

AIRFOIL



GRILLES
DUCT
FITTINGS

making it happen sooner...



Quality
Endorsed
Company
ISO 9001
 SAI GLOBAL



METAL RETURN AIR FILTER BOX
RA-FB



METAL RETURN AIR FILTER BOX RA-FB

PRODUCT DESCRIPTION AND APPLICATION

Airfoil's Australian Made Return Air Filter Box (RA-FB) is meticulously crafted from premium 0.55mm Australian Galvanised sheet metal. The primary function of the (RA-FB) is to facilitate the gathering of Return Air from the conditioned space, channeling it back to the HVAC system for reconditioning. This crucial process ensures the maintenance of adequate air circulation and ventilation within the building.

Whether opting for an uninsulated (Plain) version or selecting from a variety of standard insulation types such as 5mm or 10mm Rubber, 13mm or 25mm Polyester, or 13mm or 25mm Black-faced Fibreglass and 25mm Perforated Black-faced Fibreglass, Airfoil provides flexibility to meet diverse requirements. Additionally, custom insulation options are available upon request to cater to unique specifications.

Available in a variety of configurations, the Return Air Filter Box is equipped with either a 15mm or 55mm channel, accommodating a 50mm cardboard filter or the traditional washable 12mm filter. These filters are easily removable and securely held within the box's inner channel using a piano hinge and plastic open and closed latches. The filter boxes can be tailored for access to the filter through either its long or short side, and they can be custom manufactured to any depth and specification required.

To enhance flexibility, the Airfoil RA-FB offers multiple Side Entry spigot placements, including Opposite and Adjacent Spigot placements. Additionally, Airfoil produces its innovative "Top Entry" (RAB-TE), featuring spigots positioned at the top of the Plenum Box, opposite the open end of the Plenums. This unique design allows the Top Entry RA-FB to efficiently return air directly from the rear of the Return Air Grille.

Designed to seamlessly integrate with Airfoils' Return Air Grille range this quality Filter Box ensures compatibility and efficiency. Suitable for both commercial and domestic settings, where thermal and acoustic requirements are paramount, it stands as a testament to Airfoil's commitment to excellence in Sheet Metal solutions.

METAL RETURN AIR FILTER BOX RA-FB

PRODUCT SPECIFICATIONS AND INFORMATION

- **Product ordering code – RA-FB**
- Australian Made and Designed
- Manufactured from 0.55mm Australian galvanised steel
- Custom box heights manufactured to suit grille requirements
- Available in 15mm or 55mm channel
- Box manufactured to suit 12mm or 50mm filter
- Opening access either long or short side
- Comes complete with opening or closing latches for access
- Used for return air heating and cooling
- Mounted behind grille
- Acoustic qualities
- Thermal qualities
- Available in Plain, Rubber (5mm/10mm), Polyester (13mm/25mm), Black-faced Fibreglass (13mm/25mm) or Perforated Black-faced Fibreglass (25mm)
- Variety of spigot placements available (Side, Opposite & Adjacent)
- Spigot sizes available are 100mm, 150mm, 200mm, 250mm, 300mm, 350mm, 400mm, 450mm, 500mm, 550mm and 600mm diameters
- Customised oval spigots available to suit varying box height restrictions
- **Top Entry** spigot placements available on request
- Suitable for both commercial and domestic settings
- Airfoil information available



