

Instruction Book

GX 11, GX 7

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1 Safety precautions

1.1 Safety icons

Explanation

	Danger for life
	Warning
	Important note

1.2 Safety precautions during installation

	All responsibility for any damage or injury resulting from neglecting these precautions, or non-observance of the normal caution and care required for installation, operation, maintenance and repair, even if not expressly stated, will be disclaimed by the manufacturer.
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General precautions

1. The operator must employ safe working practices and observe all related local work safety requirements and regulations.
2. If any of the following statements does not comply with local legislation, the stricter of the two shall apply.
3. Installation, operation, maintenance and repair work must only be performed by authorised, trained, specialised personnel.
4. The compressor is not considered capable of producing air of breathing quality. For air of breathing quality, the compressed air must be adequately purified according to local legislation and standards.
5. Before any maintenance, repair work, adjustment or any other non-routine checks, stop the compressor, press the emergency stop button, switch off the voltage and depressurise the compressor. In addition, the power isolating switch must be opened and locked.
6. Never play with compressed air. Do not apply the air to your skin or direct an air stream at people. Never use the air to clean dirt from your clothes. When using the air to clean equipment, do so with extreme caution and wear eye protection.

Precautions during installation

1. The machine must only be lifted using suitable equipment in accordance with local safety regulations. Loose or pivoting parts must be securely fastened before lifting. It is strictly forbidden to dwell or stay in the risk zone under a lifted load. Lifting acceleration and deceleration must be kept within safe limits. Wear a safety helmet when working in the area of overhead or lifting equipment.
2. Place the machine where the ambient air is as cool and clean as possible. If necessary, install a suction duct. Never obstruct the air inlet. Care must be taken to minimise the entry of moisture at the inlet air.
3. Any blanking flanges, plugs, caps and desiccant bags must be removed before connecting the pipes.
4. Air hoses must be of correct size and suitable for the working pressure. Never use frayed, damaged or worn hoses. Distribution pipes and connections must be of the correct size and suitable for the working pressure.
5. The aspirated air must be free of flammable fumes, vapours and particles, e.g. paint solvents, that can lead to internal fire or explosion.
6. Arrange the air intake so that loose clothing worn by people cannot be sucked in.
7. Ensure that the discharge pipe from the compressor to the aftercooler or air net is free to expand under heat and that it is not in contact with or close to flammable materials.
8. No external force may be exerted on the air outlet valve; the connected pipe must be free of strain.
9. If remote control is installed, the machine must bear a clear sign stating: DANGER: This machine is remotely controlled and may start without warning.

The operator has to make sure that the machine is stopped and that the isolating switch is open and locked before any maintenance or repair. As a further safeguard, persons switching on remotely controlled machines shall take adequate precautions to ensure that there is no one checking or working on the machine. To this end, a suitable notice shall be affixed to the start equipment.
10. Air-cooled machines must be installed in such a way that an adequate flow of cooling air is available and that the exhausted air does not recirculate to the compressor air inlet or cooling air inlet.
11. The electrical connections must correspond to the local codes. The machines must be earthed and protected against short circuits by fuses in all phases. A lockable power isolating switch must be installed near the compressor.
12. On machines with automatic start-stop system or if the automatic restart function after voltage failure is activated, a sign stating "This machine may start without warning" must be affixed near the instrument panel.
13. In multiple compressor systems, manual valves must be installed to isolate each compressor. Non-return valves (check valves) must not be relied upon for isolating pressure systems.
14. Never remove or tamper with the safety devices, guards or insulation fitted on the machine. Every pressure vessel or auxiliary installed outside the machine to contain air above atmospheric pressure must be protected by a pressure-relieving device or devices as required.
15. Pipework or other parts with a temperature in excess of 80°C (176°F) and which may be accidentally touched by personnel in normal operation must be guarded or insulated. Other high-temperature pipework must be clearly marked.
16. For water-cooled machines, the cooling water system installed outside the machine has to be protected by a safety device with set pressure according to the maximum cooling water inlet pressure.

17. If the ground is not level or can be subject to variable inclination, consult the manufacturer.

	Also consult following safety precautions: Safety precautions during operation and Safety precautions during maintenance. These precautions apply to machinery processing or consuming air or inert gas. Processing of any other gas requires additional safety precautions typical to the application which are not included herein. Some precautions are general and cover several machine types and equipment; hence some statements may not apply to your machine.
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1.3 Safety precautions during operation

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6. Never play with compressed air. Do not apply the air to your skin or direct an air stream at people. Never use the air to clean dirt from your clothes. When using the air to clean equipment, do so with extreme caution and wear eye protection.

Precautions during operation

1. Use only the correct type and size of hose end fittings and connections. When blowing through a hose or air line, ensure that the open end is held securely. A free end will whip and may cause injury. Make sure that a hose is fully depressurized before disconnecting it.
2. Persons switching on remotely controlled machines shall take adequate precautions to ensure that there is no one checking or working on the machine. To this end, a suitable notice shall be affixed to the remote start equipment.
3. Never operate the machine when there is a possibility of taking in flammable or toxic fumes, vapours or particles.

4. Never operate the machine below or in excess of its limit ratings.
5. Keep all bodywork doors shut during operation. The doors may be opened for short periods only, e.g. to carry out routine checks. Wear ear protectors when opening a door.
6. People staying in environments or rooms where the sound pressure level reaches or exceeds 90 dB(A) shall wear ear protectors.
7. Periodically check that:
 - All guards are in place and securely fastened
 - All hoses and/or pipes inside the machine are in good condition, secure and not rubbing
 - There are no leaks
 - All fasteners are tight
 - All electrical leads are secure and in good order
 - Safety valves and other pressure-relief devices are not obstructed by dirt or paint
 - Air outlet valve and air net, i.e. pipes, couplings, manifolds, valves, hoses, etc. are in good repair, free of wear or abuse
8. If warm cooling air from compressors is used in air heating systems, e.g. to warm up a workroom, take precautions against air pollution and possible contamination of the breathing air.
9. Do not remove any of, or tamper with, the sound-damping material.
10. Never remove or tamper with the safety devices, guards or insulations fitted on the machine. Every pressure vessel or auxiliary installed outside the machine to contain air above atmospheric pressure shall be protected by a pressure-relieving device or devices as required.

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1.4 Safety precautions during maintenance or repair

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6. Never play with compressed air. Do not apply the air to your skin or direct an air stream at people. Never use the air to clean dirt from your clothes. When using the air to clean equipment, do so with extreme caution and wear eye protection.

Precautions during maintenance or repair

1. Always wear safety glasses.
2. Use only the correct tools for maintenance and repair work.
3. Use only genuine spare parts.
4. All maintenance work shall only be undertaken when the machine has cooled down.
5. A warning sign bearing a legend such as "work in progress; do not start" shall be attached to the starting equipment.
6. Persons switching on remotely controlled machines shall take adequate precautions to ensure that there is no one checking or working on the machine. To this end, a suitable notice shall be affixed to the remote start equipment.
7. Close the compressor air outlet valve before connecting or disconnecting a pipe.
8. Before removing any pressurized component, effectively isolate the machine from all sources of pressure and relieve the entire system of pressure.
9. Never use flammable solvents or carbon tetrachloride for cleaning parts. Take safety precautions against toxic vapours of cleaning liquids.
10. Scrupulously observe cleanliness during maintenance and repair. Keep dirt away by covering the parts and exposed openings with a clean cloth, paper or tape.
11. Never weld or perform any operation involving heat near the oil system. Oil tanks must be completely purged, e.g. by steam-cleaning, before carrying out such operations. Never weld on, or in any way modify, pressure vessels.
12. Whenever there is an indication or any suspicion that an internal part of a machine is overheated, the machine shall be stopped but no inspection covers shall be opened before sufficient cooling time has elapsed; this to avoid the risk of spontaneous ignition of the oil vapour when air is admitted.
13. Never use a light source with open flame for inspecting the interior of a machine, pressure vessel, etc.
14. Make sure that no tools, loose parts or rags are left in or on the machine.
15. All regulating and safety devices shall be maintained with due care to ensure that they function properly. They may not be put out of action.

16. Before clearing the machine for use after maintenance or overhaul, check that operating pressures, temperatures and time settings are correct. Check that all control and shut-down devices are fitted and that they function correctly. If removed, check that the coupling guard of the compressor drive shaft has been reinstalled.
17. Every time the separator element is renewed, examine the discharge pipe and the inside of the oil separator vessel for carbon deposits; if excessive, the deposits should be removed.
18. Protect the motor, air filter, electrical and regulating components, etc. to prevent moisture from entering them, e.g. when steam-cleaning.
19. Make sure that all sound-damping material, e.g. on the bodywork and in the air inlet and outlet systems of the compressor, is in good condition. If damaged, replace it by genuine material from the manufacturer to prevent the sound pressure level from increasing.
20. Never use caustic solvents which can damage materials of the air net, e.g. polycarbonate bowls.
21. The following safety precautions are stressed when handling refrigerant:
 - Never inhale refrigerant vapours. Check that the working area is adequately ventilated; if required, use breathing protection.
 - Always wear special gloves. In case of refrigerant contact with the skin, rinse the skin with water. If liquid refrigerant contacts the skin through clothing, never tear off or remove the latter; flush abundantly with fresh water over the clothing until all refrigerant is flushed away; then seek medical first aid.
22. Protect hands to avoid injury from hot machine parts, e.g. during draining of oil.



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 These precautions apply to machinery processing or consuming air or inert gas. Processing of any other gas requires additional safety precautions typical to the application which are not included herein.
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2 General description

2.1 Introduction

Introduction

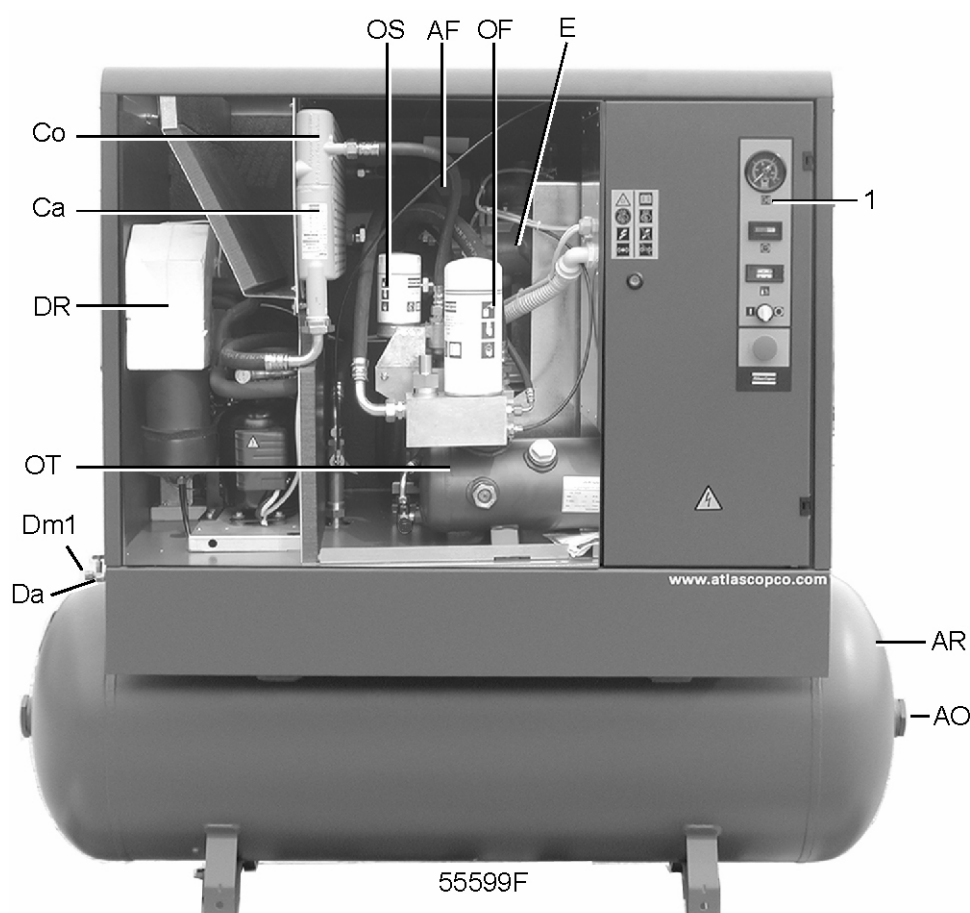
GX7 and GX11 are single-stage, oil-injected screw compressors.

The compressor is air-cooled and belt-driven by an electric motor. The compressor is enclosed in sound-insulated bodywork. An easy-to-operate control panel (1) is provided, including the start/stop switch and the emergency stop button. A cabinet housing the regulator, pressure switch and motor starter is integrated into the bodywork.

Floor-mounted model

The compressor is installed directly on the floor.

Tank-mounted model



Front view, GX7 and GX11 Full-Feature

GX7 and GX11 are mounted on a large air receiver (AR) of 270 l (71.28 US gal / 59.40 Imp gal / 9.45 cu.ft) or an air receiver of 500 l (132 US gal / 110 Imp gal / 17.50 cu.ft).

Ref.	Name
1	Control panel
AF	Air filter
AO	Air outlet
AR	Air receiver
Ca	Air cooler
Co	Oil cooler
Da	Automatic drain
Dm1	Manual condensate drain, compressor
DR	Dryer
E	Compressor element
OF	Oil filter
OS	Oil separator
OT	Oil separator tank

GX Full-feature

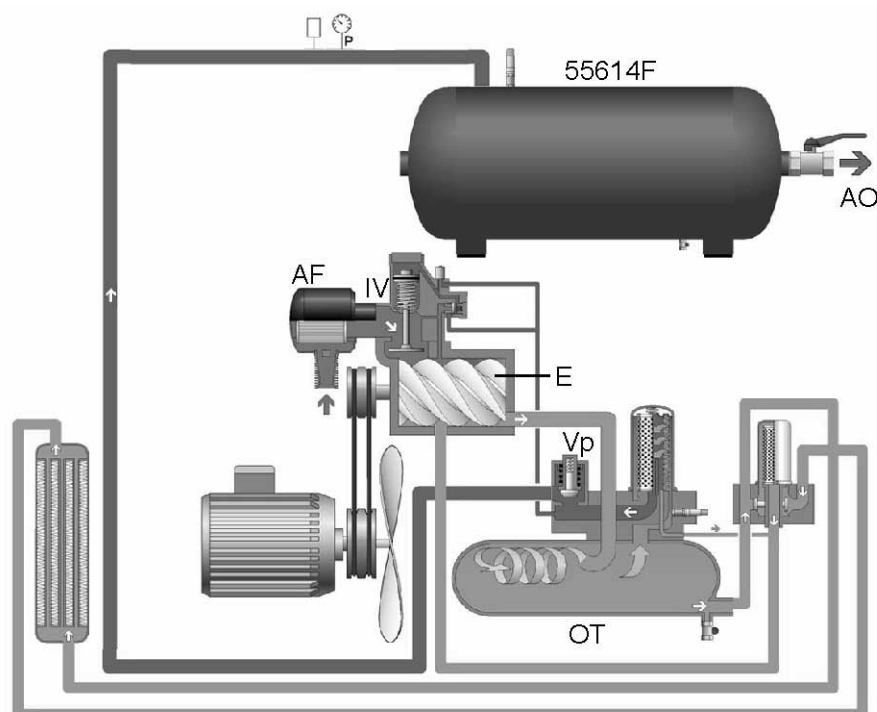
An air cooler (Ca) and an air dryer (DR) are integrated into the bodywork. A condensate drain system is provided including a valve for automatic draining during operation (Da) and a manual drain valve (Dm1).

