specifications:

• ½" NPT

• 6' high-pressure air-line

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INSTALLATION INFORMATION

The Superb Air is to be installed by an authorized TPC dealer or service technician. Please review these installation guidelines to make sure that your Superb Air works to capacity for your office.

Your Superb Air should be installed in a well-ventilated area, with at least 6-inch clearance on each side for service access and to prevent overheating during high-demand periods. If other equipment is in the vicinity, the ambient temperature of the area must not exceed 105°F.

Note: If the voltage is higher than 132 V/242 V, install a bucking transformer.

MINIMUM VOLTAGE:

The minimum voltage for a DC6112 or DC6124 is 110 V. The minimum voltage required for a DC6226 and DC6228 is 230 V. Install a boost transformer if the service is below these ratings.

WIRING REQUIREMENTS:

To help prevent fire, electric shock, injury, or death, the wiring and grounding must conform to the latest edition of the National Electrical Code, ANSI/NFPA 70, and all applicable local regulations. Please contact a qualified electrician to check your wiring and breakers/fuses to ensure that there is adequate electrical power to operate the Superb Air.

EQUIPMENT GROUNDING:

The Superb Air must be connected to a grounded metal, permanent wiring system, or an equipment grounding conductor must be run with the circuit conductors and connected to the equipment grounding lead in the Superb Air flexible metal conduit power supply. Failure to do so can result in fire, electric shock, injury, or death.

Make Sure Everything Is Running Properly:

After your Superb Air has been installed and before it is put into operation, be sure to follow the check-out procedure detailed below. Check that intake filter(s) are fully seated into the compressor head(s) and that the Tank Outlet Valve is closed.

Turn on the electricity. Check the incoming line voltage. It should be at least 110 V for the DC6112 and DC6124, and 220 V for the DC6226 and DC6228.

This voltage should remain at or above these levels while the Superb Air is running. If not, install the appropriate boost transformer and check that the correct main circuit breaker and wire size are being used.

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PRESSURE TESTING

a. Close the drain valve and air supply valve. Check that the reading of the pressure gauge is below 6 bar (87 psi). Turn the On/Off power switch to "ON" and the machine will start immediately. Verify the pressure switch is also in the “ON” position. The reading of the pressure gauge will slowly rise with increasing pressure inside the air tank. When the reading of the pressure gauge reaches 8 bar (116 psi), the pressure switch activates, the power supply is cut off, and the machine stops running. At the same time, the solenoid valve activates to release high pressure in the cylinder of the compression machine so that the machine can be started again.

b. During the period when the machine stops running, observe whether the reading of the pressure meter is decreasing. If there is no air leakage in the machine, open the air supply valve to begin the supply of compressed air to the operatories. When the pressure in the air tank decreases to 6 bar, the pressure switch resets and the power supply resumes; the machine starts running again. The pressure in the air tank increases again. If the machine can automatically stop and start, it works normally.

c. Allow the compressor to run until it reaches 8 bar (116 psi). The motor should shut off automatically at this pressure. Monitor the pressure gauge and ensure that the pressure does not drop. If the pressure decreases, there may be a leak in the air piping system, an issue with the master control of the delivery unit, or a fault within the delivery unit itself.

d. Turn the operation handle for the pressure switch to the "off" position, then disconnect the plug of the machine. The test run is completed.

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COMPRESSOR RECOVERY TIMES

DC-6112 (110V)

Drain the storage tank completely to 0 psi; it should take approximately 4 minutes to reach 8 bar (116 psi).

6 Bar to 8 bar cycle time is approximately 1 minute and 30 seconds

DC-6122 (230V)

Drain the storage tank completely to 0 psi; it should take approximately 4 minutes to reach 8 bar (116 psi).

6 Bar to 8 bar cycle time is approximately 1 minute and 30 seconds

DC-6214 (230V)

Drain the storage tank completely to 0 psi; it should take approximately 3 minutes to reach 8 bar (116 psi).

