

Gardner Denver

Standard Warranty Terms & Conditions

GD Protect 10 Extended Warranty Terms & Conditions

Applies to all units manufactured from 1 January 2020

PROTECT

10
years

Extended Warranty for GD Compressors

2020



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1. Standard Warranty Terms

1.1 General warranty statement

Gardner Denver states that machinery and parts supplied will be warranted for defects in material, design or manufacture for the warranty period detailed in section 1.3. Gardner Denver makes no warranty, and hereby disclaims any warranty, expressed or implied, except as expressly provided herein.

The responsibility for warranty work rests with Gardner Denver who reserve the right to use distributors or Gardner Denver service personnel as appropriate.

Only “Gardner Denver trained personnel” or Gardner Denver certified distributors / agents will carry out warranty work on behalf of Gardner Denver. Reasonable safe access must be provided and all local health and safety issues must be maintained

During a warranty repair, if faults are found which are not covered by the Warranty Policy, for example, a consumable item, or neglect, then an order number or written authority from the customer to cover the non warranty work/parts must be obtained.

Gardner Denver will only meet the cost of warranty work conducted during normal working hours and excludes weekends and official statutory holidays. Should the customer require attendance outside this period the additional cost will not be the responsibility of Gardner Denver.

If the customer for any reason delays warranty work, it must be made clear to the customer they will be charged for the additional time.

It is the responsibility of the “trained personnel” to report any circumstances which are having an adverse affect on the operation of the machine. This could involve lack of maintenance, poor environment, variable electrical supply or any other factor detrimental to its correct or efficient operation.

Warranty does not include any liability for any consequential loss or damages whatsoever, including, among other things, loss of profits or business and downtime, nor the cost of hiring or providing replacement equipment during the time scale of the failure.

Gardner Denver shall be under no liability for warranty if the machine or parts have been misused in anyway or not operated in the conditions for which it is designed.

Gardner Denver shall be under no liability for warranty if the machine or parts have been altered or modified from the original manufacturer’s specification other than by the fitting of Gardner Denver approved options and accessories.

Gardner Denver shall be under no liability for warranty if the machine is not serviced in accordance with the published service schedules. Gardner Denver genuine or approved parts, oils and lubricants are recommended. Warranty does NOT mean or include free maintenance.

No warranty will be accepted for natural wear or tear of the equipment. No warranty will be accepted for damage caused by fire or force majeure.

Gardner Denver shall be under no liability for warranty if the customer fails to notify Gardner Denver within the warranty period and within 60 days after repair of a defect.

The warranty conditions detailed in this policy document take precedence over the references to warranty contained in the Gardner Denver/ Gardner Denver Conditions of Sale.

The warranty period on components supplied or successfully claimed under warranty will not exceed the remainder of the machine’s warranty period

Any changes to the Gardner Denver warranty policy for specific customer requirements must have the written permission of the Gardner Denver Warranty Manager.

Gardner Denver will assume reasonable labour and travel costs to repair the equipment according to the published repair times.

1.2 Delivery and commissioning

1.2.1 Post delivery inspection

Every effort will be made by Gardner Denver to ensure machines are delivered free from damage. However, on receipt a thorough examination of the machine must be made. If a consignment is damaged in transit the customer/distributor must promptly (and no later than 2 days after receipt) report the extent of the damage to the shipping/despatch section of the relevant division or site.

Where Gardner Denver have undertaken the arrangements for carriage they will seek reimbursement direct from the carrier, otherwise it is for the recipient to claim against the carrier.

In the event of transit damage occurring using a Gardner Denver carrier the following action is required, in order that Gardner Denver can make a claim against the carrier’s insurance policy. Immediately notify the carrier’s driver and note the damage on the delivery note. Then notify the S.O.P Manager at the correct Gardner Denver site who will then need the following information.

- Date received.
- Date damage discovered
- Description of damage (where possible supported by photographs)
- Order reference number
- Copy of delivery note

1.2.2 Installation and commissioning

All compressor and dryer installations must be carried out, and/or checked by “trained personnel” prior to commissioning. Any problems should be reported to the relevant Gardner Denver division/site and the customer immediately. Where any installation and commissioning have been carried out by the end user, and are subsequently found to be incorrect and contributed to the failure, the warranty will become void.

Under no circumstances should the machine be put into operation if there is any doubt concerning the installation.

Upon completion of the commissioning, an certified member of the customer staff should be informed of the correct maintenance checks and the method of operation of the machine.

Commissioning forms must be uploaded to the Gardner Denver On-Line Warranty Registration System. Missing or incomplete commissioning forms will invalidate your warranty.

The customer is encouraged to enter into a GD Protect 10 service plan with the Gardner Denver Distributor, or Gardner Denver sales company.

1.3 Warranty duration and options

1.3.1 Warranty overview by model - range

Model - Range	Warranty Duration	Extended Warranty Available
ESM 2-6 Oil Lubricated Screw Compressors	24 Months ¹	✗
ESM 7 - 290 Oil Lubricated Screw Compressors	24 Months ¹	✓
VS 7 - 290 Oil Lubricated Screw Compressors	24 Months ¹	✓
Gardner Denver dryers/refrigerators/ Nitrogen Generators ²	24 Months ¹	✓
Compressor Air End Oil Lubricated Screw	24 Months ¹	✗
Replacement Air Ends	36 Months ³	✗
Electric Motors	24 Months ¹	✗
Replacement Spare Parts	12 Months	✗

¹ - The complete machine will have a warranty period of as mentioned above from date of commissioning or an additional 6 months from date of despatch ex Gardner Denver which ever is the soonest.

Gardner Denver recommends that only genuine Gardner Denver or approved parts be used, and that service be carried out by a certified Gardner Denver trained service engineer.

² - The GDX068LE - GDX340LE vacuum pump (VC150, VC202, VC303) has a 12 month warranty only and is excluded from the Extended Warranty.

³ - New Air End 36 months, Refurbished Air Ends 24 Months

1.3.2 Replacement spare parts

The warranty period for replacement parts excluding air ends, motors and consumable spare parts shall be 12 months ex Gardner Denver. The extent of this will be replacement part only.

Gardner Denver will not warrant adjacent components to the replacement part

Any defective spare part found prior to installation should be processed directly with the Gardner Denver parts department, not as a warranty claim.

1.3.3 Extended warranty

Gardner Denver offer the Extended Warranty programmes on selected models. Additional terms and conditions apply. Please refer to the terms and conditions of the Extended Warranty Programmes.

1.4 Warranty registration requirements

All machinery mentioned in 1.3.1 and 2.1.1 must be registered by the Gardner Denver Distributor or Gardner Denver Sales Organisation on the Gardner Denver On-Line warranty system, within 90 days from the installation/start up of the new equipment. Spare parts do not require registration.

No warranty will be provided for machines mentioned in 1.3.1 and 2.1.1 not registered within the above mentioned criteria.

Comprehensive end user details are required along with any supporting documents that are requested by our on-line registration system.

Gardner Denver reserves the right to refuse warranty for registrations that have been submitted incorrectly.

Please contact Gardner Denver for further details and access to the On-Line Warranty System.

1.5 Warranty claim process

All warranty claims must be submitted by the Gardner Denver Distributor or Gardner Denver Sales Organisation using the Gardner Denver On-Line warranty system, within 60 days from the date of repair. No warranty claims will be accepted without prior registration of the equipment.

No warranty claims will be accepted if submitted via fax, post or e-mail unless otherwise agreed by Gardner Denver under exceptional circumstances.

Gardner Denver reserves the right to refuse warranty for claims that have been submitted incorrectly.

Please contact Gardner Denver for further details and access to the On-Line Warranty System.

1.6 Component return

All failed components must be kept by yourselves. Gardner Denver will either notify you of the need to return the component to us, or that you can dispose of the component.

The purchaser shall retain the claimed part or product for six (6) months after the claim has been submitted by the purchaser for Gardner Denver's inspection and on request the alleged defective part shall be sent to a destination designated by Gardner Denver at the Purchaser's costs. No products may be returned by the Purchaser to the Company without Gardner Denver's prior written consent, and Gardner Denver will not accept any liability for costs incurred by the Purchaser in connection with returning products or parts. After warranty handling, the title to the defective parts shall be transferred to Gardner Denver.

1.7 Parts excluded from standard warranty

normal wear items, accidental damage to panel work or damage caused as a result of ambient operating conditions such as but not limited to extreme temperatures, excessive dust and dirt and extreme humidity. These conditions require a more frequent service interval than the standard service recommendation to prevent damage to the machinery

2 GD Protect 10 Extended Warranty Terms and Conditions

Unless specifically mentioned in section 2 all standard warranty terms and conditions described in section 1 will apply.

GD Protect 10 extended warranty offering is only available for equipment owners who have signed up to a GD approved service plan. If the equipment owner decides to cancel GD Protect 10 service plan the extended warranty will become void immediately.

GD Protect 10 is not available on all models supplied by Gardner Denver; please see section 2.1 for details.

GD Protect 10 is offered on a country by country basis. Please check with your certified service provider if GD Protect 10 is offered in your country.