GX Pack

The compressor is not fitted with an air cooler, air dryer and condensate drain system as standard.

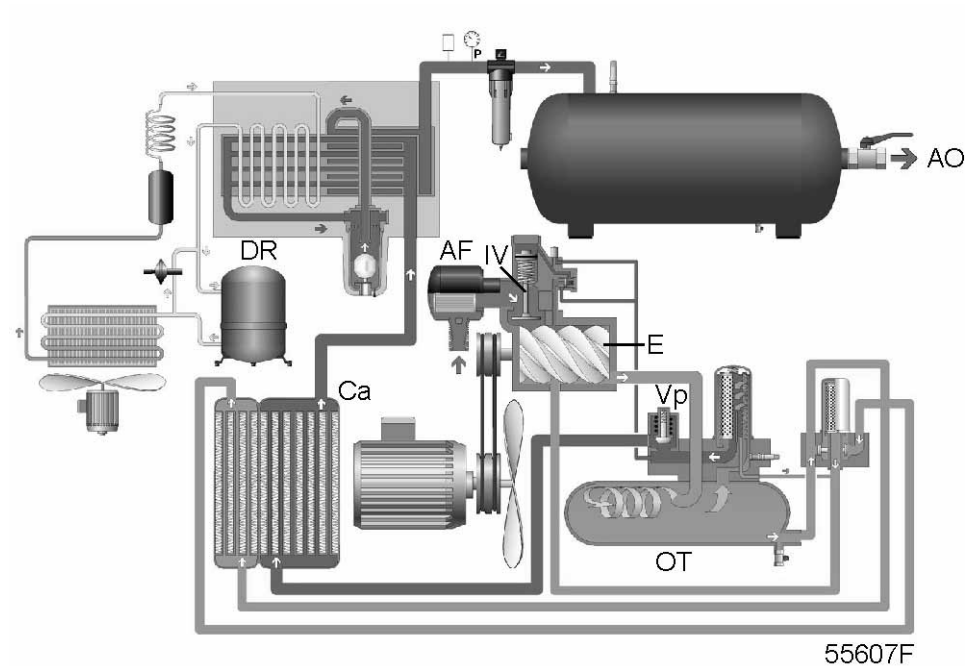
2.2 Air flow

Flow diagram



Air flow, GX7 and GX11 Pack

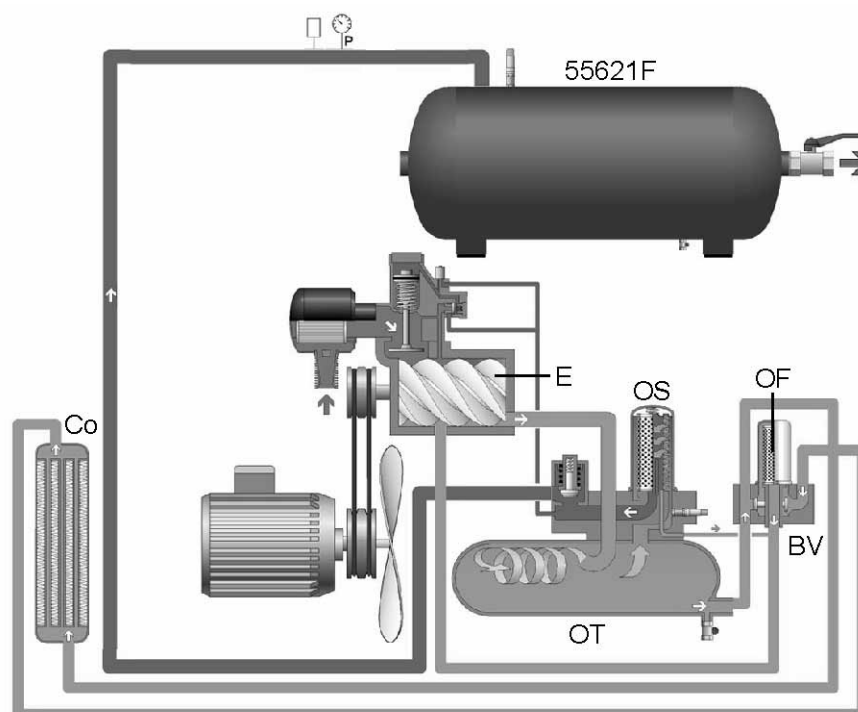
Air drawn through filter (AF) and open inlet valve (IV) into compressor element (E) is compressed. Compressed air and oil flow into oil separator/tank (OT). The air is discharged via minimum pressure valve (Vp) towards the air outlet (AO).



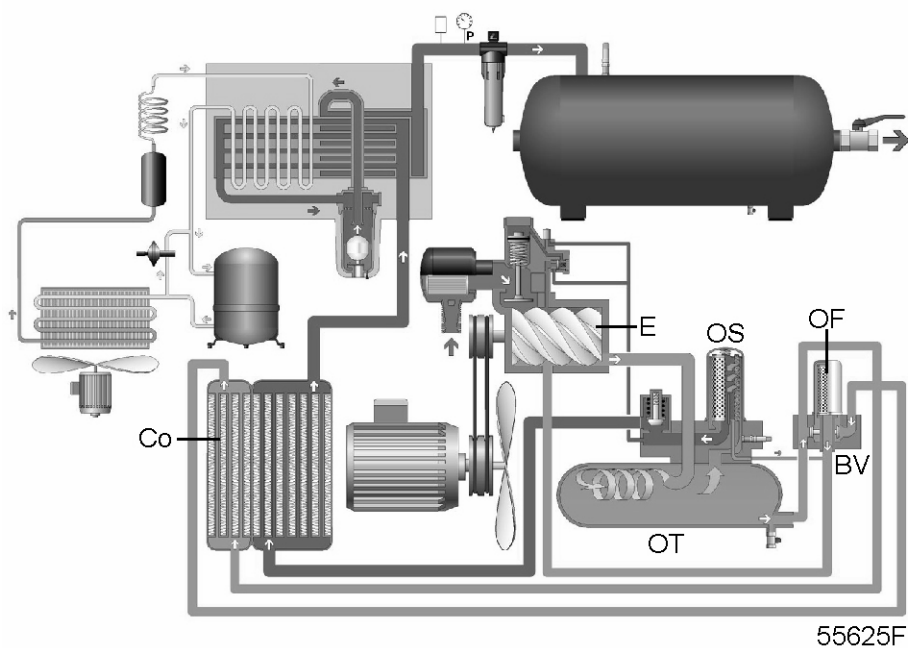
Air flow, GX7 and GX11 Full-Feature

Air drawn through filter (AF) and open inlet valve (IV) into compressor element (E) is compressed. Compressed air and oil flow into oil separator/tank (OT). The air is discharged via minimum pressure valve (Vp), air cooler (Ca) and air dryer (DR) towards the air outlet (AO).

2.3 Oil system



GX7 and GX11 Pack



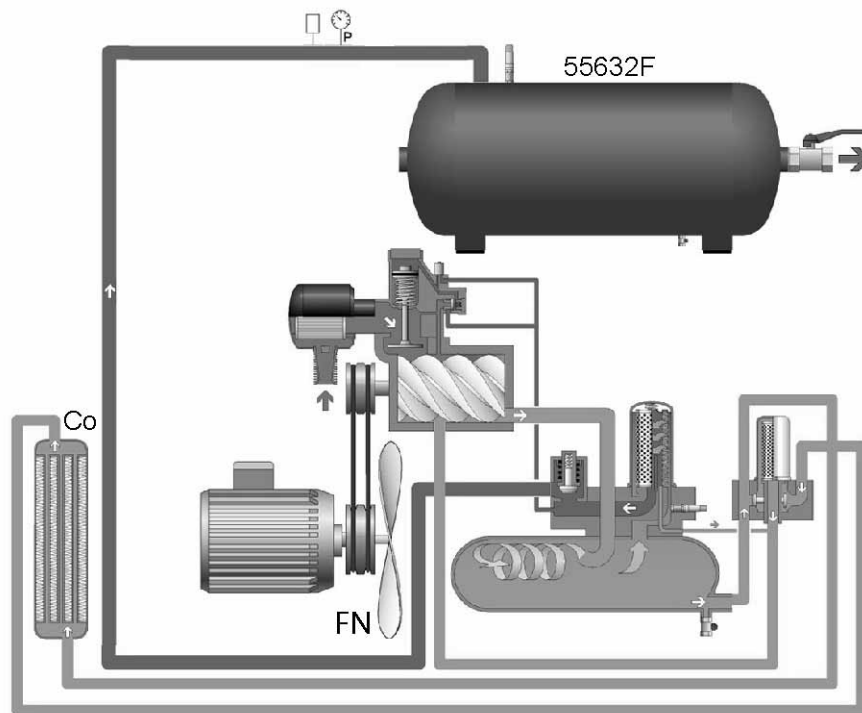
GX7 and GX11 Full-Feature

Air pressure forces the oil from oil separator/tank (OT) through oil cooler (Co) and filter (OF) to compressor element (E) and the lubrication points. In oil separator/tank (OT), most of the oil is removed centrifugally; the rest is removed by separator (OS).

The oil system is fitted with a by-pass valve (BV). When the oil temperature is below the set-point of the valve, the by-pass valve shuts off the oil supply from oil cooler. The by-pass valve starts opening the supply from cooler (Co) when the oil temperature exceeds the setting of the valve. The setting of the by-pass valve depends on the model. See the section Compressor data.

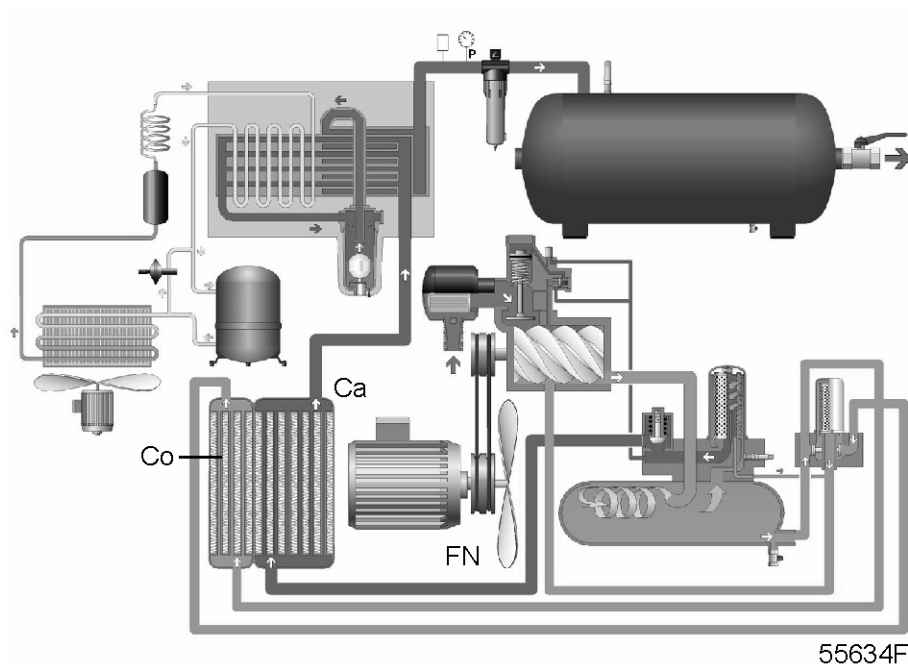
2.4 Cooling system

Cooling system



GX7 and GX11

The cooling system comprises oil cooler (Co). A fan (FN), mounted directly onto the motor shaft, generates the cooling air in order to cool the oil.

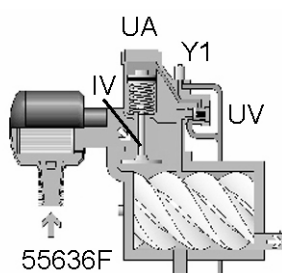


GX7 and GX11 Full-Feature

The cooling system comprises oil cooler (Co) and air cooler (Ca). A fan (FN), mounted directly onto the motor shaft, generates the cooling air in order to cool the oil and compressed air.

2.5 Regulating system

Main components



View of regulating system

The main components of the regulating system are:

- Pressure switch, which opens and closes at preset pressure limits. See Protection of compressor
- Unloader (UA), including inlet valve (IV) and unloading valve (UV).
- Loading solenoid valve (Y1).

Loading

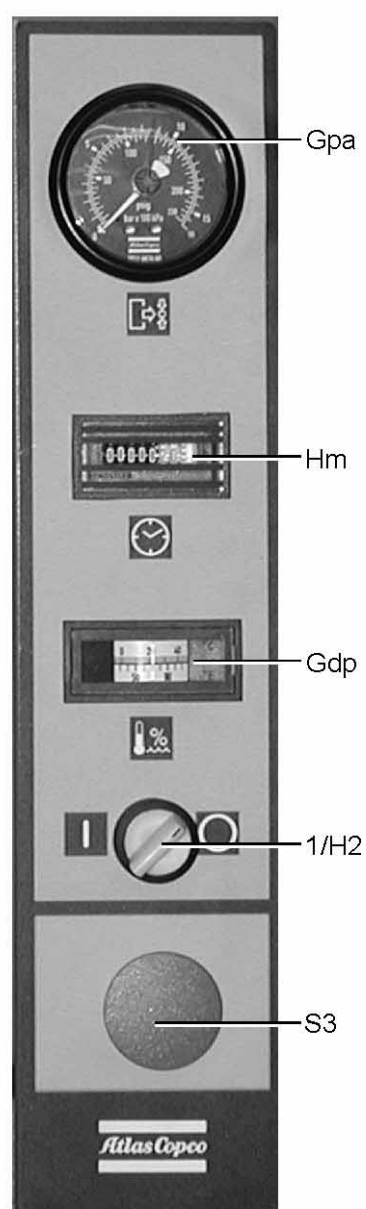
As long as the working pressure is below the maximum limit, the solenoid valve is energised allowing control air to flow to the unloader: the inlet valve opens completely and the unloading valve closes completely. The compressor will run fully loaded (100% output).

Unloading

If the working pressure reaches the maximum limit, the solenoid valve is de-energised venting the control air: the inlet valve closes completely and the unloading valve opens completely. The compressor will run fully unloaded (0% output).

If the compressor keeps running unloaded for an uninterrupted period of 150 seconds, it will be stopped. The compressor will automatically restart when the net pressure drops to the minimum limit.

