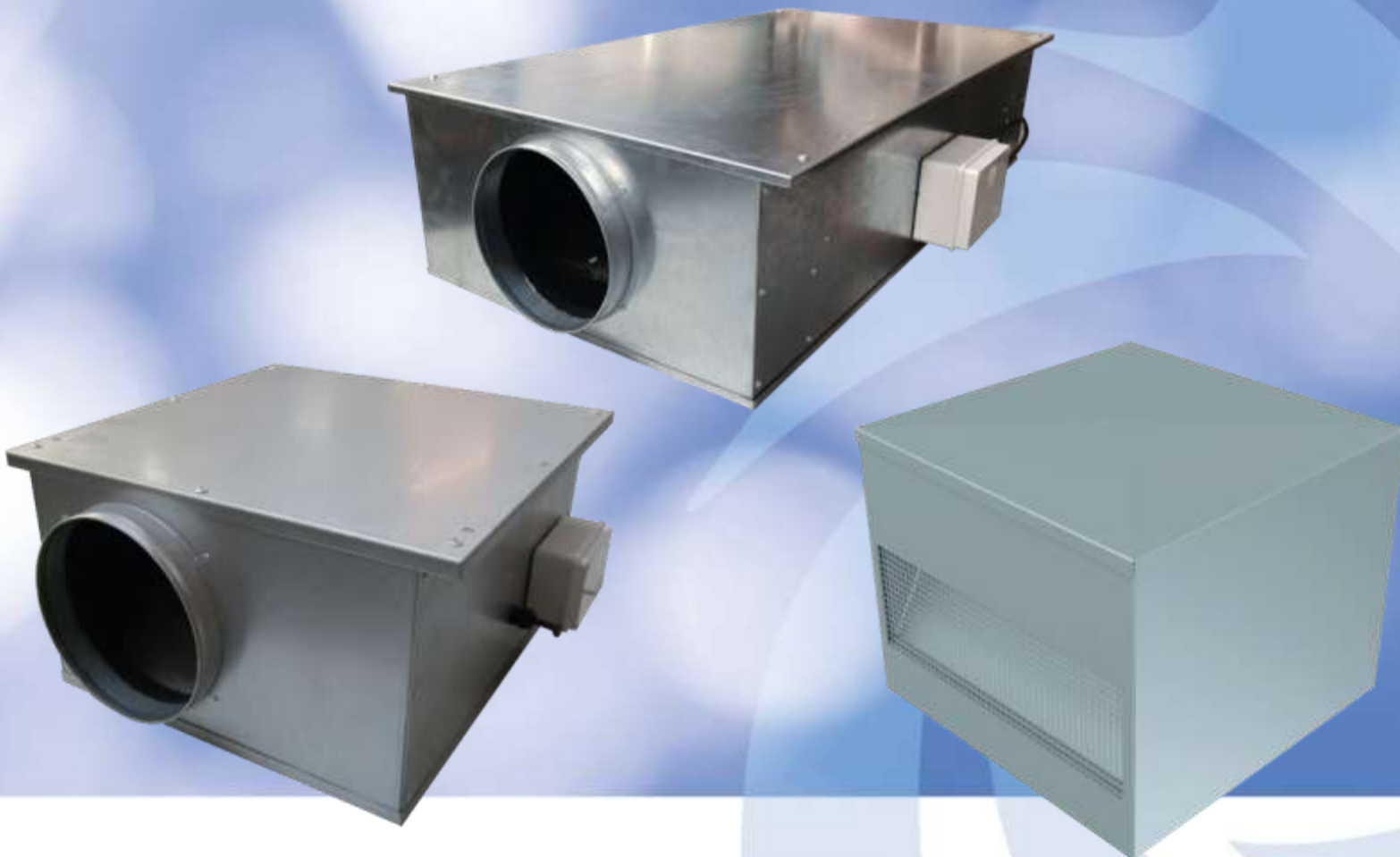




ACOUSTIC EXTRACT FANS



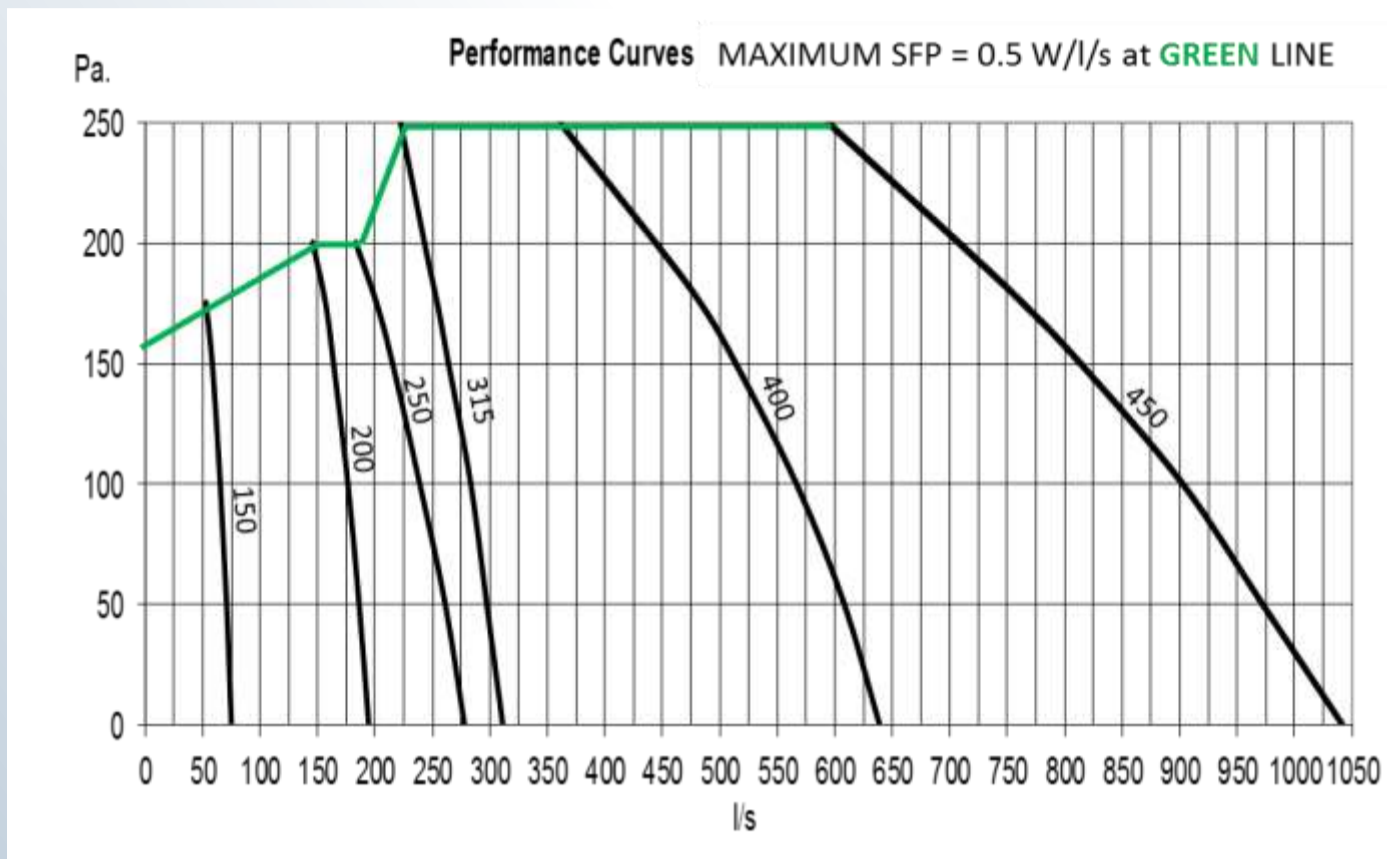
T E C H N I C A L B R O C H U R E

Welcome
to the
Comfort zone

eDF SERIES SINGLE ACOUSTIC FANS

The eDF range of ducted extract fans offer duties up to 900 l/s installed performance.

Suitable for commercial applications, fans in this series are ERP compliant with <0.5 W/l/s SFP as required in the Non-Domestic Building Services Directive 2013 on all parts of the fan curves selected below the green line. Manufactured from high quality galvanized sheet steel, fitted with acoustic non-hygroscopic foam and non-overloading 100,000 hour long life, low energy EC fans.



| eDF Series Airflow Rate (l/s) | | | | | | |
|-------------------------------|-------------------------------|-----|-----|-----|-----|-----|
| Size | External Static Pressure (Pa) | | | | | |
| | 0 | 50 | 100 | 150 | 200 | 250 |
| 150 | 75 | 70 | 65 | 58 | 50 | - |
| 200 | 208 | 200 | 192 | 181 | 166 | 150 |
| 250 | 275 | 260 | 235 | 208 | 183 | 146 |
| 315 | 311 | 297 | 283 | 264 | 254 | 224 |
| 400 | 637 | 606 | 556 | 513 | 450 | 375 |
| 450 | 1000 | 944 | 861 | 778 | 694 | 639 |

- Fully compliant with Non-Domestic Building Services Directive 2013
- 100,000 hour long life EC fans
- Ultra low profile design
- Weather proofed version available (bespoke option)

ECO-SF Controller

For use in most commercial applications, the optional ECO-SF controller allows trickle & boost options with speed adjustment, enable/disable from BMS/VFC time-switch plus fan fault output.



ECO-SPEED Manual speed control

Ideal for use in smaller offices if manual control is needed. (not compatible with ECO-SF Controller).



