



COMBINED FILTER/REGULATOR /LUBRICATOR UNIT

70824



These instructions accompanying the product are the original instructions. This document is part of the product, keep it for the life of the product passing it on to any subsequent holder of the product. Read all these instructions before assembling, operating or maintaining this product.

This manual has been compiled by Draper Tools describing the purpose for which the product has been designed, and contains all the necessary information to ensure its correct and safe use. By following all the general safety instructions contained in this manual, it will ensure both product and operator safety, together with longer life of the product itself.

All photographs and drawings in this manual are supplied by Draper Tools to help illustrate the operation of the product.

Whilst every effort has been made to ensure the accuracy of information contained in this manual, the Draper Tools policy of continuous improvement determines the right to make modifications without prior warning.

1. TITLE PAGE

1.1 INTRODUCTION:

USER MANUAL FOR: Combined Filter/regulator/Lubricator Unit

Stock No: 70824

Part No: DFRL

1.2 REVISIONS:

Date first published July 2019.

As our user manuals are continually updated, users should make sure that they use the very latest version.

Downloads are available from: <http://drapertools.com/manuals>

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1.3 UNDERSTANDING THIS MANUALS SAFETY CONTENT:

WARNING! – Information that draws attention to the risk of injury or death.

CAUTION! – Information that draws attention to the risk of damage to the product or surroundings.

1.4 COPYRIGHT © NOTICE:

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3. WARRANTY

3.1 WARRANTY

Draper tools have been carefully tested and inspected before shipment and are guaranteed to be free from defective materials and workmanship.

Should the tool develop a fault, please return the complete tool to your nearest distributor or contact

Draper Tools Limited, Chandler's Ford, Eastleigh, Hampshire, SO53 1YF. England.

Telephone Sales Desk: (023) 8049 4333 or Product Help Line (023) 8049 4344.

A proof of purchase **must** be provided with the tool.

If upon inspection it is found that the fault occurring is due to defective materials or workmanship, repairs will be carried out free of charge. This warranty period covering parts/labour is 6 months from the date of purchase except where tools are hired out when the warranty period is 90 days from the date of purchase. This warranty does not apply to any consumable parts, any type of battery or normal wear and tear, nor does it cover any damage caused by misuse, careless or unsafe handling, alterations, accidents, or repairs attempted or made by any personnel other than the authorised Draper warranty repair agent.

Note: If the tool is found not to be within the terms of warranty, repairs and carriage charges will be quoted and made accordingly.

This warranty applies in lieu of any other warranty expressed or implied and variations of its terms are not authorised.

Your Draper warranty is not effective unless you can produce upon request a dated receipt or invoice to verify your proof of purchase within the warranty period.

Please note that this warranty is an additional benefit and does not affect your statutory rights.

Draper Tools Limited.

4. INTRODUCTION

4.1 SCOPE

Designed to clean, dry, lubricate and regulate compressed air.

Any other use than that it was intended for is considered misuse.

4.2 SPECIFICATION

Inlet/Outlet thread.....	¼" BSP
Max. inlet pressure.....	1.0MPa (145psi)
Max. temperature.....	60°C
Filtration element.....	40µm

5. HEALTH & SAFETY INFORMATION

5.1 GENERAL SAFETY INSTRUCTIONS FOR COMPRESSED AIR

Following Safety instructions should be strictly followed. Failure to do so may result in accidents, equipment malfunctioning, serious personal injury and / or loss of life.

Compressed air is a source of considerable energy. When handling products dealing with compressed air, the following precautions must be taken to prevent accidents.

1. Ensure that compressed air is not blocked or in contact with any part of your body.
2. Before connecting any pneumatic equipment to the compressed air supply, all mounted fittings, piping assemblies and electrical connections should be checked for security. **All plastic plugs in the equipment used for protection during shipping should be removed.**
3. No piping alterations, removal of fittings, repairing of equipment etc. Should be attempted with air supplies connected. Air and electrical supplies must be disconnected before beginning any adjustment, maintenance or dismantling of equipment.
4. The maximum allowable operating pressures, temperature, flows etc. must be strictly observed. Failure to do so might result in catastrophic failure of equipment, and result in serious personal injury and / or death. Refer to individual catalogues for this information, and any other operating or application limitations.

5.2 COMPRESSED AIR SAFETY FOR PNEUMATIC EQUIPMENT

WARNING:

1. Compatibility of pneumatic equipment
Ensuring the compatibility of the procured FRL equipment is the responsibility of the person who designs the Pneumatic system and/ or System specifications. This should be based on specifications or after analysis and / or tests to meet specific requirements.
2. Repair & Maintenance
Assembly, handling, or repair of pneumatic systems should be performed by only trained and experienced operators.
3. Safety First
Do not service machinery / equipment or attempt to remove any component until safety is confirmed.
 - i. Inspection and maintenance of machinery / equipment should only be performed after confirmation that both compressed air and electrical supply have been positively disconnected and all residual compressed air in the system has been completely exhausted to the atmosphere.
4. Contact the manufacturer if equipment is to be used in any of the following conditions:
 - i. Equipment is to be used in conditions beyond the given specifications, or if equipment is to be used outdoors.
 - ii. Equipment is to be used in conjunction with atomic energy, railroad, air navigation, automobiles or related vehicles, medical equipment or safety equipment.
 - iii. In applications that adversely effect humans, animals, or property requiring special safety analysis.