6 Bar to 8 bar cycle time is approximately 1 minute

DC-6224 (230V)

Drain the storage tank completely to 0 psi; it should take approximately 3 minutes and 26 seconds to reach 8 bar (116 psi).

6 Bar to 8 bar cycle time is approximately 1 minute and 17 seconds

DC-6326 (230V)

Drain the storage tank completely to 0 psi; it should take approximately 3 minutes to reach 8 bar (116 psi).

6 Bar to 8 bar cycle time is approximately 1 minute

DC-6228 (230V)

Drain the storage tank completely to 0 psi; it should take approximately 3 minutes to reach 8 bar (116 psi).

6 Bar to 8 bar cycle time is approximately 1 minute

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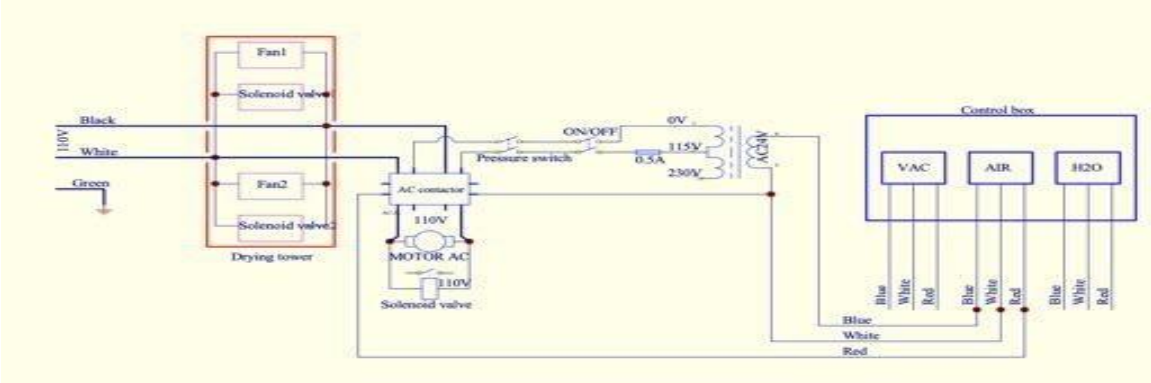
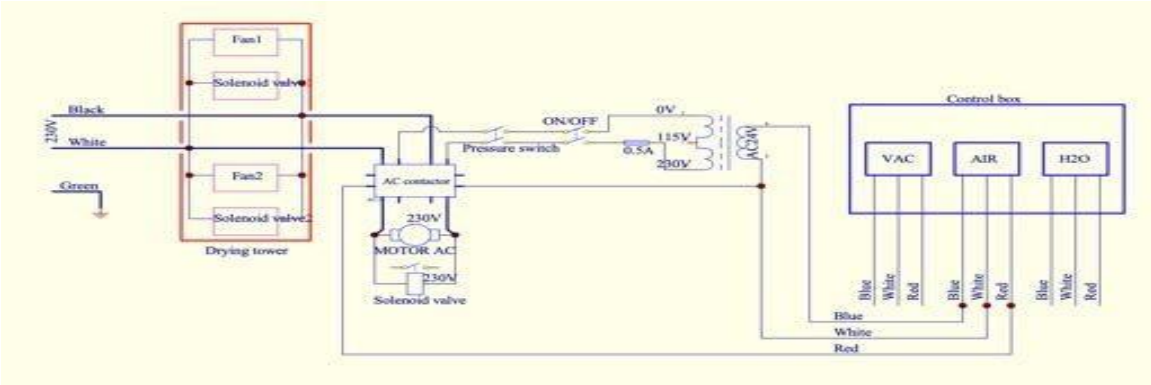
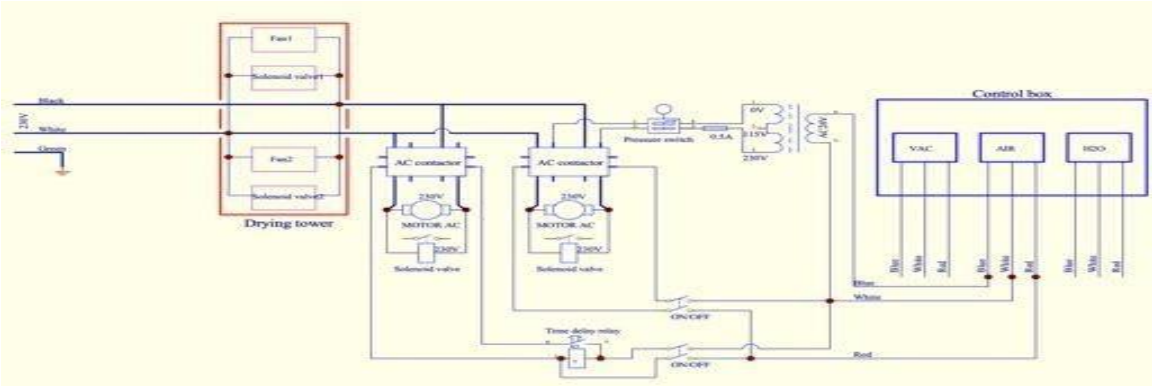
Wiring Layout (single head 110V)