FILTER CLOSED

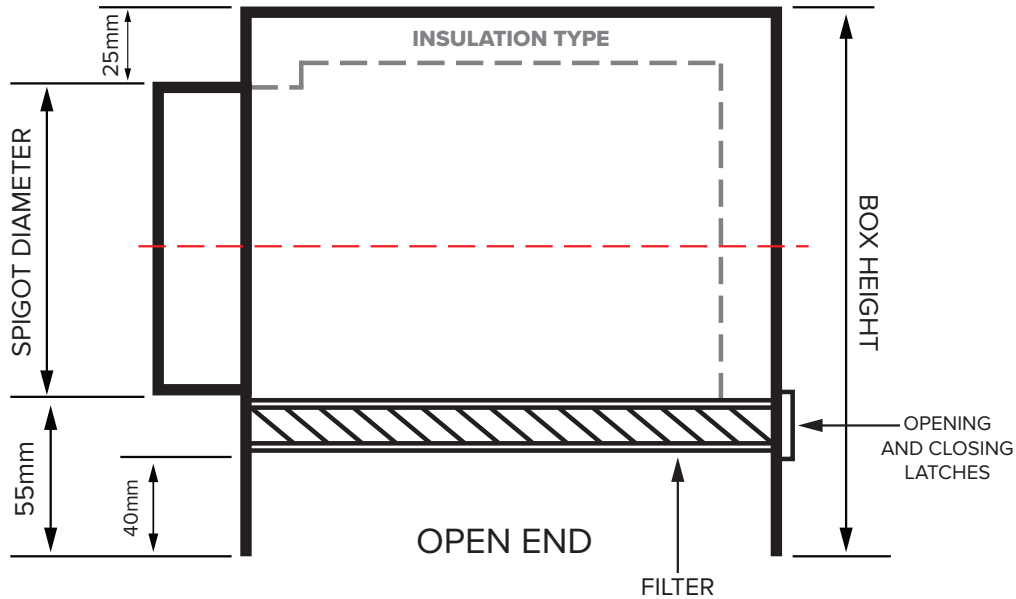


FILTER OPENED

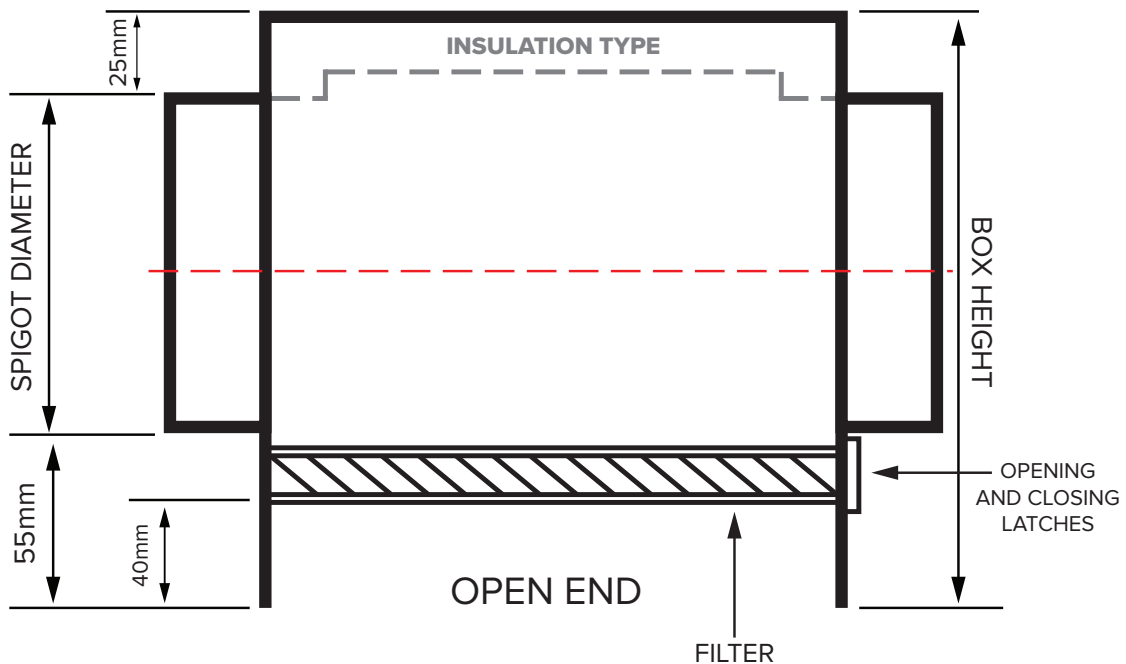
METAL RETURN AIR FILTER BOX RA-FB

CROSS SECTIONAL DIAGRAM

SIDE ENTRY FILTER BOX



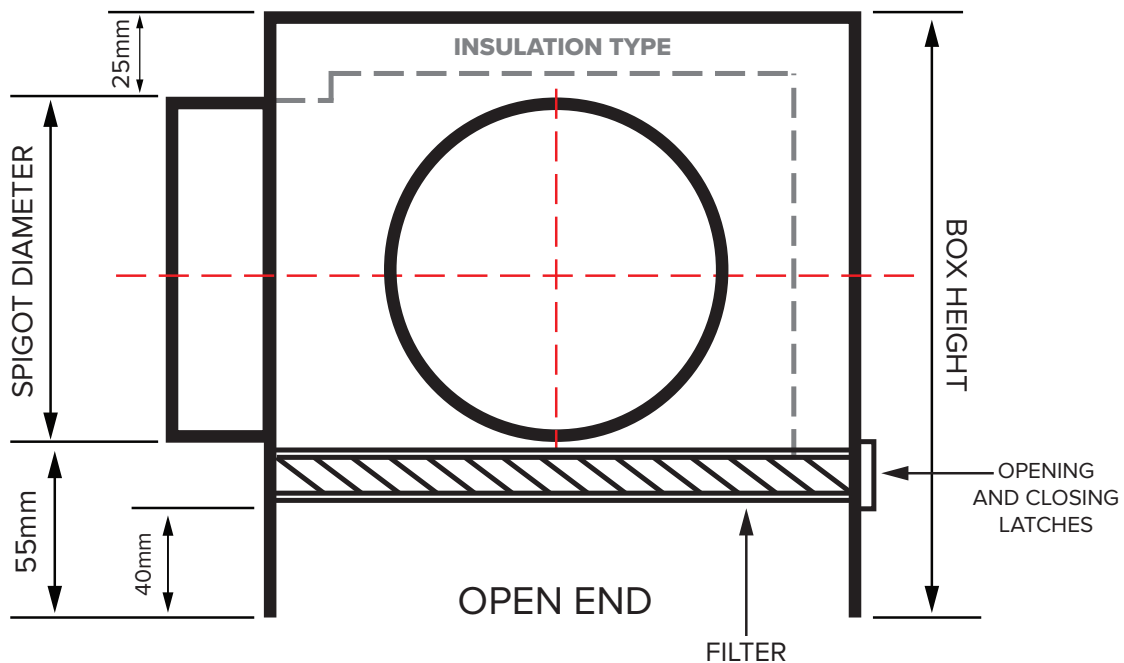
OPPOSITE SIDE ENTRY FILTER BOX



METAL RETURN AIR FILTER BOX RA-FB

CROSS SECTIONAL DIAGRAM

ADJACENT SIDE ENTRY FILTER BOX



DISCLAIMER:

All product designs, data sheets and specifications presented herein are the intellectual property of Airfoil Manufacturing Pty Ltd. These designs and specifications, including but not limited to diagrams, drawings, and performance data, are protected under Australian intellectual property laws. No part of these designs and specifications may be copied, reproduced, distributed, or transmitted in any form or by any means without the prior written permission of Airfoil Manufacturing Pty Ltd. Unauthorised use or reproduction of these materials may result in legal action under Australian copyright and intellectual property laws.