

**AXMINSTER**

# PROfessional

## AP122QC & AP139QC Quiet Compressors



Fully read manual and safety instructions before use. Save this manual for future reference.



Eye protection should be worn



Ear protection should be worn



Dust mask should be worn



Hazard

The symbols above advise the correct safety procedures when using this machine.

### Original Instructions

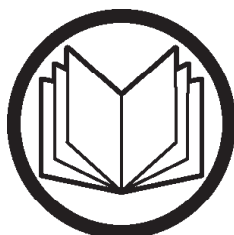
|                |                 |
|----------------|-----------------|
| Code           | 113340 / 113341 |
| Version        | 1               |
| Published Date | 1/4/2026        |

# DECLARATION OF CONFORMITY

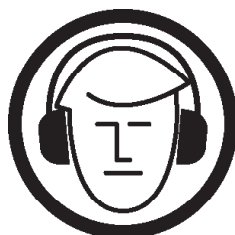
| Object of the Declaration: Axminster Professional AP139QC Quiet Compressor 113340                                                                                                                                                                                                                                           |                                                                                                                                                          |                                                                                                                                                                                                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>UK:</b><br>Electromagnetic Compatibility Regulations<br>2016 as amended<br>Directive 2011/65/EU (RoHS 2)<br>Restriction of the Use of Certain Hazardous                                                                                                                                                                  | <b>EU:</b><br>Machinery Directive 2006/42/EC<br>EMC Directive 2014/35/EU<br>Directive 2011/65/EU (RoHS 2)<br>Restriction of the Use of Certain Hazardous | <b>UK Address:</b><br>Newhow Limited.<br>Trading as Axminster Tools<br>Weycroft Avenue<br>Axminster. Devon<br>EX13 5PH<br><b>European Address:</b><br>Newhow Limited.<br>Trading as Axminster Tools<br>A-201. Haagsche Hof<br>Parkstraat 83<br>The Hague<br>2514 JG<br>Netherlands |
| <b>Standards used or references to the other technical specifications in relation to which conformity is declared:</b><br>EN 1012-1: 2010, ISO 12100:2010, EN 286-1:2000/A2:2005, EN 764-7:2002, EN 60204-1:2018/A1:2025,<br>IEC 55014-1:2021, IEC 55014-2:2021, IEC 61000-3-2:2019+A1:2021, 61000-3-3:2013+A1:2019+A2:2021 |                                                                                                                                                          |                                                                                                                                                                                                                                                                                    |
| <b>Date:</b> 5/15/2026<br><b>Place:</b> Axminster                                                                                                                                                                                                                                                                           |  Charlie Cross<br>Operations Director                                   |                                                                                                                                                                                                                                                                                    |

| Object of the Declaration: Axminster Professional AP122QC Quiet Compressor 113341                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>UK:</b><br>Supply of Machinery (Safety) Regulations<br>2008 as amended<br>Electromagnetic Compatibility Regulations<br>2016 as amended<br>Directive 2011/65/EU (RoHS 2)<br>Restriction of the Use of Certain Hazardous<br>Substances in Electrical and Electronic<br>Equipment Regulations 2012                          | <b>EU:</b><br>Machinery Directive 2006/42/EC<br>EMC Directive 2014/35/EU<br>Directive 2011/65/EU (RoHS 2)<br>Restriction of the Use of Certain Hazardous<br>Substances in Electrical and Electronic Equipment<br>Regulations 2012 | <b>UK Address:</b><br>Newhow Limited.<br>Trading as Axminster Tools<br>Weycroft Avenue<br>Axminster. Devon<br>EX13 5PH<br><b>European Address:</b><br>Newhow Limited.<br>Trading as Axminster Tools<br>A-201. Haagsche Hof<br>Parkstraat 83<br>The Hague<br>2514 JG<br>Netherlands |
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| <b>Date:</b> 5/15/2026<br><b>Place:</b> Axminster                                                                                                                                                                                                                                                                           |  Charlie Cross<br>Operations Director                                                                                                          |                                                                                                                                                                                                                                                                                    |

The symbols below advise the correct safety procedures when using this machine.



Fully read manual  
and safety instructions  
before use



Ear protection  
should be worn



Eye protection  
should be worn



Dust mask  
should be worn



HAZARD

## I. Features

1. DRS series air compressor pump
- 1-1. High quality components. Reliable and easy maintenance.
- 1-2. Low noise, high efficiency filter to reduce noise.
- 1-3. Equipped with anti-vibration pad to achieve low vibration.
- 1-4. High efficient motor with built-in over-heat protector inside.
- 1-5. Air discharge tube is made of stainless steel.

## 2. Components of control system

- 2-1. Reliable components: pressure switch, check valve, pressure gauge, solenoid, safety valve.

## 3. Air tank

- 3-1. Inner surface is coated with epoxy to avoid rusting (optional).
- 3-2. Made of high strength steel and designed in accordance with ASME standard.
- 3-3. Equipped with safety valve to ensure safe operation.
- 3-4. Powder painting to create exquisite appearance and hard finish for long lasting.

## GENERAL INSTRUCTIONS FOR 230V MACHINES

The following will enable you to observe good working practices, keep yourself and fellow workers safe and maintain your tools and equipment in good working order.



