Air Control Dampers

Standard Damper 100S/165S

- Standard Damper for flow control applications
- Aerofoil section blades for low air flow resistance in fully open position
- Available with 100mm or 165mm blade widths
- Wear resistant aluminium gears
- Nylon bearings ensure maintenance free long life
- Opposed blade operation for progressive air control

Casing
The damper frame of 1.2mm galvanised steel is extremely rigid to prevent distortion, which can result in binding blades. To minimize resistance and turbulent air flow the top and bottom frame sections are profiled to fill the space left by using standard blade sizes. Above the maximum module size units may be ganged and coupled for site assembly.

Blades
Aerofoil section blades ensure minimum flow resistance in the fully open position. The roll formed section, in 0.7mm galvanised steel, produces a high strength structure allowing long blade lengths with minimum deflection under pressure conditions. The blades are fitted with 12mm galvanised steel stub shafts. Blade edge seals in Neoprene rubber are compressed as the dampers close to provide positive sealing, with almost zero leakage through the blades.

Operation
Aluminium gears provide positive drive across the complete blade train. The gears are produced by a unique roll forming process which produces hardened teeth. The result is a gear which is extremely hard wearing giving long service life under constant movement or dusty conditions.

100S
- Blade width 100mm
- Casing Depth 110mm
- Maximum Module Size: Width(A)mm 1600mm Height(B)mm 1600mm
- Operating temperature -40°C to +80°C max

165S
- Blade width 165mm
- Casing Depth 175mm
- Maximum Module Size: Width(A)mm 2000mm Height(B)mm 2000mm
- Operating temperature -40°C to +80°C max

Engineered for performance

Rega Ventilation Limited
21/22 Eldon Way, Biggleswade, Beds SG18 8NH
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Bearings
High density nylon bearing are designed to operate for the life of the damper without the need for lubrication or any other form of maintenance. The standard bearings are suitable for working temperatures up to 90°C, alternative brass or Teflon bearings are available for higher operating temperatures.

Seals
Each shaft bearing is fitted with an external nylon cap to provide an airtight seal through the damper casing and prevent the entry of dust into the bearing. Control Dampers are not fitted with blade seals or top/bottom stops.

Flanges
Three standard flange profiles are available as follows:

In addition flanges may be formed and drilled to match proprietary systems such as Mez or Ductmate. Non standard profiles are available.

Actuation
Rega dampers may be supplied with manual operating quadrant or 12mm shaft for motorised control. If required the units can be factory fitted with pneumatic or electric actuators to customer specification. For motor sizing torque ratings may be taken from the graphs. For multi module units coupled for driving by one motor add 5Nm, for each join, to the total torque of the individual modules.
Air Control Dampers

**Standard Damper 100SE/165SE**

- Standard Damper for flow control applications
- Aerofoil section blades for low air flow resistance in fully open position
- Available with 100mm or 165mm blade widths
- Fully enclosed aluminium gears outside air stream
- Nylon bearings ensure maintenance free long life
- Opposed blade operation for progressive air control

100S
- Blade width 100mm
- Casing Depth 110mm
- Maximum Module Size:
  - Width(A)mm 1600mm
  - Height(B)mm 1600mm
- Operating temperature -40°C to +80°C max

165S
- Blade width 165mm
- Casing Depth 175mm
- Maximum Module Size:
  - Width(A)mm 2000mm
  - Height(B)mm 2000mm
- Operating temperature -40°C to +80°C max

**Operation**

Aluminium gears provide positive drive across the complete blade train. The gears are produced by a unique roll forming process which produces hardened teeth. The result is a gear which is extremely hard wearing giving long service life during constant modulating operation. The gears are mounted externally to the damper frame, out of the air stream, ideal for dusty conditions. The gears are fully enclosed to protect them in harmful conditions and to prevent damage.