2.1 GD Protect 10 - eligible models - ranges

Model - Range	Warranty Duration	
	Major Package Components	Air End
ESM / VS 7 - 290 Oil Lubricated Screw Compressors	6 Years / 44,000 Hours ¹	10 Years / 44,000 Hours ²
Gardner Denver dryers/refrigerators/Nitrogen Generators ³	6 Years / 44,000 Hours ¹	✗

¹ - 44,000 operating hours or 6 Years (72 months) from commissioning or 78 months from shipment factory (whichever is the soonest)

² - 44,000 operating hours or 10 Years (120 months) from commissioning or 126 months from shipment factory (whichever is the soonest)

³ - Only valid when the compressed air system has Gardner Denver Filters and Pre-Filters installed. The GD X068LE - GD X340LE vacuum pump (VC150, VC202, VC303) has a 12 month warranty only and is excluded from the Extended Warranty

2.2 GD Protect 10 Extended Warranty Terms & Conditions

COMPONENTS	GD PROTECT 10 EXTENDED WARRANTY COVERAGE	DETAILS
Package	24 months from startup or 30 months from date of shipment to first purchaser, whichever occurs first	All components within the package, excluding normal wear items, accidental damage to panel work or damage caused as a result of ambient operating conditions such as but not limited to extreme temperatures, excessive dust and dirt and extreme humidity. These conditions require a more frequent service interval than the standard service recommendation to prevent damage to the machinery
Air End	120 months (10 years) from date of initial startup or 126 months from shipment, or 44,000 operating hours, whichever occurs first	Normal wearing items, such as shaft seals and inlet valve components, along with the servicing of these items is not covered under the warranty unless deemed as material or workmanship defects. Any disassembly or partial disassembly of the airend, or failure to return the "unopened" airend per Company instructions, will be cause for denial of warranty
Electric Motors	72 months (6 years) from date of initial startup or 78 months from shipment, or 44,000 operating hours, whichever occurs first	Includes both drive motor and cooling fan motor. For nonstandard motors, the original manufacturer's warranty will take precedence.
Major Package Components	72 months (6 years) from date of initial startup, or 78 months from shipment, or 44,000 operating hours, whichever occurs first	<p>The following items are excluded:</p> <ul style="list-style-type: none"> Consumable items, unless it has a defect in design or manufacture before recommended replacement as per our published service schedule (including but not limited to housing or cartridges for (Spin-on) Oil Filters, Air Filters, (Spin-On) Separators, Auto Greasing cartridges, Cabinet Filters, Lubricants) Normal service items will be covered as long as they are replaced as published in the service schedules (including but not limited to Intake Valves, Minimum Pressure Valves, Shaft Seals, Drive Belt, Hoses and Victaulic and Flexmaster Coupling) Oil thermostatic valve, Pulleys, Drive Couplings and Associated rubbers, Pressure and Temperature Sensors, Solenoids, contactors, batteries, inverter fans, software (unless it has a defect in design or manufacture) <p>Replacement parts provided under the terms of the warranty are warranted for the remainder of the Warranty Period, service items limited by the service intervals.</p>
Labour	<p>Package: 12 months from startup or 18 months from date of shipment to first purchaser, whichever occurs first</p> <p>Airend / Electric Motors / Major Package Components: 72 months from date of initial startup, or 78 months from shipment, or 44,000 operating hours whichever occurs first.</p> <p>Gardner Denver agrees to be liable for the hours in excess of the first 2 hours on any warranty job performed under the GD Protect 10 warranty programmes.. Gardner Denver will assume reasonable labour and travel costs to repair the equipment according to the published repair times.</p>	Service will be provided by Company representative or authorized service personnel, for repair or replacement of any product or part which in the Company's sole judgment is proved not to be as warranted. Labor shall be limited to the amount specified in the Company's labor rate schedule. All costs of transportation of product, parts, and repaired or replacement parts claimed not to be as warranted to and from such service facilities shall be borne by the Purchaser. The Company may require the return of any part claimed not to be as warranted to one of its facilities as designated by Company, transportation prepaid by Purchaser, to establish a claim under this warranty.

The following conditions MUST be adhered to throughout the entire duration of the warranty:

- iConn remote monitoring must remain activated during the duration of the warranty term. This applies to compressors 30Kw and above.
- Genuine Gardner Denver service kits and lubricants must be used at all times and at the recommended service interval as per the corresponding GD Protect 10 equipment operating manuals. Only if no kits are available, individual genuine spare parts are allowed.
- Gardner Denver or Gardner Denver branded filters must be installed for Dryers or Nitrogen Generators to be warranted under GD Protect 10
- The Gardner Denver Certified Service Provider must register all services and service kits using the QR Code service registration process. Dryers and Generators are currently exempt from the QR code service registration.
- The compressor, dryer or nitrogen generator must be installed and commissioned by a Gardner Denver certified service provider.
- The equipment must be registered for GD Protect 10, in the warranty registration system, within 90 days of commissioning by the certified service provider. The registration MUST include the owner's company name, city and country.
- Only Gardner Denver certified service providers can provide service within the GD Protect 10 extended warranty period.
- The equipment owner must allow the Gardner Denver certified service provider to deliver the GD Protect 10 service plan.
- The equipment owner is responsible for all daily and weekly checks as detailed in the user handbook.

Failure to comply with the above terms and conditions, by either the equipment owner or the service provider, will invalidate the warranty, which will then revert to the unexpired portion (if any) of the standard warranty associated with this warrantable equipment.

No warranty is made with respect to:

- Any product which has been repaired or altered in such a way, in the company's judgment, as to affect the product adversely
- Any product which has, in the company's judgment been subject to negligence, accident, improper storage, or improper installation or application
- Damage caused as a result of ambient operating conditions such as but not limited to extreme temperatures, excessive dust and dirt and extreme humidity. These conditions require a more frequent service interval than the standard service recommendation to prevent damage to the machinery
- If the installation contain Non Gardner Denver or CompAir branded Pre-Filtration no extended warranty will be given under GD Protect 10.
- If the installation contain Non Gardner Denver or CompAir branded Post-Filtration no extended warranty will be given for Dryers or Nitrogen Generators under GD Protect 10. Standard warranty conditions only will apply.
- Force majeure, fire
- Any product which has not been operated or maintained in accordance with the recommendations of the company
- Any reconditioned, prior owned product or machinery not permanently sited e.g. Hire or mobile units

Important notes for Service Providers

- Documentary proof of all additional cost not related to replacing parts
- Works to be paid out as per the parts replacement and service time guide
- Claims must be submitted within 60 days from repair date otherwise claim will be void
- Service items are guaranteed to the hour's limit specified in the official Gardner Denver service schedule. Site operating environment may reduce these periods e.g. Air filters in very dusty conditions.
- Parts will be issued free of charge or credited at the price paid for them at Gardner Denver's discretion.
- All labour claims are subject to audit if Gardner Denver believes the hours claimed on a warranty job are excessive or unreasonable.
- Travel and mileage are subject to agreed compensation between GD and Service provider

2.3 GD Protect 10 Re-warrant

For compressors sold after 1 January 2019, Gardner Denver allows authorised Gardner Denver service providers to re-warrant an eligible compressor that was not registered for the GD Protect 10 programme originally.

GD Protect 10 re-warrant: Only possible to register for 12 months after the standard warranty has expired .

The Gardner Denver authorised service provider, following a completed Health-check and compressor re-commission, may apply to register the compressor for the GD Protect 10 Program giving a maximum re-capture life for GD Protect 10 of 44,000 hours or 6 years of the compressor and 44,000 hours or 10 years of the air end, after commissioning or 78/120 months after delivery factory (whichever is the soonest) for eligible products.

A completed Health-check is defined as a documented inspection having taken place and all remedial work identified during the Health-check having been carried out.

Exclusion Period for re-warranty

No claims can be accepted for any failure that occurred before or within first 90 days from date of re-warranty registration!

All other GD Protect 10 exclusions apply

2.4 GD Protect 10 Upgrade existing GD Protect 5 Registered compressors

The Gardner Denver authorised service provider, may apply to upgrade the already registered compressor for the GD Protect 5 Program giving a maximum re-capture life for GD Protect 10 of 44,000 hours or 6 years of the compressor and 44,000 hours or 10 years of the air end, after commissioning or 78/120 months after delivery factory (whichever is the soonest) for eligible products.

The compressor must have been serviced according to the published service schedules, in case of any historical non-compliance, Gardner Denver reserves the right to refuse or void the upgrade. From 1 January 2020 all Compressors from 7 to 290 Kw must have an active iConn connectivity (retrofit) to qualify for an upgrade.

2.5 Equipment owners obligations

- Whilst GD Protect 10 is free to the compressor owner there are certain conditions incumbent upon him to maintain the presence of his machinery in the GD Protect 10 programme.
- The customer must have his new machinery commissioned by an certified Gardner Denver service provider and have the installation approved by the certified service providers engineer.
- The machinery owner must allow the certified service provider to deliver the service plan or GD Protect 10 Service agreement in line with the published Gardner Denver GD Protect 10 service schedule. No other party can provide service other than Gardner Denver itself or a certified Gardner Denver service provider.
- Genuine Gardner Denver parts must be used in all repairs.
- Genuine Gardner Denver kits must be used for all services, in case no kit is available individual genuine parts must be used.
- Genuine Gardner Denver Warranty or Food Grade Lubricants must be used during the GD Protect 10 warranty period.
- The machinery owner is responsible for all daily checks as detailed in the user handbook/service schedule.
- The machinery owner is responsible for ensuring site installation conditions are maintained at the level existing when the commissioning form was completed.
- If the machinery owner fails to allow delivery and validation of the service schedule, this will invalidate his GD Protect 10 registration. The machinery will then revert to standard warranty cover providing the periods shown in section 1.3 have not expired.
- Failure to comply with any of the conditions in this section will result in the termination of the GD Protect 10 cover for the machinery in question
- Should the machinery owner breach any conditionality and have GD Protect 10 withdrawn, re-registration will not be possible.