2.6 Control panel



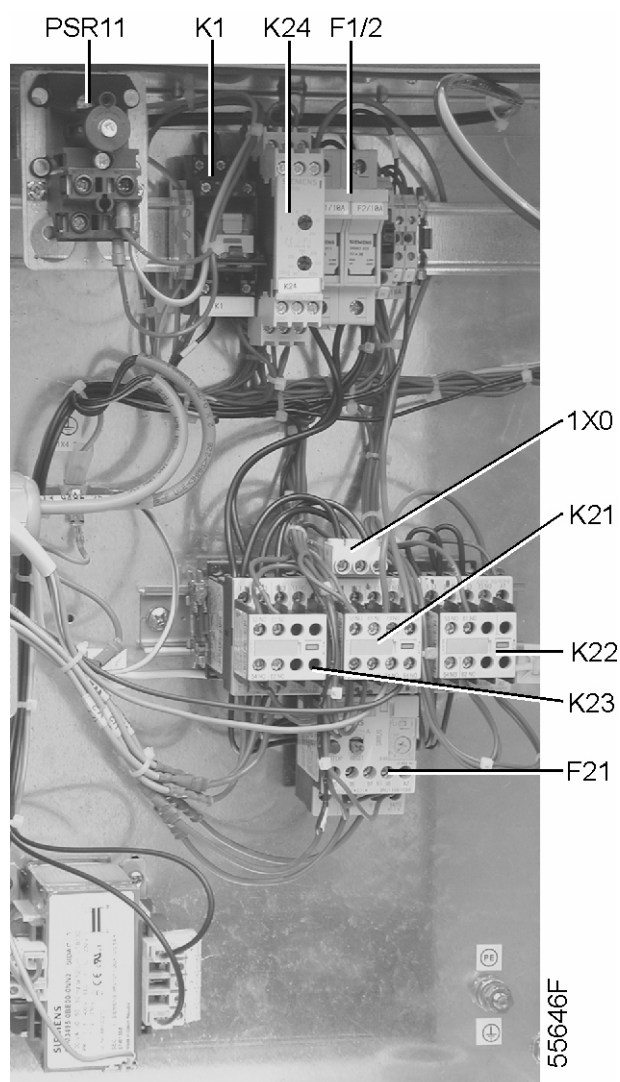
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Control panel

Reference	Designation	Function
1	Start/stop switch	To start or stop the compressor. After the stop command, the compressor will run unloaded for a period of 150 seconds and then stop.
Hm	Hour meter	Indicates the total running time.
Gdp	Dew-point gauge	Indicates the dew-point temperature. Not installed on Pack versions
Gpa	Working pressure	The white pointer indicates the actual working pressure. The red one indicates the maximum limit.
H2	Automatic operation lamp	When lit, the lamp indicates that the regulator is automatically controlling the compressor: the compressor is loaded, unloaded, stopped and restarted depending on the air consumption and the preset pressure limits. The lamp is extinguished after a manual stop.
S3	Emergency stop button	To stop the compressor immediately; only to be used in the event of an emergency. Must be unlocked before starting by pulling it out.

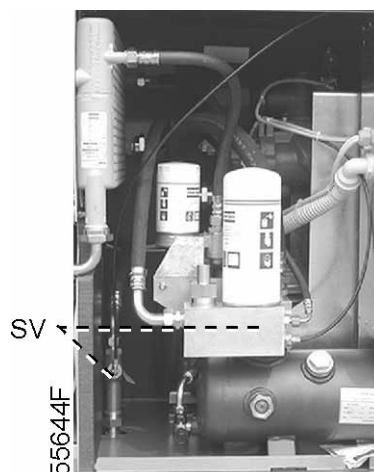
	Only use emergency stop button (S3) in the event of an emergency.
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2.7 Protection of compressor



Electric cubicle

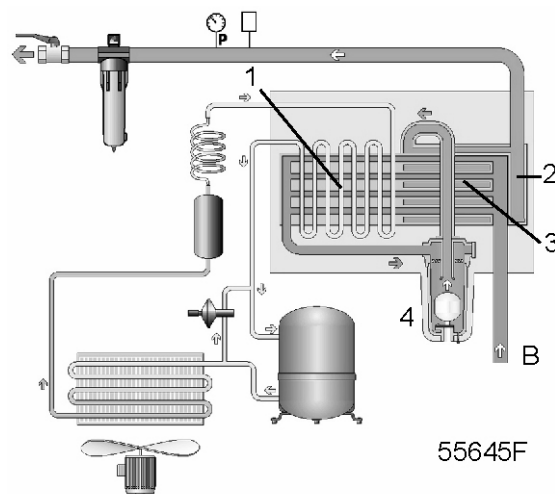
Ref.	Designation
1X0	Terminal strip, electric supply
F1/2	Fuses
F21	Overload relay
K1	Auxiliary relay
K21	Line contactor
K22	Star contactor
K23	Delta contactor
K24	Time relay
PSR11	Pressure switch (see Unload/stop pressure switch)



Safety valve on the compressor

Reference	Designation	Function
F21 Also see the Electrical diagrams section	Motor overload relay	To shut down the compressor if the motor current is too high.
TSHH11 Also see the Electrical diagrams section	Temperature shut-down switch	To shut down the compressor if the temperature at the outlet of the compressor element is too high.
SV	Safety valve	To protect the air outlet system if the outlet pressure exceeds the opening pressure of the valve.

2.8 Air dryer



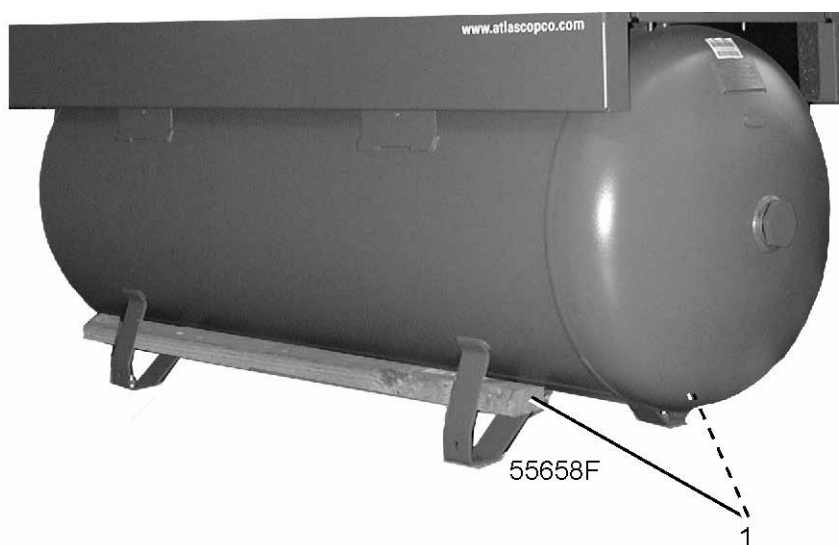
Air dryer

Wet compressed air (B) enters the dryer and is further cooled by the outgoing, dried air (2). Moisture in the incoming air condenses. The air then flows through heat exchanger (1) where refrigerant evaporates, withdrawing heat from the air. The cold air then flows through condensate trap (4) which separates condensate from the air. The condensate is automatically drained. The cold, dried air then flows through heat exchanger (3), where it is warmed up by the incoming air.

3 Installation

3.1 Installation proposal

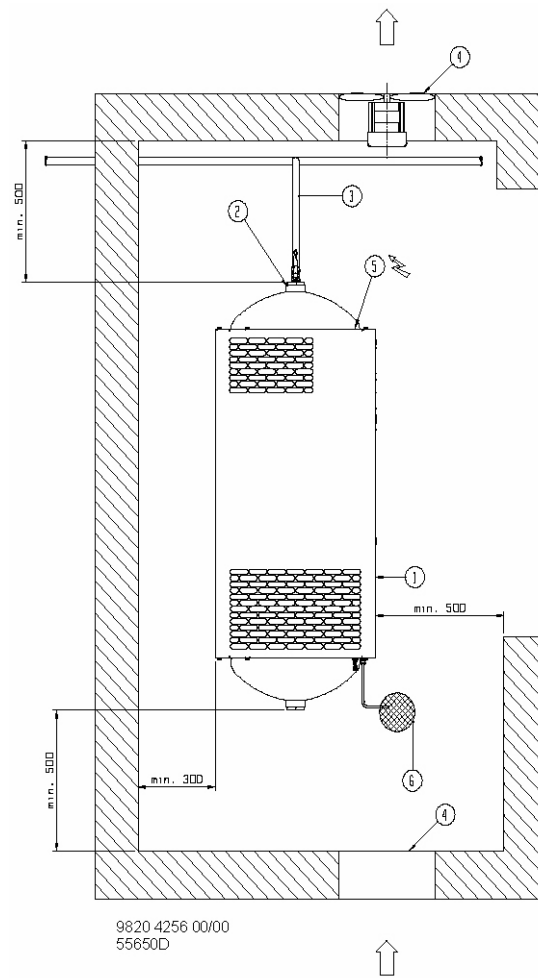
Important



Transport by a pallet truck

	To prevent a Tank-mounted model from falling over during transport by a pallet truck: push the forks underneath the air receiver and place a wooden beam (1) (cross-section approx. 4 x 6 cm / 1.6 x 2.4 in) through the supports on both sides of the receiver. While holding the compressor, slowly lift the forks until the receiver is secured between the beams.
	Move the compressor gently.

