Instructions & Maintenance for Air Source Treatment Unit

THANK YOU FOR CHOOSING E.MC PRODUCTS, PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THESE OPERATIONAL REQUIREMENTS, WARNINGS & CAUTIONS.

1. SAFETY INSTRUCTIONS

☐ **WARNING!** *Ensure Health & Safety, local authority, and general workshop practice regulations are adhered to when using this equipment.*

☐ **WARNING!** Disconnect the equipment from the air supply before changing accessories, servicing or performing any maintenance.

✓ Keep the equipment clean and maintain it in good condition (use an authorized service agent).

✓ Replace or repair damaged parts. *Use genuine parts only. Unauthorized parts may be dangerous and will invalidate the warranty.*

☐ **WARNING!** Ensure that the correct air pressure is maintained and not exceeded.

✓ Keep air hoses away from heat, oil and sharp edges. Check hoses for wear before each use and ensure that all connections are secure.

× **DO NOT** direct air from the air hose at yourself, others or animals.

✓ Drain the compressor air tank daily. Water in the air line will damage your equipment.

✓ When work is complete ensure that the air supply is turned off.

2. INTRODUCTION & SPECIFICATIONS

Suitable for industrial workshop air supply set-ups where high volume applications are required. Regulator assemblies feature locking control knob for pre-setting air pressure and large easy-to-read pressure gauge. Filters available with manual or auto drain facility with female 1/8”BSP outlet. Lubricator includes oil/air mix control and sight glass. Filter and lubricator are fitted with metal bowl cages for protection.

Model	
Guaranteed pressure resistance (Bar)	15
Max working pressure(Bar)	10
Working temperature（^{0}C）	5-60
Filter precision	25μm(5μm is optional)
Recommended oil	Turbine NO.1 Oil ISOVG32
Bowl material	Polycarbonate
Bowl guard	1000 series none, others Available
Pressure adjusting range(Bar)	0.5-8.5
Valve type	With overflow

3. CONTENT & INSTALLATION

3.1. Confirm that all items are present and undamaged.

E(I)C4010-04 - Combined filter, regulator with gauge, lubricator and mounting bracket.

E(I)W4000-04- Combined filter, regulator with gauge and mounting bracket.

E(I)F4000-04 - Filter.

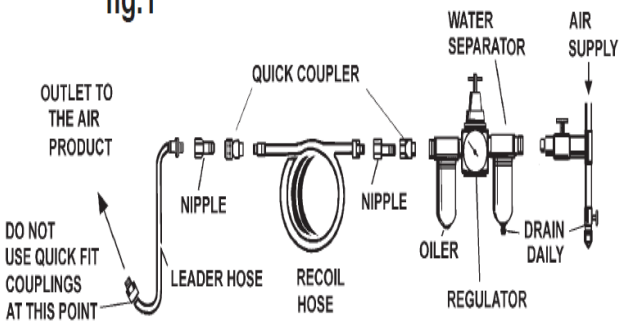
E(I)L4000-04- Lubricator.

E(I)R4000-04- Regulator with gauge and mounting bracket.

E(I)F4000-04D - Filter with Auto Drain,

E(I)W4000-04D - Combined filter with auto drain, regulator with gauge and mounting bracket.

fig.1



3.2. Fig.1 shows a typical air line installation. The filter is located upstream of the regulator - unless combined, as in EC4010-04 and EW4000-04- and the lubricator downstream.

3.2.1. Filter/regulator - Install using the mounting bracket provided. Before connecting system piping ensures that gauge is visible, unused gauge port is sealed with plug provided and that flow direction arrow matches system air flow.

3.2.2. Filter and Lubricator - Install into air piping or connect directly to bracket mounted regulator using fittings provided. Always check that flow arrows are correct and that filter is upstream, and lubricator downstream, of regulator.

Note: To ensure air-tight joints, use PTFE tape.

4. OPERATION

4.1. **Regulator** - The output pressure is controlled by the knob. Before pressurizing the air system for the first time, pull out and rotate the knob anticlockwise to remove any loading on the regulator spring. Pressurize the system and then rotate knob clockwise to set required output pressure, as shown on gauge. When the required pressure is achieved push in knob to prevent inadvertent adjustment.
Note: For correct pressure setting always adjust up from a lower pressure. Therefore to reset from 90 to 70psi for example, reduce pressure from 90 to 60psi and then increase to 70psi.

4.2. **Filter** - The bowl should be drained regularly to prevent an excessive build-up of water/oil. Pull down the drain valve at the bottom of the bowl, allow to drain and then release. Drain valve has female 1/8" BSP outlet. (EW4000-04D and EF4000-04D have Auto drain feature. When pressure in bowl drops, float valve opens and drains condensation. Drain valve has male 1/8" BSP outlet).

4.3. **Lubricator** - Remove the filler plug 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 whilst watching the drip rate through the sight dome. The oil rate will automatically increase or decrease in line with the air flow.

fig.2

4.4. Both the filter and the lubricator are supplied with a metal bowl guard. To remove the guard, pull down the latch and rotate the guard until either of the two pairs of lines on the guard align with the similar marks on the head. The guard can now be removed.
To refit, slide the top of the guard into the head with the guard and head markings aligned, and then rotate the guard so that the latch aligns with the marks on the head. The latch will lock into place.