2.6 Service Provider obligations

- The selling entity seeking to register a machine to the GD Protect 10 programme must be an certified Gardner Denver service provider.
- In the case of a new machine sale the compressor must be commissioned as per the guidelines and a fully completed registration and commissioning form must be entered into the Gardner Denver warranty system within 90 days of commissioning.
- Equipment owner details must be provided during the registration.
- Gardner Denver reserves the right to check the service registration in case of any warranty claim under the GD Protect 10 Program.
- The Gardner Denver certified service provider must ensure that the customer has agreed to an GD Protect 10 service plan and must ensure that all agreed services are delivered according to the GD Protect 10 service plan schedules, using only Genuine parts and lubrication.
- Failure to adhere to any of the conditions above will result in the machinery being ineligible for GD Protect 10 and receiving only standard warranty cover, if still applicable as per section 1.3.
- The certified service provider is responsible for maintaining full service records using the QR registration process. This information along with copies of the GD Protect 10 registration certificate, commissioning form and service agreements can be audited upon demand by Gardner Denver.
- The compressor owner's GD Protect 10 registration certificate can be downloaded from the Gardner Denver Warranty System. It is the responsibility of the certified service provider to ensure that these documents are given to the compressor owner.
- Failure to adhere to the use of the QR Codes, servicing the compressor with genuine parts, lubricants and according to the published Service Schedules will render the warranty invalid
- Genuine Gardner Denver parts must be used for all repairs.
- Genuine Gardner Denver kits must be used for all services.
- Gardner Denver reserves the right to audit certified service provider performance, evidence of inability to implement and/or maintain the GD Protect 10 programme may lead to the loss of certified service provider status.

3 Certified distributor status

Gardner Denver is the sole arbiter of whether a selling entity is an certified Gardner Denver service provider.

There is no agreement between Gardner Denver and any of its channels to market that automatically confers certified service provider status.

Only Gardner Denver certified service providers are eligible to register compressors to the GD Protect 10 programme or be

contracted to support an GD Protect 10 Service agreement.

As a minimum standard a certified service provider must have currently trained and qualified engineers on all the products eligible for the GD Protect 10 scheme that it is entitled to sell and support.

Gardner Denver has the absolute right to remove certified service provider status at any time and reassign machines in the GD Protect 10 scheme to any other certified service provider of its choosing.

Should a certified service provider have its distribution agreement terminated Gardner Denver has the absolute right to reassign those machines it registered into the GD Protect 10 scheme to any other certified service provider of its choosing.

4 Disclaimer

The remedy provided under this warranty shall be the sole, exclusive and only remedy available to the Purchaser and in no case shall Gardner Denver be subject to any other obligations or liabilities. Under no circumstances shall Gardner Denver be liable to the Purchaser or otherwise for liquidated, special, indirect, incidental, exemplary, or consequential damages, expenses, losses or costs, whatsoever, including, without limitation, lost profits, loss of use, loss of contracts, or facility downtime, howsoever caused.

Under no circumstances or conditions shall Gardner Denver's liability, whether in respect of one claim or in the aggregate, arising out of any contract exceed the purchase price payable under the contract to Gardner Denver for the subject equipment or parts.

No statement, representation, agreement or understanding, oral or written, made by any agent, distributor, representative, or employee of Gardner Denver which is not contained in this Warranty document, will be binding upon Gardner Denver unless made in writing and executed by an officer of Gardner Denver.

5 Statutory rights


The terms and conditions do not affect the customer's statutory rights.

GD Protect 10 Service Schedules

The following service schedules apply to Standard Warranty as well as GD Protect 10 Extended Warranty Programme



ESM02 - ESM06 Service Schedule

			Daily ²	Every 500 hours ¹	Every 2000 hours or 12 months ¹	Every 4000 hours or 12 months ¹	Every 8000 hours or 24 months ¹	Every 12000 hours or 72 months ¹	Every 16000 hours or 72 months ¹
Service A	AIRBASIC Controller	Check fault indicator lights and alarms	•	•	•	•	•	•	
	Condensate Drain and Strainer	Check autom. condensate discharger	•	•	•	•	•	•	
	Air Tank	Discharge oil separator condensate	•	•	•	•	•	•	
	Oil System	Check oil level	•	•	•	•	•	•	
Service C	Oil System	Check oil leaks		•	•	•	•	•	
	General	Clean inside compressor		•	•	•	•	•	
	Air Filter	Clean air filter		•	•	•	•	•	
	Drive Belts	Check belt tension		•	•	•	•	•	
	Electrical Wiring	Check connections and condition		•	•	•	•	•	
Service D	Oil Filter	Renew oil filter element			•	•	•	•	
	Air Filter	Renew air filter element			•	•	•	•	
	Separator Filter	Replace oil separator cartridges			•	•	•	•	
	Oil System	Renew oil (Mineral AEON3000 or Foodgrade AEON6000)			•	•	•	•	
	Oil System	Renew oil (Synthetic) AEON9000			•	•	•	•	
	Relief Valve	Check operation of pressure relief valve			•	•	•	•	
	Aftercooler/Oil Cooler	Clean cooler externally			•	•	•	•	
	Oil System	Clean oil return line			•	•	•	•	
	Valves	Change safety valve			•	•	•	•	
	General	Clean recovery nozzle			•	•	•	•	
Service E	Valves	Thermostatic valve KIT				•	•	•	
	Valves	Non Return Valve				•	•	•	
	Gaskets	Tank cap gasket				•	•	•	
	Filters	Control cabinet filter replacement				•	•	•	
Additional	Drive Belts	Replace the belts and check drive pulleys, replace if worn out				•	•	•	
	Inlet valve	Replace seal kits of inlet valve				•	•	•	
	Valves	Suction valve KIT				•	•	•	
	Valves	Minimum pressure valve KIT				•	•	•	
	Oil Hoses	Replace oil hoses				•	•	•	
	Drive Motor	Check and re-tighten main motor cables				•	•	•	
	Air End	Replace shaft seal kit				•	•	•	
Air End	Replace Air End	Predictive - only when required							

¹ Whichever occurs soonest

² Normally undertaken by end user through visual check

Inspection of the pressure vessel in accordance with local guidelines

Where the compressor is part of an integrated unit, please refer to the separate dryer manual for any dryer related service tasks. Receiver certification beyond the initial period is the customers responsibility.

Please refer to the Operators handbook if there are specific local service requirements relevant to the territory you are in e.g. Oil and Filter change intervals which may be different to those shown above.

Service intervals could be shorter depending on the ambient operating conditions (heat, humidity, dirt etc.), effecting Lubricants, filters, separators etc.

ESM7-ESM22 VS7-VS22 Service Schedule

			Daily ²	Weekly ²	Every 2000 hours or 12 months ¹	Every 4000 hours or 12 months ¹	Every 8000 hours or 24 months ¹	Every 12000 hours or 36 months ¹	Every 24000 hours or 72 months ¹	Every 36000 hours or 96 months ¹	Every 48000 hours or 144 months ⁵
			RUNNING HOURS OR MONTHS WHICH EVER OCCURS SOONEST								
Service A	GD Pilot Controller	Note and record sump pressure	•	•	•	•	•	•	•	•	•
	GD Pilot Controller	Note and record discharge pressure	•	•	•	•	•	•	•	•	•
	GD Pilot Controller	Note and record discharge temperature	•	•	•	•	•	•	•	•	•
	Enclosure Filters	Check condition, clean if required	•	•	•	•	•	•	•	•	•
	Scavenge oil system	Check operation	•	•	•	•	•	•	•	•	•
Service B	GD Pilot Controller	Check fault history		•	•	•	•	•	•	•	•
	GD Pilot Controller	Check for any service requirements		•	•	•	•	•	•	•	•
	Oil System	Check oil level and top up if required		•	•	•	•	•	•	•	•
	Aftercooler/Oil Cooler	Check condition, clean if required		•	•	•	•	•	•	•	•
Service C	Oil Filter	Renew oil filter element			•	•	•	•	•	•	•
	Air Filter	Renew air filter element			•	•	•	•	•	•	•
	Oil System	Renew oil (Mineral or Foodgrade)			•	•	•	•	•	•	•
	Oil System ⁵	Renew oil (Synthetic) AEON9000				•	•	•	•	•	•
	Dryer Cooling Air Inlet Filter ³	Renew cooling air inlet filter			•	•	•	•	•	•	•
	Control System	Check operation			•	•	•	•	•	•	•
	Blowdown System	Check operation			•	•	•	•	•	•	•
	Electrical Wiring	Check connections and condition			•	•	•	•	•	•	•
	GD Pilot Controller	Check connections and plugs			•	•	•	•	•	•	•
Service D	Separator Filter	Renew separator filter				•	•	•	•	•	•
	Oil Scavenge System	Clean and check operation				•	•	•	•	•	•
	Relief Valve	Functionally test				•	•	•	•	•	•
	Drive Belts ³	Check condition of belts and renew if required				•	•	•	•	•	•
Service E	Minimum Pressure Valve	Renew minimum pressure valve					•	•	•	•	•
	Intake Valve	Overhaul intake valve					•	•	•	•	•
	Emergency Stop Button	Test emergency stop button					•	•	•	•	•
	VSD Drive/Starter	Check condition of contacts and renew if required					•	•	•	•	•
Additional	Air End	Renew air end shaft seal							•	•	•
	Shaft Seal Oil Return Tube	Renew shaft seal oil return tube							•	•	•
	Oil Hoses	Check condition and renew if required						•	•	•	•
	Control Solenoids	Renew control solenoids						•	•	•	•
	Drive Belts	Renew drive belts						•	•	•	•
	Drive Motor Bearings	Renew drive motor bearings						•	•	•	•
	Drive Motor AVM's	Check drive motor Anti Vibration Mounts						•	•	•	•
	Air End Discharge Temperature Sensor	Renew temperature sensor							•	•	•
	Oil Bypass Element	Renew oil bypass element							•	•	•
	Air End AVM's	Check air end Anti Vibration Mounts									•
Air End	Renew Air End									•	
			Predictive - Highly recommended to replace at 48,000 hours								

¹ Whichever occurs soonest

² Normally undertaken by end user through visual check

³ If applicable

⁵ Synthetic oil must be analysed using the special analysis kit every 3000 hours or less. Non adherence will invalidate your extended warranties


Inspection of the pressure vessel in accordance with local guidelines

Where the compressor is part of an integrated unit, please refer to the separate dryer manual for any dryer related service tasks. Receiver certification beyond the initial period is the customers responsibility.

Please refer to the Operators handbook if there are specific local service requirements relevant to the territory you are in e.g. Oil and Filter change intervals which may be different to those shown above.

Service intervals could be shorter depending on the ambient operating conditions (heat, humidity, dirt etc.), effecting Lubricants, filters, separators etc.