**Blades**

Aerofoil section blades ensure minimum flow resistance in the fully open position. The roll formed section, in 0.7mm galvanised steel, produces a high strength structure allowing long blade lengths with minimum deflection under pressure conditions. The blades are fitted with 12mm galvanised steel stub shafts.

**Casing**

The damper frame of 1.2mm galvanised steel is extremely rigid to prevent distortion, which can result in binding blades. To minimize resistance and turbulent air flow the top and bottom frame sections are profiled to fill the space left by using standard blade sizes. Above the maximum module size units may be ganged and coupled for site assembly.

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Bears

High density nylon bearing are designed to operate for the life of the damper without the need for lubrication or any other form of maintenance. The standard bearings are suitable for working temperatures up to 90°C, alternative brass or Teflon bearings are available for higher operating temperatures.

Seals

Each shaft is fitted with an external nylon sleeve to provide an airtight seal through the damper casing and prevent the entry of dust into the bearing. Control dampers are not fitted with blade seals or top/bottom stops.

Flanges

Three standard flange profiles are available as follows:

In addition flanges may be formed and drilled to match proprietary systems such as Mez or Ductmate. Non standard profiles are available.

Actuation

Rega dampers may be supplied with manual operating quadrant or 12mm shaft for motorised control. If required the units can be factory fitted with pneumatic or electric actuators to customer specification. For motor sizing torque ratings may be taken from the graphs. For multi module units coupled for driving by one motor add 5Nm, for each join, to the total torque of the individual modules.

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Stainless Steel Control 165SS

- Standard dampers for flow control applications
- Grade 316 Stainless Steel for corrosion resistance
- Aerofoil section blades for low air flow resistance in fully open position
- Contra rotating blades with linkage operation allows for expansion at high temperatures
- Operating temperatures up to 300°C

Casing
Made from 1.2mm stainless steel, the frame is extremely rigid to prevent distortion, overcoming the problem of binding or sticking blades which often results in damaged actuators. To minimize resistance and turbulent air flow the top and bottom frame sections are profiled to fill the space left by using standard blade sizes. Above the maximum module size units may be ganged and coupled for site assembly.

Blades
Aerofoil section blades ensure minimum flow resistance in the fully open position. The roll formed section, in 0.7mm stainless steel, produces a high strength structure allowing long blade lengths with minimum deflection under pressure conditions. The blades are fitted with 12mm stainless steel stub shafts.

Operation
To allow for expansion at high temperatures the units utilise an external linkage giving contra rotational blade operation. Manufactured from 316 material the mechanism offers the same level of corrosion and temperature resistance as the main components of the damper. The dampers are supplied with a 12mm drive shaft for auto control or a manual locking quadrant.

Maintenance
Bearings are self lubricating and all moving parts are fitted with nylon washers. No maintenance is required in service.

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Bearings

Low friction Nylon bearings combine corrosion resistance with medium temperature operation. Standard on stainless steel dampers they are ideal for most applications at temperatures up to 110°C. Above this temperature brass bearings should be specified.

Seals

Each shaft bearing is fitted with a nylon sleeve to provide an airtight seal through the damper casing and prevent the entry of dust into the bearing.

Flanges

Three standard flange profiles are available as follows:

In addition flanges may be formed and drilled to match proprietary systems such as Mez or Ductmate. Non standard profiles are available.

Actuation

Rega dampers may be supplied with manual operating quadrant or 12mm shaft for motorised control. If required the units can be factory fitted with pneumatic or electric actuators to customer specification. For motor sizing torque ratings may be taken from the graphs. For multi module units coupled for driving by one motor add 5Nm, for each join, to the total torque of the individual modules.
Air Control Dampers

Low Loss Damper 100L/165L

- Low leakage dampers for flow control/shut off applications
- Blade seals and stops for leakage rates less than 5%
- Aerofoil section blades for low air flow resistance in fully open position
- Available with 100mm or 165mm blade widths
- Wear resistant aluminium gears
- Nylon bearings ensure maintenance free long life
- Opposed blade operation for progressive air control

Casing
The damper frame of 1.2mm galvanised steel is extremely rigid to prevent distortion, which can result in binding blades. To minimize resistance and turbulent air flow the top and bottom frame sections are profiled to fill the space left by using standard blade sizes. Above the maximum module size units may be ganged and coupled for site assembly. The casings are fitted with top and bottom stops to limit blade rotation to 180° and reduce leakage in the closed position.