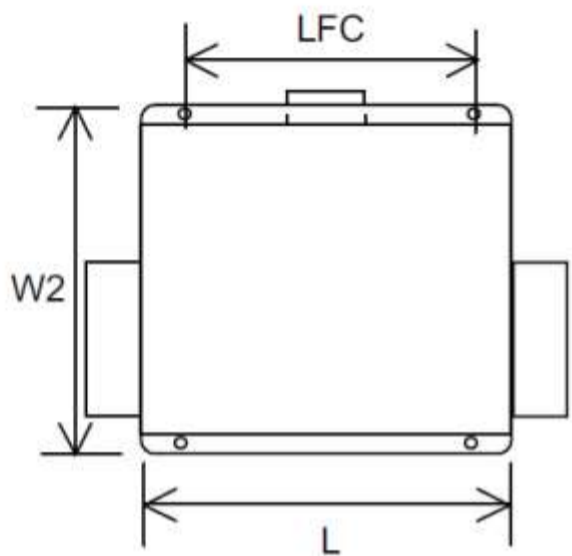
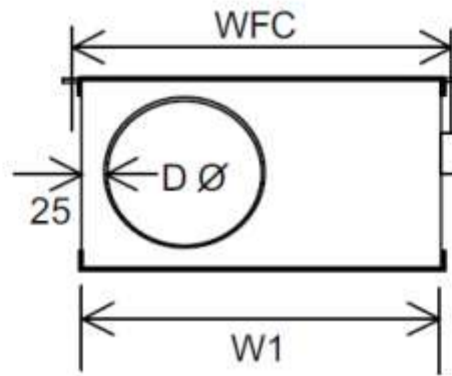
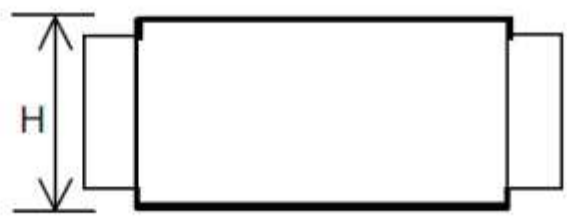
eDF SERIES SINGLE ACOUSTIC FANS

eDF Series Dimensions: (mm) & Weight (kg)

| Size | W1 | W2 | L | H | DØ | LFC | WFC | (kg) |
|------|-----|-----|-----|-----|------|-----|-----|------|
| 150 | 300 | 360 | 340 | 190 | 150 | 240 | 330 | 18 |
| 200 | 400 | 460 | 460 | 245 | 200 | 360 | 430 | 22 |
| 250 | 490 | 550 | 500 | 285 | 250 | 400 | 520 | 34 |
| 315 | 490 | 550 | 500 | 350 | 315 | 400 | 520 | 41 |
| 400 | 590 | 650 | 680 | 440 | 400 | 580 | 620 | 52 |
| 450 | 730 | 790 | 850 | 500 | 450* | 650 | 760 | 72 |

* eDF450 = 450 SQ. DUCT with 20mm MEZ Flange

Can be installed in any orientation - Bottom Access



Weather proofed version for external mounting available: eDFW includes pitch roof and IP67 isolator

eDF Series 230V/1ph/50Hz Electrical & Technical Data

| Size | Nominal Air-flow (l/s) | Max. current (Amps). | Input @ 150Pa. | Unit SFP @ 150Pa. | Unit SFP @ 100Pa. | Unit SFP @ 50Pa. | Max. Ambient deg. C. | Protection Class |
|------|------------------------|----------------------|----------------|-------------------|-------------------|------------------|----------------------|------------------|
| 150 | 60 | 0.26 | 26 | 0.4 | 0.36 | 0.26 | 60 | IP54 |
| 200 | 175 | 0.7 | 78 | 0.45 | 0.38 | 0.33 | 60 | IP54 |
| 250 | 210 | 0.6 | 75 | 0.36 | 0.29 | 0.2 | 60 | IP54 |
| 315 | 260 | 0.9 | 108 | 0.4 | 0.35 | 0.29 | 60 | IP54 |
| 400 | 500 | 1.1 | 160 | 0.3 | 0.26 | 0.2 | 60 | IP54 |
| 450 | 800 | 1.1 | 247 | 0.3 | 0.25 | 0.2 | 60 | IP54 |

eDF Series Sound Power Levels (Lw) In Duct (dB ref. 10⁻¹² W)

| Size | 63Hz | 125Hz | 250Hz | 500Hz | 1kHz | 2kHz | 4kHz | 8kHz |
|------|------|-------|-------|-------|------|------|------|------|
| 150 | 58 | 54 | 54 | 54 | 53 | 54 | 52 | 47 |
| 200 | 54 | 57 | 60 | 61 | 60 | 60 | 56 | 54 |
| 250 | 55 | 57 | 61 | 59 | 57 | 54 | 51 | 46 |
| 315 | 64 | 61 | 64 | 63 | 62 | 60 | 57 | 54 |
| 400 | 59 | 62 | 64 | 63 | 60 | 56 | 55 | 50 |
| 450 | 59 | 65 | 59 | 61 | 56 | 55 | 50 | 42 |

