Installation and Maintenance Instructions

Fluid: Compressed air
Air quality: Within ISO 8573-1
Manual drain connection: 1/8”
Automatic drain connection: 

Service kits: See illustrations below

Ex h IIC T6 Gb

Water vapour will pass through these units and could condense into a liquid form downstream as air flows through these units and could condense into a liquid form downstream. Do not use these products where pressures and temperatures can exceed those listed under Technical Data.

1. These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under Technical Data.

Fluid: Compressed air
Maximum pressure: 20 bar (290 psig)
Operating temperature*: 
- 10 °C to +60 °C (+14 °F to +140 °F)

Particulate removal: 5 μm & 40 μm filter elements
Oil removal: Coalescing and vapour cartridge elements
Air quality: Within ISO 8573-1, Class 6 (5 μm & 40 μm)
Automatic drain connection: 1/4” & 6 mm PIF options
Port threads: 3/8”, 1/2” and 3/4” PTF and ISO O
Typical flow: 100 l/min - with female thread

Materials: 
Body - Aluminium
Covers - ABS
Bowl - Aluminium or Polycarbonate/PP
Valve - PP/Geolast®
Elements - Sintered PP
Elastomers - Nitrile

Service kits:
Part No. | Description
--- | ---
840003-50KIT | Guarded bowl with manual drain
840025-60KIT | Guarded bowl with auto drain 6 mm PIF
840003-60KIT | Metal bowl and sight glass with auto drain 6 mm PIF
840025-50KIT | Guarded bowl with auto drain 5 mm PIF
840025-50KIT | Metal bowl and sight glass with manual drain
840025-60KIT | Guarded bowl with auto drain 6 mm PIF
840025-60KIT | Metal bowl and sight glass with auto drain 6 mm PIF
840025-60KIT | Guarded bowl with auto drain 6 mm PIF
840044-50KIT | Coalescing cartridge element (F54C)
840041-50KIT | Vapour removal element (F5W)
840038-50KIT | 5 μm cartridge element (F54G)
840038-50KIT | 5 μm cartridge element (F54G)
840025-50KIT | Coalescing cartridge element (F54C)
840025-50KIT | Coalescing cartridge element (F54C)

Installation

1. Turn off air pressure prior to installing units into the air-line. Units should be installed:
   - with air flow in the direction of the arrow on the body
   - with lubricators and cycling valves downstream of regulators and filter-regulators
   - as close as possible to the device being serviced.
   - Connect piping to ports using pipe thread sealant on male threads only. Do not allow sealant to enter the interior of the unit.
   - Push the bowl, or bowl with guard, into the body and turn fully clockwise. Ensure the clip and cover arrow are aligned before pressing it down.
   - Automatic drain flexible tube requires a minimum internal diameter of 5 mm (3/16”). Drain may fail to operate if the tube ID is less than 5 mm. Avoid restrictions in the tube.

2. Apply inlet pressure, then turn the adjusting knob clockwise to increase and counter-clockwise to decrease the pressure setting.

3. Always approach the desired pressure from a lower pressure. When reducing from a higher to a lower setting, first reduce to some pressure less than that desired, then bring up to the desired pressure.

4. Once the required pressure is achieved, push the knob down (red indicator ring covered) to lock the pressure setting.

Adjustment (Regulator and filter-regulator)

5. Install a pressure gauge or plug the gauge port if no gauge is present. Gauge ports can also be used as additional outlets for regulated air.

Adjustment (Regulator and filter-regulator)

6. The accuracy of the indication of pressure gauges can change both during shipment (despite care in packaging), and during the service life. Ensure the gauge readings are accurate if a pressure gauge is to be used with these products and if inaccurate indications may be hazardous to personnel or property.

Installation

7. Before using these products with fluids other than air, non-industrial applications or for life-support systems, consult IMI Precision Engineering.
### Mounting bracket options

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>840024-50KIT</td>
<td>Mounting bracket</td>
</tr>
<tr>
<td>840048-89KIT</td>
<td>Panel nut</td>
</tr>
<tr>
<td>840068-51KIT</td>
<td>Neck mount bracket and panel nut</td>
</tr>
</tbody>
</table>

### Bracket configuration

**ATEX Declaration of conformity**

**EU Declaration of conformity (DoC) 2014/34/EU**

**Product:** Excelon® Plus T84, F84, R84 & B84  
**Manufacturer:** Norgren Ltd, Blenheim Way, Fradley Park, Lichfield, Staffordshire, WS13 8SY

We declare that this declaration of conformity is issued under the sole responsibility of the above manufacturer.

2014/34/EU: Equipment and protective systems intended for use in potentially explosive atmospheres.

The following harmonised standards and technical specifications have been applied:

- ISO 4414:2010 – Pneumatic fluid power – General rules and safety requirements for systems and their components;
- ISO 80079-36:2016 – Explosive atmospheres – Part 36: Non-electrical equipment for explosive atmospheres – Basic method and requirements;

Ex II 2 GD  
Ex h IIC T6 Gb  
Ex h IIC T85°C Db

**ATEX Certification No.: NORGREN 18.0001X**

Under certain extreme circumstances, the non-metallic cover may generate an ignition-capable level of electrostatic charge. The equipment shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on such surfaces. Additionally, the equipment shall only be cleaned with a damp cloth.

**Attestation of Conformity for components in accordance with Directive 2014/34/EU**

We confirm the following equipment: All lubricators (Oil-fog and Micro-fog), gauges, connections kits, filter elements, brackets, and porting blocks conform to essential Health & Safety requirements of Directive 2014/34/EU and as such contain no potential ignition hazard for explosive environments.

**Technical Director:**  
James Robinson  
June 2018