DETA’s fans are attractively styled to blend with modern environments whatever the application, from kitchens and bathrooms to utility rooms, there is a Deta low energy, low noise Extraction Fan to meet all domestic intermittent ventilation requirements.

For general applications choose from the Standard Deta 4” & 6” Axial Fan range or the stylish Flat Fascia range with its sleek unobtrusive low maintenance design.

For more arduous wet room installations, the range also offers a Low Voltage 4” Axial Fan for use within Bathroom Zone 1 applications and complete Shower Fan Kits which includes the option of an integral low voltage light.

The range includes the options of user adjustable timers and humidistats and is completed by a range of accessories including grilles and ducting.

Deta’s range of Extraction Fans are designed to meet the latest requirements of the Building Regulations for New and Existing Dwellings.

This includes meeting the requirements of Part F (Means of Ventilation) covering Minimum Airflow Requirements, Noise Levels and Controls.

All Deta fans are designed to be quiet and efficient and meet the noise level requirements as set out in Building Regulations Part F.

Furthermore, Building Regulations approved Document Part L1 now includes requirements for minimum energy efficiencies for electric fans. All Deta Fans are low energy and are designed to operate within the guidelines set of 0.5Watts per litre per second for intermittent extract ventilation systems.

Deta’s Fans are designed for fast and easy installation and are simple to maintain in use. All Deta fans are suitable for wall or ceiling mounting.

Applications
- Kitchens
- Utility rooms
- Bathrooms
- Toilets
- Wet rooms

Building Regulation compliant
- ✔ Low energy
- ✔ High ventilation rates
- ✔ Low noise
- ✔ Adjustable controls
4” Axial Fans

Stylish 4” (100mm) Axial Fans. An extremely quiet and efficient fan, providing excellent low energy and low noise performance. Ideal for modern bathrooms and toilets. Easy to install and suitable for wall or ceiling mounting.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4600</td>
<td>Standard</td>
</tr>
<tr>
<td>4601</td>
<td>Timer</td>
</tr>
<tr>
<td>4603</td>
<td>Timer and Humidistat</td>
</tr>
</tbody>
</table>

- Extraction Rate: 25 l/s (90m³/hr)
- Specific Fan Power: 0.32W/l/s
- Noise Level: 29dB @ 3m
- Overrun Time Delay: User settable between 2 and 30 mins
- Humidistat: User settable between 60-90% RH
- Voltage: 240Vac
- Approvals: BS EN 60335-2-80
- Guarantee: 3 years

6” Axial Fans

Stylish 6” (150mm) Axial Fans. Delivering high extraction rates whilst providing low energy and low noise performance. Ideal for modern kitchens, utility rooms, bathrooms and toilets. Easy to install and suitable for wall or ceiling mounting.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4660</td>
<td>Standard</td>
</tr>
<tr>
<td>4661</td>
<td>Timer</td>
</tr>
</tbody>
</table>

- Extraction Rate: 71 l/s (255m³/hr)
- Specific Fan Power: 0.40W/l/s
- Noise Level: 35dB @ 3m
- Overrun Time Delay: User settable between 2 and 30 mins
- Voltage: 240Vac
- Approvals: BS EN 60335-2-80
- Guarantee: 3 years
Flat Fascia Axial Fans

Unobtrusive and stylish 4" (100mm) designer fan with low energy and low noise performance. Ideal for modern bathrooms and toilets where a simple and minimalist design is required. Easy to install and suitable for wall or ceiling mounting.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Extraction Rate</th>
<th>Specific Fan Power</th>
<th>Noise Level</th>
<th>Overrun Time Delay</th>
<th>Voltage</th>
<th>Approvals</th>
<th>Guarantee</th>
</tr>
</thead>
<tbody>
<tr>
<td>4630</td>
<td>Standard</td>
<td>26 l/s (92m³/hr)</td>
<td>0.49W/l/s</td>
<td>34dB @ 3m</td>
<td>User settable between 2 and 30 min</td>
<td>240Vac</td>
<td>BS EN 60335-2-80</td>
<td>3 years</td>
</tr>
<tr>
<td>4631</td>
<td>Timer</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Low Voltage Axial Fans