Wiring Layout (Dual head 220V)



Wiring Layout (Dual head220V)



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MAINTENANCE

Like all precision equipment, your Superb Air requires routine care to maintain peak performance. Implementing a structured maintenance program promotes reliable operation and helps minimize potential issues. Regular inspections allow you to identify normal wear and replace components proactively—often before problems develop.

To support this, we have outlined minimum maintenance requirements below, including routine inspections and scheduled filter replacements using preventive maintenance kits designed specifically for your Superb Air model. Following this recommended maintenance schedule will help ensure consistent performance and dependable, uninterrupted service.

Routine Inspection - Monthly

- Clean exterior surfaces
- Check for abnormal noises and air leaks
- Make sure that no flammable, corrosive, or combustible materials are stored in the equipment room (especially in the area around the equipment)
- Check that the operational range of the pressure switch is between 87 and 116 psi
- Note: To comply with NFPA , a 5-micron filter is installed on the output of all Superb Air models.

Routine Inspection - Yearly

If the dental air compressor is building up moisture inside the tank, the desiccant filter beads may need to be replaced. There is no indicator on the system to notify you if moisture is present. If moisture is mixing with the air supply, the desiccant beds may need to be changed. Before removing the desiccant filter body, make sure you have the service kit ready to install.

- Remove the desiccant filter body from the compressor.
- Unscrew the end cap of the desiccant filter
- Slide the desiccant body filler bag out from the body of the filter housing.
- Replace the desiccant filter beads.
- Inspect the end cap O–ring. Replace if worn or damaged.

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Routine Inspection – 6 months

Refer to the figure below and check the condition of the inlet air filter on each head.

Unscrew the air filter cap from the motor housing and inspect the air filter element. Replace if the filter is dirty, worn, or cracked.

Routine Inspection – 6 months

Refer to the figure below and check the condition of the 5-micron air filter and drain bowl.

Slide the tab down to unlock the cage of the filter holder. Rotate in either direction to unlock it from the cap. Pull the glass bowl off and inspect the O-ring for damage. Replace the 5-micron filter.