**WARNING!! KEEP TOOLS AND EQUIPMENT OUT OF REACH OF YOUNG CHILDREN**



**KEEP WORK AREA AS UNCLUTTERED AS IS PRACTICAL. UNDER NO CIRCUMSTANCES SHOULD CHILDREN BE ALLOWED IN WORK AREAS.**

### Mains Powered Tools

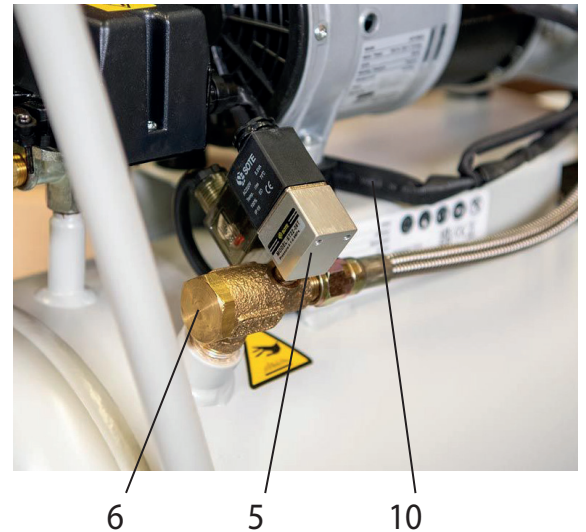
- Tools are supplied with an attached 13 Amp plug.
- Inspect the cable and plug to ensure that neither are damaged. Repair if necessary by a suitably qualified person.
- Do not use when or where it is liable to get wet.

### Workplace

- Do not use 230V a.c. powered tools anywhere within a site area that is flooded.
- Keep machine clean.
- Leave machine unplugged until work is about to commence.
- Always disconnect by pulling on the plug body and not the cable.

- Carry out a final check e.g. check the cutting tool is securely tightened in the machine and the correct speed and function set.
- Ensure you are comfortable before you start work, balanced, not reaching etc.
- Wear appropriate safety clothing, goggles, gloves, masks etc. Wear ear defenders at all times.
- If you have long hair wear a hair net or helmet to prevent it being caught up in the rotating parts of the machine.
- Consideration should be given to the removal of rings and wristwatches.
- Consideration should also be given to non-slip footwear etc.
- If another person is to use the machine, ensure they are suitably qualified to use it.
- Do not use the machine if you are tired or distracted
- Do not use this machine within the designated safety areas of flammable liquid stores or in areas where there may be volatile gases.
- Check cutters are correct type and size, are undamaged and are kept clean and sharp, this will maintain their operating performance and lessen the loading on the machine.
- OBSERVE.... make sure you know what is happening around you and USE YOUR COMMON SENSE.

## DESCRIPTIONS & FUNCTIONS



| NO. | Name                | Description                                                 | NO. | Name                 | Description                                                                                                                                                                                                                                                                           |
|-----|---------------------|-------------------------------------------------------------|-----|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Pressure switch     | Pressure control, Leveling rod to ON/OFF the unit manually. | 6   | Check valve          | To avoid compressed air return back.                                                                                                                                                                                                                                                  |
| 2   | Tank pressure gauge | Indicate air tank pressure.                                 | 7   | Drain valve          | Drain water when tank pressure under 1 kg/cm <sup>2</sup> G.<br>Close—clockwise <br>Open—counter clockwise  |
| 3   | Safety valve        | Tank over-pressure protection.                              | 8   | Motor                | Built-in over-heat protection.                                                                                                                                                                                                                                                        |
| 4   | Air cock            | Discharge outlet<br>Open— turn C.C.W.<br>Close— turn C.W.   | 9   | Air tank             | Store compressed air.                                                                                                                                                                                                                                                                 |
| 5   | Solenoid valve      | Power off, air discharge, unloading start.                  | 10  | Electric cord (plug) | Ensure correct voltage adopted.<br>Ensure plug & earth wiring are properly installed.                                                                                                                                                                                                 |



### Installation and precautions

#### 1. Installation essentials

- 1-1. Please install the unit in position where it is easy to do maintenance and good ventilation.
- 1-2. Do not install in damp or dusty places.
- 1-3. Install on flat and firm ground to prevent from slipping.

#### 2. Electric wiring

- 2-1. Ensure the voltage and frequency is correct.
- 2-2. For safety reason, always follow electricity instructions, and equipped with NFB (Non Fuse Breaker). Besides, the power voltage should not be lower than 90% of the required standard voltage.
- 2-3. The joint of power supply should be fixed firmly to avoid any disconnection and break down.

### 3. Protection points

- 3-1. The unit is equipped with pressure switch to avoid pressure too high: when air tank pressure reaches to the upper pre-set value, the pressure switch will cut-off the motor power to stop operating the unit. (stand-by condition).
- 3-2. When the unit is in stand-by condition and air pressure drops to the pre-set lower value, the pressure switch will resume to "ON", and the motor will re-start to operate.
- 3-3. Safety valve is fitted to prevent over-pressure; over-temperature protection is equipped to protect the motor.
- 3-4. While abnormal high temperature occurs, the motor protection switch will be actuated to shut off the motor and stop running the unit.