ESM23-ESM29 VS23-VS29 Service Schedule



		Daily ²	Weekly ²	Every 3000 hours or 12 months ¹	Every 6000 hours or 12 months ¹	Every 9000 hours or 24 months ¹	Every 12000 hours or 36 months ¹	Every 24000 hours or 72 months ¹	Every 36000 hours or 96 months ¹	Every 48000 hours or 144 months ¹
		RUNNING HOURS OR MONTHS WHICH EVER OCCURS SOONEST								
Service A	GD Pilot Controller		•	•	•	•	•	•	•	•
	GD Pilot Controller		•	•	•	•	•	•	•	•
	GD Pilot Controller		•	•	•	•	•	•	•	•
	Enclosure Filters		•	•	•	•	•	•	•	•
	Scavenge oil system		•	•	•	•	•	•	•	•
Service B	GD Pilot Controller		•	•	•	•	•	•	•	•
	GD Pilot Controller		•	•	•	•	•	•	•	•
	Oil System		•	•	•	•	•	•	•	•
	Aftercooler/Oil Cooler		•	•	•	•	•	•	•	•
Service C	Oil Filter			•	•	•	•	•	•	•
	Air Filter			•	•	•	•	•	•	•
	Oil System			•	•	•	•	•	•	•
	Oil System ⁵			•	•	•	•	•	•	•
	Dryer Cooling Air Inlet Filter ³			•	•	•	•	•	•	•
	Control System			•	•	•	•	•	•	•
	Blowdown System			•	•	•	•	•	•	•
	Electrical Wiring			•	•	•	•	•	•	•
	GD Pilot Controller			•	•	•	•	•	•	•
	Oil Scavenge System			•	•	•	•	•	•	•
	Relief Valve			•	•	•	•	•	•	•
D	Pipe work				•		•	•	•	•
	Separator Filter				•		•	•	•	•
Service E	Oil Scavenge System						•		•	•
	Minimum Pressure Valve						•		•	•
	Intake Valve						•		•	•
	Emergency Stop Button						•		•	•
	Motor Drive Coupling Insert						•		•	•
	VSD Drive/Starter						•		•	•
Additional	Air End								•	•
	Shaft Seal Oil Return Tube								•	•
	Oil Hoses						•		•	•
	Control Solenoids						•		•	•
	Drive Motor Bearings							•		•
	Drive Motor AVM's							•		•
	Air End Discharge Temperature Sensor								•	•
	Oil Bypass Element								•	•
	Air End AVM's									•
Air End	Renew Air End									•

¹ Whichever occurs soonest

² Normally undertaken by end user through visual check

³ If applicable

⁵ Synthetic oil must be analysed using the special analysis kit every 3000 hours or less. Non adherence will invalidate your extended warranties

Inspection of the pressure vessel in accordance with local guidelines

Where the compressor is part of an integrated unit, please refer to the separate dryer manual for any dryer related service tasks. Receiver certification beyond the initial period is the customers responsibility.

Please refer to the Operators handbook if there are specific local service requirements relevant to the territory you are in e.g. Oil and Filter change intervals which may be different to those shown above.

Service intervals could be shorter depending on the ambient operating conditions (heat, humidity, dirt etc.), effecting Lubricants, filters, separators etc.

ESM/VS30(e)-45(e) (V3/4) & ESM5/VS55-80 (V3) & ESM90/VS90(e)-132(e) (V4) Service Schedule

			Daily ²	Weekly ²	Every 2000 hours or 12 months ¹	Every 4000 hours or 12 months ¹	Every 8000 hours or 24 months ¹	Every 12000 hours or 36 months ¹	Every 24000 hours or 72 months ¹	Every 36000 hours or 96 months ¹	Every 48000 hours or 144 months ¹
			RUNNING HOURS OR MONTHS WHICH EVER OCCURS SOONEST								
Service A	GD Pilot Controller	Note and record sump pressure	•	•	•	•	•	•	•	•	•
	GD Pilot Controller	Note and record discharge pressure	•	•	•	•	•	•	•	•	•
	GD Pilot Controller	Note and record discharge temperature	•	•	•	•	•	•	•	•	•
	Enclosure Filters	Check condition, clean if required	•	•	•	•	•	•	•	•	•
	Scavenge oil system	Check operation	•	•	•	•	•	•	•	•	•
Service B	GD Pilot Controller	Check fault history		•	•	•	•	•	•	•	•
	GD Pilot Controller	Check for any service requirements		•	•	•	•	•	•	•	•
	Oil System	Check oil level and top up if required		•	•	•	•	•	•	•	•
	Aftercooler/Oil Cooler	Check condition, clean if required		•	•	•	•	•	•	•	•
Service C ⁶	Oil Filter	Renew oil filter element			•	•	•	•	•	•	•
	Air Filter	Renew air filter element			•	•	•	•	•	•	•
	Dryer Cooling Air Inlet Filter ³	Renew cooling air inlet filter			•	•	•	•	•	•	•
	Control System	Check operation			•	•	•	•	•	•	•
	Blowdown System	Check operation			•	•	•	•	•	•	•
	Electrical Wiring	Check connections and condition			•	•	•	•	•	•	•
	GD Pilot Controller	Check connections and plugs			•	•	•	•	•	•	•
	Inlet Water Strainer ⁴	Check condition, clean if required			•	•	•	•	•	•	•
Service D	Separator Filter	Renew separator filter				•	•	•	•	•	•
	Pipe work	Replace Victaulic Couplings				•	•	•	•	•	•
	Oil System	Renew oil (Mineral or Foodgrade)				•	•	•	•	•	•
	Oil System ⁵	Renew oil (Synthetic) AEON9000				•	•	•	•	•	•
	Oil Scavenge System	Clean and check operation				•	•	•	•	•	•
	Relief Valve	Functionally test				•	•	•	•	•	•
	Motor Lubrication	Renew motor lubrication cartridges				•	•	•	•	•	•
	Oil regulation ⁶	Replace Humidity Sensor Cap (90-132 Kw VS (V4))				•	•	•	•	•	•
Service E	Oil Scavenge System	Renew oil scavenge tubing					•			•	
	Minimum Pressure Valve	Renew minimum pressure valve					•			•	
	Intake Valve	Overhaul intake valve					•			•	
	Emergency Stop Button	Test emergency stop button					•			•	
	Motor Drive Coupling Insert	Check condition and renew if required					•			•	
	VSD Drive/Starter	Check condition of contacts and renew if required					•			•	
Additional	Air End	Renew air end shaft seal							•		•
	Shaft Seal Oil Return Tube	Renew shaft seal oil return tube							•		•
	Oil Hoses	Check condition and renew if required						•	•	•	•
	Control Solenoids	Renew control solenoids						•	•	•	•
	Drive Belts ³	Renew drive belts						•	•	•	•
	Drive Motor Bearings	Renew drive motor bearings						•	•	•	•
	Drive Motor AVM's	Check drive motor Anti Vibration Mounts						•	•	•	•
	Air End Discharge Temperature Sensor	Renew temperature sensor							•		•
	Oil Bypass Element	Renew oil bypass element							•		•
	Air End AVM's	Check air end Anti Vibration Mounts									•
	Air End	Renew Air End									

¹ Whichever occurs soonest

² Normally undertaken by end user through visual check

³ If applicable

⁴ Water cooled units only

⁵ Synthetic oil must be analysed using the special analysis kit every 2000 hours or less. Non adherence will invalidate your extended warranties

⁶ New 90-132 Kw Variable Speed range only - (L90RS, L110RS, L132RS V4) from May 2019

If you use the 4000 Hour Extended Service kits (instead of the standard 2000 and 4000 hour kits), the C service is only required at 4000 hours or 12 months together with the D Service

Inspection of the pressure vessel in accordance with local guidelines

Where the compressor is part of an integrated unit, please refer to the separate dryer manual for any dryer related service tasks. Receiver certification beyond the initial period is the customers responsibility.

Please refer to the Operators handbook if there are specific local service requirements relevant to the territory you are in e.g. Oil and Filter change intervals which may be different to those shown above.

Service intervals could be shorter depending on the ambient operating conditions (heat, humidity, dirt etc.), effecting Lubricants, filters, separators etc. Service intervals could be shorter depending on the ambient operating conditions (heat, humidity, dirt etc.), effecting Lubricants, filters, separators etc.

ESM/VS 30-50 (V2) & ESM/VS 55-80 (V2) & ESM/VS90-140 (V3) Service Schedule

		Daily ²	Weekly ²	Every 3000 hours or 12 months ¹	Every 6000 hours or 12 months ¹	Every 9000 hours or 24 months ¹	Every 12000 hours or 36 months ¹	Every 24000 hours or 72 months ¹	Every 36000 hours or 96 months ¹	Every 48000 hours or 144 months ¹
Service A	GD Pilot Controller	•	•	•	•	•	•	•	•	•
	GD Pilot Controller	•	•	•	•	•	•	•	•	•
	GD Pilot Controller	•	•	•	•	•	•	•	•	•
	Enclosure Filters	•	•	•	•	•	•	•	•	•
	Scavenge oil system	•	•	•	•	•	•	•	•	•
Service B	GD Pilot Controller		•	•	•	•	•	•	•	•
	GD Pilot Controller		•	•	•	•	•	•	•	•
	Oil System		•	•	•	•	•	•	•	•
	Aftercooler/Oil Cooler		•	•	•	•	•	•	•	•
Service C	Oil Filter			•	•	•	•	•	•	•
	Air Filter			•	•	•	•	•	•	•
	Oil System			•	•	•	•	•	•	•
	Oil System ⁵			•	•	•	•	•	•	•
	Dryer Cooling Air Inlet Filter ³			•	•	•	•	•	•	•
	Control System			•	•	•	•	•	•	•
	Blowdown System			•	•	•	•	•	•	•
	Electrical Wiring			•	•	•	•	•	•	•
	GD Pilot Controller			•	•	•	•	•	•	•
	Inlet Water Strainer ⁴			•	•	•	•	•	•	•
Service D	Separator Filter				•		•	•	•	•
	Pipe work				•		•	•	•	•
	Oil Scavenge System				•		•	•	•	•
	Relief Valve				•		•	•	•	•
	Motor Lubrication				•		•	•	•	•
Service E	Oil Scavenge System					•		•		•
	Minimum Pressure Valve					•		•		•
	Intake Valve					•		•		•
	Emergency Stop Button					•		•		•
	Motor Drive Coupling Insert					•		•		•
	VSD Drive/Starter					•		•		•
Additional	Air End							•		•
	Shaft Seal Oil Return Tube							•		•
	Oil Hoses						•	•	•	•
	Control Solenoids						•	•	•	•
	Drive Belts ³					•	•	•	•	•
	Drive Motor Bearings							•		•
	Drive Motor AVM's							•		•
	Air End Discharge Temperature Sensor								•	
	Oil Bypass Element								•	
	Air End AVM's									•
Air End									Predictive - Highly recommended to replace at 48,000 hours	