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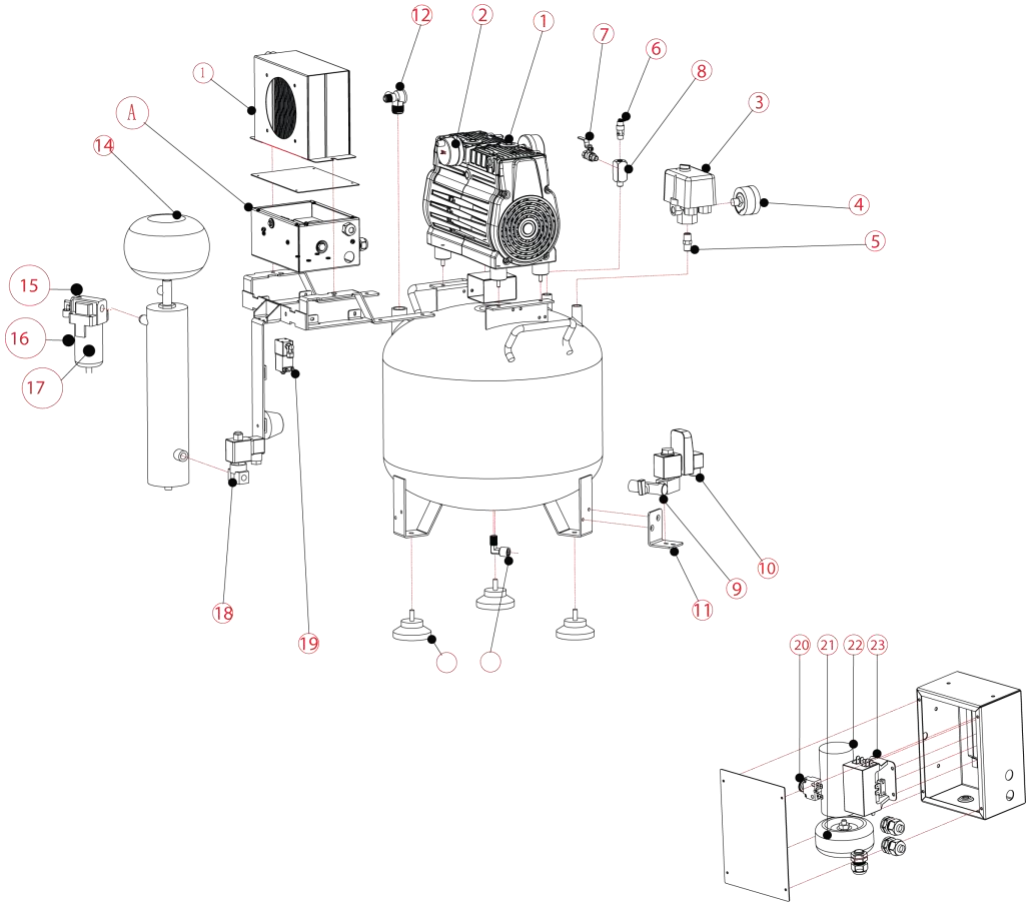
DC6112 Parts List



Item	Part Number	Name	Item	Part Number	Name
1	DC6-P001	Motor 220V	14	DC6-P014	Desiccant Tank
2	DC6-P002	Intake Air Filter	15	DC6-P015	Micron Filter Assembly
3	DC6-P003	Pressure Switch	16	DC6-P016	Micron filter bowl assembly
4	DC6-P004	Pressure Gauge	17	DC6-P017	5 Micron Filter
5	DC6-P005	Union	18	DC6-P018	Pressure relief solenoid Filter
6	DC6-P006	125 PSI pressure relief valve	19	DC6-P019	Pressure relief solenoid Tank
7	DC6-P007	Ball Valve	20	DC6-P020	Resettable fuse
8	DC6-P008	Ball Valve / pressure relief valve Manifold	21	DC6-P021	24V transformer
9	DC6-P009	Tank purge solenoid ball valve	22	DC6-P022	Start capicator
10	DC6-P010	Tank purge solenoid	23	DC6-P023	Low Voltage contact relay
11	DC6-P011	Bracket for purge valve			
12	DC6-P012	Tank Check Valve			
13					