Stylish 4" (100mm) axial fan designed for use in bathrooms where the fan can be installed within Zone 1 splash areas. The fan is ideal for bathrooms and toilets, exceeding extraction rate requirements whilst providing low energy and low noise performance. Easy to install and suitable for wall or ceiling mounting, with the low voltage transformer mounted outside of the zone.

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Extraction Rate</th>
<th>Specific Fan Power</th>
<th>Noise Level</th>
<th>Overrun Time Delay</th>
<th>Humidistat</th>
<th>Voltage</th>
<th>Approvals</th>
<th>Guarantee</th>
</tr>
</thead>
<tbody>
<tr>
<td>4616</td>
<td>12V low voltage fan and timer</td>
<td>24 l/s (85m³/hr)</td>
<td>0.34W/l/s</td>
<td>28dB @ 3m</td>
<td>User settable between 2 and 30 mins</td>
<td>User settable between 60-90% RH</td>
<td>12Vdc low voltage transformer (240Vac supply)</td>
<td>BS EN 60335-2-80</td>
<td>3 years</td>
</tr>
<tr>
<td>4617</td>
<td>12V low voltage fan with timer and humidistat</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Technical Hotline 01582 544 548
Shower Fans

Designed for use within the splash areas of showers and baths these fans can be installed within Zone 1 areas with connection to the remote in-line 4" (100mm) axial fan unit via the ducting provided. Also available with integral low voltage light, which comes with both white and chrome internal grilles. The fan is ideal for modern bathrooms and toilets where a simple and minimalist design is required. Easy to install and suitable for ceiling mounting only.

4640
Shower fan kit and timer
Shower fan kit with timer and light - white and chrome cover supplied

4641

Extraction Rate 25l/s (90m³/hr) 71l/s (255 m³/hr) 26l/s (92 m³/hr) 24l/s (85 m³/hr) 30l/s (107 m³/hr)
Specific Fan Power 0.32W/l/s 0.40W/l/s 0.49W/l/s 0.34W/l/s 0.47W/l/s
Noise Level 29dB 35dB 34dB 28dB 33dB
Overrun Time Delay User settable between 2 and 30 mins
Voltage 240Vac
Approvals BS EN 60335-2-80
Guarantee 3 years

Ventilation Fan Performance Data

<table>
<thead>
<tr>
<th></th>
<th>4&quot; Axial Fans</th>
<th>6&quot; Axial Fans</th>
<th>Flat Fascia Axial Fans</th>
<th>Low Voltage Axial Fans</th>
<th>4&quot; Shower Fan Kits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extraction Rate</td>
<td>25l/s (90m³/hr)</td>
<td>71l/s (255 m³/hr)</td>
<td>26l/s (92 m³/hr)</td>
<td>24l/s (85 m³/hr)</td>
<td>30l/s (107 m³/hr)</td>
</tr>
<tr>
<td>Specific Fan Power</td>
<td>0.32W/l/s</td>
<td>0.40W/l/s</td>
<td>0.49W/l/s</td>
<td>0.34W/l/s</td>
<td>0.47W/l/s</td>
</tr>
<tr>
<td>Sound Pressure Level (at 3m)</td>
<td>29dB</td>
<td>35dB</td>
<td>34dB</td>
<td>28dB</td>
<td>33dB</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>8W</td>
<td>28W</td>
<td>13W</td>
<td>8W</td>
<td>14W</td>
</tr>
<tr>
<td>Supply Voltage (at 50Hz)</td>
<td>240Vac</td>
<td>240Vac</td>
<td>240Vac</td>
<td>240Vac to tran. 12Vdc to fan</td>
<td>240Vac</td>
</tr>
<tr>
<td>Insulation Class</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IP Rating</td>
<td>IP24</td>
<td>IP24</td>
<td>IP24</td>
<td>IP24</td>
<td>IPX4</td>
</tr>
<tr>
<td>Maximum Running Temperature</td>
<td>40°C</td>
<td>40°C</td>
<td>40°C</td>
<td>40°C</td>
<td>40°C</td>
</tr>
<tr>
<td>Thermal Protection</td>
<td>Thermal Fuse</td>
<td>Thermal Fuse</td>
<td>Thermal Fuse</td>
<td>Thermal Fuse</td>
<td>Thermal Fuse</td>
</tr>
</tbody>
</table>