## OPERATION & MAINTENANCE

### Operation

#### Check before start

- 1-1. Make sure if power source and electrical connections comply with local electrical regulations, equipped with NFB (Non Fuse Breaker) and earth wiring.
- 1-2. Check set bolts and nuts if looseness.
- 1-3. Check if electrical cables are correct.
- 1-4. Check if voltage is correct.

#### Check under operation

- 2-1. Check if compressed air pressure rises normally.
- 2-2. Check if loading current of motor remains in standard level.
- 2-3. Check if all safety device work properly by hand.
- 2-4. Never touch cover under operation. Stay away from high heat components, motor, and fan to avoid injury.
- 2-5. For long lasting life, the rate of loading cycle is suggested to be not over 70%.

### Maintenance

#### Daily maintenance

- 1-1. Release water from air tank after daily use. (Please implement under 1kg/cm<sup>2</sup>.G)
- 1-2. Check if compressed air pressure rises normally in running.
- 1-3. Clean compressor cover on both sides to always keep inlet valve clean.
- 1-4. Check if abnormal sound or vibration happens.
- 1-5. Check if voltage & current of the power supply to the motor are normal.
- 1-6. Check and clean impurities from inlet filter element every month (300 hours).

## PERIODICAL MAINTENANCE

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| Item                                             | Weekly | Monthly | Yearly | 2 Year |
|--------------------------------------------------|--------|---------|--------|--------|
| Air tank drain valve                             | ○      |         |        |        |
| Check and clean inlet air filter element         |        | ○       | ◎      |        |
| Check and clean the ventilation area of the unit |        | ○       |        |        |
| Check pressure switch and safety valve           |        | ○       |        |        |
| Check compression ring and cylinder              |        |         | ○      | ◎      |
| Check the valve assembly                         |        |         | ○      | ◎      |

### KEY:

○ Check / Maintain

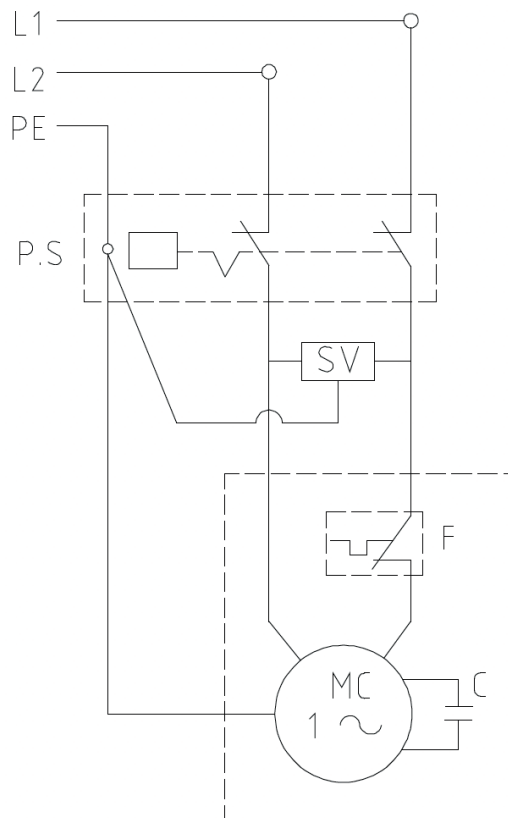
◎ Renew

| Troubles   |                                    | Possible Causes                   | Action |        |       |
|------------|------------------------------------|-----------------------------------|--------|--------|-------|
|            |                                    |                                   | Check  | Repair | Renew |
| On Running | Pressure cannot be raised properly | Compression ring is worn-out      |        | V      | V     |
|            |                                    | Cylinder is worn-out              |        | V      | V     |
|            |                                    | Valve assy. Or gaskets leaking    |        | V      | V     |
|            |                                    | Drain valve leaking               |        | V      | V     |
|            |                                    | Intake air filter is blocked      |        | V      | V     |
|            |                                    | Pipe leaking                      |        | V      | V     |
|            |                                    | Defective pressure gauge          |        |        | V     |
|            |                                    | Solenoid valve leaking            |        | V      | V     |
|            |                                    | Safety valve leaking              |        | V      | V     |
|            | Abnormal pressure                  | Defective pressure gauge          |        |        | V     |
|            |                                    | Pressure switch worked improperly |        | V      | V     |
|            |                                    | Defective solenoid valve          |        | V      | V     |
|            | Abnormal noise                     | Piston ring is worn-out           |        | V      | V     |
|            |                                    | Defective valve assy.             |        | V      | V     |
|            |                                    | Fixing bolts loose                | V      | V      |       |
|            |                                    | Air Filter loose                  | V      | V      |       |
|            | Abnormal vibration                 | Connecting rod vibration          |        | V      | V     |
|            |                                    | Defective bearing                 |        | V      | V     |
|            |                                    | Crankshaft loose                  |        | V      | V     |
|            |                                    | Fixing bolts loose                | V      | V      |       |
|            |                                    | Uneven foundation floor           | V      | V      |       |
|            |                                    | Defective anti-vibration pads     | V      | V      |       |