Blades
Aerofoil section blades ensure minimum flow resistance in the fully open position. The roll formed section, in 0.7mm galvanised steel, produces a high strength structure allowing long blade lengths with minimum deflection under pressure conditions. The blades are fitted with 12mm galvanised steel stub shafts. Blade edge seals in Neoprene rubber are compressed as the dampers close to provide positive sealing, with almost zero leakage through the blades.

Operation
Aluminium gears provide positive drive across the complete blade train. The gears are produced by a unique roll forming process which produces hardened teeth. The result is a gear which is extremely hard wearing giving long service life under constant movement or dusty conditions.
Bearings
High density nylon bearing are designed to operate for the life of the damper without the need for lubrication or any other form of maintenance. The standard bearings are suitable for working temperatures up to 90°C.

Seals
Each shaft bearing is fitted with an external nylon cap to provide an airtight seal through the damper casing and prevent the entry of dust into the bearing. Blade edge seals and top and bottom stops reduce leakage through the damper blades to less than 5% depending on flow rates and pressure. Consult graphs for specific performance data.

Flanges
Three standard flange profiles are available as follows:

In addition flanges may be formed and drilled to match proprietary systems such as Mez or Ductmate. Non standard profiles are available.

Actuation
Rega dampers may be supplied with manual operating quadrant or 12mm shaft for motorised control. If required the units can be factory fitted with pneumatic or electric actuators to customer specification. For motor sizing torque ratings may be taken from the graphs. For multi module units coupled for driving by one motor add 5Nm, for each join, to the total torque of the individual modules.

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Air Control Dampers

Painted Damper 100LE/165LE

- Powder coated or painted for appearance or corrosion resistance.
- Low leakage dampers for flow control/shut off applications
- Blade seals and stops for leakage rates less than 5%
- Aerofoil section blades for low air flow resistance.
- Available with 100mm or 165mm blade widths
- Fully enclosed external gears allow 100% coating.
- Nylon bearings ensure maintenance free long life
- Opposed blade operation for progressive air control

100L
- Blade width 100mm
- Casing Depth 120mm
- Maximum Module Size:
  - Width(A)mm 1000mm
  - Height(B)mm 1000mm
- Operating temperature -40°C to +80°C max

165L
- Blade width 165mm
- Casing Depth 185mm
- Maximum Module Size:
  - Width(A)mm 2000mm
  - Height(B)mm 2000mm
- Operating temperature -40°C to +80°C max

Casing
The damper frame of 1.2mm galvanised steel is extremely rigid to prevent distortion, which can result in binding blades. To minimize resistance and turbulent air flow the top and bottom frame sections are profiled to fill the space left by using standard blade sizes. Above the maximum module size units may be ganged and coupled for site assembly. The casings are fitted with top and bottom stops to limit blade rotation to 180° and reduce leakage in the closed position.

Blades
Aerofoil section blades ensure minimum flow resistance in the fully open position. The roll formed section, in 0.7mm galvanised steel, produces a high strength structure allowing long blade lengths with minimum deflection under pressure conditions. The blades are fitted with 12mm galvanised steel stub shafts. Blade edge seals in Neoprene rubber are compressed as the dampers close to provide positive sealing, with almost zero leakage through the blades.

Operation
External aluminium gears ensure positive operation and closure of the damper. The gears are fully enclosed in a sealed casing to allow coating of both internal and external surfaces of the damper without interfering with the operating mechanism.