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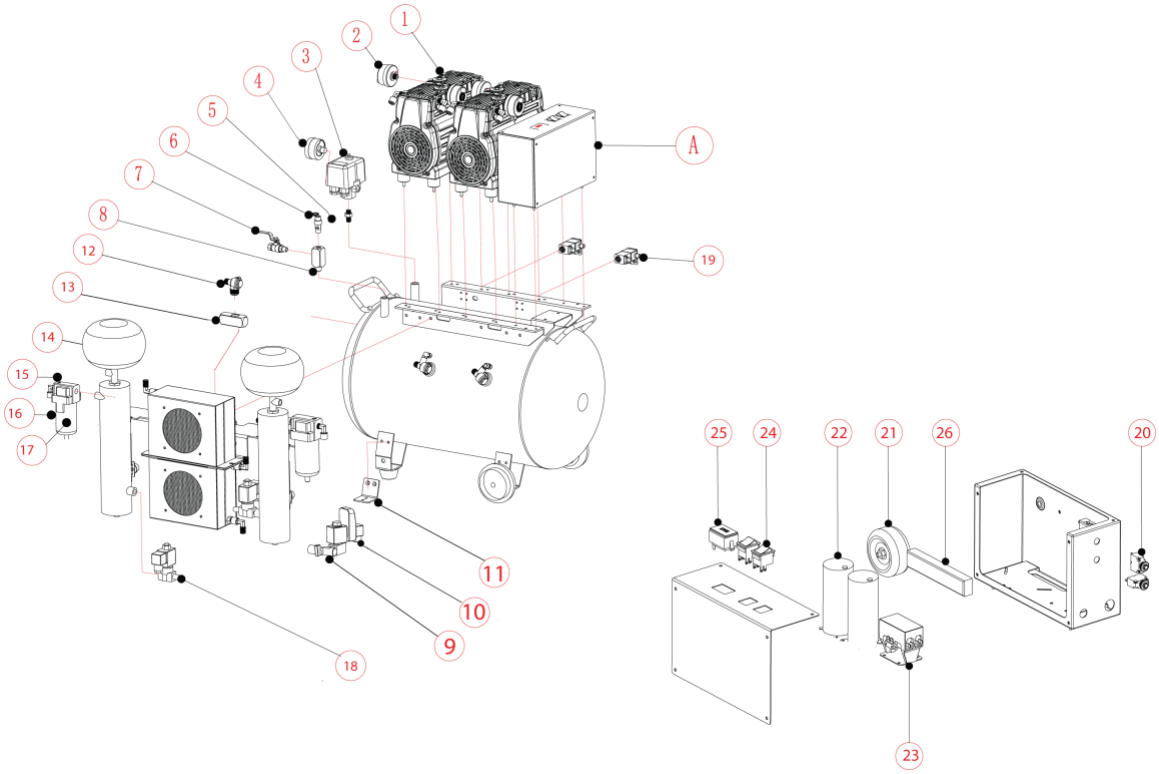
DC6224 Parts List



Item	Part Number	Name	Item	Part Number	Name
1	DC6-P001	Motor 220V	14	DC6-P014	Desiccant Tank
2	DC6-P002	Intake Air Filter	15	DC6-P015	Micron Filter Assembly
3	DC6-P003	Pressure Switch	16	DC6-P016	Micron filter bowl assembly
4	DC6-P004	Pressure Gauge	17	DC6-P017	5 Micron Filter
5	DC6-P005	Union	18	DC6-P018	Pressure relief solenoid Filter
6	DC6-P006	125 PSI pressure relief valve	19	DC6-P019	Pressure relief solenoid Tank
7	DC6-P007	Ball Valve	20	DC6-P020	Resettable fuse
8	DC6-P008	Ball Valve / pressure relief valve Manifold	21	DC6-P021	24V transformer
9	DC6-P009	Tank purge solenoid ball valve	22	DC6-P022	Start capacitor
10	DC6-P010	Tank purge solenoid	23	DC6-P023	Low Voltage contact relay
11	DC6-P011	Bracket for purge valve	24	DC6-P024	Power switch
12	DC6-P012	Tank Check Valve	25	DC6-P025	Hour counter
13			26	DC6-P026	Terminal bus