## TROUBLE SHOOTING

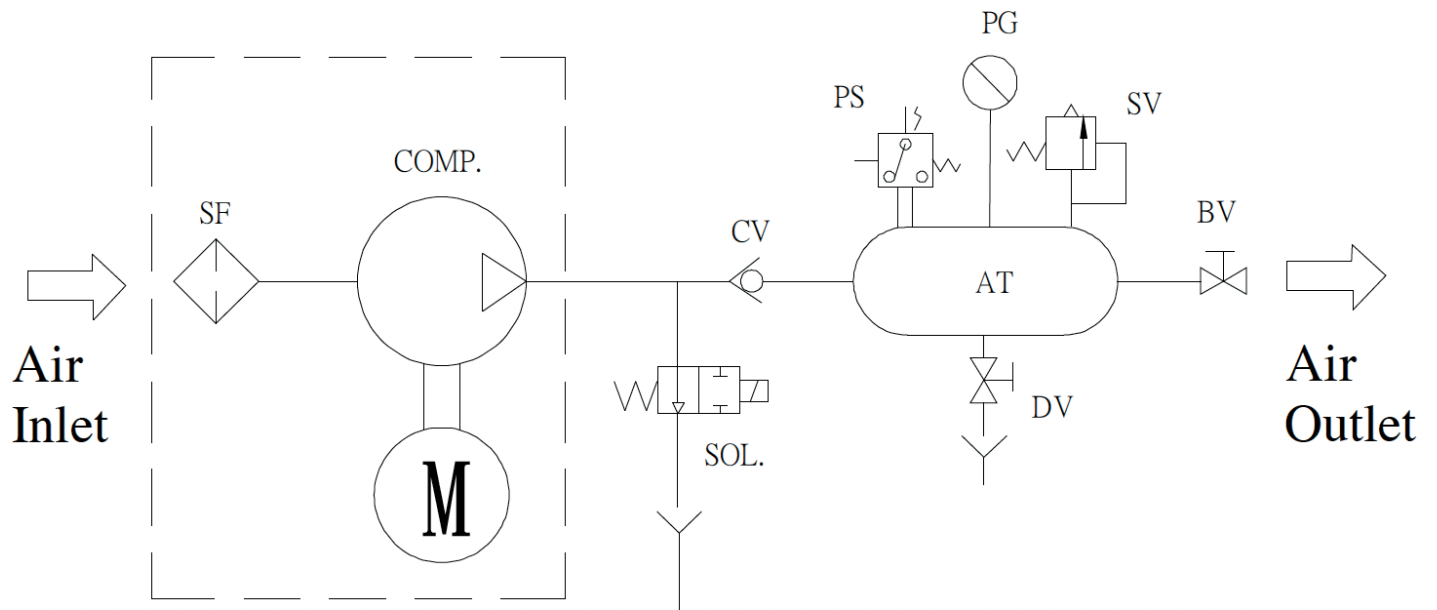
| Troubles        |                      | Possible Causes                    | Action |        |       |
|-----------------|----------------------|------------------------------------|--------|--------|-------|
|                 |                      |                                    | Check  | Repair | Renew |
| On Running      | Abnormal temperature | Low voltage                        | V      | V      |       |
|                 |                      | High ambient temperature           | V      | V      |       |
|                 |                      | Ventilation blocked                | V      | V      |       |
|                 |                      | Valve assy. broken                 |        | V      | V     |
|                 |                      | Bearing broken                     |        | V      | V     |
|                 |                      | Fault motor                        |        | V      | V     |
|                 |                      | Connecting rod loose               |        | V      | V     |
|                 |                      | Crankshaft loose                   | V      | V      |       |
| Unable to start | Motor fail to start  | Low voltage                        | V      | V      |       |
|                 |                      | Capacitor broken                   |        | V      | V     |
|                 |                      | Electric wiring is loose           | V      | V      |       |
|                 |                      | Motor current protector jumped-out | V      | V      |       |
|                 |                      | Fault motor                        |        | V      | V     |
|                 |                      | Bearing broken                     |        | V      | V     |
|                 |                      | Fuses burned out                   | V      | V      |       |
|                 |                      | Defective pressure switch          |        | V      | V     |
|                 |                      | Solenoid broken                    |        | V      | V     |
|                 | Abnormal motor sound | Low voltage                        | V      | V      |       |
|                 |                      | Check valve leaking                |        | V      | V     |