¹ Whichever occurs soonest

² Normally undertaken by end user through visual check

³ If applicable

⁴ Water cooled units only

⁵ Synthetic oil must be analysed using the special analysis kit every 3000 hours or less. Non adherence will invalidate your extended warranties

Inspection of the pressure vessel in accordance with local guidelines

Where the compressor is part of an integrated unit, please refer to the separate dryer manual for any dryer related service tasks. Receiver certification beyond the initial period is the customers responsibility.

Please refer to the Operators handbook if there are specific local service requirements relevant to the territory you are in e.g. Oil and Filter change intervals which may be different to those shown above.

Service intervals could be shorter depending on the ambient operating conditions (heat, humidity, dirt etc.), effecting Lubricants, filters, separators etc. Service intervals could be shorter depending on the ambient operating conditions (heat, humidity, dirt etc.), effecting Lubricants, filters, separators etc.

ESM160-ESM290 VS160-VS290 Service Schedule

			Daily ²	Weekly ²	Every 3000 hours or 12 months ¹	Every 6000 hours or 12 months ¹	Every 9000 hours or 24 months ¹	Every 12000 hours or 36 months ¹	Every 24000 hours or 72 months ¹	Every 36000 hours or 96 months ¹	Every 48000 hours or 144 months ¹
			RUNNING HOURS OR MONTHS WHICH EVER OCCURS SOONEST								
Service A	GD Pilot Controller	Note and record sump pressure	•	•	•	•	•	•	•	•	•
	GD Pilot Controller	Note and record discharge pressure	•	•	•	•	•	•	•	•	•
	GD Pilot Controller	Note and record discharge temperature	•	•	•	•	•	•	•	•	•
	Enclosure Filters	Check condition, clean if required	•	•	•	•	•	•	•	•	•
	Scavenge oil system	Check operation	•	•	•	•	•	•	•	•	•
	Water cooling system ⁴	Check water flow	•	•	•	•	•	•	•	•	•
Service B	GD Pilot Controller	Check fault history		•	•	•	•	•	•	•	•
	GD Pilot Controller	Check for any service requirements		•	•	•	•	•	•	•	•
	Oil System	Check oil level and top up if required		•	•	•	•	•	•	•	•
	Reclaimer Vessel	Drain Condensate		•	•	•	•	•	•	•	•
	Aftercooler/Oil Cooler	Check condition, clean if required		•	•	•	•	•	•	•	•
Service C	Oil Filter	Renew oil filter element			•	•	•	•	•	•	•
	Air Filter	Renew air filter element			•	•	•	•	•	•	•
	Oil System	Renew oil (Mineral or Foodgrade)			•	•	•	•	•	•	•
	Oil System ⁵	Renew oil (Synthetic) AEON9000			•	•	•	•	•	•	•
	Dryer Cooling Air Inlet Filter ³	Renew cooling air inlet filter			•	•	•	•	•	•	•
	Electrical Cabinet	Replace filter pads			•	•	•	•	•	•	•
	Motor Lubrication	Renew motor lubrication cartridges			•	•	•	•	•	•	•
	Control System	Check operation			•	•	•	•	•	•	•
	Blowdown System	Check operation			•	•	•	•	•	•	•
	Electrical Wiring	Check connections and condition			•	•	•	•	•	•	•
	Inlet Water Strainer ⁴	Check condition, clean if required			•	•	•	•	•	•	•
Service D	GD Pilot Controller	Check connections and plugs			•	•	•	•	•	•	•
	Separator Filter	Renew separator filter				•		•	•	•	•
	Pipe work	Replace Victaulic Couplings				•		•	•	•	•
	Oil Scavenge System	Clean and check operation				•		•	•	•	•
	Relief Valve	Functionally test				•		•	•	•	•
Service E	Oil Scavenge System	Renew oil scavenge tubing					•			•	
	Minimum Pressure Valve	Renew minimum pressure valve					•			•	
	Intake Valve	Overhaul intake valve					•			•	
	Emergency Stop Button	Test emergency stop button					•			•	
	Motor Drive Coupling Insert	Check condition and renew if required					•			•	
	VSD Drive/Starter	Check condition of contacts and renew if required					•			•	
Additional	Air End	Renew air end shaft seal							•		•
	Shaft Seal Oil Return Tube	Renew shaft seal oil return tube							•		•
	Oil Hoses	Check condition and renew if required						•	•	•	•
	Control Solenoids	Renew control solenoids						•	•	•	•
	Drive Belts ³	Renew drive belts						•	•	•	•
	Drive Motor Bearings	Renew drive motor bearings							•		•
	Drive Motor AVM's	Check drive motor Anti Vibration Mounts							•		•
	Air End Discharge Temperature Sensor	Renew temperature sensor								•	
	Oil Bypass Element	Renew oil bypass element								•	
	Air End AVM's	Check air end Anti Vibration Mounts									•
Air End	Renew Air End	Predictive - Highly recommended to replace at 48,000 hours									

¹ Whichever occurs soonest

² Normally undertaken by end user through visual check

³ If applicable

⁴ Water cooled units only

⁵ Synthetic oil must be analysed using the special analysis kit every 3000 hours or less. Non adherence will invalidate your extended warranties


Inspection of the pressure vessel in accordance with local guidelines

Where the compressor is part of an integrated unit, please refer to the separate dryer manual for any dryer related service tasks. Receiver certification beyond the initial period is the customers responsibility.

Please refer to the Operators handbook if there are specific local service requirements relevant to the territory you are in e.g. Oil and Filter change intervals which may be different to those shown above.

Service intervals could be shorter depending on the ambient operating conditions (heat, humidity, dirt etc.), effecting Lubricants, filters, separators etc.

Service Kits Oil Lubricated Compressors



		Every 2000 hours or 12 months ¹	Every 3000 hours or 12 months ¹	Every 4000 hours or 12 months ¹	Every 6000 hours or 12 months ¹	Every 8000 hours or 24 months ¹	Every 9000 hours or 24 months ¹	Every 16,000 hours or 48 months ¹
ESM2-ESM5	Fixed Speed	CC1089648		CC1089649		CC1089650		
ESM6	Fixed Speed	CC1089652		CC1089653		CC1089654		
ESM7-11 (V2)	Fixed Speed	GF0711-1		GS0711-1		GM0711-1		
VS7-VS11 (V2)	Regulated Speed	GF0711-1		GS0711-1		GM0711-1		
ESM7-11 (V3)	Fixed Speed			GS-GD2-1		GM-GD2-1		GE-GD2-1
VS7-VS11 (V3)	Regulated Speed			GS-GD2-1-VS		GM-GD2-1-VS		GE-GD2-1
ESM7e-11e (V3)	Fixed Speed	GF0711-2		GS0711-2		GM0711-1		
VS7e-VS11e (V3)	Regulated Speed	GF0711-2		GS0711-2		GM0711-1		
ESM15-22 (V2)	Fixed Speed	GF1522-1		GS1522-1		GM1522-1		
VS15-VS22 (V2)	Regulated Speed	GF1522-1		GS1522-1-VS		GM1522-1		
ESM23-ESM29 (V1)	Fixed Speed		GF2329-1		GS2329-1		GM2329-1	
VS23-VS29 (V1)	Regulated Speed		GF2329-1-VS		GS2329-1-VS		GM2329-1	
ESM30-45 (E) (V3)	Fixed Speed (standard kit) <i>(extended Service Kit)</i>	GF3045-1 x		GS3045-1 GS3045-2		GM3050-1 GM3050-1		
VS30-VS45 (E) (V3)	Regulated Speed (standard kit) <i>(extended Service Kit)</i>	GF3045-1 x		GS3045-1-VS GS3045-2-VS		GM3050-1 GM3050-1		
ESM30-45 (E) (V4)	Fixed Speed (standard kit) <i>(extended Service Kit)</i>	GF3045-2 x		GS3045-3 GS3045-2-EK		GM3050-1 GM3050-1		
VS30-VS45 (E) (V4)	Regulated Speed (standard kit) <i>(extended Service Kit)</i>	GF3045-2 x		GS3045-3-VS GS3045-2-VS-EK		GM3050-1 GM3050-1		
ESM55-ESM80 (V2)	Fixed Speed		GF5580-1		GS5580-1		GM5580-1	
VS55-VS75 (V2)	Regulated Speed		GF5580-1-VS		GS5580-1-VS		GM5580-1	
ESM55-80 (V3)	Fixed Speed (standard kit) <i>(extended Service Kit)</i>	GF3045-2 x	GF5580-2	GS5580-2 GS5580-2-EK		GM5580-1 GM5580-1		
VS55-VS75 (V3)	Regulated Speed (standard kit) <i>(extended Service Kit)</i>	GF3045-2 x	GF5580-2	GS5580-2-VS GS5580-2-VS-EK		GM5580-1 GM5580-1		
ESM90-ESM132 (V3)	Fixed Speed		GF90132-1		GS90132-1		GM90132-2	
VS90-VS132 (V3)	Regulated Speed		GF90132-1-VS		GS90132-1-VS		GM90132-2	
ESM140 (V3)	Fixed Speed		GF140-1		GS140-1		GM140-1	
ESM90-132 (V4)	Fixed Speed (standard kit) <i>(extended Service Kit)</i>	GF90132-3 x		GS90132-3 GS90132-1-EK		GM90132-3 GM90132-3		
ESM90E-132E (V4)	Fixed Speed (standard kit) <i>(extended Service Kit)</i>	GF90132-3 x		GS90132E-3 GS90132E-2-EK		GM90132-3 GM90132-3		
VS90-VS132 (V4)	Regulated Speed (standard kit) <i>(extended Service Kit)</i>	GF90132-3 x		GS90132-3-VS GS90132-1-VS-EK		GM90132-3 GM90132-3		
ESM160-ESM290 (V2)	ESM Air Cooled		GF160290-1		GS160290-2		GM160290-1	
VS160-VS290 (V2)	ESM Water Cooled / VS Air Cooled		GF160290-1		GS160290-3-VS		GM160290-1	
	VS Water Cooled		GF160290-1		GS160290-4-VS		GM160290-1	