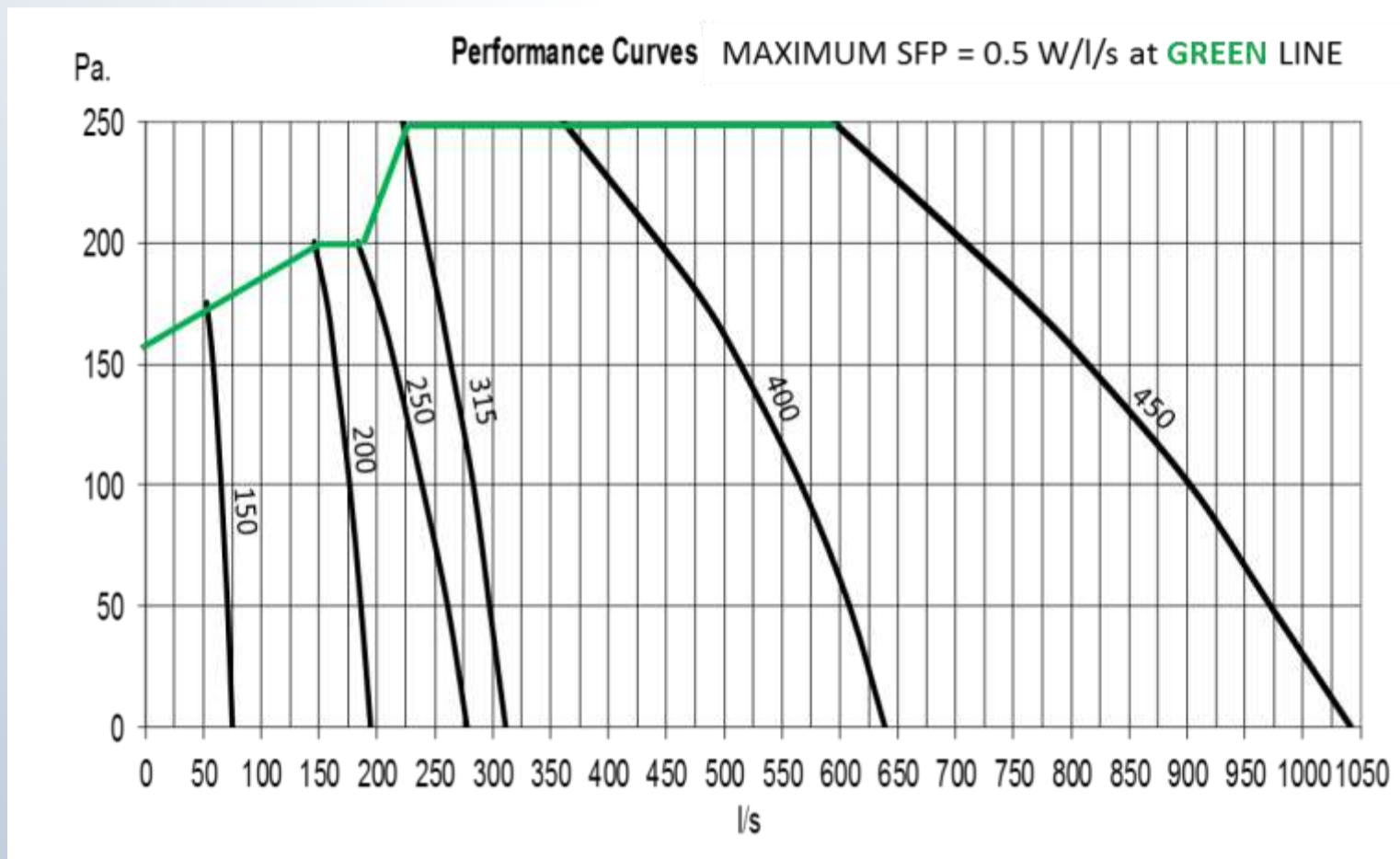
| eDF Series Sound Pressure Levels (Lp) Casing (dBA @ 3m) |
|---|
| 21 |
| 29 |
| 23 |
| 31 |
| 29 |
| 27 |



eTF SERIES TWIN ACOUSTIC FANS

The eTF range of ducted extract fans offer duties up to 900 l/s installed performance.

Suitable for commercial applications, fans in this series are ERP compliant with <0.5 W/l/s SFP as required in the Non-Domestic Building Services Directive 2013 on all parts of the fan curves selected below the green line. Manufactured from high quality galvanized sheet steel, fitted with acoustic non-hygroscopic foam and non-overloading 100,000 hour long life, low energy EC fans.



eTF Series Airflow Rates (l/s)

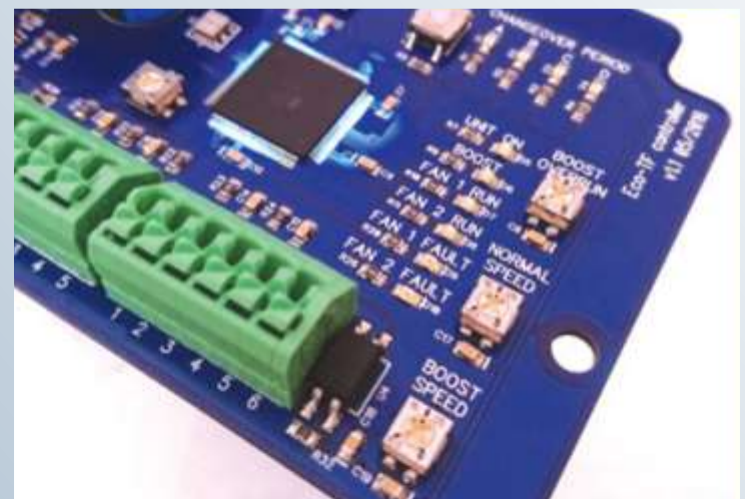
| Size | External Static Pressure (Pa) | | | | | |
|------|-------------------------------|-----|-----|-----|-----|-----|
| | 0 | 50 | 100 | 150 | 200 | 250 |
| 150 | 75 | 70 | 65 | 58 | 50 | - |
| 200 | 208 | 200 | 192 | 181 | 166 | 150 |
| 250 | 275 | 260 | 235 | 208 | 183 | 146 |
| 315 | 311 | 297 | 283 | 264 | 254 | 224 |
| 400 | 637 | 606 | 556 | 513 | 450 | 375 |
| 450 | 1000 | 944 | 861 | 778 | 694 | 639 |

- Fully compliant with Non-Domestic Building Services Directive 2013
- 100,000 hour long life EC fans
- Ultra low profile design
- Made in the UK

ECO-TF

Combined Auto Changeover & Speed Controller

For use in commercial applications, the optional ECO-SF controller allows trickle & boost options with speed adjustment, enable/disable from BMS/VFC time-switch and fan fault output.