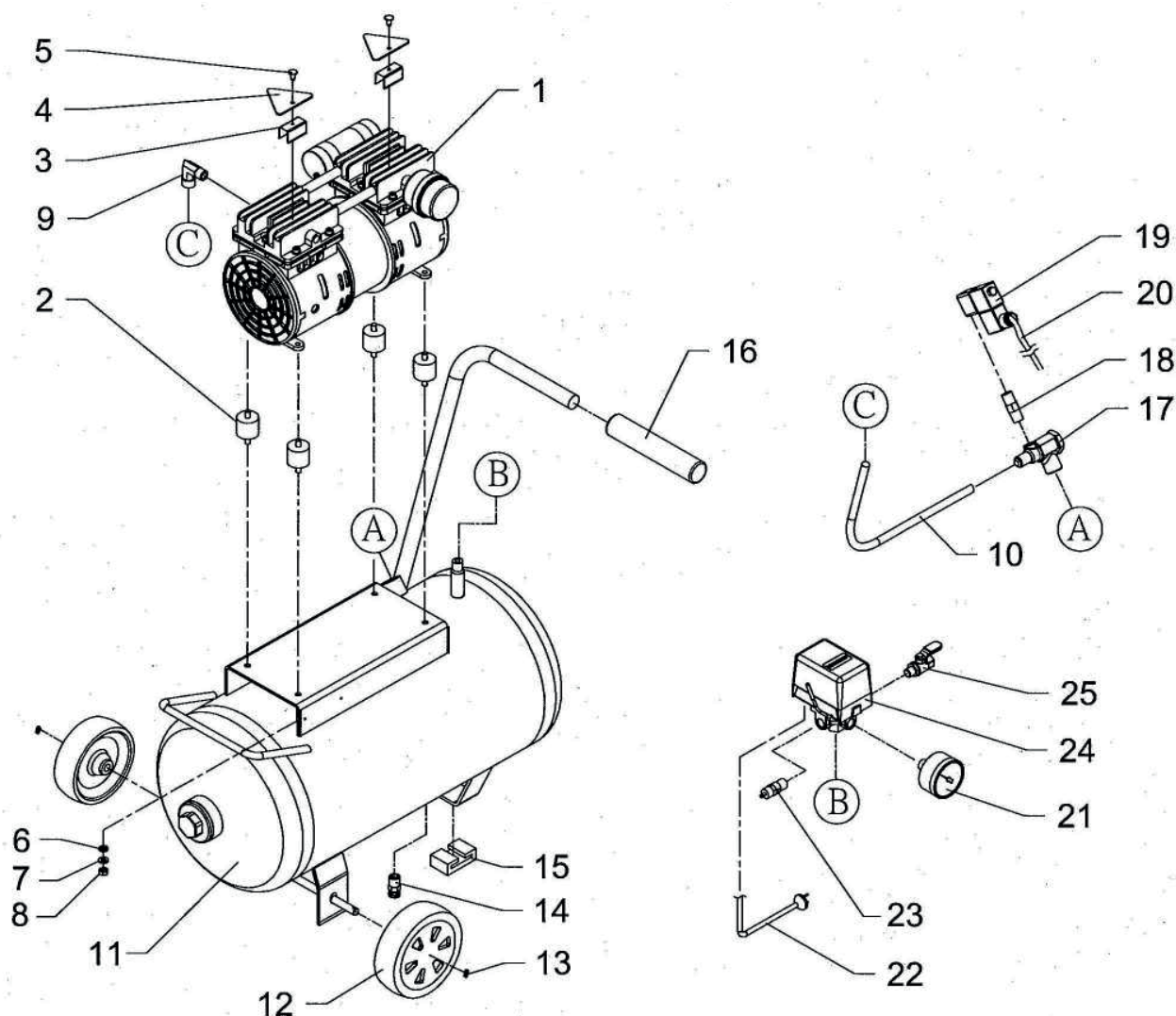
| Symbol | Description         |
|--------|---------------------|
| P.S    | Pressure switch     |
| SV     | Solenoid valve      |
| MC     | Compressor motor    |
| C      | Motor capacitor     |
| F      | Over-heat protector |
| PE     | Earth wire          |
| L1,L2  | Electric cord       |

## AIR FLOW DIAGRAM



| Symbol | Description      | Symbol | Description     |
|--------|------------------|--------|-----------------|
| SF     | Inlet air filter | PS     | Pressure switch |
| M      | Motor            | SV     | Safety valve    |
| COMP   | Compressor unit  | PG     | Pressure switch |
| SOL.   | Solenoid valve   | DV     | Drain valve     |
| CV     | Check valve      | BV     | Ball valve      |
| AT     | Air tank         |        |                 |