Only the following lubricants are allowed to be used to comply with GD Protect 10:

- Mineral lubricant AEON3000SP
- Synthetic Lubricant AEON9000SP
- Food Grade Lubricant AEON6000

¹ Maintenance time intervals are based on operating hours or calendar date, whichever occurs first.

Kit contents and the number of kits per 4000/6000 and 8000/9000 varies:

- 2-22Kw For a 8000 hour kit you need 2 kits, the GS + GM kits
- 30-45 & 55-80 & 90-132Kw for a 4000 hour service you need 2 kits, both the GF and GS kits. For 8000 hour service you need 3 kits, GF+GS+GM kits)
- 55-80 & 90-140 & 160-290Kw for a 6000 hour kit you need 1 kit (GS only). For the 9000 Hour Kit you need 2 kits (GS +GM)

Service kits are for the current builds for 2019 only. For older models please consult Reptsnet.

Gardner Denver will not accept any responsibility for changes made to service kit numbers, prior to updating this document.

For belts, hoses, shaft seal kits and all other repair spare parts please consult the relevant parts lists

GDD4S-GDD100S Refrigeration Dryer Service Schedule

		Daily ²	Weekly	Every 4 months	Every 12 months
Controller	Check POWER ON indicator is lit.	•			
Controller	Check control panel indicators	•			
Condensate drain	Check condensate drain.		•	•	•
Fins	Clean condenser fins.			•	•
Electrical	Check electrical absorption.			•	•
Refrigerant	Check refrigerant leaks				•
Drain	Depressurise the dryer. Complete drain maintenance.				•
Filtration	Depressurise the dryer. Replace pre- and post-filter elements.				•

GDD120HS-GDD1800HS Refrigeration Dryer Service Schedule

		Daily ²	Weekly	Every 4 months	Every 12 months	Every 36 months
Controller	Check POWER ON indicator is lit.	•				
Controller	Check control panel indicators	•	•			
Condensate drain	Check condensate drain.		•			
Fins	Clean condenser fins.			•	•	•
Heater	Verify that the crankcase heater is correctly positioned			•	•	•
Electrical	Check electrical absorption.			•	•	•
Refrigerant	Check refrigerant leaks				•	•
Drain	Depressurise the dryer. Complete drain maintenance.				•	•
Filtration	Depressurise the dryer. Replace pre- and post-filter elements.				•	•
Sensors	Check Temperature sensors, Replace if necessary				•	•
Maintenance Kit air cooled	Dryer maintenance kit (AC part# 100012721)					•
Maintenance Kit water cooled	Dryer maintenance kit (WC part# 100012722)					•

Adsorption Air Dryers GDX1L - GDX7L Service Schedule

			Daily ²	Every 2000 hours or 3 months ¹	Every 4000 hours or 6 months ¹	Every 8000 hours or 12 months ¹	Every 16000 hours or 24 months ¹
	Dryer	Check POWER ON indicator is illuminated	•				
	Dryer	Check STATUS / FAULT indicators located on the controller.	•				
	Dryer	Check for air leaks	•				
	Dryer	Check the condition of electrical supply cables and conduits.		•	•	•	•
	Dryer	Check for cyclic operation.			•	•	•
	Filtration	Check Drain operation		•	•	•	•
A	Dryer	Replace active exhaust silencers Recommended Service A				†	†
B	Filtration	Replace the inlet and outlet air filters and service drains. Recommended Service B				†	†
D	Dryer	Service valves Recommended Service D					†
E	Dryer	Replace the Desiccant. Recommended Service E					†

¹ Maintenance time intervals are based on operating hours or calendar date, whichever occurs first. • Performed by the operator † Essential maintenance - Service personnel only

Kits for GDX1L - GDX7L		
	Kit Part Number	
A	DK1000-1	12 Month Silencer element Service Kit
B	171960002	12 Month Filter Service Kit (Refer to Filter user guide)
D	DK3016-1	24 Month Exhaust Valve 50Hz
E	DK9005	24 Month GDX1L Service kit
	DK9006	24 Month GDX12L Service kit
	DK9007	24 Month GDX3L Service kit
	DK9008	24 Month GDX4L Service kit
	DK9009	24 Month GDX5L Service kit
	DK9010	24 Month GDX6L Service kit
	DK9011	24 Month GDX7L Service kit

¹ Maintenance time intervals are based on operating hours or calendar date, whichever occurs first. • Performed by the operator
† Essential maintenance - Service personnel only

Adsorption Air Dryers GDX7 - GDX50 Service Schedule

		Daily*	Every 3 months	Every 6 months	Every 12 months	Every 24 months	Every 30 months
Dryer	Check POWER ON indicator is illuminated	•					
Dryer	Check STATUS / FAULT indicators located on the controller	•					
Dryer	Check for air leaks	•					
Dryer	Check the pressure gauges during purging for excessive back pressure		•				
Dryer	Check the condition of electrical supply cables and conduits		•				
Dryer	Check for cyclic operation			•			
Filtration	Check Drain operation		•				
A	Dryer				†	†	
B	Filtration				†	†	
C	Dryer				†	†	
D	Dryer					†	
E	Dryer						†

• Checks Performed by the operator/service personnel

† Replace Essential maintenance - Service personnel only

Service Kit	Description	Part No	Quantity
A - Silencer Service	Kit: Silencer Element GDX7-GDX25	DK1003-1	1
B - Filter Services	Refer to filter user guide	171960002	
C - Hygrometer Service	KIT: Hygrometer element & block (DK2000-1)	DK2000-1	1
	KIT: Hygrometer element & block (DK2000-1)	DK2001-1	
D - Valve Service	Kit: Valve overhaul GDX7-GDX25	DK3008-1	1
	Kit: Valve overhaul GDX30-GDX50	DK3009-1	1
E - Desiccant Service	AA 11.2 litre bag	DK9004	See table below
	MS 13X 11.2 litre bag	DK9002	See table below
	Kit: Column Seals GDX7-GDX25	DK4002-1	1
	Kit: Column Seals GDX30-GDX50	DK4003-1	1

Table Quantities

	GDX7		GDX9		GDX12		GDX15		GDX18		GDX25		GDX30		GDX37		GDX50	
	-40	-70	-40	-70	-40	-70	-40	-70	-40	-70	-40	-70	-40	-70	-40	-70	-40	-70
Dryfill AA	1		1		2		2		2		3		3		4		5	
Dryfill MS 13x		1		1		2		2		2		3		3		4		4
Seals	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Adsorption Air Dryers GDX068-GDX340 Service Schedule

		Daily ²	Weekly	Every 3 months	Every 6 months	Every 12 months	Every 24 months	Every 30 months
Dryer	Check POWER ON indicator is illuminated	•						
Dryer	Check STATUS / FAULT indicators located on the controller	•						
Dryer	Check for air leaks	•						
Dryer	Check the pressure gauges during purging for excessive back pressure		•					
Dryer	Check the condition of electrical supply cables and conduits			•				
Dryer	Check for cyclic operation				•			
A	Dryer				†	†	†	†
B	Filtration					†	†	
C	Dryer					†	†	
D	Dryer						†	
E	Desiccant							†

• Checks Performed by the operator/service personnel

† Replace Essential maintenance - Service personnel only

Service Kit	Description	Part No	Quantity
A - Silencer Service	Kit: Silencer Element GDx	DK1001-1	See table below
B - Filter Services	Refer to filter user guide	171960002 / 3	
C - Hygrometer Service	Replacement dewpoint transmitter (DDS units only)	DK2000-1	1
D - Valve Service	Kit: Valve overhaul <9 Barg	DK3001-1	1
	Kit: Valve overhaul >9 Barg	DK3002-1	1
E - Desiccant Service	AA 11.2 litre bag	DK9004	See table below
	MS 11.2 litre bag	DK9002	See table below
	WS 11.2 litre bag	DK9000	See table below
	Kit: Column Seals GDx	DK4001-1	1
	Snow storm filler	A51138374	1

Table Quantities

	GDX068			GDX102			GDX127			GDX170			GDX212			GDX255			GDX297			GDX340		
	-20	-40	-70	-20	-40	-70	-20	-40	-70	-20	-40	-70	-20	-40	-70	-20	-40	-70	-20	-40	-70	-20	-40	-70
Dryfill AA	9	8		13	12		16	14		21	19		26	24		31	28		36	33		41	37	
Dryfill MS		1	7		2	11		2	13		3	17		3	21		4	25		4	29		6	30
Dryfill WS			2			3			4			5			6			7			8			9
Seals	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Silencer	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3