Proposal

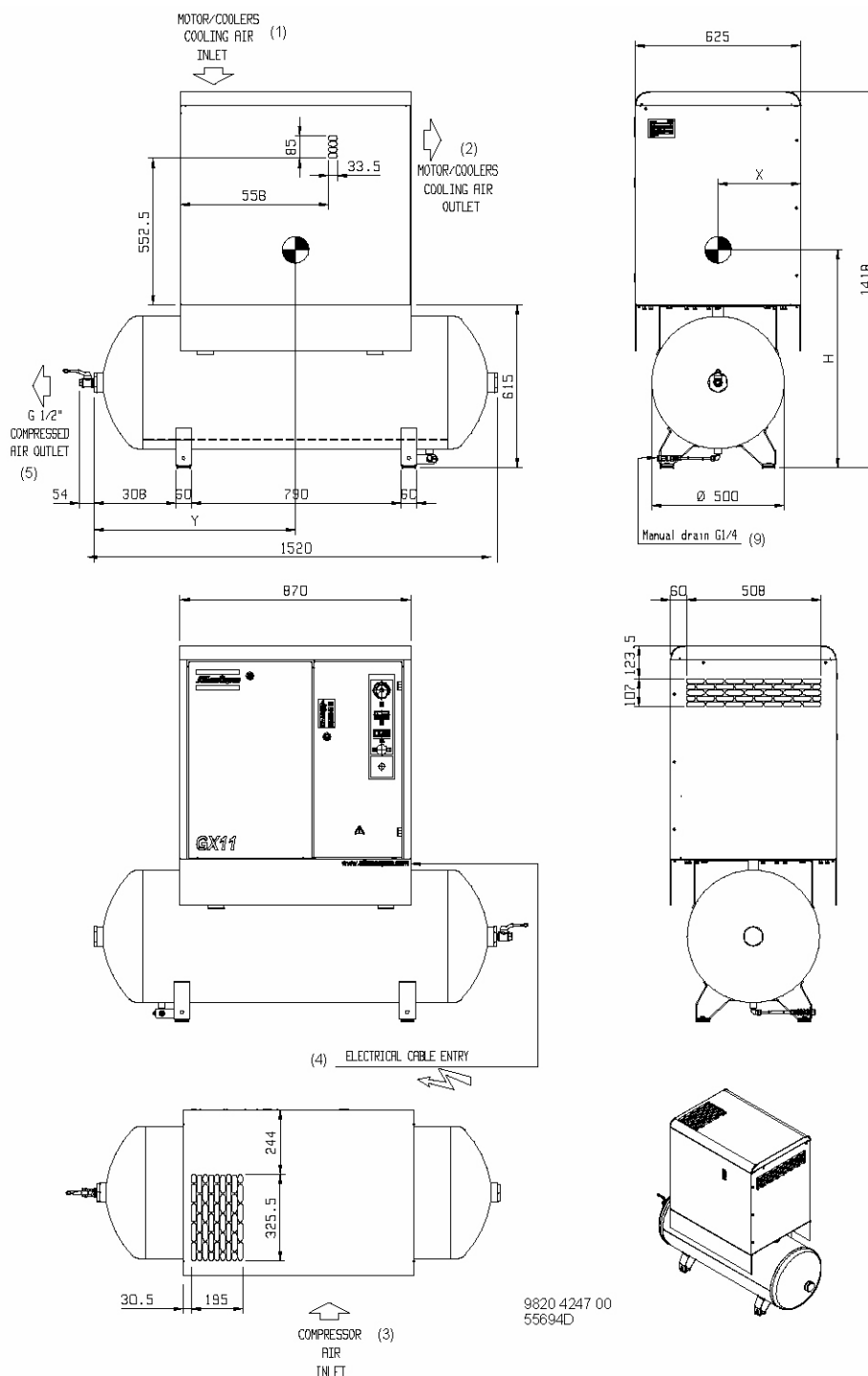


Installation proposal, GX7 and GX11

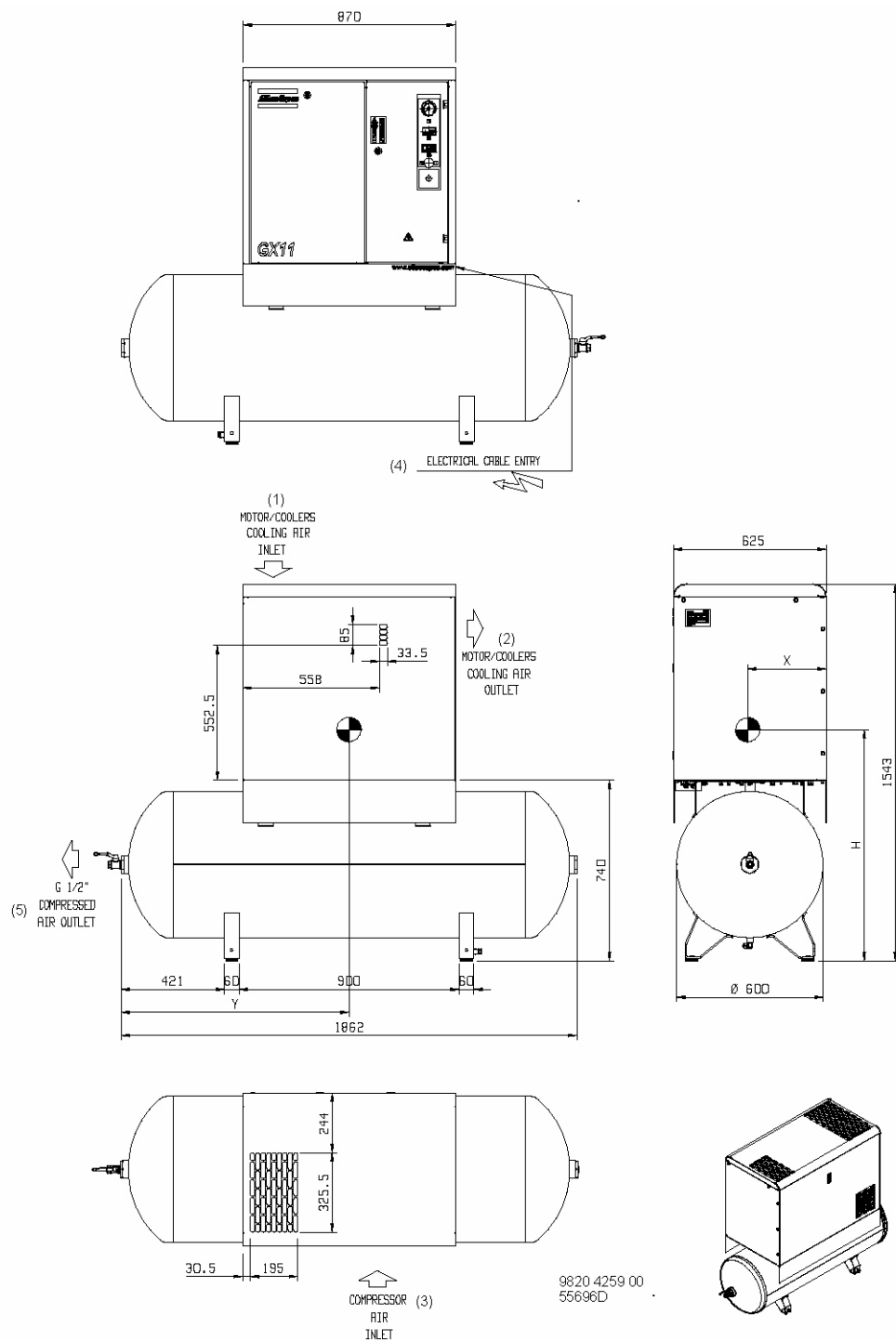
Ref.	Action
1	Install the rubber pads (delivered loose with the compressor) to the compressor supports. Install the compressor on a solid, level floor suitable for taking its weight. The recommended minimum distance between the top of the unit and the ceiling is 900 mm (35.1 in). The air receiver must not be bolted to the floor. The minimum distance between the wall and the back of the compressor is 500 mm (19.5 in).
2	Position of the compressed air outlet valve. Close the valve. Connect the air net to the valve.
3	The pressure drop over the delivery pipe can be calculated from the following formula: $dp = (L \times 450 \times Q_c^{1.85}) / (d^5 \times P)$ • dp = pressure drop (recommended maximum = 0.1 bar / 1.5 psi) • L = length of delivery pipe in m • d = inner diameter of the delivery pipe in mm • P = absolute pressure at the compressor outlet in bar(a) • Qc = free air delivery of the compressor in l/s
4	Ventilation: the inlet grids and ventilation fan should be installed in such a way that any recirculation of cooling air to the compressor or dryer is avoided. The air velocity to the grids must be limited to 5 m/s (200 in/s). The required ventilation capacity to limit the temperature of the compressor room can be calculated from the following formula: $Q_v = 0.92 N / dT$ • Qv = required ventilation capacity in m³/s • N = nominal motor power of compressor in kW • dT = temperature increase in compressor room
5	Position of the mains cable entry.
6	The drain pipes to the drain collector must not dip into the water of the drain collector.

3.2 Dimension drawings

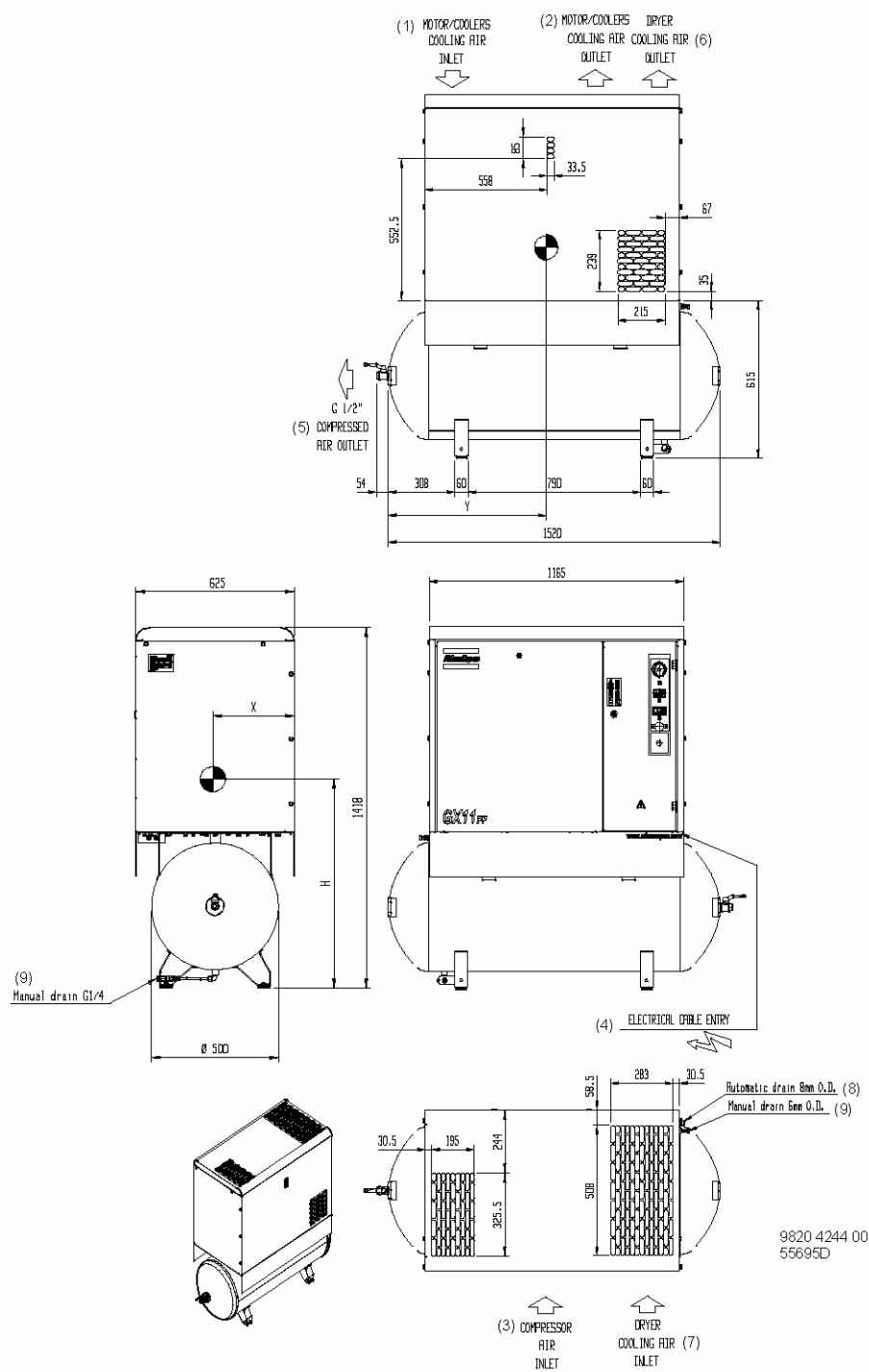
Dimension drawings, GX7 and GX11



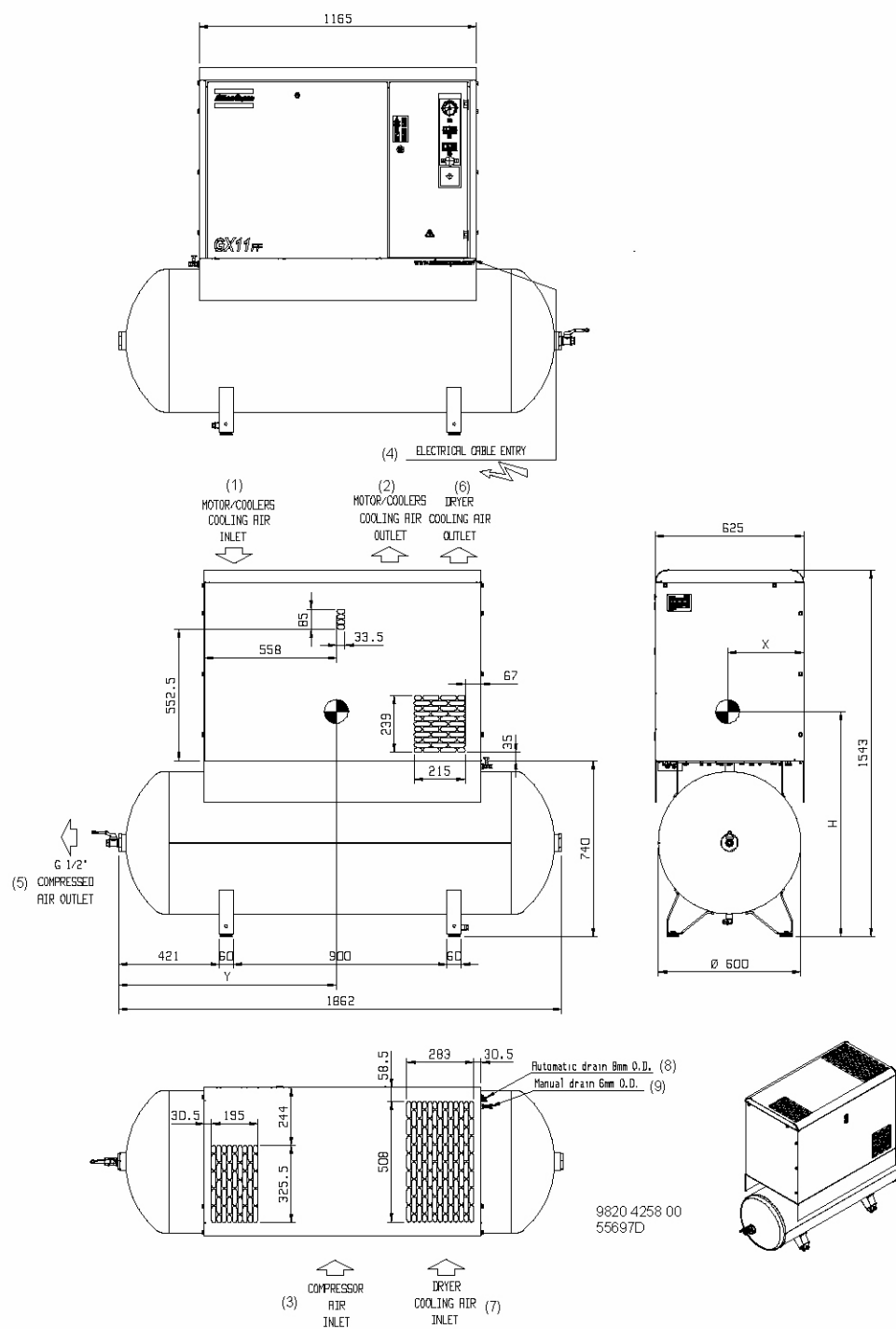
GX7 and GX11 Tank-mounted (270 l), Pack



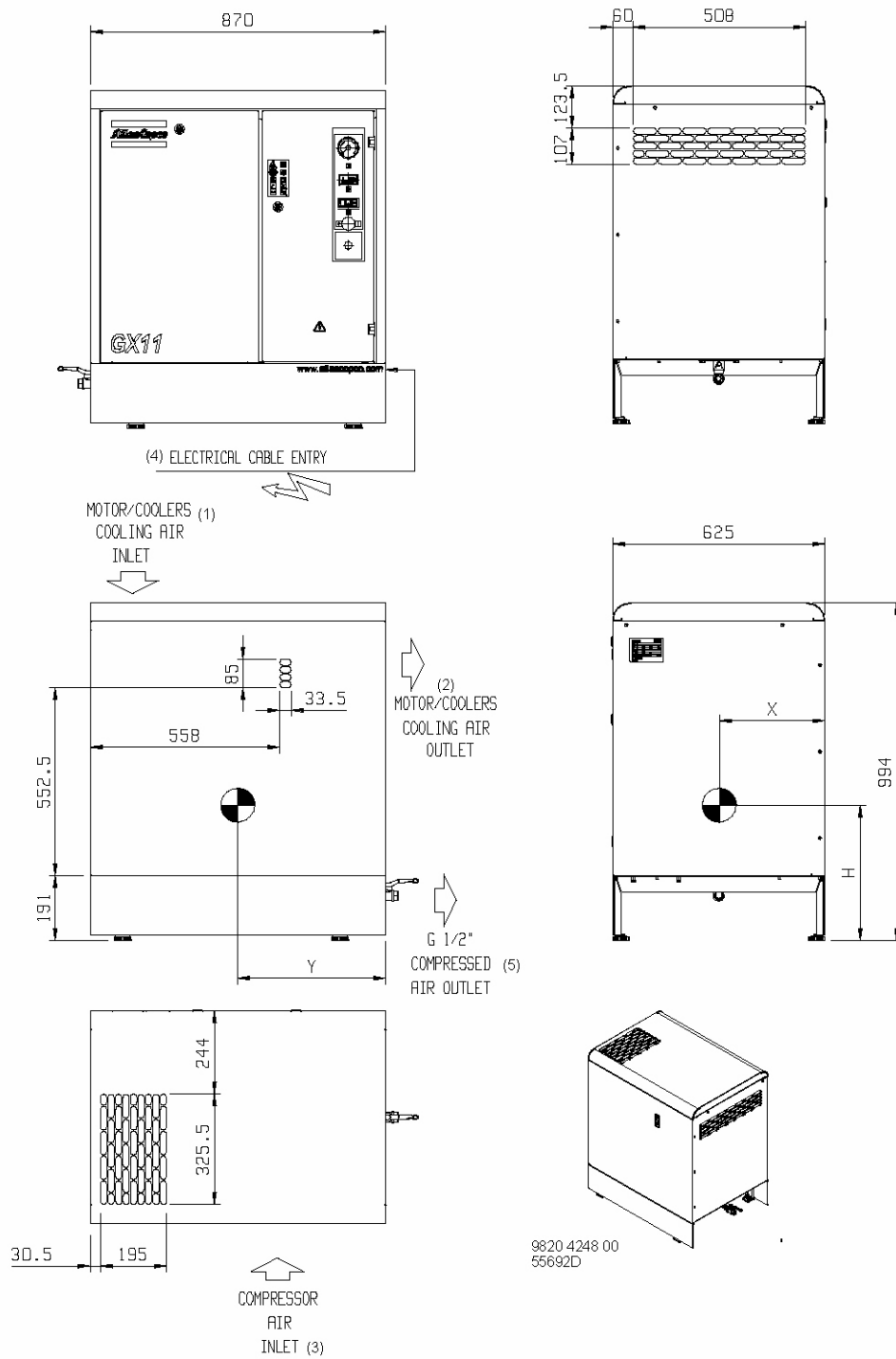
GX7 and GX11 Tank-mounted (500 l, optional), Pack