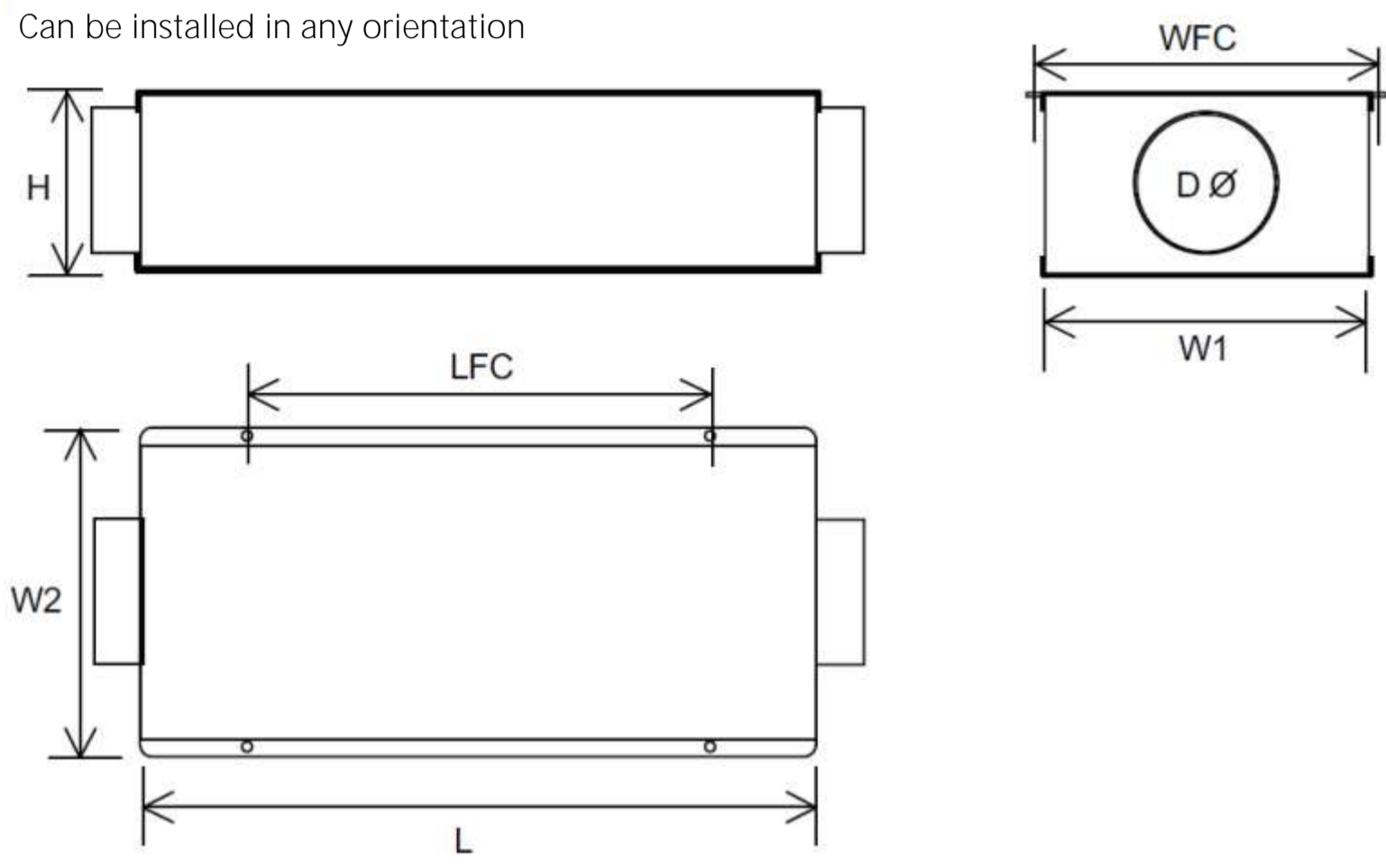
eTF SERIES TWIN ACOUSTIC FANS

eTF Series Dimensions: (mm)

| Size | W1 | W2 | L | H | DØ | LFC | WFC | (kg) |
|------|-----|-----|------|-----|------|------|-----|------|
| 150 | 335 | 395 | 700 | 190 | 150 | 500 | 365 | 28 |
| 200 | 490 | 550 | 950 | 240 | 200 | 700 | 520 | 43 |
| 250 | 550 | 610 | 1170 | 300 | 250 | 900 | 580 | 54 |
| 315 | 550 | 610 | 1170 | 350 | 315 | 900 | 580 | 60 |
| 400 | 710 | 770 | 1440 | 440 | 400 | 1040 | 740 | 88 |
| 450 | 860 | 960 | 1800 | 550 | 450* | 1400 | 890 | 116 |