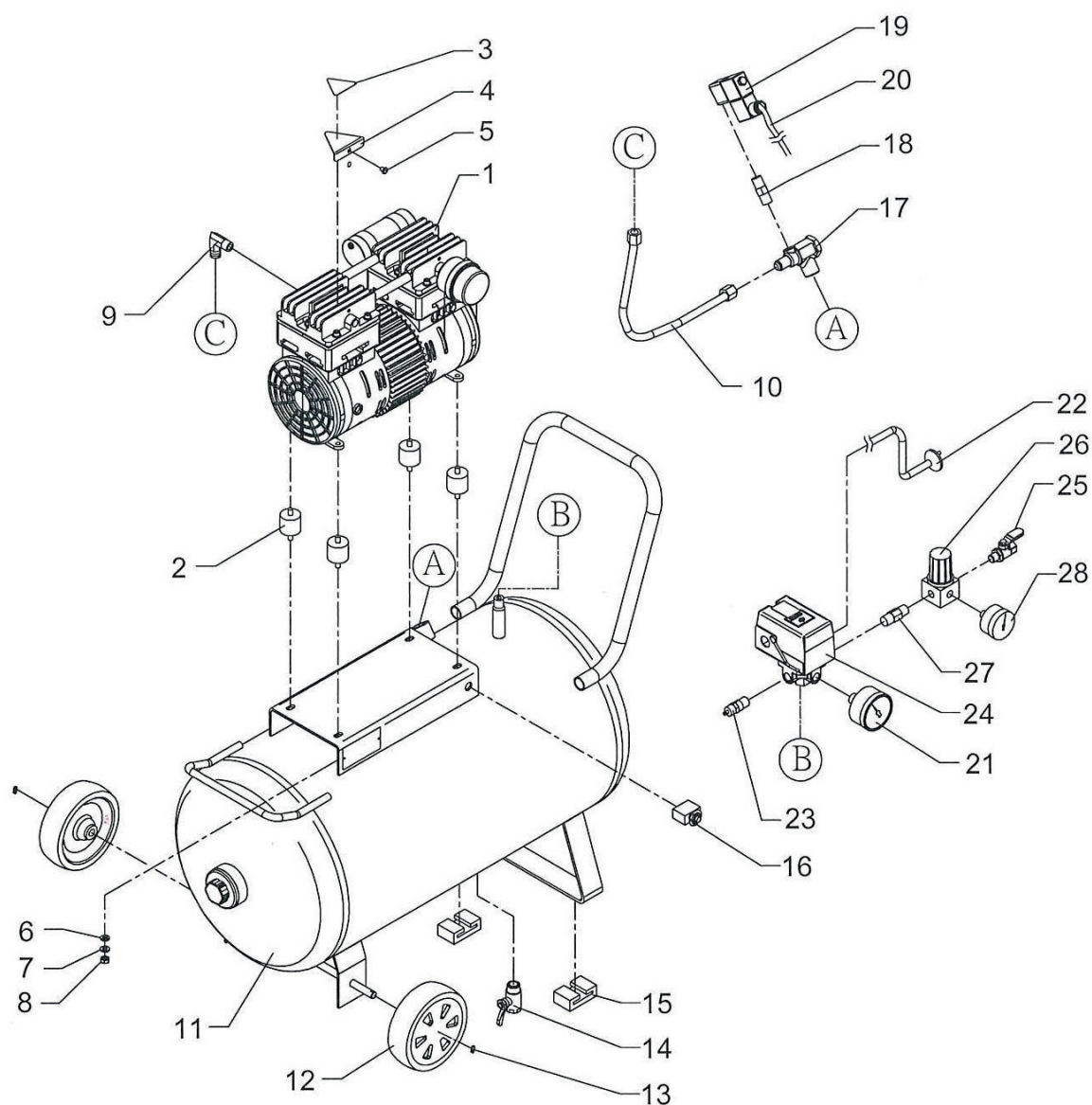
## PARTS BREAKDOWN - AP122QC COMPRESSOR



| Part | Description     | Qty |
|------|-----------------|-----|
| 1    | Air Compressor  | 1   |
| 2    | Yielding Rubber | 4   |
| 3    | Warning Clip    | 2   |
| 4    | Warning Plate   | 2   |
| 5    | Rivet           | 2   |
| 6    | Washer          | 4   |
| 7    | Spring Washer   | 4   |
| 8    | Set Nut         | 4   |
| 9    | Outlet Elbow    | 1   |
| 10   | Flexible Pipe   | 1   |
| 11   | Air Receiver    | 1   |
| 12   | Wheel           | 2   |

| Part | Description          | Qty |
|------|----------------------|-----|
| 13   | Cotter Pin           | 2   |
| 14   | Drain Valve          | 1   |
| 15   | Yielding Rubber      | 2   |
| 16   | Handle Jacket        | 1   |
| 17   | Check Valve          | 1   |
| 18   | Outer Socket         | 1   |
| 19   | Solenoid Valve       | 1   |
| 20   | Magnetic Switch Line | 1   |
| 21   | Press Gauge          | 1   |
| 22   | Power Calbe          | 1   |
| 23   | Safety Valve         | 1   |
| 24   | Press Switch         | 1   |
| 25   | Air Cock             | 1   |