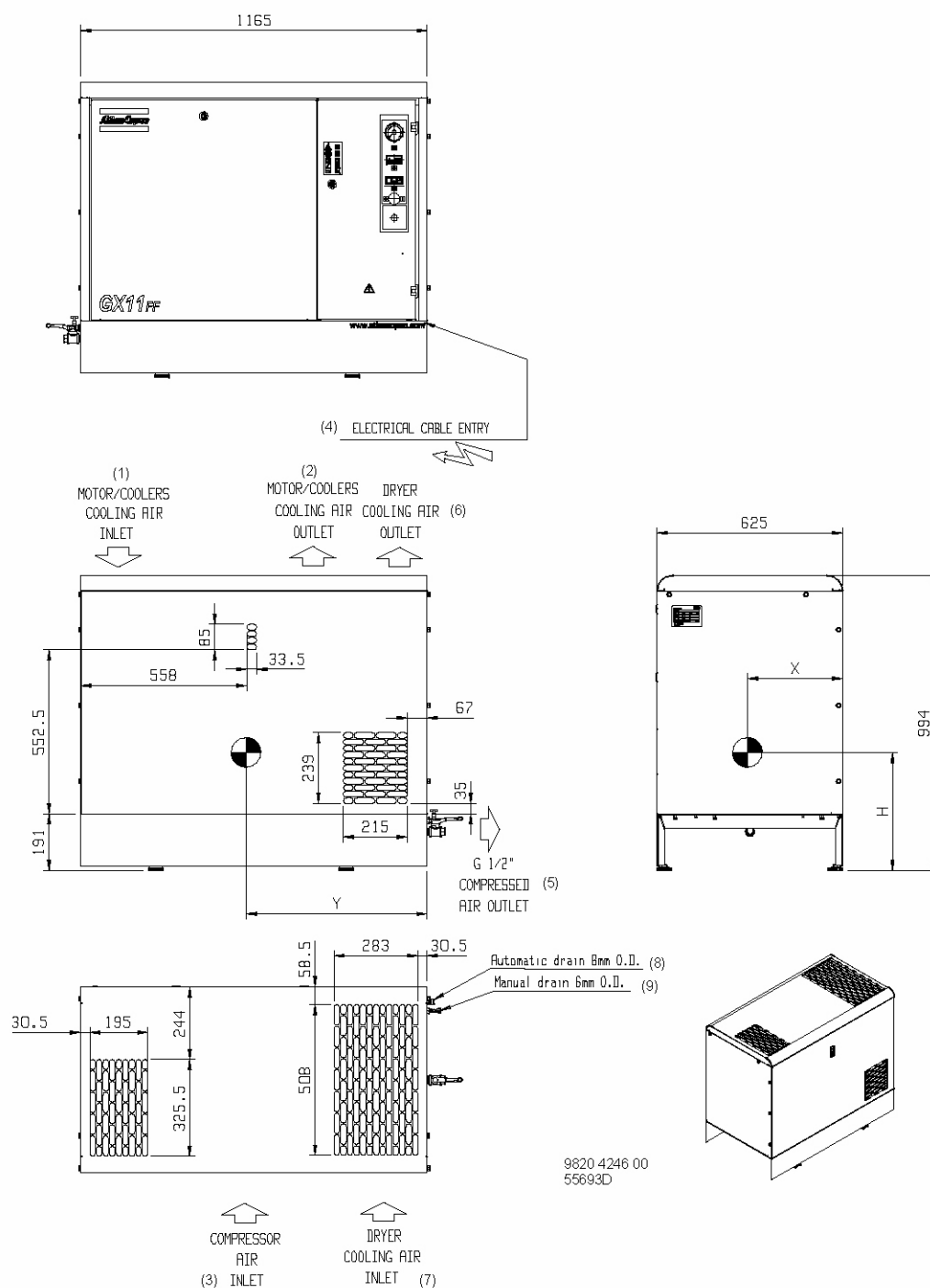
GX7 and GX11 Tank-mounted (270 l), Full-Feature



GX7 and GX11 Tank-mounted (500 l, optional), Full-Feature



GX7 and GX11 Floor-mounted, Pack



GX7 and GX11 Floor-mounted, Full-Feature

Ref.	Name
1	Motor/coolers cooling air inlet
2	Motor/coolers cooling air outlet
3	Compressor air inlet
4	Electrical cable entry

Ref.	Name
5	Compressed air outlet
6	Dryer cooling air outlet
7	Dryer cooling air inlet
8	Automatic drain
9	Manual drain

3.3 Electric cable size

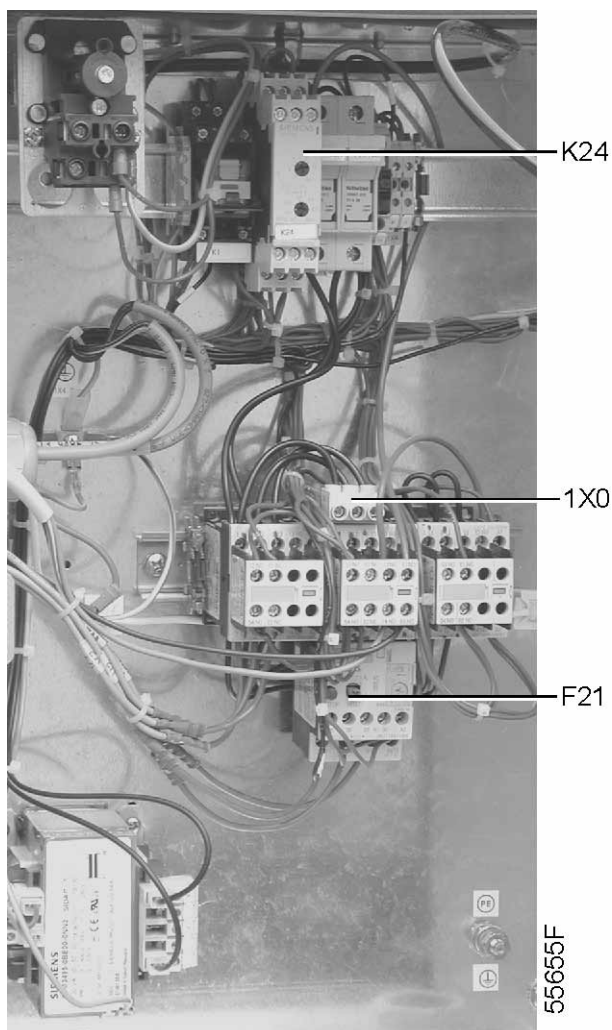
Attention



Local regulations remain applicable if they are stricter than the values proposed below.
The voltage drop must not exceed 5% of the nominal voltage. It may be necessary to use cables of a larger size than those stated to comply with this requirement.

		GX7	GX11
Frequency (Hz)	Voltage (V)	Cable size	Cable size
IEC		(mm ²)	(mm ²)
50	230	10	16
50	400	4	6
50	500	2.5	6
60	440/460	4	6
60	380	6	6
CSA/UL		AWG	AWG
60	200	6	4
60	208/230	8	6
60	440/460	10	8
60	575	12	10

3.4 Electrical connections

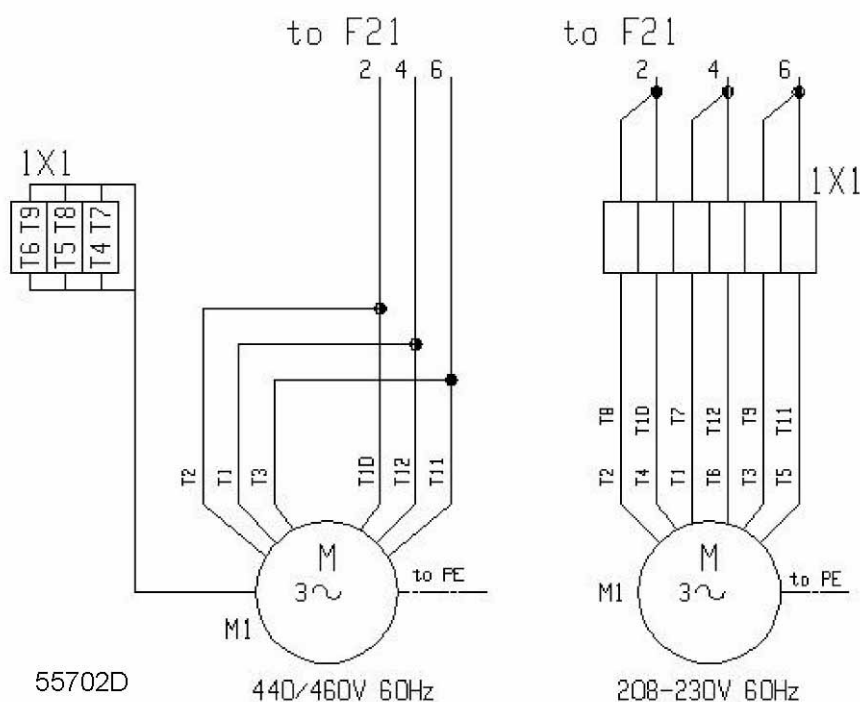


Electrical connection, GX7 and GX11

Step	Action
1	Fit an isolating switch near the compressor.
2	For a 208 V / 230 V / 460 V cubicle see below. Check the fuses and the setting of overload relay (F21). See Settings for overload relay and fuses. Check that the overload relay is set for automatic resetting.
3	If fitted, check transformers for correct connection.
4	Check the settings of time relay (K24) Y-time (10 seconds) and idling time (150 seconds).
5	Connect the power supply cables to terminals L1, L2 and L3 (1X0) and the neutral conductor (if fitted) to terminal (N). Connect the earth conductor to the earth bolt.

For GX7 and GX11 with 208 V / 230 V / 460 V Cubicle

Rewire the motor connections for the applicable voltage:



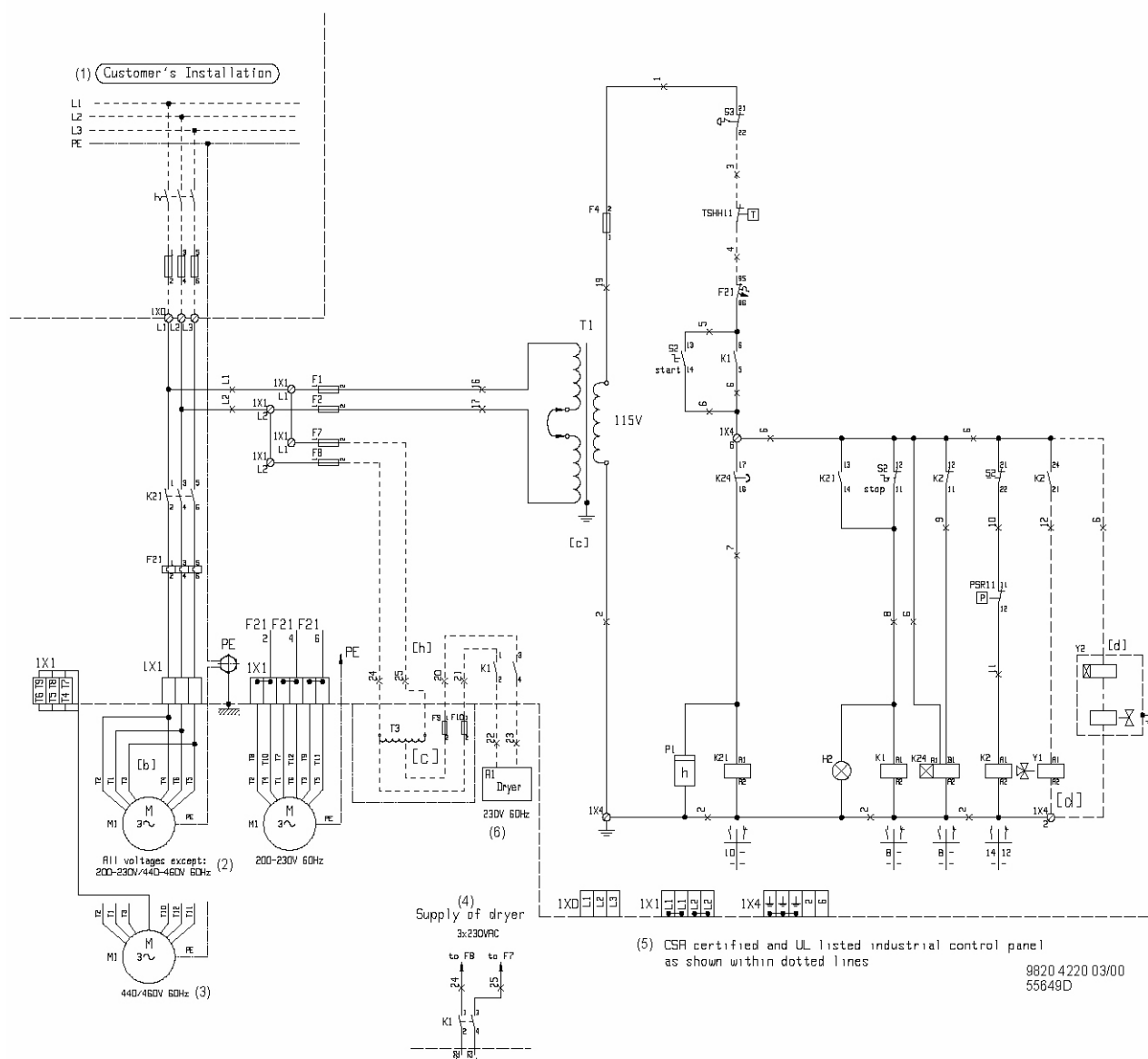
208 V / 230 V / 460 V Cubicle

The compressor leaves the factory wired for 440/460 V 60 Hz (shown on the left side). When the compressor is used on 208/230 V 60 Hz (shown on the right side), remove the motor cables between overload relay (F21) and terminal block (1X1). Connect the six cables (delivered loose in a plastic bag in the electrical cubicle) between terminal block (1X1) and motor overload relay (F21) as shown on the right side. Disconnect the cables between the motor and terminal block (1X1) from the terminals 1X1 and reconnect them on the terminals 1X1 as shown.

Adjust the value of motor overload relay (F21). Consult Electrical cable sizes and Settings of overload relay and fuses.

Modify the connection of the primary voltage of transformer (T1) in the cubicle. Information about the correct connection is mentioned on the transformer.

If the compressor is a Full-Feature compressor with a built-in refrigerant dryer, the dryer transformer (T3) must also be rewired. Information about the correct connection is mentioned on the transformer.