Adsorption Air Dryers GDX068LE-GDX340LE Service Schedule

		Daily?	Weekly	Every 3 months	Every 6 months	Every 12 months	Every 24 months	Every 30 months
Dryer	Check POWER ON indicator is illuminated	•						
Dryer	Check STATUS / FAULT indicators located on the controller	•						
Dryer	Check for air leaks x 1 -> A255XLE - A340XLE (x2)	•						
Dryer	Check the pressure gauges during purging for excessive back pressure		•					
Dryer	Check the condition of electrical supply cables and conduits			•				
Dryer	Check for cyclic operation				•			
Vacuum pump	Check oil level		•					
Vacuum pump	Clean the coarse separator							†
Vacuum pump	Renew oil			†	†	†	†	†
A	Dryer				†	†	†	†
B	Filtration					†	†	
C	Dryer					†	†	
	Vacuum pump					†	†	
D	Dryer						†	
E	Desiccant							†

• Checks Performed by the operator/service personnel

† Replace Essential maintenance - Service personnel only

Service Kit	Description	Part No	Quantity
A - Silencer Service	Kit: Silencer Element GDX	DK1001-1	See table below
B - Filter Services	Refer to filter user guide	171960002 / 3	
C - Hygrometer Service	Replacement dewpoint transmitter (DDS units only)	DK2000-1	1
D - Valve Service	Kit: Valve overhaul <9 Barg	DK3001-1	1
	Kit: Valve overhaul >9 Barg	DK3002-1	1
E - Desiccant Service	AA 11.2 litre bag	DK9004	See table below
	MS 11.2 litre bag	DK9002	See table below
	WS 11.2 litre bag	DK9000	See table below
	Kit: Column Seals GDX	DK4001-1	1
	Snow storm filler	A51138374	1
Vacuum pump oil change	Oil (1 Liter)	7502126000	See table below
	Oil (5 Liter)	7502096000	See table below
Vacuum pump (12 months)	Separator filters	7314686000 (VC150) 7316306000	068-102 x 4 127-212 x 5 255-340 x 10
	air filter	7305036000 (vc202/303)	1 (A255-340 = 2)

Table Quantities

	GDX068LE			GDX102LE			GDX127LE			GDX170LE			GDX212LE			GDX255LE			GDX297LE			GDX340LE			
	-20	-40	-70	-20	-40	-70	-20	-40	-70	-20	-40	-70	-20	-40	-70	-20	-40	-70	-20	-40	-70	-20	-40	-70	
Dryfill AA	9	8		13	12		16	14		21	19		26	24		31	28		36	33		41	37		
Dryfill MS		1	7		2	11		2	13		3	17		3	21		4	25		4	29		6	30	
Dryfill WS			2			3				4			5			6			7			8			9
Seals	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Silencer	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3
Oil (Liters)	4	4	4	4	4	4	8	8	8	8	8	8	8	8	8	16	16	16	16	16	16	16	16	16	16

GDDT 025-360 Series Dual Technology Dryers Service Schedule

		Daily*	Weekly	Every 4 months	Every 12 months	Every 24 months	Every 48 months
Dryer	Check POWER ON indicator is illuminated	•					
Dryer	Check control panel indicators	•					
Dryer	Check the correct level of the flow meter	•					
Dryer	Check condensate drain		•				
Dryer	Clean condenser fins		•				
Dryer	Check electrical absorption			†	†	†	†
Dryer	Depressurize the unit- complete drain maintenance			†	†	†	†
Upstream and Down-stream filter	Replace pre- and post- filter elements				†	†	†
Dryer	Replace filter element, oil separator filter and dust preventer filter				†	†	†
Dryer	Replace pressure dew point sensor				†	†	†
Dryer	Replace main solenoids				†	†	†
Dryer	Check the silencer yearly and when changing the desiccant				•	•	•
Dryer	Replace non-return valve					†	†
Dryer	Replace solenoids drain					†	†
Desiccant	Change desiccant						†

• Checks Performed by the operator/service personnel

† Replace Essential maintenance - Service personnel only

Maintenance parts	GDDT025	GDDT040	GDDT060	GDDT090	CTD140	GDDT260	GDDT340	Replace
Kit component	Part no							Replace
Filter Element	ZS1167760	ZS1167764	ZS1167764	ZS1167766	ZS1167769	ZS1167772	ZS1167772	12 months
	GDE0036G/G	GDE0066G/G	CGD0096G/G	GDE0096G/G	GDE00198G/G	GDE00258G/G	GDE00258G/G	12 months
	ZS1167763	CP3040ZL	CP3040ZL	ZS1167767	ZS1167770	ZS1167773	ZS1167773	12 months
Solenoid valve	ZS1167695	ZS1167695	ZS1167695	ZS1167695	ZS1167695			12 months
Coil Solenoid valve block 4 pcs	ZS1167701	ZS1167701	ZS1167701	ZS1167701	ZS1167701			12 months
Dew point Sensor	ZS1167744	ZS1167744	ZS1167744	ZS1167744	ZS1167744	ZS1167744	ZS1167744	12 months
Angle body valve						398H378999Y030 (x2)	398H378999Y030 (x2)	24 months
O-ring set	ZS1167705	ZS1167705						24 months
Wearing part for valve block	see o-ring set	see o-ring set	ZS1167702	ZS1167702	ZS1167702 (x4)	ZS1167702 (x4)	ZS1167702 (x4)	24 months
Wearing part non return valve	ZS1167698	ZS1167698	ZS1167699	ZS1167699	ZS1167699	ZS1167699	ZS1167699	24 months
Coil for condensate drain solenoid					ZS1167692	ZS1167692	ZS1167692	48 months
Pneumatic control kit						ZS1167711	ZS1167711	48 months
Pressure Transducer			ZS1167716 (X2)	ZS1167716 (X2)	ZS1167716 (X2)	ZS1167716 (X2)	ZS1167716 (X2)	48 months
Temperature probe (0/150° C)	ZS1167687	ZS1167687	ZS1167687 (X2)	ZS1167687 (X2)	ZS1167687 (X2)	ZS1167687 (X2)	ZS1167687 (X2)	48 months
Thermal resistance	ZS1167689 (x2)	ZS1167689 (x2)	ZS1167689 (x2)	ZS1167689 (x2)	ZS1167689 (x2)	ZS1167689 (x2)	ZS1167689 (x2)	48 months
Temperature probe (-50/50° C)	ZS1132690	ZS1132690	ZS1132690	ZS1132690	ZS1132690 (X2)	ZS1132690 (X2)	ZS1132690 (X2)	48 months
Temperature probe (170° C)	ZS1167690 (x2)	ZS1167690 (x2)	ZS1167690 (x2)	ZS1167690 (x2)	ZS1167690 (x3)	ZS1167690 (x3)	ZS1167690 (x3)	48 months
Desiccant pack	ZS1167751 (x3)	ZS1167751 (x3)	ZS1167751 (x4)	ZS1167751 (x6)	ZS1167751 (x8)	ZS1167751 (x15)	ZS1167751 (x19)	48 months
Silencer	ZS1167743	ZS1167743	ZS1167743	ZS1167743	ZS1167743	ZS1167743	ZS1167743	48 months