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Bearings
High temperature brass bearing are designed to operate for the life of the damper without the need for lubrication or any other form of maintenance. Brass bearings are suitable for working temperatures up to 250°C.

Seals
Blade edge seals and top and bottom stops reduce leakage through the damper blades to less than 5% depending on flow rates and pressure. Consult graphs for specific performance data.

Flanges
Three standard flange profiles are available as follows:

In addition flanges may be formed and drilled to match proprietary systems such as Mez or Ductmate. Non standard profiles are available.

Actuation
Rega dampers may be supplied with manual operating quadrant or 12mm shaft for motorised control. If required the units can be factory fitted with pneumatic or electric actuators to customer specification. For motor sizing torque ratings may be taken from the graphs. For multi module units coupled for driving by one motor add 5Nm, for each join, to the total torque of the individual modules.
Air Control Dampers

Stainless Steel Low Loss 165L

- Low leakage dampers for flow control/shut off applications
- Grade 316 Stainless Steel for corrosion resistance
- Blade seals and stops for leakage rates less than 5%
- Aerofoil section blades for low air flow resistance in fully open position
- Contra rotating blades with linkage operation allows for expansion at high temperatures
- PTFE or bronze bearings ensure maintenance free long life

Casing
The damper frame of 1.2mm stainless steel (316) is extremely rigid to prevent distortion, which can result in binding blades. To minimize resistance and turbulent air flow the top and bottom frame sections are profiled to fill the space left by using standard blade sizes. Above the maximum module size units may be ganged and coupled for site assembly. The casings are fitted with top and bottom stops to limit blade rotation to 180° and reduce leakage in the closed position.

 Blades
Aerofoil section blades ensure minimum flow resistance in the fully open position. The roll formed section, in 0.7mm stainless steel, produces a high strength structure allowing long blade lengths with minimum deflection under pressure conditions. The blades are fitted with 12mm stainless steel stub shafts. Blade edge seals in silicon rubber are compressed as the dampers close to provide positive sealing, with almost zero leakage through the blades.

Operation
To allow for expansion at high temperatures the units utilise an external linkage giving contra rotational blade operation. Manufactured from 316 material the mechanism offers the same level of corrosion and temperature resistance as the main components of the damper.

165L
- Blade width 165mm
- Casing Depth 185mm
- Maximum Module Size: Width(A)mm 2000mm Height(B)mm 2000mm

- Operating temperature
- Nylon bearings -40°C to +100°C max
- PTFE bearings -40°C to +150°C max
- Brass bearings -40°C to +300°C max

Engineered for performance
Bearings
High density nylon bearing are designed to operate for the life of the damper without the need for lubrication or any other form of maintenance. The standard bearings are suitable for working temperatures up to 100°C. For higher temperatures PTFE or Brass Bearings are available.

Seals
Each shaft bearing is fitted with a nylon sleeve to provide an airtight seal through the damper casing and prevent the entry of dust into the bearing. Blade edge seals and top and bottom stops reduce leakage through the damper blades to less than 5% depending on flow rates and pressure. Consult graphs for specific performance data.

Flanges
Three standard flange profiles are available as follows:

In addition flanges may be formed and drilled to match proprietary systems such as Mez or Ductmate. Non standard profiles are available.

Actuation
Rega dampers may be supplied with manual operating quadrant or 12mm shaft for motorised control. If required the units can be factory fitted with pneumatic or electric actuators to customer specification. For motor sizing torque ratings may be taken from the graphs. For multi module units coupled for driving by one motor add 5Nm, for each joint, to the total torque of the individual modules.
Air Control Dampers

**Insulated Damper 100Li/165Li**

- Insulated Low leakage dampers for flow control/shut off applications
- Blade seals and stops for leakage rates less than 5%
- Aerofoil section blades for low air flow resistance in the fully open position.
- Insulated blades for low thermal conductivity
- Wear resistant aluminium gears fitted to both ends of blades
- Nylon bearings ensure maintenance free long life
- Opposed blade operation for progressive air control