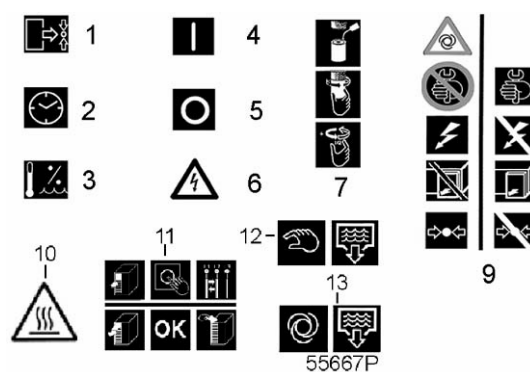
Electrical diagram, GX7 and GX11 CSA/UL

Electrical components and legend

Ref.	Name
A1	Dryer
F1-10	Fuses
F21	Overload relay, compressor motor
H2	Lamp, automatic operation
K1	Auxiliary relay
K2	Auxiliary relay
K21	Line contactor
K22	Star contactor
K23	Delta contactor

Ref.	Name
K24	Time relay
M1	Drive motor
P1	Hour meter
PSR11	Pressure switch
S2	Start/stop switch
S3	Emergency stop button
T1/3	Transformers
TSHH11	Temperature shut-down switch
Y1	Loading solenoid valve
1X0-4	Terminal strips
(1)	Customer's installation
(2)	All voltages (50 Hz and 60 Hz) except 460 V 60 Hz For CSA/UL compressors: all voltages except 200-230 V / 440-460 V 60 Hz
(3)	440/460 V 60 Hz
(4)	Supply of dryer
(5)	CSA certified and UL listed industrial control panel as shown within dotted lines
(6)	Dryer

3.6 Pictographs



Pictographs

Ref.	Description
1	Working pressure
2	Hour meter
3	Dew-point temperature
4	Start
5	Stop

Ref.	Description
6	Warning: voltage
7	Lightly oil gasket of oil filter, screw filter on and tighten by hand
9	Warning: switch off voltage and depressurise compressor before carrying out maintenance work
10	Warning: hot parts
11	Lock all doors of the bodywork and push the start button. • If the sheet is pulled downwards: Stop the compressor immediately and switch off the voltage. • Reverse two incoming electric lines. Repeat the previous step. • If the sheet is blown away the motor rotation direction is correct.
12	Manual condensate drain
13	Automatic condensate drain

4 Operating instructions

4.1 Initial start-up

Safety



The operator must apply all relevant Safety precautions.

Moving

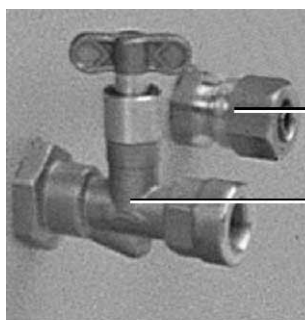
To safely move a Tank-mounted model, see Installation.

General preparation



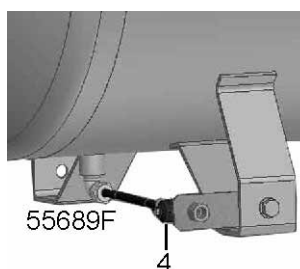
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Air outlet valve



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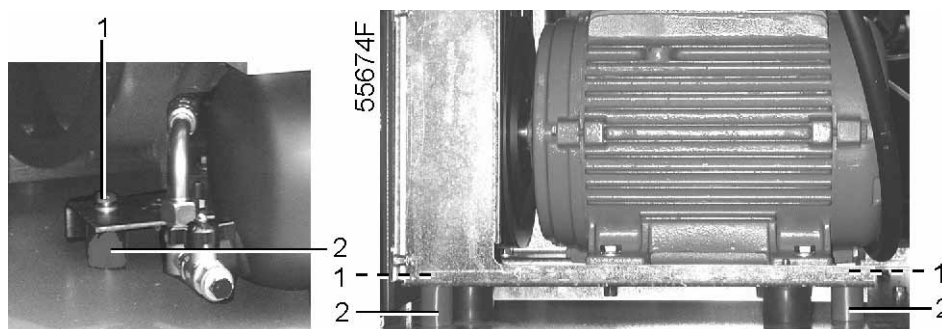
Condensate drains, GX7 up to GX37



Condensate drain valve, GX7 and GX11

Step	Action
1	Consult the installation instructions (see Installation).
2	Check that the electrical connections correspond to the local codes. The installation must be earthed and protected against short circuits by fuses in all phases. An isolating switch must be installed near the compressor.
3	Fit outlet valve (2), close it and connect the air net to the valve. Connect condensate drain valve (Dm) and automatic drain outlet (Da) to a drain collector. Close the valve. Connect condensate drain valve (4) of the air receiver to a drain collector. Close the valve.

Transport fixtures



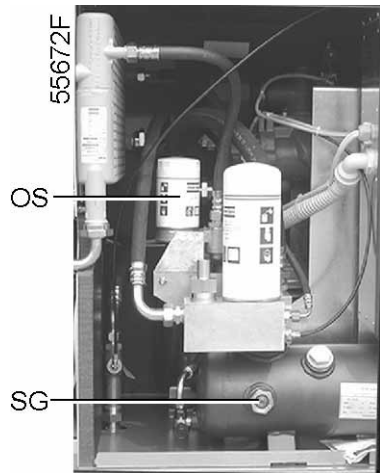
Transport fixtures, GX7 and GX11

Remove the back panel by unscrewing the bolts on the side panel and lifting the top.

Unscrew bolts (1) and remove transport fixtures (2).

Replace the back panel and screw the bolts.

Oil system



Oil level sight-glass, GX7 and GX11

Step	Action
	Check the oil level. The oil level sight-glass (SG) should be between 1/4 and 3/4 full.

Start-up



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Label on the side panel

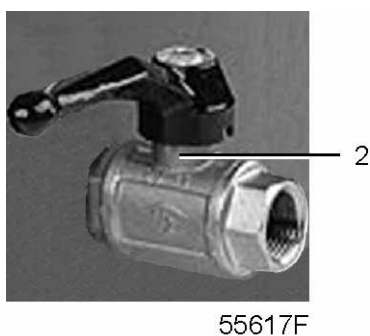


55700F

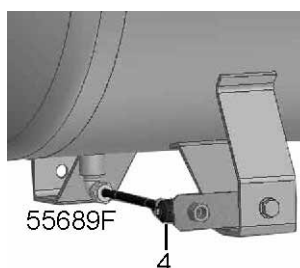
Label on the top

Step	Action
1	Affix sheet (5) explaining the procedure for checking the motor rotation direction to the cooling air outlet of the compressor. (Consult Dimension drawings) Switch on the voltage. Start the compressor and stop it immediately. Check the rotation direction of the motor using sheet (5). If the motor rotation direction is correct, the label on the top grating will be blown upwards. If the sheet remains in place, the rotation direction is incorrect. (See Pictographs) If the rotation direction is incorrect, switch off the voltage, open the isolating switch and reverse two incoming electric lines.
2	Start and run the compressor for a few minutes. Check that the compressor operates normally.

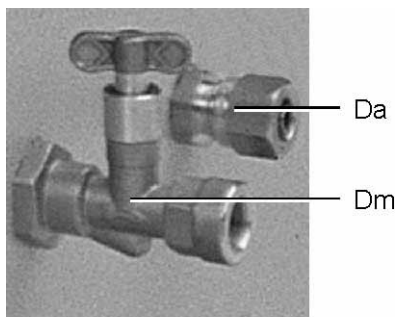
4.2 Starting



Air outlet valve

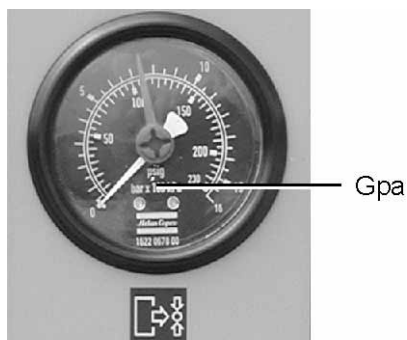


Condensate drain valve, GX7 and GX11



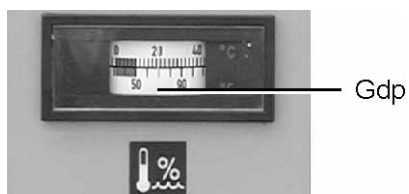
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Condensate drains, GX7 up to GX37



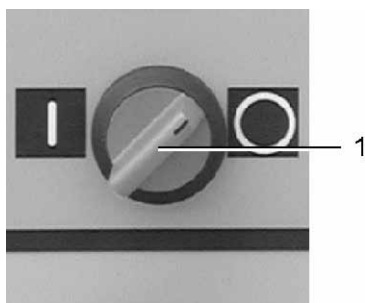
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Pressure gauge



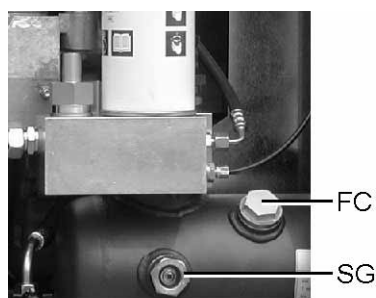
55631F

Dew-point temperature, GX7 up to GX37



55602F

Start/stop switch, GX7 up to GX22

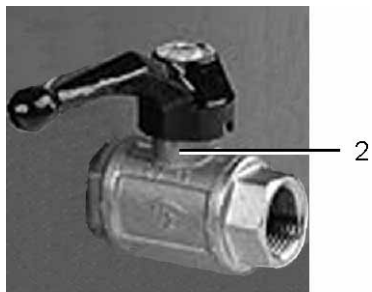


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GX7 and GX11

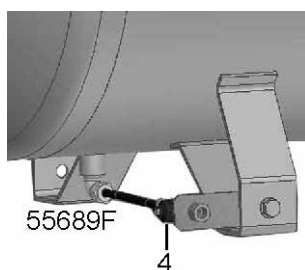
Step	Action
1	Three minutes after stopping, the oil level sight-glass (SG) should be between 1/4 and 3/4 full.
2	Switch on the voltage.
3	Open air outlet valve (2).
4	Move start/stop switch (1) to position I. The switch will return automatically. The compressor starts running and automatic operation lamp (1) lights up. On compressors with a star-delta starter, the drive motor switches over from star to delta ten seconds after starting.
	The maximum number of motor starts must be limited to 20 per hour. It is strongly recommended to operate the compressor with a load factor of more than 10% to avoid condensate in the oil.
5	Regularly check the oil level. Three minutes after stopping, the sight-glass (SG) should be between 1/4 and 3/4 full. If necessary, move start/stop switch (1) to 0, wait until the compressor has stopped, depressurise the oil system by unscrewing oil filler plug (FC) one turn and wait a few minutes. Remove the plug and top up the oil, until the sight-glass is 3/4 full. Fit and tighten plug (FC).
6	When automatic operation lamp (1) is lit, the regulator is automatically controlling the compressor, i.e. loading, unloading, stopping of the motors and restarting.
7	Regularly check the working pressure (Gpa) and the dew-point gauge (Gdp).
8	Regularly check that condensate is drained (Da) during running.

4.3 Stopping



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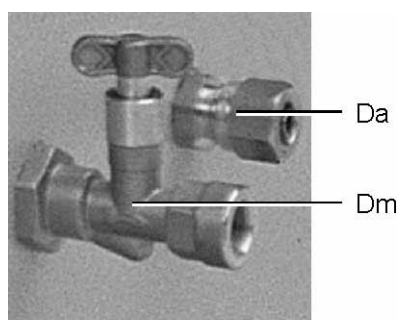
Air outlet valve



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4

Condensate drain valve, GX7 and GX11

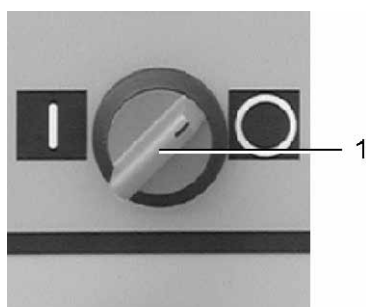


Da

Dm

55673F

Condensate drains, GX7 up to GX37

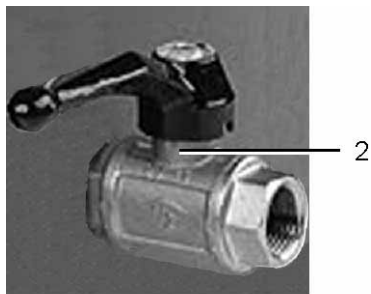


55602F

Start/stop switch, GX7 up to GX22

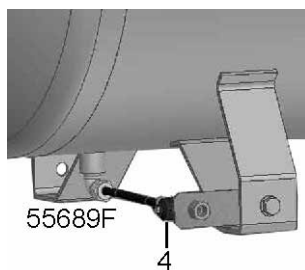
Step	Action
1	Move start/stop switch (1) to position 0. The compressor switches to unloaded running for a period of 150 seconds and then stops. Lamp (1) goes out. To stop the compressor immediately in the event of an emergency, press button (S3) (to be avoided as much as possible). See the Control panel section. Lamp (1) goes out. After remedying the fault, unlock the button by pulling it out.
	Only use emergency stop button in the event of an emergency.
2	Close air outlet valve (2) and switch off the voltage to the compressor.
3	Open condensate drain valve (Dm) for a few seconds to drain any condensate and then close the valve. Open condensate drain valve (4) of the air receiver for a few seconds to drain any condensate and then close the valve.
	The air dryer and the air receiver remain under pressure. The PDX filter (if installed) remains under pressure. If maintenance or repair work is necessary, consult the Problem solving section for all relevant safety precautions.

4.4 Taking out of operation



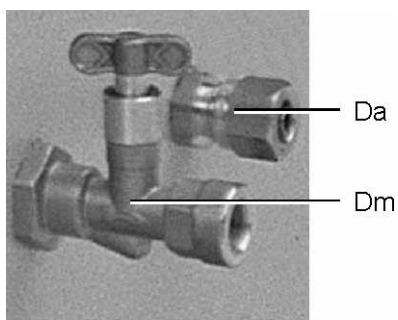
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Air outlet valve



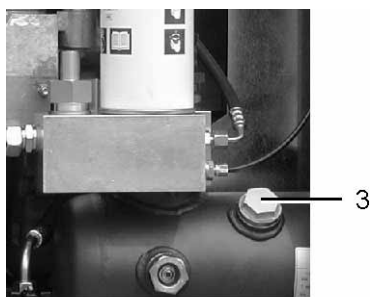
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Condensate drain valve, GX7 and GX11



55673F

Condensate drains, GX7 up to GX37



55610F

Filler plug, GX7 and GX11

This procedure should be carried out at the end of the compressor's service life.

Step	Action
1	Stop the compressor and close the air outlet valve (2).
2	Switch off the voltage and disconnect the compressor from the mains.
3	Depressurise the compressor by opening plug (3) one turn. Open condensate drain valve (Dm). Open condensate drain valve (4).
4	Shut off and depressurise the part of the air net which is connected to the outlet valve. Disconnect the compressor air outlet valve from the air net.
5	Drain the oil and condensate circuits.
6	Disconnect the compressor condensate outlet and valve from the condensate net.

5 Maintenance

5.1 Preventive maintenance schedule

Warning



Before carrying out any maintenance, repair work or adjustments, proceed as follows:

- Stop the compressor.
- Switch off the voltage and open the isolating switch.
- Close the air outlet valve and open the manual condensate drain valves.
- Depressurise the compressor.

For detailed instructions, see Problem solving.

The operator must apply all relevant Safety precautions.

Warranty-Product Liability

Use only authorised parts. Any damage or malfunction caused by the use of unauthorised parts is not covered by Warranty or Product Liability.

General

When servicing, replace all removed gaskets, O-rings and washers.

Intervals

Carry out maintenance at the interval which comes first. The local Atlas Copco Customer Centre may overrule the maintenance schedule, especially the service intervals, depending on the environmental and working conditions of the compressor.

The "longer interval" checks must also include the "shorter interval" checks.