* eTF450 – 450 SQ. Duct with 20mm MEZ Flange

Can be installed in any orientation



eTF Series 230V/1ph/50Hz Electrical & Technical Data

| Size | Nominal Air-flow (l/s) | Max. current (Amps). | Input @ 150Pa. | Unit SFP @ 150Pa. | Unit SFP @ 100Pa. | Unit SFP @ 50Pa. | Max. Ambient deg. C. | Protection Class |
|------|------------------------|----------------------|----------------|-------------------|-------------------|------------------|----------------------|------------------|
| 150 | 60 | 0.26 | 26 | 0.4 | 0.36 | 0.26 | 60 | IP54 |
| 200 | 175 | 0.7 | 78 | 0.45 | 0.38 | 0.33 | 60 | IP54 |
| 250 | 210 | 0.6 | 75 | 0.36 | 0.29 | 0.2 | 60 | IP54 |
| 315 | 260 | 0.9 | 108 | 0.4 | 0.35 | 0.29 | 60 | IP54 |
| 400 | 500 | 1.1 | 160 | 0.3 | 0.26 | 0.2 | 60 | IP54 |
| 450 | 800 | 1.1 | 247 | 0.3 | 0.25 | 0.2 | 60 | IP54 |

eTF Series Sound Power Levels (Lw) In Duct (dB ref. 10⁻¹² W)

| Size | 63Hz | 125Hz | 250Hz | 500Hz | 1kHz | 2kHz | 4kHz | 8kHz |
|------|------|-------|-------|-------|------|------|------|------|
| 150 | 58 | 54 | 54 | 54 | 53 | 54 | 52 | 47 |
| 200 | 54 | 57 | 60 | 61 | 60 | 60 | 56 | 54 |
| 250 | 55 | 57 | 61 | 59 | 57 | 54 | 51 | 46 |
| 315 | 64 | 61 | 64 | 63 | 62 | 60 | 57 | 54 |
| 400 | 59 | 62 | 64 | 63 | 60 | 56 | 55 | 50 |
| 450 | 59 | 65 | 59 | 61 | 56 | 55 | 50 | 42 |

eTF Series Sound Pressure Levels (Lp) Casing (dBA @ 3m)

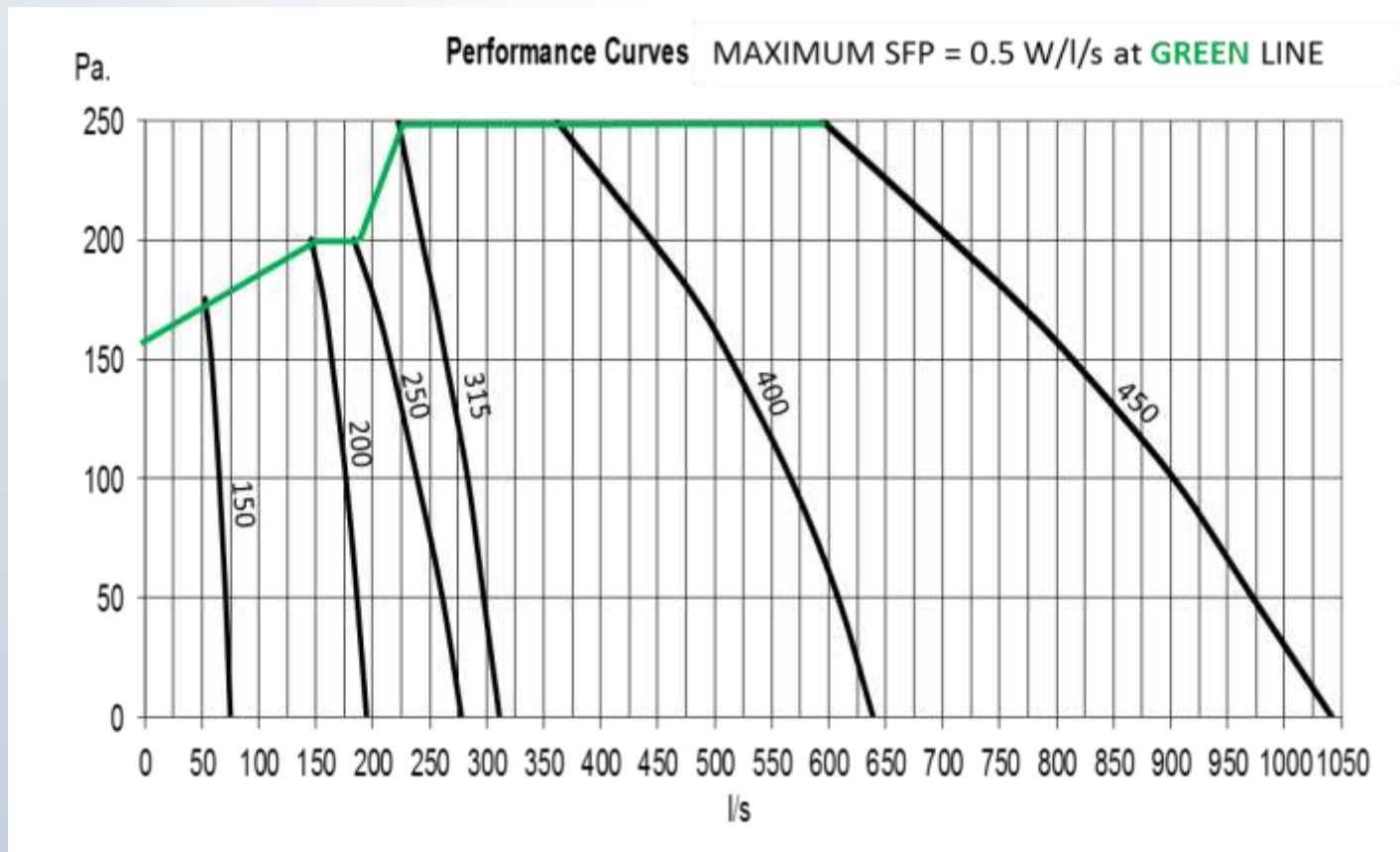
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eRTF SERIES ROOF MOUNTED TWIN ACOUSTIC FANS