**Casing**
The damper frame of 1.2mm galvanised steel is extremely rigid to prevent distortion, which can result in binding blades. To minimize resistance and turbulent air flow the top and bottom frame sections are profiled to fill the space left by using standard blade sizes. Above the maximum module size units may be ganged and coupled for site assembly. The casings are fitted with top and bottom stops with neoprene seals to limit blade rotation to 180° and reduce leakage in the closed position.

**Blades**
Aerofoil section blades ensure minimum flow resistance in the fully open position. The roll formed section, in 0.7mm galvanised steel, produces a high strength structure allowing long blade lengths with minimum deflection under pressure conditions. The blades are fitted with 12mm galvanised steel stub shafts. Blade edge seals in Neoprene rubber are compressed as the dampers close to provide positive sealing, with almost zero leakage through the blades.

**Insulation**
The hollow profile blades are filled with high density mineral wool insulation giving a thermal resistance of 1.6. The joints between blade ends and drive gears are fully sealed to prevent fibre breakout.

**Operation**
Aluminium gears are fitted at both ends of each blade. The gears are produced by a unique roll forming process which produces hardened teeth. The result is a gear which is extremely hard wearing giving long service life under constant movement or dusty conditions.

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**100Li**
- Blade width 100mm
- Casing Depth 110mm
- Maximum Module Size:
  - Width(A)mm 1000mm
  - Height(B)mm 1000mm
- Operating temperature 80°C max

**165Li**
- Blade width 165mm
- Casing Depth 175mm
- Maximum Module Size:
  - Width(A)mm 2000mm
  - Height(B)mm 2000mm
- Operating temperature 80°C max

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**Bearings**
High density nylon bearing are designed to operate for the life of the damper without the need for lubrication or any other form of maintenance. The standard bearings are suitable for working temperatures up to 90°C.

**Seals**
Blade edge seals and top and bottom seals prevent leakage through the damper blades. Behind each gear a neoprene foam sealed cell gasket prevents leakage at the sides of the damper. The seal is faced with PTFE to minimize friction and keep operating torque low. All joints between blades and gears are fully sealed.

**Flanges**
Three standard flange profiles are available as follows:

- **I**
- **U25020**
- **U5010**

In addition flanges may be formed and drilled to match proprietary systems such as Mez or Ductmate. Non standard profiles are available.

**Actuation**
Rega dampers may be supplied with manual operating quadrant or 12mm shaft for motorised control. If required the units can be factory fitted with pneumatic or electric actuators to customer specification. For motor sizing torque ratings may be taken from the graphs. For multi module units coupled for driving by one motor add 5Nm, for each join, to the total torque of the individual modules.

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Call us on 01767 600499 or visit www.regavent.co.uk
Air Tight Dampers 100A/165A

- Air tight dampers for shut off applications
- Fully sealed for leakage less than 10 l/s per square metre
- Aerofoil section blades for low air flow resistance in fully open position
- Available with 100mm or 165mm blade widths
- Wear resistant aluminium gears
- Nylon bearings ensure maintenance free long life
- Opposed blade operation for progressive air control

100A
- Blade width 100mm
- Casing Depth 110mm
- Maximum Module Size:
  Width(A)mm 1000mm
  Height(B)mm 1000mm
- Operating temperature 80°C max

165A
- Blade width 165mm
- Casing Depth 175mm
- Maximum Module Size:
  Width(A)mm 1400mm
  Height(B)mm 1600mm
- Operating temperature 80°C max

Casing
The damper frame of 1.2mm galvanised steel is extremely rigid to prevent distortion, which can result in binding blades. To minimize resistance and turbulent air flow the top and bottom frame sections are profiled to fill the space left by using standard blade sizes. Above the maximum module size, units may be ganged and coupled for site assembly. The casings are fitted with top and bottom stops with neoprene seals to limit blade rotation to 180° and reduce leakage in the closed position.