Filter Guide

Filter Type	Filter ID No	Size	FAD	Filter element	Element No
GDF0006G1/4"G	ZS1133639	G1/4"	0.6	GDE0006G G	ZS1133750
GDF0006G1/4"H	ZS1133640	G1/4"	0.6	GDE0006G H	ZS1133754
GDF0006G1/4"V	ZS1133641	G1/4"	0.6	GDE0006G V	ZS1133755
GDF0006G3/8"G	ZS1133642	G3/8"	0.6	GDE0006G G	ZS1133750
GDF0006G3/8"H	ZS1133643	G3/8"	0.6	GDE0006G H	ZS1133754
GDF0006G3/8"V	ZS1133644	G3/8"	0.6	GDE0006G V	ZS1133755
GDF0006G1/2"G	ZS1133645	G1/2"	0.6	GDE0006G G	ZS1133750
GDF0006G1/2"H	ZS1133646	G1/2"	0.6	GDE0006G H	ZS1133754
GDF0006G1/2"V	ZS1133647	G1/2"	0.6	GDE0006G V	ZS1133755
GDF0012G3/8"G	ZS1133648	G3/8"	1.2	GDE0012G G	ZS1133757
GDF0012G3/8"H	ZS1133649	G3/8"	1.2	GDE0012G H	ZS1133758
GDF0012G3/8"V	ZS1133650	G3/8"	1.2	GDE0012G V	ZS1133759
GDF0012G1/2"G	ZS1133651	G1/2"	1.2	GDE0012G G	ZS1133757
GDF0012G1/2"H	ZS1133652	G1/2"	1.2	GDE0012G H	ZS1133758
GDF0012G1/2"V	ZS1133654	G1/2"	1.2	GDE0012G V	ZS1133759
GDF0018G1/2"G	ZS1133655	G1/2"	1.8	GDE0018G G	ZS1133760
GDF0018G1/2"H	ZS1133656	G1/2"	1.8	GDE0018G H	ZS1133761
GDF0018G1/2"V	ZS1133657	G1/2"	1.8	GDE0018G V	ZS1133763
GDF0018G3/4"G	ZS1133658	G3/4"	1.8	GDE0018G G	ZS1133760
GDF0018G3/4"H	ZS1133659	G3/4"	1.8	GDE0018G H	ZS1133761
GDF0018G3/4"V	ZS1133661	G3/4"	1.8	GDE0018G V	ZS1133763
GDF0018G1"G	ZS1133662	G1"	1.8	GDE0018G G	ZS1133760
GDF0018G1"H	ZS1133663	G1"	1.8	GDE0018G H	ZS1133761
GDF0018G1"V	ZS1133664	G1"	1.8	GDE0018G V	ZS1133763
GDF0036G3/4"G	ZS1133665	G3/4"	3.6	GDE0036G G	ZS1133764
GDF0036G3/4"H	ZS1133666	G3/4"	3.6	GDE0036G H	ZS1133765
GDF0036G3/4"V	ZS1133668	G3/4"	3.6	GDE0036G V	ZS1133766
GDF0036G1"G	ZS1133669	G1"	3.6	GDE0036G G	ZS1133764
GDF0036G1"H	ZS1133670	G1"	3.6	GDE0036G H	ZS1133765
GDF0036G1"V	ZS1133671	G1"	3.6	GDE0036G V	ZS1133766
GDF0066G1"G	ZS1133672	G1"	6.6	GDE0066G G	ZS1133767
GDF0066G1"H	ZS1133673	G1"	6.6	GDE0066G H	ZS1133768
GDF0066G1"V	ZS1133674	G1"	6.6	GDE0066G V	ZS1133769
GDF0066G11/4"G	ZS1133675	G1 1/4"	6.6	GDE0066G G	ZS1133767
GDF0066G11/4"H	ZS1133676	G1 1/4"	6.6	GDE0066G H	ZS1133768
GDF0066G11/4"V	ZS1133677	G1 1/4"	6.6	GDE0066G V	ZS1133769
GDF0066G11/2"G	ZS1133678	G1 1/2"	6.6	GDE0066G G	ZS1133767
GDF0066G11/2"H	ZS1133679	G1 1/2"	6.6	GDE0066G H	ZS1133768
GDF0066G11/2"V	ZS1133680	G1 1/2"	6.6	GDE0066G V	ZS1133769
GDF0096G11/4"G	ZS1133683	G1 1/4"	9.6	GDE0096G G	ZS1133770
GDF0096G11/4"H	ZS1133684	G1 1/4"	9.6	GDE0096G H	ZS1133771
GDF0096G11/4"V	ZS1133685	G1 1/4"	9.6	GDE0096G V	ZS1133772
GDF0096G11/2"G	ZS1133686	G1 1/2"	9.6	GDE0096G G	ZS1133770
GDF0096G11/2"H	ZS1133687	G1 1/2"	9.6	GDE0096G H	ZS1133771
GDF0096G11/2"V	ZS1133688	G1 1/2"	9.6	GDE0096G V	ZS1133772
GDF0132G11/2"G	ZS1133689	G1 1/2"	13.2	GDE0132G G	ZS1133773
GDF0132G11/2"H	ZS1133690	G1 1/2"	13.2	GDE0132G H	ZS1133774
GDF0132G11/2"V	ZS1133691	G1 1/2"	13.2	GDE0132G V	ZS1133775
GDF0132G2"G	ZS1133692	G2"	13.2	GDE0132G G	ZS1133773
GDF0132G2"H	ZS1133693	G2"	13.2	GDE0132G H	ZS1133774
GDF0132G2"V	ZS1133694	G2"	13.2	GDE0132G V	ZS1133775
GDF0198G2"G	ZS1133695	G2"	19.8	GDE0198G G	ZS1133776
GDF0198G2"H	ZS1133696	G2"	19.8	GDE0198G H	ZS1133777
GDF0198G2"V	ZS1133697	G2"	19.8	GDE0198G V	ZS1133778
GDF0258G21/2"G	ZS1133698	G2 1/2"	25.8	GDE0258G G	ZS1133779
GDF0258G21/2"H	ZS1133699	G2 1/2"	25.8	GDE0258G H	ZS1133780
GDF0258G21/2"V	ZS1133700	G2 1/2"	25.8	GDE0258G V	ZS1133781
GDF0258G3"G	ZS1133701	G3"	25.8	GDE0258G G	ZS1133779
GDF0258G3"H	ZS1133702	G3"	25.8	GDE0258G H	ZS1133780
GDF0258G3"V	ZS1133703	G3"	25.8	GDE0258G V	ZS1133781
GDF0372G21/2"G	ZS1133705	G2 1/2"	37.2	GDE0372G G	ZS1133782
GDF0372G21/2"H	ZS1133706	G2 1/2"	37.2	GDE0372G H	ZS1133783
GDF0372G21/2"V	ZS1133707	G2 1/2"	37.2	GDE0372G V	ZS1133784
GDF0372G3"G	ZS1133709	G3"	37.2	GDE0372G G	ZS1133782
GDF0372G3"H	ZS1133710	G3"	37.2	GDE0372G H	ZS1133783
GDF0372G3"V	ZS1133711	G3"	37.2	GDE0372G V	ZS1133784

GDN2-20P - GDN2-80P Nitrogen Generators Service Schedule

			Daily ¹	Every 2000 hours or 3 months ¹	Every 4000 hours or 6 months ¹	Every 8000 hours or 12 months ¹	Every 16000 hours or 24 months ¹	Every 24000 hours or 36 months ¹	Every 40000 hours or 60 months ¹
	Generator	Check the status indicators located on the front panel.	•						
	System	Check the inlet air quality		•	•	•	•	•	•
	Generator	Check for air leaks		•	•	•	•	•	•
	Generator	Check the pressure gauges during purging for excessive back pressure		•	•	•	•	•	•
	Generator	Check the condition of the electrical supply cables and conduits		•	•	•	•	•	•
	Generator	Check oxygen sensor(s) and calibrate if necessary		Δ	Δ	Δ	Δ	Δ	Δ
	Generator	Check for cyclic operation			•	•	•	•	•
A	Filtration	Replace Exhaust silencer and filter element(s) Recommended Service A				†	†	†	†
B	Generator	Replace Oxygen sensor(s) Recommended Service B					†	†	†
C	Generator	Replace control valves Recommended Service C						†	†
D	Generator	Replace cylinder and solenoid valves Recommended Service D							†

¹ Maintenance time intervals are based on operating hours or calendar date, whichever occurs first.

• Performed by the operator

Δ Essential procedure - Service personnel only

† Essential maintenance - Service personnel only

High Purity Generators (PPM) without EST Model Nos. CN2XXPAXN		
	Kit Part Number	
A	ZS1139589	12 Month Non EST Service Kit
B	ZS1191451	24 Month PPM Service Kit
C	ZS1139595	36 Month Standard Service Kit
D	ZS1139596	60 Month Standard Service Kit

High Purity Generators (PPM) with EST Model Nos. CN2XXPAXY		
	Kit Part Number	
A	ZS1139592	12 Month EST Service Kit
B	ZS1191451 (X2)	24 Month PPM Service Kit
C	ZS1139595	36 Month Standard Service Kit
D	ZS1139596	60 Month Standard Service Kit

Low Purity Generators (%) without EST Model Nos. CN2XXPBXN		
	Kit Part Number	
A	ZS1139589	12 Month Non EST Service Kit
B	ZS1186528	24 Month Percentage Service Kit
C	ZS1139595	36 Month Standard Service Kit
D	ZS1139596	60 Month Standard Service Kit

Low Purity Generators (%) with EST Model Nos. CN2XXPBXY		
	Kit Part Number	
A	ZS1139592	12 Month EST Service Kit
B	ZS1186528 (X2)	24 Month Percentage Service Kit
C	ZS1139595	36 Month Standard Service Kit
D	ZS1139596	60 Month Standard Service Kit

GDN20033 - GDN20090 Nitrogen Generators Service Schedule

		Daily ²	Weekly ²	Every 2000 hours or 3 months ¹	Every 4000 hours or 6 months ¹	Every 8000 hours or 12 months ¹	Every 16000 hours or 24 months ¹
	Generator	•	•	•	•	•	•
	Generator		•	•	•	•	•
	Generator		•	•	•	•	•
	System		•	•	•	•	•
	O ² Cell			Δ	Δ	Δ	Δ
	System			•	•	•	•
	Generator			•	•	•	•
	Generator			•	•	•	•
	Generator			•	•	•	•
	Generator			•	•	•	•
	Generator				•	•	•
A	Generator					†	†
B	Filtration					†	†
C	Generator						†
D	Generator						†

¹ Maintenance time intervals are based on operating hours or calendar date, whichever occurs first. Performed by the operator

Δ Essential procedure - Service personnel only

• Essential maintenance - Service personnel only

Generator with analyser		
	Kit Part Number	
A	ZS1103422	12 Month MIST-X Silencer
B	ZS1087938	12 Month Filter Service Kit
C	ZS1100165	24 Month PPM Oxygen Cell Service Kit
	ZS1100164	24 Month % Oxygen Cell Service Kit
D	ZS1103424	24 Month Valve Overhaul
	ZS1103426	24 Month Air Inlet Valve Kit
	ZS1103426	24 Month Exhaust Valve Kit
	ZS1103427	24 Month Outlet Valve Kit

Generator without analyser		
	Kit Part Number	
A	ZS1103422	12 Month MIST-X Silencer
B	ZS1087938	12 Month Filter Service Kit
C	ZS1100165	24 Month PPM Oxygen Cell Service Kit
	ZS1100164	24 Month % Oxygen Cell Service Kit
D	ZS1103425	24 Month Valve Overhaul
	ZS1103426	24 Month Air Inlet Valve Kit
	ZS1103426	24 Month Exhaust Valve Kit
	ZS1103573	24 Month Outlet Valve Kit

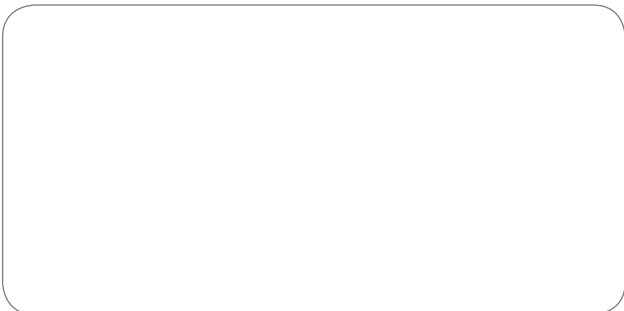


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The GD Protect 10 Service Plans are designed to give the optimum protection for your investment and uptime for your processes that require the compressed air, whichever option you prefer. The plans are flexible to suit your individual requirements.

Please call your service provider to discuss your requirements. Our Certified service providers will be able to discuss your requirements and advise you the full details regarding pricing and the terms and conditions of your chosen plan.



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Specifications subject to change without notice.