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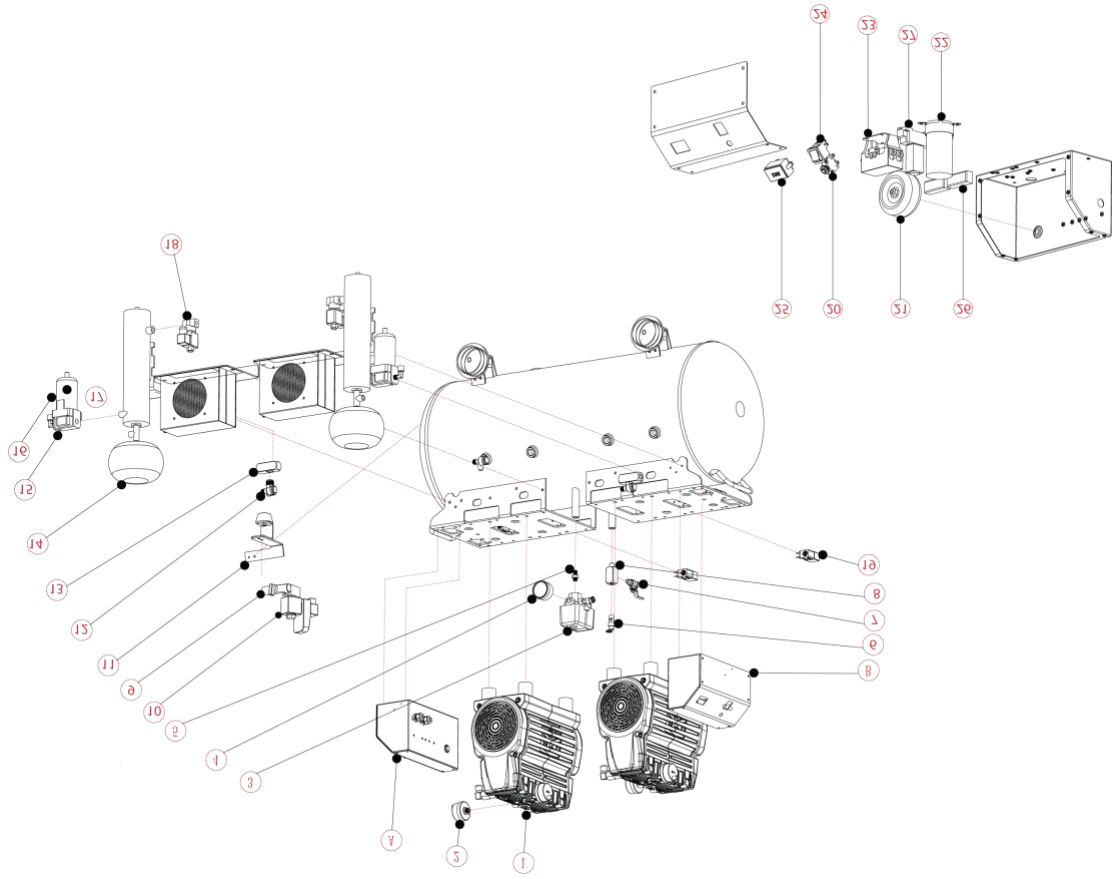
DC6228 Parts List