Preventive maintenance schedule for GX7 and GX11

Period	Running hours	Operation
Daily	--	Check the oil level before starting; drain the condensate after stopping.
3-Monthly	--	Check for possible leaks.
"	1000	Inspect the oil cooler, clean if necessary.
"	1000	Inspect the air cooler, clean if necessary.
"	1000	Inspect the air filter.
"	--	Inspect the condensate trap, clean the float valve if necessary.
"	--	For compressors with PDX filter: check the service indicator, replace the filter if necessary.
--	1000	Check the tension and the condition of the belts. Adjust, if necessary.
Yearly	--	Have the safety valve tested.
"	--	Have the operation of sensors, electrical interlockings and components checked.

Period	Running hours	Operation
"	--	Have the temperature shut-down switch tested.
"	4000	Replace the air filter.
"	4000	Replace the oil filter.
"	4000	Replace the oil separator.
"	4000	For compressors with PDX filter, replace the filter.
"	4000	If Atlas Copco Roto-Inject Fluid is used, change the oil.
"	8000	If Atlas Copco Roto-Xtend Duty Fluid is used (60 Hz / CSA-UL versions), change the oil.
"	--	Clean the compressor.

5.2 Drive motor

Description

The motor bearings are greased for life.

5.3 Oil specifications

	Never mix oils of different brands or types.
---	--

It is strongly recommended to use Atlas Copco Fluid (see Preventive maintenance schedule).

Atlas Copco Roto-Inject Fluid

Atlas Copco Roto-Inject Fluid is special oil for oil-injected scroll and screw compressors which keeps the compressor in excellent condition. Roto-Inject Fluid can be used for compressors operating at ambient temperatures between 0°C (32°F) and 40°C (104°F)(see Service kits).

Atlas Copco Roto-Xtend Duty Fluid

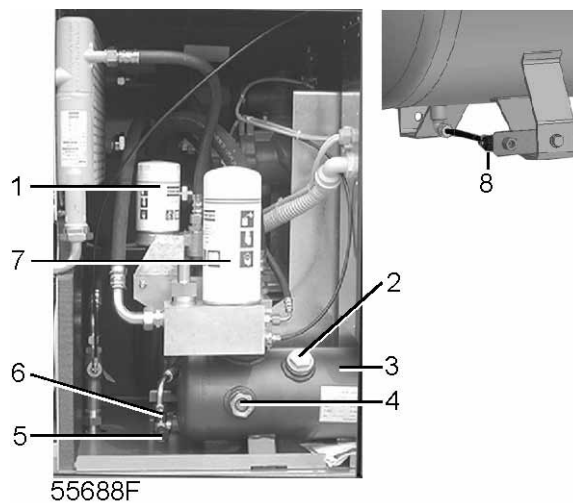
Atlas Copco Roto-Xtend Duty Fluid is a high-quality synthetic lubricant for oil-injected scroll and screw compressors which keeps the compressor in excellent condition. Roto-Xtend Duty Fluid can be used for compressors operating at ambient temperatures between 0°C (32°F) and 40°C (104°F)(see Service kits).

5.4 Oil, filter and separator change

Important

	Never mix oils of different brands or types. If the compressor is exposed to external pollutants, is being used at high temperatures (oil temperature above 90°C / 194°F) or is being used under severe conditions, it is advisable to change the oil more frequently. Consult Atlas Copco.
--	---

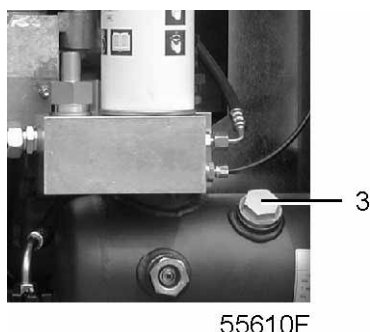
Location of oil filter and separator



Step	Action
1	Run the compressor until warm. Stop the compressor, close the air outlet valve and switch off the voltage.
2	Depressurise the compressor by unscrewing filler plug (2) one turn to permit any pressure in the system to escape.
3	Depressurise the air receiver by opening drain valve (8).
4	Remove plug (5), drain the oil by opening drain valve (6). Close the valve and refit the plug after draining. Deliver the spent oil to the local oil collection service.
5	Remove oil filter (7) and separator (1). Clean the seats on the manifold.
6	Oil the gaskets of the new filter and separator and screw them into place. Tighten firmly by hand.
7	Fill oil separator/tank (3) with oil until the level reaches the middle of sight-glass (4). Ensure no dirt gets into the system.
8	Refit and tighten filler plug (2).
9	Close drain valve (8) of the air receiver.
10	Run the compressor for a few minutes.
11	Stop the compressor and wait a few minutes to allow the oil to settle.
12	Depressurise the system by unscrewing filler plug (2) one turn to permit any pressure in the system to escape. Depressurise the air receiver by opening drain valve (8).
13	Fill the separator/tank with oil until the sight-glass is 3/4 full. Retighten plug (2) and close drain valve (8) of the air receiver.

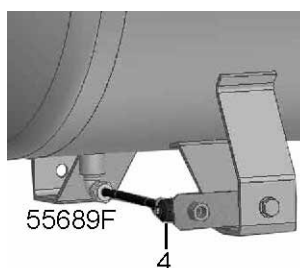
5.5 PDX filter change

Oil filler plug



GX7 and GX11

Drain valve, air receiver



GX7 and GX11

Step	Action
1	Stop the compressor, close the air outlet valve, switch off the voltage and depressurise by unscrewing oil filler plug (3) one turn to permit any pressure in the system to escape. Depressurise the air receiver by opening condensate drain valve (4).
2	Unscrew the vessel. A whistling noise will warn you if the vessel is not fully depressurised. If this occurs, the vessel should be screwed back and the venting should be repeated.
3	Discard the filter element.
4	Clean the vessel and replace its O-ring.
5	Fit the new filter element.
6	Refit the vessel.
7	Tighten oil filler plug (3).
8	Close condensate drain valve (4).

5.6 Storage after installation

If the compressor is stored without running from time to time, consult Atlas Copco as protective measures may be necessary.

5.7 Service kits

Service kits

Service kits are available offering the benefits of genuine Atlas Copco parts while keeping the maintenance budget low. The kits comprise all parts needed for servicing.

Service kits	Content	Ordering number
Filter kit	Air filter, oil filter and oil separator	2901 0919 00
Air filter kit	Filter cartridge	1613 9001 00
Oil filter kit	Filter cartridge	1513 0337 01
Oil separator kit	Filter cartridge	1622 0871 00
PDX kit	Filter cartridge	2901 0864 00
Float kit	Drain (complete) O-rings for water separator	2901 0712 00
MPV kit 7.5 - 10 bar / 100 - 150 psi	Valve disc, springs, seals and minimum pressure valve	2901 1399 00
MPV kit 13 bar / 175 psi	Valve disc, springs, seals and minimum pressure valve	2901 1411 00
Roto-Inject Fluid	5-litre (1.32 US gal / 1.10 Imp gal / 0.18 cu.ft) can	2901 1411 00
Roto-Inject Fluid	20-litre (5.28 US gal / 4.40 Imp gal / 0.70 cu.ft) can	2901 0522 00
Roto-Inject Fluid	209-litre (55.18 US gal / 45.98 Imp gal / 7.32 cu.ft) can	2901 0045 01
Roto-Xtend Duty Fluid	5-litre (1.32 US gal / 1.10 Imp gal / 0.18 cu.ft) can	2901 1700 00
Roto-Xtend Duty Fluid	20-litre (5.28 US gal / 4.40 Imp gal / 0.70 cu.ft) can	2901 1701 00
Roto-Xtend Duty Fluid	209-litre (55.18 US gal / 45.98 Imp gal / 7.32 cu.ft) can	2901 1702 00

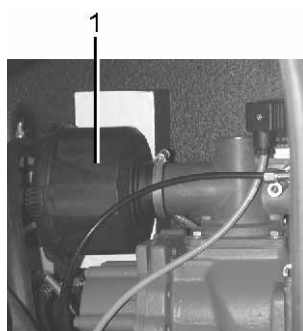
Belt sets

Belt sets	Content	Ordering number
GX7 - 7.5 bar	2 belts	1613 9032 06
GX7 - 10 bar	2 belts	1613 9032 22
GX7 - 13 bar	2 belts	1613 9032 01
GX11 - 7.5 bar	2 belts	1613 9032 22
GX11 - 10 bar	2 belts	1613 9032 22
GX11 - 13 bar	2 belts	1613 9032 01
GX7 - 100 psi, -125 psi	2 belts	1613 9032 05
GX7 - 150 psi, -175 psi	2 belts	1613 9032 06
GX11 - 100 psi, -125 psi, -150 psi, -175 psi	2 belts	1613 9032 01

6 Adjustments and servicing procedures

6.1 Air filter

Changing the air filter

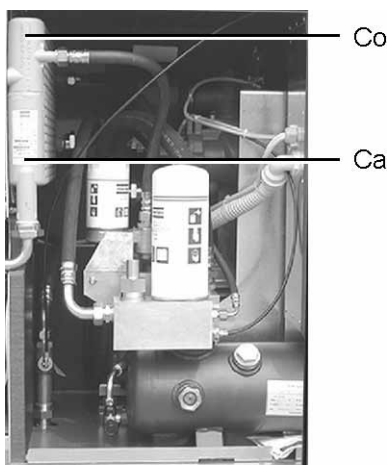


Position of air filter for GX7 and GX11

Air filter change on GX2 up to GX22

Step	Action
1	Stop the compressor, close the air outlet valve and switch off the voltage.
2	Remove the front panel and the top panel of the compressor housing.
3	Unscrew the filter cover (1) and remove the filter element. Discard the air filter element.
4	Fit the new element and screw on the filter cover.
5	Refit the top and front panels.

6.2 Coolers

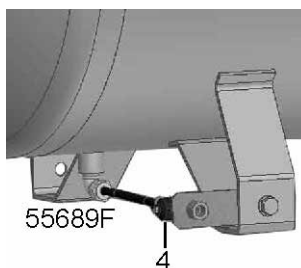


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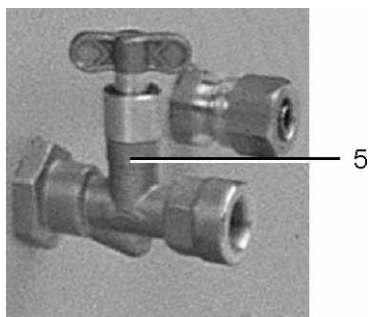
GX7 and GX11

Step	Action
1	Keep oil cooler (Co) clean to maintain the cooling efficiency. For versions with air cooler: also keep cooler (Ca) clean to maintain the cooling efficiency.
2	Stop the compressor, close the air outlet valve and switch off the voltage. Remove any dirt from the oil cooler (Co) with a fibre brush. For versions with air cooler: also remove any dirt from the air cooler (Ca). Never use a wire brush or metal objects. Then clean using an air jet.

6.3 Safety valve

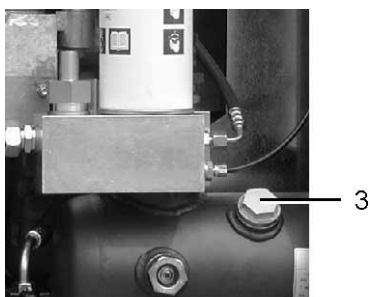


Condensate drain valve, GX7 and GX11



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Condensate drains, GX7 up to GX37



55610F

Filler plug, GX7 and GX11

Testing

The valve can be tested on a separate compressed air line.

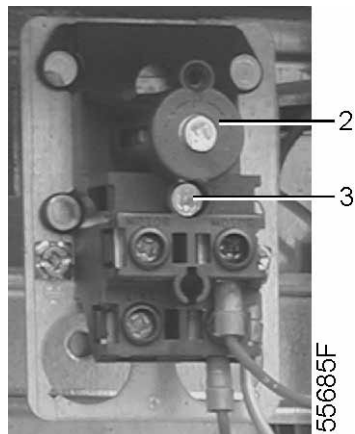
Before removing the valve: stop the compressor, close the air outlet valve, switch off the voltage, open drain valves (4 and 5 if fitted) and unscrew filler plug (3) one turn to permit any pressure in the system to escape.

If the valve does not open at the set pressure stamped on the valve, replace the valve.



No adjustments are allowed. Never run the compressor without a safety valve.

6.4 Unload/stop pressure switch



Pressure switch, GX7 up to GX11

The switch allows the operator to select the unloading/stopping pressure (see Regulating system).

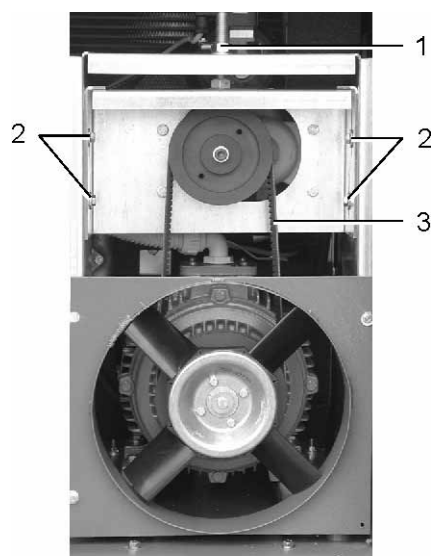


Adjustment can only be carried out when the pressure switch is pressurised.

The loading/starting pressure is controlled by adjusting screw (2). Turn the screw clockwise to raise the pressure, anti-clockwise to lower it.

The pressure difference between unloading and loading can be adjusted with screw (3). Turn the screw clockwise to raise the pressure difference, counter-clockwise to lower it.

6.5 Belt set exchange and tensioning



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GX7 and GX11



Read the warning in the Preventive maintenance schedule section.

Adjusting the tension of the drive belts for GX7 and GX11

Step	Action
1	Stop the compressor, close the air outlet valve and switch off the voltage.
2	Remove the right side panel, the inlet panel and the fan cover of the compressor.
3	Loosen the 4 bolts (2) by one turn.
4	Adjust the belt tension by turning tensioning nut (1).
5	The tension is correct when a force of between 20 N (4.5 lbf) and 25 N (5.63 lbf) applied at the midpoint of the belts causes a deflection of 5 mm (0.2 in).
6	Retighten bolts (2).
7	Refit the bodywork panels.

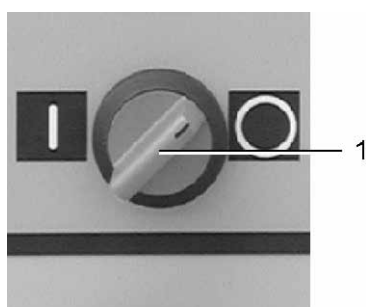
Replacing the drive belts for GX7 and GX11

Step	Action
	The belts (3) must be replaced as a set, even if only one of the belts is worn. Only use genuine Atlas Copco belts.
1	Stop the compressor, close the air outlet valve and switch off the voltage.
2	Remove the right side panel, the inlet panel and the fan cover of the compressor.
3	Loosen the 4 bolts (2) by one turn.
4	Release the belt tension by loosening tensioning nut (1).
5	Remove the belts.
6	Install the new belts.
7	Tension belts (3) as described above.
8	Re-assemble the fan cover.
9	Refit the bodywork panels.
10	Check the belt tension after 50 running hours.