The eRTF range of compact roof twin extract fans offer duties up to 900 l/s installed performance.

Suitable for commercial applications, fans in this series are ERP compliant with <math><0.5\text{ W/l/s}</math> SFP as required in the Non-Domestic Building Services Directive 2013 on all parts of the fan curves selected below the green line. The eRTF twin fans are available as either bottom square inlet or rear circular spigot inlet. Manufactured from high quality powder coated galvanized sheet steel (RAL 7015 grey), fitted with acoustic non-hygroscopic foam and non-overloading 100,000 hour long life, low energy EC fans.



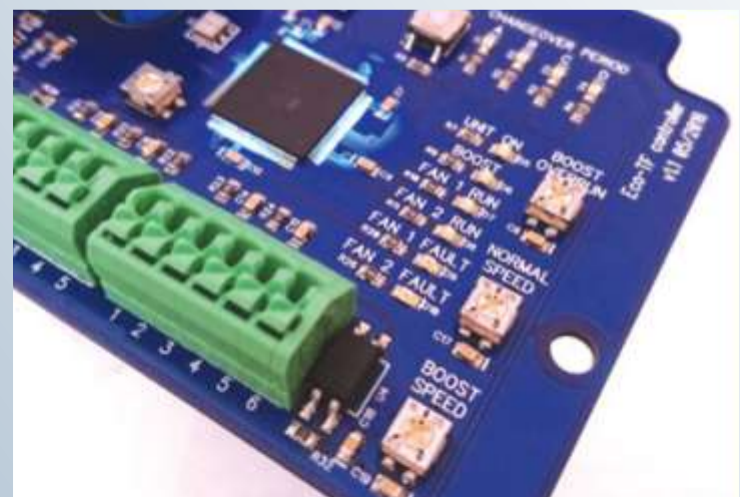
| eRTF Series Airflow Rate (l/s) | | | | | | |
|--------------------------------|-------------------------------|-----|-----|-----|-----|-----|
| Size | External Static Pressure (Pa) | | | | | |
| | 0 | 50 | 100 | 150 | 200 | 250 |
| 150 | 75 | 70 | 65 | 58 | 50 | - |
| 200 | 208 | 200 | 192 | 181 | 166 | 150 |
| 250 | 275 | 260 | 235 | 208 | 183 | 146 |
| 315 | 311 | 297 | 283 | 264 | 254 | 224 |
| 400 | 637 | 606 | 556 | 513 | 450 | 375 |
| 450 | 1000 | 944 | 861 | 778 | 694 | 639 |

- Fully compliant with Non-Domestic Building Services Directive 2013
- 100,000 hour long life EC fans
- ERP2015 Compliant
- Compact design

ECO-TF

Combined Auto Changeover & Speed Controller

For use in commercial applications, the optional ECO-TF controller allows trickle & boost options with speed adjustment, enable/disable from BMS/VFC time-switch and fan fault output. Mounted in an IP rated enclosure complete with IP67 isolator.