Item	Part Number	Name	Item	Part Number	Name
1	DC6-P001	Motor 220V	14	DC6-P014	Desiccant Tank
2	DC6-P002	Intake Air Filter	15	DC6-P015	Micron Filter Assembly
3	DC6-P003	Pressure Switch	16	DC6-P016	Micron filter bowl assembly
4	DC6-P004	Pressure Gauge	17	DC6-P017	5 Micron Filter
5	DC6-P005	Union	18	DC6-P018	Pressure relief solenoid Filter
6	DC6-P006	125 PSI pressure relief valve	19	DC6-P019	Pressure relief solenoid Tank
7	DC6-P007	Ball Valve	20	DC6-P020	Resettable fuse
8	DC6-P008	Ball Valve / pressure relief valve Manifold	21	DC6-P021	24V transformer
9	DC6-P009	Tank purge solenoid ball valve	22	DC6-P022	Start capacitor
10	DC6-P010	Tank purge solenoid	23	DC6-P023	Low Voltage contact relay
11	DC6-P011	Bracket for purge valve	24	DC6-P024	Power switch
12	DC6-P012	Tank Check Valve	25	DC6-P025	Hour counter
13			26	DC6-P026	Terminal bus

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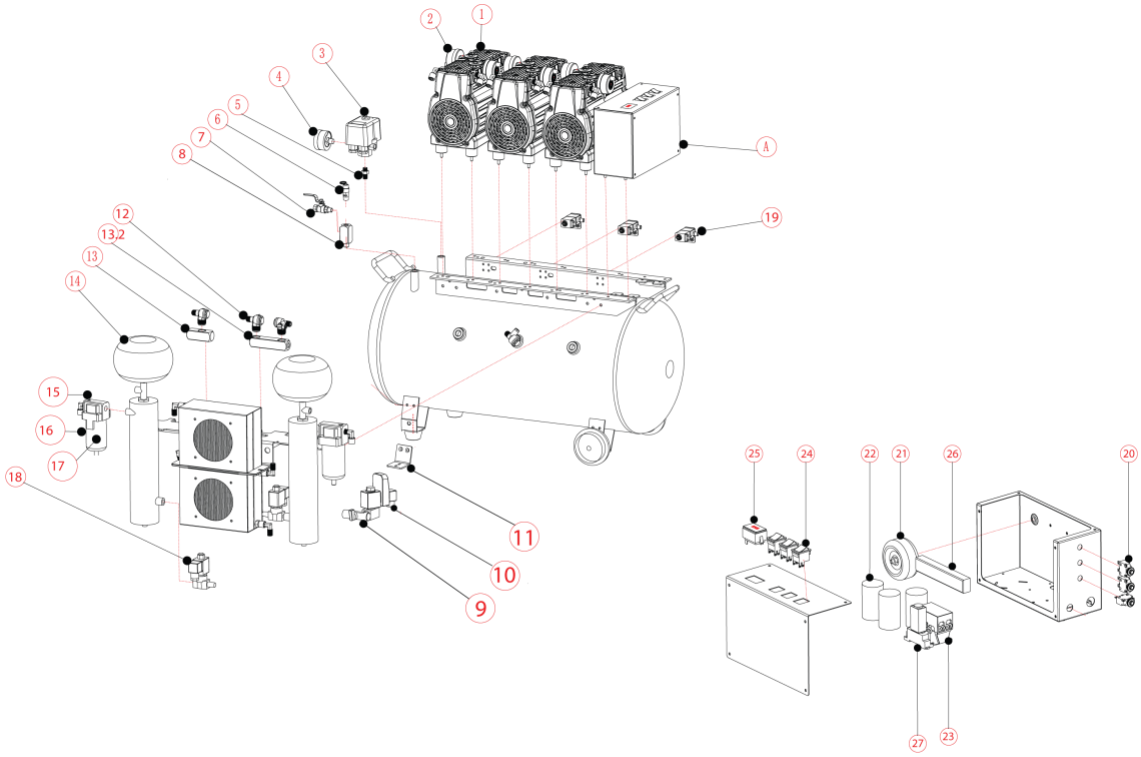
DC6326 Parts List