Blades
Aerofoil section blades ensure minimum flow resistance in the fully open position. The roll formed section, in 0.7mm galvanised steel, produces a high strength structure allowing long blade lengths with minimum deflection under pressure conditions. The blades are fitted with 12mm galvanised steel stub shafts. Blade edge seals in Neoprene rubber are compressed as the dampers close to provide positive sealing, with almost zero leakage through the blades.

Operation
Aluminium gears are fitted at both end of each blade. The gears are produced by a unique roll forming process which produces hardened teeth. The result is a gear which is extremely hard wearing giving long service life under constant movement or dusty conditions. Half gears are used to allow the top and bottom seals to extend the full width of the damper.
Bearings
High density nylon bearing are designed to operate for the life of the damper without the need for lubrication or any other form of maintenance. The standard bearings are suitable for working temperatures up to 90°C.

Seals
Blade edge seals and top and bottom seals prevent leakage through the damper blades. Behind each gear a neoprene foam closed cell gasket prevents leakage at the sides of the damper. The seal is faced with PTFE to minimize friction and keep operating torque low. All joints between blades and gears are fully sealed.

Flanges
Three standard flange profiles are available as follows:

In addition flanges may be formed and drilled to match proprietary systems such as Mez or Ductmate. Non standard profiles are available.

Actuation
Rega dampers may be supplied with manual operating quadrant or 12mm shaft for motorised control. If required the units can be factory fitted with pneumatic or electric actuators to customer specification. For motor sizing torque ratings may be taken from the graphs. For multi module units coupled for driving by one motor add 5Nm, for each join, to the total torque of the individual modules.

...for a fresher, healthier, home
Stainless Steel Airtight 165AS

- Air Tight dampers for tight shut off applications
- Grade 316 Stainless Steel for corrosion resistance
- Blade seals and side seal for leakage rate of 3 l/s/m² at 100Pa
- Aerofoil section blades for low air flow resistance in fully open position
- Contra rotating blades with linkage operation allows for expansion at high temperatures
- Nylon or bronze bearings ensure maintenance free long life

165A

- Blade width 165mm
- Casing Depth 185mm
- Maximum Module Size:
  - Width(A)mm 1600mm
  - Height(B)mm 1600mm

- Operating temperature
- Nylon bearings -40°C to +100°C max
- PTFE bearings -40°C to +150°C max
- Brass bearings -40°C to +300°C max

Casing

The damper frame of 1.2mm stainless steel (316) is extremely rigid to prevent distortion, which can result in binding blades. To minimize resistance and turbulent air flow the top and bottom frame sections are profiled to fill the space left by using standard blade sizes. Above the maximum module size units may be ganged and coupled for site assembly. The casings are fitted with top and bottom sealed stops to limit blade rotation to 180° and prevent leakage in the closed position.

Blades

Aerofoil section blades ensure minimum flow resistance in the fully open position. The roll formed section, in 0.7mm stainless steel, produces a high strength structure allowing long blade lengths with minimum deflection under pressure conditions. The blades are fitted with 12mm stainless steel stub shafts. Blade edge seals in silicon rubber are compressed as the dampers close to provide positive sealing, with almost zero leakage through the blades.

Operation

To allow for expansion at high temperatures the units utilise an external linkage giving contra rotational blade operation. Manufactured from 316 material the mechanism offers the same level of corrosion and temperature resistance as the main components of the damper.
Bearing
High density nylon bearing are designed to operate for the life of the damper without the need for lubrication or any other form of maintenance. The standard bearings are suitable for working temperatures up to 100°C. For higher temperatures PTFE or Brass Bearings are available.