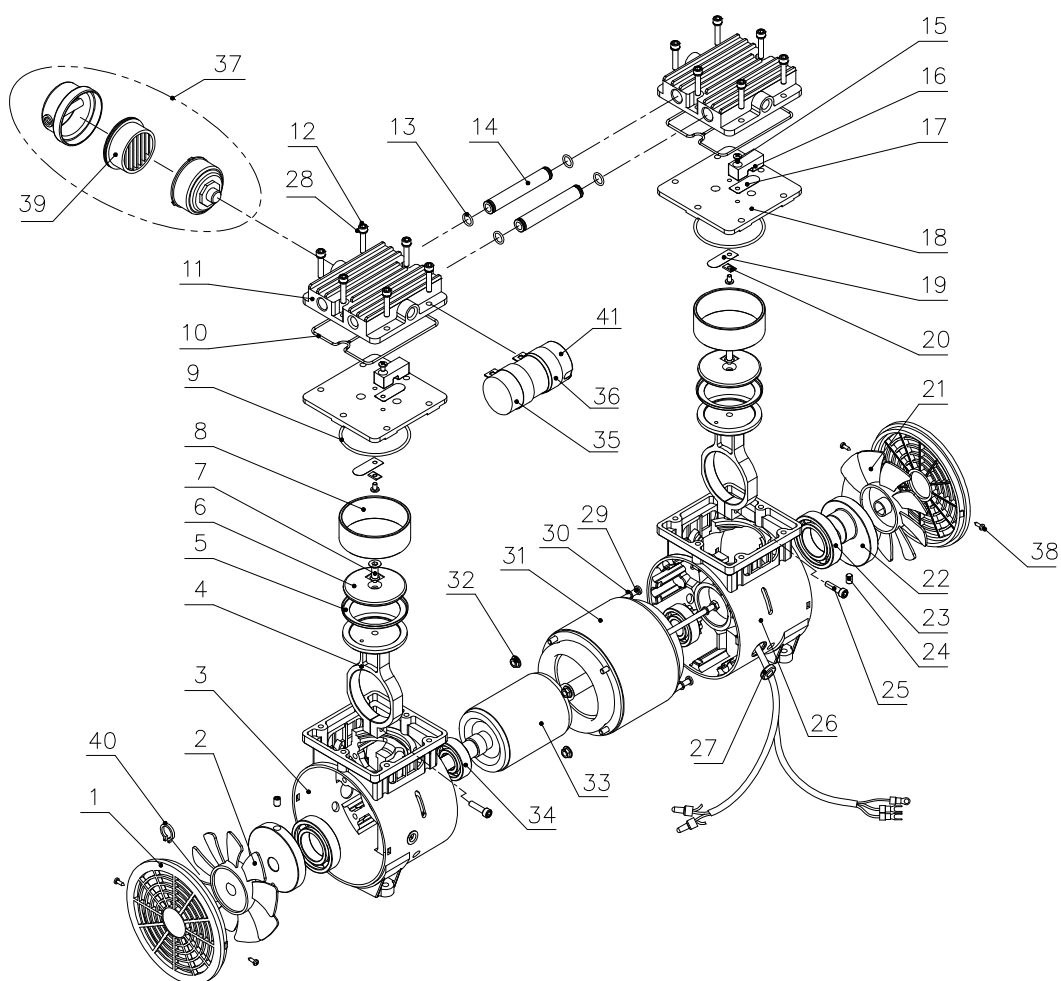
## PARTS BREAKDOWN - AP139QC COMPRESSOR



| Part | Description      | Qty |
|------|------------------|-----|
| 1    | Air Compressor   | 1   |
| 2    | Yielding Rubber  | 4   |
| 3    | Warning Stickers | 2   |
| 4    | Warning Plate    | 2   |
| 5    | Rivet            | 2   |
| 6    | Washer           | 4   |
| 7    | Spring Washer    | 4   |
| 8    | Set Nut          | 4   |
| 9    | Outlet Elbow     | 1   |
| 10   | Flexible Pipe    | 1   |
| 11   | Air Receiver     | 1   |
| 12   | Wheel            | 2   |
| 13   | Cotter Pin       | 2   |
| 14   | Drain Valve      | 1   |

| Part | Description              | Qty |
|------|--------------------------|-----|
| 15   | Yielding Rubber          | 2   |
| 16   | Thermal Circuit Breaker  | 1   |
| 17   | Check Valve              | 1   |
| 18   | Outer Socket             | 1   |
| 19   | Solenoid Valve           | 1   |
| 20   | Magnetic Switch Line     | 1   |
| 21   | Press Gauge              | 1   |
| 22   | Power Cable              | 1   |
| 23   | Safety Valve             | 1   |
| 24   | Press Switch             | 1   |
| 25   | Air Cock                 | 1   |
| 26   | Air Pressure Regulator   | 1   |
| 27   | Outer Socket             | 1   |
| 28   | Press Gauge (air outlet) | 1   |