Item	Part Number	Name	Item	Part Number	Name
1	DC6-P001	Motor 220V	14	DC6-P014	Desiccant Tank
2	DC6-P002	Intake Air Filter	15	DC6-P015	Micron Filter Assembly
3	DC6-P003	Pressure Switch	16	DC6-P016	Micron filter bowl assembly
4	DC6-P004	Pressure Gauge	17	DC6-P017	5 Micron Filter
5	DC6-P005	Union	18	DC6-P018	Pressure relief solenoid Filter
6	DC6-P006	125 PSI pressure relief valve	19	DC6-P019	Pressure relief solenoid Tank
7	DC6-P007	Ball Valve	20	DC6-P020	Resettable fuse
8	DC6-P008	Ball Valve / pressure relief valve Manifold	21	DC6-P021	24V transformer
9	DC6-P009	Tank purge solenoid ball valve	22	DC6-P022	Start capacitor
10	DC6-P010	Tank purge solenoid	23	DC6-P023	Low Voltage contact relay
11	DC6-P011	Bracket for purge valve	24	DC6-P024	Power switch
12	DC6-P012	Tank Check Valve	25	DC6-P025	Hour counter
13			26	DC6-P026	Terminal bus

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TROUBLESHOOTING

FAULT	PROBABLE CAUSE	REMEDY
Pressure drops in the tank	Air leaks at connections	Let the compressor build pressure in the tank to the maximum pressure if possible. Brush soapy water on air connections and look carefully for air bubbles. Tighten leaking connections. If the problem persists, contact a service technician.
The solenoid valve leaks when the compressor is idle	Check valve seal is defective	Let the air in the tank flow out until all the pressure is released. Then remove the check valve plug and clean the valve seat. If necessary, replace the seal and then re-mount all the components.
The compressor stopped and does not start	Overload cut-out operated because of motor overheating	Check that the mains voltage corresponds to specifications. An extension cable which is too thin and too long can cause a voltage drop and cause the motor to overheat. Leave to cool down. Use heavy-duty extension cables. Ensure that the compressor is plugged into a socket as near the consumer unit/fuse box as possible.
	Motor winding burnt out	Contact the helpline
The motor does not start and makes a humming noise	Capacitor burnt out	Replace the start capacitor.
The motor does not start or starts slowly	Low voltage supply to the motor	Check that the mains voltage corresponds to specifications. An extension cable which is too thin and too long can cause a voltage drop and cause the motor to overheat. Leave to cool down. Use heavy-duty extension cables. Ensure that the compressor is

		plugged into a socket as near to the consumer unit/fuse box as possible.
The compressor is noisy with metallic clangs	The compressor head gasket is broken or the valve is faulty	Stop the compressor and contact the dealer.
The compressor does not reach the maximum pressure	The compressor head gasket is broken or the valve is faulty	Stop the compressor and contact the dealer.
The compressor doesn't seem to provide as much air as it did when new and the compressor cuts off within a much shorter period	The pressure switch needs adjusting	Stop the compressor and contact the dealer.
The compressor doesn't seem to provide as much air as it did when new and the compressor cuts off within a much shorter period	The tank is full of water due to condensation	Open the ball valve and release the pressure. Open the drain valve and release the water within the tank. Repeat cycles as needed to drain the tank.
The motor pump unit does not stop when the tank pressure reaches its maximum working pressure (116 PSI) and the safety valve vents air	The pressure switch is defective or needs adjusting	Stop the compressor immediately and contact a qualified service technician.

WARRANTY

All our products sold are guaranteed to be free from defects in workmanship and materials for 5 years on the compressor head and 3 years on all other components, with fewer than 3,500 operating hours. TPC will repair or replace any defective part at no charge. TPC will not be responsible for labor charges or shipping charges to/from the TPC facility. This guarantee does not cover normal wear or scratches on the surface finish. The guarantee does not cover damage resulting from improper installation, misuse, or accidents incurred in shipping and handling. All claims against the freight carrier must be initiated at the time the damaged items are received. The claim is the responsibility of the customer. We continuously improve our products. We reserve the right to make modifications without the need for prior notification and are not obliged to modify previously manufactured items. **(excludes consumables such filter and filter elements).**