7 Problem solving

7.1 Problem solving

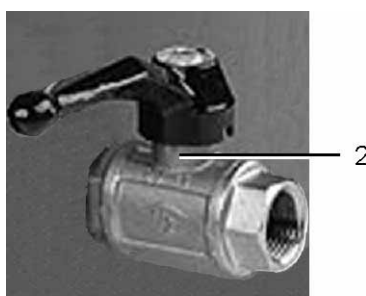
Start/stop switch



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GX7 up to GX22

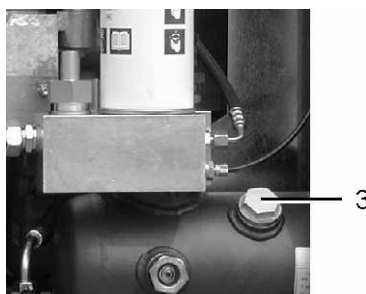
Air outlet valve



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GX2 up to GX37

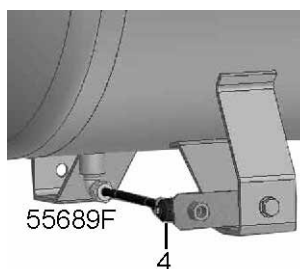
Oil filler plug



55610F

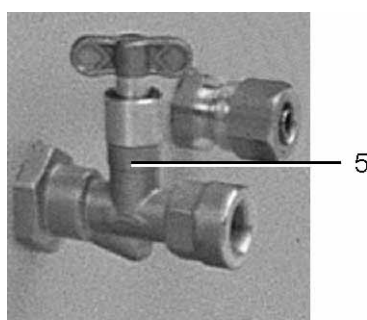
GX7 and GX11

Drain valve, air receiver



GX7 and GX11

Drain valve



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GX7 up to GX37

Attention

	Use only authorised parts. Any damage or malfunction caused by the use of unauthorised parts is not covered by Warranty or Product Liability. Apply all relevant Safety precautions.
	Before carrying out any maintenance or repair work on the compressor: move start/stop switch (1) to position 0. Wait until the compressor has stopped and switch off the voltage. See Stopping section. Open the isolating switch to prevent an accidental start. Close air outlet valve (2) and depressurise the compressor by opening plug (3) one turn. Open manual condensate drain valves (4 and/or 5).
	The air outlet valve (2) can be locked during maintenance or repair as follows: • Close the valve. • Remove the screw fixing the handle with the wrench delivered with the compressor. • Lift the handle and turn it until the slot of the handle fits over the blocking edge on the valve body. • Fit the screw.

Faults and remedies

For all references given hereafter, see Air flow diagram, Initial start-up or Regulating system.

For GX7 and GX11

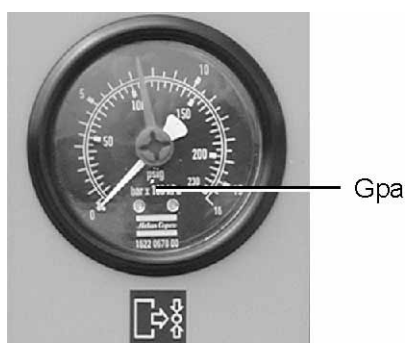
	Condition	Fault	Remedy
1	Compressor starts running, but does not load after a delay time	Solenoid valve (Y1) out of order	Replace valve
		Inlet valve (IV) stuck in closed position	Have valve checked
		Leak in control air flexibles	Replace leaking flexible
		Minimum pressure valve (Vp) leaking (when net is depressurised)	Have valve checked
		Timer out of order	Replace timer
2	Compressor air output or pressure below normal	Air consumption exceeds air output of compressor	Check equipment connected
		Choked air inlet filter element (AF)	Replace filter element
		Solenoid valve (Y1) malfunctioning	Replace valve
		Leak in control air flexibles	Replace leaking flexible
		Inlet valve (IV) does not fully open	Have valve checked
		Oil separator (OS) clogged	Replace separator element
		Safety valves leaking	Replace valves
3	Air outlet temperature above normal	Insufficient cooling air or cooling air temperature too high	Check for cooling air restriction or improve ventilation of compressor room. Avoid recirculation of cooling air. If installed, check capacity of compressor room fan
		Oil level too low	Check and correct as necessary
		Cooler clogged	Clean cooler
		Temperature switch malfunctioning	Have switch tested
		Compressor element (E) out of order	Consult Atlas Copco

GX7 up to GX11 with air cooler

	Condition	Fault	Remedy
1	Condensate is not discharged during loading	Discharge flexible clogged	Check and correct as necessary
		Float valve malfunctioning	Remove float valve assembly, clean or replace as necessary

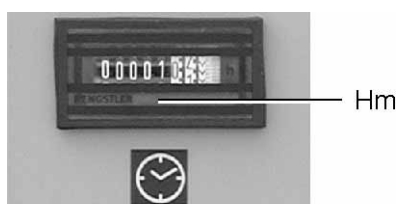
8 Technical data

8.1 Readings on control panel

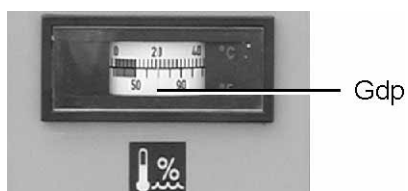


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GX7 up to GX37



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The readings mentioned below are valid under the reference conditions (see Reference conditions and limitations).

Ref.	Name
Gpa	Air outlet pressure Reading: Modulates between preset unloading/stopping pressure and loading pressure
Gdp	Dew-point temperature Reading for GX7 up to GX22: Approx. 5°C (41°F) at 20°C (68°F) ambient temperature
Hm	Hour meter Reading: Total running time

8.2 Settings for overload relay and fuses

GX7 and GX11

Frequency (Hz)	Voltage (V)	Overload relay F21 (A) of GX7	Main fuses (A) of GX7	Overload relay F21 (A) of GX11	Main fuses (A) of GX11
IEC	Star-delta		gL/gG		gL/gG
50	230	17.3	50	25.4	63
50	400	10	25	14.6	35
50	500	8	20	11.7	35
60	380	15.7	35	15.7	35
60	440/460	9	25	13	35
CSA/UL	DOL		CSA-UL		CSA-UL
60	200	36.6	50 - 50	52.6	70 - 70
60	208-220/ 230	33.4	45 - 45	48.6	70 - 70
60	440/460	15.9	25 - 25	22.9	35 - 35
60	575	16.7	20 - 20	18.3	30 - 30

8.3 Reference conditions and limitations

Reference conditions

Air inlet pressure (absolute)	bar	1
Air inlet pressure (absolute)	psi	14.5
Air inlet temperature	°C	20
Air inlet temperature	°F	68
Relative humidity	%	0
Working pressure	bar(e)	See Compressor data
Working pressure	psi	See Compressor data

Limitations

Maximum working pressure	bar(e)	See Compressor data
Maximum working pressure	psig	See Compressor data
Minimum working pressure	bar(e)	4
Minimum working pressure	psig	58
Maximum air inlet temperature	°C	46
Maximum air inlet temperature	°F	115
Minimum ambient temperature	°C	0
Minimum ambient temperature	°F	32

8.4 Compressor data

50 Hz 7.5-13 bar (under reference conditions)

Compressor type		GX7	GX11	GX7	GX11	GX7	GX11
Frequency	Hz	50	50	50	50	50	50
Maximum (unloading) pressure, Pack	bar(e)	7.5	7.5	10	10	13	13
Maximum (unloading) pressure, Pack	psig	109	109	145	145	189	189
Maximum (unloading) pressure, Full-Feature	bar(e)	7.25	7.25	9.75	9.75	12.75	12.75
Maximum (unloading) pressure, Full-Feature	psig	105	105	141	141	185	185
Nominal working pressure	bar(e)	7	7	9.5	9.5	12.5	12.5
Nominal working pressure	psig	102	102	138	138	181	181
Set-point, thermostatic valve	°C	40	40	40	40	60	60
Set-point, thermostatic valve	°F	104	104	104	104	140	140
Temperature of air leaving outlet valve (approx.), Pack							
• Tank-mounted	°C	43	50	43	50	43	50
• Tank-mounted	°F	109	122	109	122	109	122
• Floor-mounted	°C	70	80	70	80	70	80
• Floor-mounted	°F	158	176	158	176	158	176

Compressor type		GX7	GX11	GX7	GX11	GX7	GX11
Temperature of air leaving outlet valve (approx.), Full-Feature	°C	25	26	25	26	25	26
Temperature of air leaving outlet valve (approx.), Full-Feature	°F	77	79	77	79	77	79
Power input, Pack at maximum working pressure	kW	9.5	13.6	10.5	13.9	10.4	13.5
Power input, Pack at maximum working pressure	hp	12.74	18.24	14.08	18.64	13.95	18.1
Power input, Full-Feature at maximum working pressure	kW	10	14.4	11	14.6	10.8	14.3
Power input, Full-Feature at maximum working pressure	hp	13.41	19.31	14.75	19.58	14.48	19.18
Oil capacity	l	5	5	5	5	5	5
Oil capacity	US gal	1.32	1.32	1.32	1.32	1.32	1.32
Oil capacity	Imp gal	1.1	1.1	1.1	1.1	1.1	1.1
Oil capacity	cu.ft	0.18	0.18	0.18	0.18	0.18	0.18
Sound pressure level (according to ISO 2151 (2004))	dB(A)	67	69	67	69	67	69

60 Hz 100-125 psi (under reference conditions)

Compressor type		GX7	GX11	GX7	GX11
Frequency	Hz	60	60	60	60
Maximum (unloading) pressure, Pack	bar(e)	7.4	7.4	9.1	9.1
Maximum (unloading) pressure, Pack	psig	107	107	132	132
Maximum (unloading) pressure, Full-Feature	bar(e)	7.15	7.15	8.85	8.85
Maximum (unloading) pressure, Full-Feature	psig	103.7	103.7	128	128
Nominal working pressure	bar(e)	6.9	6.9	8.6	8.6
Nominal working pressure	psig	100	100	125	125
Set-point, thermostatic valve	°C	40	40	40	40
Set-point, thermostatic valve	°F	104	104	104	104

Compressor type		GX7	GX11	GX7	GX11
Temperature of air leaving outlet valve (approx.), Pack					
• Tank-mounted	°C	43	50	43	50
• Tank-mounted	°F	109	122	109	122
• Floor-mounted	°C	70	80	70	80
• Floor-mounted	°F	158	176	158	176
Temperature of air leaving outlet valve (approx.), Full-Feature	°C	25	26	25	26
Temperature of air leaving outlet valve (approx.), Full-Feature	°F	77	79	77	79
Power input, Pack at maximum working pressure	kW	9.2	12.9	9.3	12.9
Power input, Pack at maximum working pressure	hp	12.34	17.3	12.47	17.3
Power input, Full-Feature at maximum working pressure	kW	9.8	13.8	9.9	13.8
Power input, Full-Feature at maximum working pressure	hp	13.14	18.51	13.28	18.51
Oil capacity	l	5	5	5	5
Oil capacity	US gal	1.32	1.32	1.32	1.32
Oil capacity	Imp gal	1.1	1.1	1.1	1.1
Oil capacity	cu.ft	0.18	0.18	0.18	0.18
Sound pressure level (according to ISO 2151 (2004))	dB(A)	69	70	69	70

60 Hz 150-175 psi (under reference conditions)

Compressor type		GX7	GX11	GX7	GX11
Frequency	Hz	60	60	60	60
Maximum (unloading) pressure, Pack	bar(e)	10.8	10.8	12.5	12.5
Maximum (unloading) pressure, Pack	psig	157	157	181	181
Maximum (unloading) pressure, Full-Feature	bar(e)	10.55	10.55	12.25	12.25
Maximum (unloading) pressure, Full-Feature	psig	153	153	178	178
Nominal working pressure	bar(e)	10.3	10.3	12	12
Nominal working pressure	psig	149	149	174	174
Set-point, thermostatic valve	°C	40	40	60	60
Set-point, thermostatic valve	°F	104	104	140	140
Temperature of air leaving outlet valve (approx.), Pack					

Compressor type		GX7	GX11	GX7	GX11
• Tank-mounted	°C	43	50	43	50
• Tank-mounted	°F	109.4	122	109.4	122
• Floor-mounted	°C	70	80	70	80
• Floor-mounted	°F	158	176	158	176
Temperature of air leaving outlet valve (approx.), Full-Feature	°C	25	26	25	26
Temperature of air leaving outlet valve (approx.), Full-Feature	°F	77	78.8	77	78.8
Power input, Pack at maximum working pressure	kW	9	12.7	8.8	12.9
Power input, Pack at maximum working pressure	hp	12.07	17.03	11.8	17.3
Power input, Full-Feature at maximum working pressure	kW	9.7	13.6	9.3	13.8
Power input, Full-Feature at maximum working pressure	hp	13.01	18.24	12.47	18.51
Oil capacity	l	5	5	5	5
Oil capacity	US gal	1.32	1.32	1.32	1.32
Oil capacity	Imp gal	1.1	1.1	1.1	1.1
Oil capacity	cu.ft	0.18	0.18	0.18	0.18
Sound pressure level (according to ISO 2151 (2004))	dB(A)	69	70	69	70

9 Instructions for use of air receiver

9.1 Instructions for use

1	This vessel can contain pressurised air; this can be potentially dangerous if the equipment is misused.
2	This vessel must only be used as compressed air/oil separator and must be operated within the limits specified on the data plate.
3	No alterations must be made to this vessel by welding, drilling or other mechanical methods without the written permission of the manufacturer.
4	The pressure and temperature of this vessel must be clearly indicated.
5	There is no intrinsic need for service inspection of the vessel when used within the design limits for its intended application.
6	Corrosion must be prevented under the conditions of use. Condensation may accumulate inside the tank and this must be drained every day. This may be done manually, by opening the drain valve, or by means of the automatic drain, if fitted to the tank.

10 PED

10.1 Pressure equipment directives

Components subject to 97/23/EC Pressure Equipment Directive

Components subject to 97/23/EC Pressure Equipment Directive greater than or equal to category II

Compressor type	Part number	Description	PED Class
GX7 and GX11	0830 1007 68	Safety valve	IV
	0830 1007 70	Safety valve	IV
	0830 1008 73	Safety valve	IV

Overall rating

The compressors conform to PED smaller than category II.

GX 11, GX 7

What sets Atlas Copco apart as a company is our conviction that we can only excel in what we do if we provide the best possible know-how and technology to really help our customers produce, grow and succeed.

There is a unique way of achieving that - we simply call it the Atlas Copco way. It builds on **interaction**, on long-term relationships and involvement in the customers' process, needs and objectives. It means having the flexibility to adapt to the diverse demands of the people we cater for.

It's the **commitment** to our customers' business that drives our effort towards increasing their productivity through better solutions. It starts with fully supporting existing products and continuously doing things better, but it goes much further, creating advances in technology through **innovation**. Not for the sake of technology, but for the sake of our customer's bottom line and peace-of-mind.

That is how Atlas Copco will strive to remain the first choice, to succeed in attracting new business and to maintain our position as the industry leader.