# PUMP BREAKDOWN - AP122QC COMPRESSOR

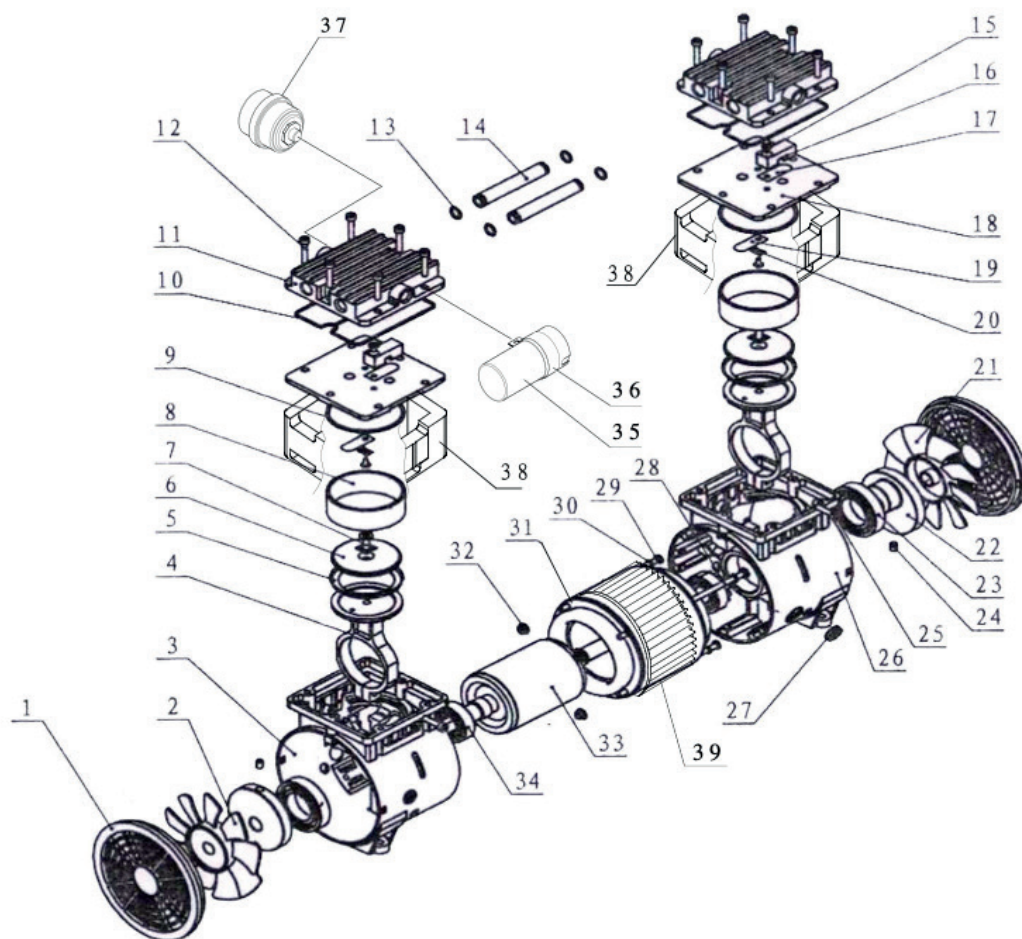


| Part | Description               | Qty |
|------|---------------------------|-----|
| 1    | Front Cover               | 2   |
| 2    | Left Fan                  | 1   |
| 3    | Left Crankcase            | 1   |
| 4    | Connecting Rod            | 2   |
| 5    | Compression Ring          | 2   |
| 6    | Connecting Rod Cover      | 2   |
| 7    | Set Bolt                  | 2   |
| 8    | Cylinder                  | 2   |
| 9    | Packing                   | 2   |
| 10   | Packing                   | 2   |
| 11   | Cylinder Head             | 2   |
| 12   | Set Bolt                  | 12  |
| 13   | O Ring                    | 4   |
| 14   | Inlet-Outlet Joint Piping | 2   |
| 15   | Set Bolt                  | 4   |
| 16   | Cushion Plate             | 2   |
| 17   | Outlet Valve Plate        | 2   |
| 18   | Valve                     | 2   |
| 19   | Inlet Valve Plate         | 2   |
| 20   | Set Plate                 | 2   |
| 21   | Right Fan                 | 1   |

| Part | Description            | Qty |
|------|------------------------|-----|
| 22   | Crank Shaft            | 2   |
| 23   | Rod Bearing            | 2   |
| 24   | Set Bolt               | 2   |
| 25   | Set Bolt               | 2   |
| 26   | Right Crankcase        | 1   |
| 27   | Strain Relief Bushings | 1   |
| 28   | Washer                 | 12  |
| 29   | Set Bolt               | 4   |
| 30   | Spring Washer          | 4   |
| 31   | Motor Starter          | 1   |
| 32   | Set Nut                | 2   |
| 33   | Motor Rotor            | 1   |
| 34   | Motor Bearing          | 2   |
| 35   | Condenser              | 1   |
| 36   | Condenser Set Ring     | 2   |
| 37   | Air Cleaner Assembly   | 1   |
| 38   | Set Bolt               | 4   |
| 39   | Air Cleaner Element    | 1   |
| 40   | MAndrels Ring          | 2   |
| 41   | Condenser Cap Jacket   | 1   |



## PUMP BREAKDOWN - AP139QC COMPRESSOR



| Part | Description               | Qty |
|------|---------------------------|-----|
| 1    | Front Cover               | 2   |
| 2    | Left Fan                  | 1   |
| 3    | Left Crankcase            | 1   |
| 4    | Connecting Rod            | 2   |
| 5    | Compression Ring          | 2   |
| 6    | Connecting Rod Cover      | 2   |
| 7    | Set Bolt                  | 2   |
| 8    | Cylinder                  | 2   |
| 9    | Packing                   | 2   |
| 10   | Packing                   | 2   |
| 11   | Cylinder Head             | 2   |
| 12   | Set Bolt                  | 12  |
| 13   | O Ring                    | 4   |
| 14   | Inlet-Outlet Joint Piping | 2   |
| 15   | Set Bolt                  | 4   |
| 16   | Cushion Plate             | 2   |
| 17   | Outlet Valve Plate        | 2   |
| 18   | Valve                     | 2   |
| 19   | Inlet Valve Plate         | 2   |
| 20   | Set Plate                 | 2   |

| Part | Description            | Qty |
|------|------------------------|-----|
| 21   | Right Fan              | 1   |
| 22   | Crank Shaft            | 2   |
| 23   | Rod Bearing            | 2   |
| 24   | Set Bolt               | 2   |
| 25   | Set Bolt               | 2   |
| 26   | Right Crankcase        | 1   |
| 27   | Strain Relief Bushings | 1   |
| 28   | Set Bolt               | 2   |
| 29   | Set Bolt               | 2   |
| 30   | Spring Washer          | 4   |
| 31   | Motor Starter          | 1   |
| 32   | Set Nut                | 2   |
| 33   | Motor Rotor            | 1   |
| 34   | Motor Bearing          | 2   |
| 35   | Condenser              | 1   |
| 36   | Condenser Set Ring     | 1   |
| 37   | Air Cleaner            | 1   |
| 38   | Spacer                 | 2   |
| 39   | Motor Cover            | 1   |
|      |                        |     |