5.3 PRODUCT SELECTION

WARNING:

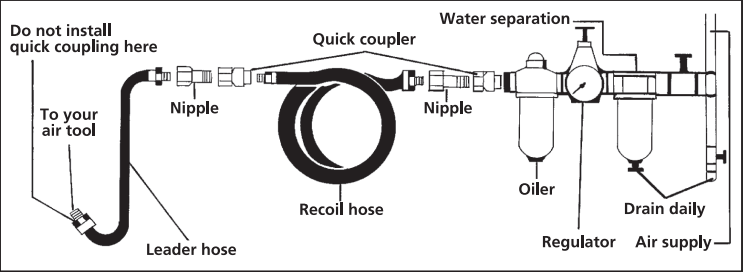
Standard Filters, Regulators, Lubricators and Filter- Regulator Combination units should be used in accordance with the specifications mentioned in the specification sheets. While installing and using this equipment, please also follow the respective specification & instruction manual available for each product.

Wherever this symbol ⚠ is shown, it indicates CAUTION! and/or WARNING!

It indicates that operator error can lead to damage and malfunctioning of the pneumatic equipment and can lead to serious personal injury or loss of life.

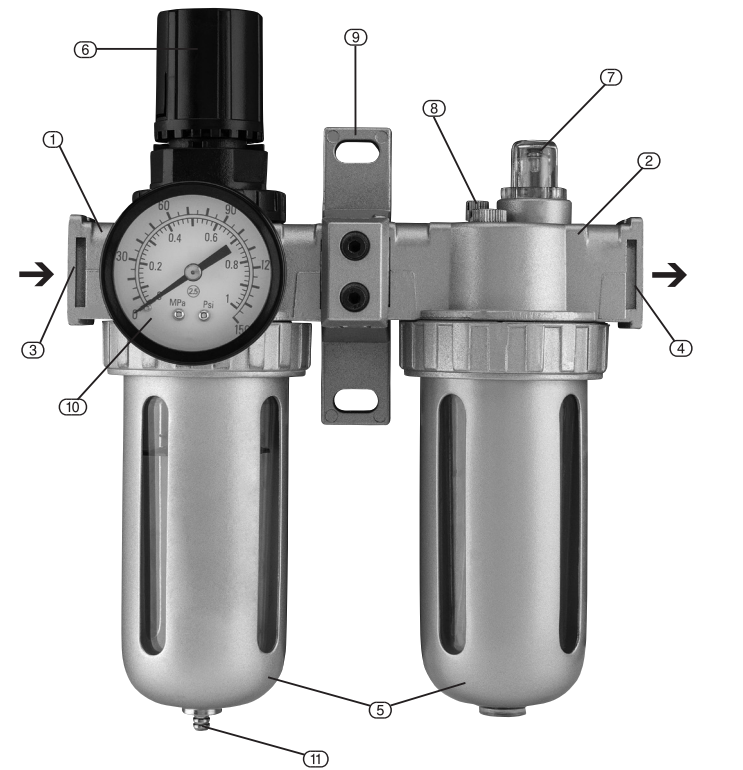
1. Air Filter and Lubricator
Standard Filters and Lubricators incorporate polycarbonate bowls and / or observation windows. Do not use filters & lubricators in an environment that will expose the above components to synthetic fluids, organic solvents, corrosive chemicals, cutting lubricants, thread sealant or similar materials. Make sure that the condensate in periodically drained when using manual drain valves on Filters.
2. Regulator
 - a. Safety devices shall be placed to prevent secondary (output) pressure from rising past the set pressure.
This will ensure that damage to the components on the secondary side will be minimized in the event of a malfunction.
 - b. In a standard regulator, when the supply pressure is removed or disconnected, either of the following may happen:
 1. The residual pressure will remain on the secondary side of the regulator.
 2. The pressure on the secondary side of the regulator will exhaust.
The designer should add components to the circuit to compensate for any of the above conditions.
 - c. Regulator operation may be affected when used in Balanced or Secondary sealed circuits. Please consult the manufacturer regarding these applications.
3. Lubricators
Ensure proper function of the Lubricator. Minimum airflow rate should be ensured for effective lubrication.

5.4 RECOMMENDED AIR SUPPLY SET UP



6. TECHNICAL DESCRIPTION

6.1 IDENTIFICATION



- ①

Filter regulator unit
- ②

Lubricator unit
- ③

Air inlet
- ④

Air outlet
- ⑤

Metal bowl cover
- ⑥

Pressure regulator adjuster
- ⑦

Oil flow indicator sight dome
- ⑧

Oil flow rate adjuster
- ⑨

Wall mounting bracket
- ⑩

Pressure gauge
- ⑪

Condensate release valve

7. SETTING THE UNIT

7.1 REGULATOR

The output pressure is controlled by ⑥ the pressure regulator adjuster.

Before pressurising the air system for the first time, pull up and rotate the knob anticlockwise to remove any loading on the regulator spring.

Pressurise the system and then rotate ⑥ the pressure regulator adjuster clockwise to set required output pressure, as shown on gauge.

When the required pressure is achieved push in ⑥ the pressure regulator adjuster to prevent inadvertent adjustment.

NOTE: For correct pressure setting always adjust up from a lower pressure. Therefore to reset from 80 to 70psi for example, reduce pressure from 80 to 60psi and then increase to 70psi.

7.2 FILTER

The bowl should be drained regularly to prevent an excessive build-up of water/oil. Push in the drain valve at the bottom of the bowl, allow to drain and then release.

7.3 LUBRICATOR

Remove the filler plug ⑫ and fill bowl up to max. level, with air tool oil. This can be done with the air line pressurised. With air flowing through the lubricator the oil delivery rate can be adjusted by screw ⑧ whilst watching the drip rate through the sight dome ⑦. The oil delivery rate will automatically increase or decrease in line with the volume of air flow.

CONTACTS

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General Enquiries: (023) 8026 6355

Service/Warranty Repair Agent:

For aftersales servicing or warranty repairs, please contact the
Draper Tools Helpline for details of an agent in your local area.

YOUR DRAPER STOCKIST

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