Telesales Hotline 01582 544 544
Flexible Ducting

Available in 4” and 6” diameters in 3m lengths.

- **4820** 100mm (4”) 3m length
- **4880** 150mm (6”) 3m length

Wall Fixing Kits

For through wall applications, includes gravity grilles to prevent back drafts and length of rigid ducting extendable from 20cm to 50cm.

- **4824** 100mm (4”) Wall Fixing Kit
- **4884** 150mm (6”) Wall Fixing Kit

External Grille

Fixed grilles may be installed in horizontal or vertical planes and in exposed locations where gravity grilles may be affected by turbulent wind conditions.

- **4821W** 100mm (4”) gravity grille - white
- **4821B** 100mm (4”) gravity grille - brown
- **4822W** 100mm (4”) fixed grille - white
- **4822B** 100mm (4”) fixed grille - brown
- **4881W** 150mm (6”) gravity grille - white
- **4881B** 150mm (6”) gravity grille - brown
- **4882W** 150mm (6”) fixed grille - white
- **4882B** 150mm (6”) fixed grille - brown

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Technical Hotline 01582 544 548
Technical Information

Current Building Regulations specify the requirements for mechanical ventilation systems within dwellings. Part F – Means of Ventilation – covers minimum air flow and extraction rates and maximum noise levels. Part L1 – Conservation of Fuel and Power – requires domestic dwelling to be energy efficient and states the minimum efficiency standard for mechanical extraction fans.

Part F – Extraction Rates and Noise

Ventilation

Building Regulation Approved Document F – Means of Ventilation – details the extract ventilation requirement for rooms where most water vapour and or pollutants are released due to activities such as bathing and cooking. This is to minimise the spread to the rest of the building and can be achieved by using DETA’s range of intermittent ventilation fans.

Table 5.1a details the required extraction ventilation rates for intermittent ventilation systems for use in rooms that give rise to significant production of airborne moisture, e.g. bathrooms, utility rooms, kitchens, etc.

<table>
<thead>
<tr>
<th>Room</th>
<th>Minimum rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kitchen</td>
<td>30 l/s adjacent to hob or 60 l/s elsewhere</td>
</tr>
<tr>
<td>Utility room</td>
<td>30 l/s</td>
</tr>
<tr>
<td>Bathroom</td>
<td>15 l/s</td>
</tr>
<tr>
<td>Sanitary accommodation</td>
<td>6 l/s</td>
</tr>
</tbody>
</table>

Noise

Building Regulation Approved Document F 2010 also states that the designer should take into account the noise generated by ventilation fans and minimise noise within the dwelling by careful design and specification of quieter products. All DETA fans meet Part F requirements for acceptable noise levels of 35dB within areas such as bathrooms and kitchen.

Part L1 – Minimum Efficiencies

The 2013 Regulation, supported by the Domestic Building Services Compliance Guide, requires that ventilation systems should minimise the power that they use.

DETA’s range of fans meet the requirements of Table 32 of Domestic Building Services Compliance Guide which states that specific fan power (SFP) for a mechanical intermittent extract ventilation system should not be worse than 0.5W per litre per second, W(l/s).