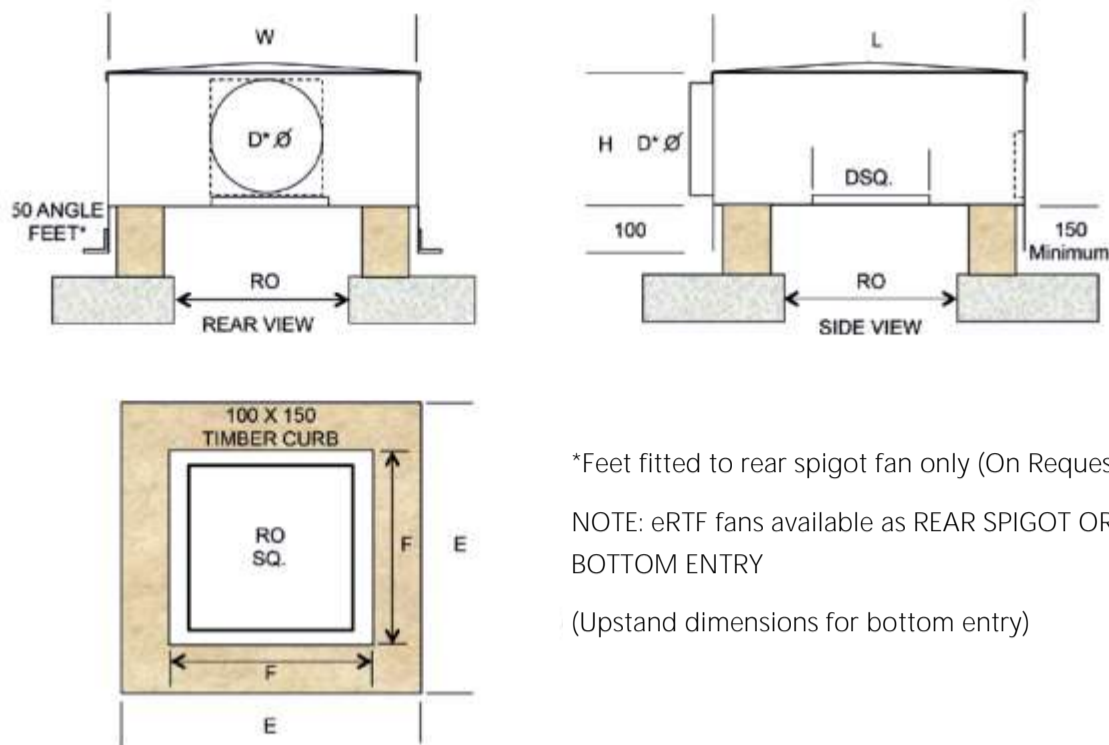


Eco-TF Controller



eRTF SERIES ROOF MOUNTED TWIN ACOUSTIC FANS

Dimensions:



*Feet fitted to rear spigot fan only (On Request)

NOTE: eRTF fans available as REAR SPIGOT OR BOTTOM ENTRY

(Upstand dimensions for bottom entry)



eRTF Series

eRTF Series Dimensions (mm) & Weight (kg)

| Size | W | L | H | DØ | D SQ | E | F | RO | (kg) |
|------|------|------|-----|-----|------|------|-----|-----|------|
| 150 | 450 | 450 | 200 | 150 | 150 | 400 | 200 | 200 | 26 |
| 200 | 640 | 640 | 300 | 200 | 200 | 590 | 390 | 250 | 35 |
| 250 | 640 | 640 | 300 | 250 | 250 | 590 | 390 | 300 | 48 |
| 315 | 640 | 640 | 380 | 315 | 315 | 590 | 390 | 350 | 52 |
| 400 | 850 | 850 | 460 | 400 | 400 | 800 | 600 | 450 | 77 |
| 450 | 1050 | 1050 | 600 | 450 | 450* | 1000 | 800 | 500 | 111 |

* ERTF450 - 450 SQ. DUCT with 20mm MEZ Flange

eRTF Series 230V/1ph/50Hz Electrical & Technical Data

| Size | Nominal Air-flow (l/s) | Max. current (Amps). | Input @ 150Pa. | Unit SFP @ 150Pa. | Unit SFP @ 100Pa. | Unit SFP @ 50Pa. | Max. Ambient deg. C. | Protection Class |
|------|------------------------|----------------------|----------------|-------------------|-------------------|------------------|----------------------|------------------|
| 150 | 60 | 0.26 | 26 | 0.4 | 0.36 | 0.26 | 60 | IP54 |
| 200 | 175 | 0.7 | 78 | 0.45 | 0.38 | 0.33 | 60 | IP54 |
| 250 | 210 | 0.6 | 75 | 0.36 | 0.29 | 0.2 | 60 | IP54 |
| 315 | 260 | 0.9 | 108 | 0.4 | 0.35 | 0.29 | 60 | IP54 |
| 400 | 500 | 1.1 | 160 | 0.3 | 0.26 | 0.2 | 60 | IP54 |
| 450 | 800 | 1.1 | 247 | 0.3 | 0.25 | 0.2 | 60 | IP54 |

eRTF Series Sound Power Levels (Lw) In Duct (dB ref. 10⁻¹² W)

| Model | 63Hz | 125Hz | 250Hz | 500Hz | 1kHz | 2kHz | 4kHz | 8kHz |
|-------|------|-------|-------|-------|------|------|------|------|
| 150 | 58 | 54 | 54 | 54 | 53 | 54 | 52 | 47 |
| 200 | 54 | 57 | 60 | 61 | 60 | 60 | 56 | 54 |
| 250 | 55 | 57 | 61 | 59 | 57 | 54 | 51 | 46 |
| 315 | 64 | 61 | 64 | 63 | 62 | 60 | 57 | 54 |
| 400 | 59 | 62 | 64 | 63 | 60 | 56 | 55 | 50 |
| 450 | 59 | 65 | 59 | 61 | 56 | 55 | 50 | 42 |

eRTF Series Sound Pressure Levels (Lp) Casing (dBA @ 3m)

| |
|----|
| 21 |
| 29 |
| 23 |
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| 27 |





Service Support

Dunham-Bush offers a range of services from installation and commissioning to aftercare and routine maintenance to suit all your needs. Our Service Team has a wide range of experience and knowledge of all refrigeration equipment, which includes split A/C VRV or VRF air and water cooled chillers and heat pumps. Continued support and regular maintenance will help prevent any down time of your equipment. All our engineers are fully trained and hold current Skill Cards and F-Gas qualifications.

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Fax. 023 9245 3601
Email: info@dunham-bush.co.uk
www.dunham-bush.co.uk



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Made in GB



Dunham-Bush reserves the right to change any specification without notice.

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OCTOBER 2019