Seals
To minimize air leakage the blades are fitted with closed cell neoprene end seals to fully seal the gap between blade end and side frame. These seals are finished with a PTFE face which rotates against a PTFE ring allowing maximum, air tight, seal compression whilst maintaining low operating torque. Consult graphs for specific performance data.

Flanges
Three standard flange profiles are available as follows:

In addition flanges may be formed and drilled to match proprietary systems such as Mez or Ductmate. Non standard profiles are available.

Actuation
Rega dampers may be supplied with manual operating quadrant or 12mm shaft for motorised control. If required the units can be factory fitted with pneumatic or electric actuators to customer specification. For motor sizing torque ratings may be taken from the graphs. For multi module units coupled for driving by one motor add 5Nm, for each join, to the total torque of the individual modules.

Operating Torque Example
Airtight Damper 500mm high x 1200mm wide Pressure 500Pa
Total Operating Torque 9 N/m
Air Control Dampers

Insulated Damper 100Ai/165Ai

- Insulated dampers for shut off applications
- Fully sealed for leakage less than 10 l/s per square metre
- Aerofoil section blades for low air flow resistance in the fully open position.
- Insulated blades for low thermal conductivity
- Wear resistant aluminium geard fitted to both ends of blades
- Nylon bearings ensure maintenance free long life
- Opposed blade operation for progressive air control

Casing
The damper frame of 1.2mm galvanised steel is extremely rigid to prevent distortion, which can result in binding blades. To minimize resistance and turbulent air flow the top and bottom frame sections are profiled to fill the space left by using standard blade sizes. Above the maximum module size units may be ganged and coupled for site assembly. The casings are fitted with top and bottom stops with neoprene seals to limit blade rotation to 180° and reduce leakage in the closed position.

Blades
Aerofoil section blades ensure minimum flow resistance in the fully open position. The roll formed section, in 0.7mm galvanised steel, produces a high strength structure allowing long blade lengths with minimum deflection under pressure conditions. The blades are fitted with 12mm galvanised steel stub shafts. Blade edge seals in Neoprene rubber are compressed as the dampers close to provide positive sealing, with almost zero leakage through the blades.

Insulation
The hollow profile blades are filled with high density mineral wool insulation giving a thermal resistance of 1.6. The joints between blade ends and drive gears are fully sealed to prevent fibre breakout.

Operation
Aluminium gears are fitted at both ends of each blade. The gears are produced by a unique roll forming process which produces hardened teeth. The result is a gear which is extremely hard wearing giving long service life under constant movement or dusty conditions. Half gears are used to allow the top and bottom seals to extend the full width of the damper.

100Ai
- Blade width 100mm
- Casing Depth 110mm
- Maximum Module Size: Width(A)mm 1000mm Height(B)mm 1000mm
- Operating temperature 80°C max

165Ai
- Blade width 165mm
- Casing Depth 175mm
- Maximum Module Size: Width(A)mm 1400mm Height(B)mm 1600mm
- Operating temperature 80°C max

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**Bearings**
High density nylon bearings are designed to operate for the life of the damper without the need for lubrication or any other form of maintenance. The standard bearings are suitable for working temperatures up to 90°C.

**Seals**
Blade edge seals and top and bottom seals prevent leakage through the damper blades. Behind each gear a neoprene foam sealed cell gasket prevents leakage at the sides of the damper. The seal is faced with PTFE to minimize friction and keep operating torque low. All joints between blades and gears are fully sealed.

**Flanges**
Three standard flange profiles are available as follows:

- In addition flanges may be formed and drilled to match proprietary systems such as Mez or Ductmate. Non standard profiles are available.

**Actuation**
Rega dampers may be supplied with manual operating quadrant or 12mm shaft for motorised control. If required the units can be factory fitted with pneumatic or electric actuators to customer specification. For motor sizing torque ratings may be taken from the graphs. For multi module units coupled for driving by one motor add 5Nm, for each join, to the total torque of the individual modules.

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