

Duplexvent MULTI-Eco

Heat Recovery Ventilation



2016 / 2018

KEY FEATURES

- Heat recovery ventilation
- 100% customisation
- 93% thermal efficiency
- Optimised range with more efficient fans
- Automatic 100% bypass
- Built-in heating / cooling coils
- Integrated web server enables to control the unit via internet
- BMS connection (Modbus as a standard, optional BACnet or KNX)
- VAV control compatibility
- 2 year warranty +

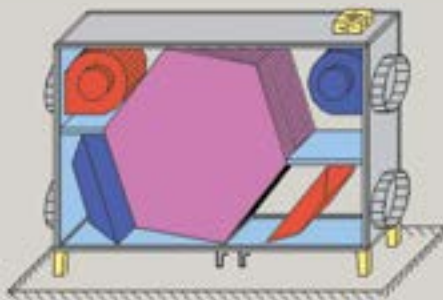
Duplexvent MULTI-Eco

As a ventilation specialist we aim to provide ventilation solutions for commercial applications thanks to our broad range of Commercial Heat Recovery units in excess of 16,000 m³/hr air volume with the availability of indoor and outdoor versions.

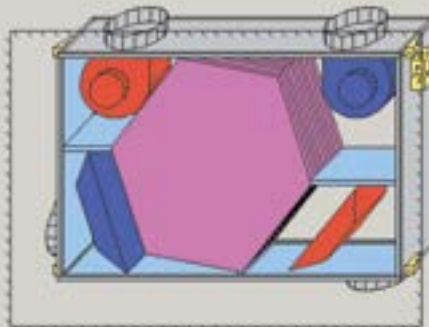
To offer you the greatest choice in meeting your commercial ventilation needs, we have expanded our Multi line to include the Multi-Eco line of energy efficient units, which still match your specification in terms of installation flexibility, performance and quality by meeting the high air volume requirements for commercial and large industrial spaces

+ excludes motors. Motor warranty one year from date of purchase.

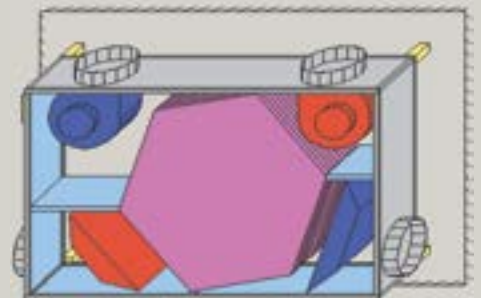
MULTI-Eco LINE UNIT CONFIGURATIONS



Horizontal
(Maintenance access from the side)



Ceiling suspended
(Maintenance access from the bottom)



Floor standing
(Maintenance access from the top)



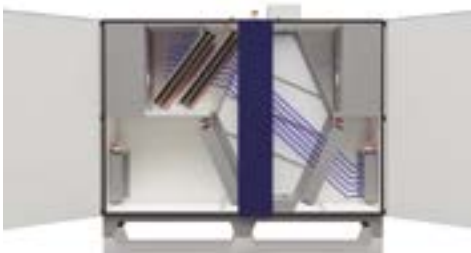


100% CUSTOMISATION AND SHORT DELIVERY TIME

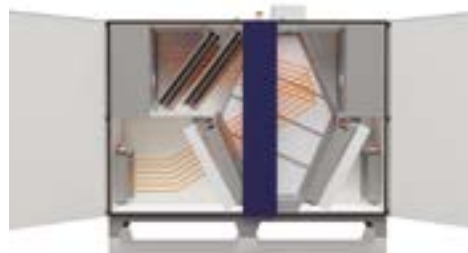
Multi-Eco Line MVHR units follow the business philosophy of multiple variability. Designers can easily modify unit positions, spigot connections, filters, integral heating/cooling coils, bypass and circulation dampers using the selection software which accelerates the specification

process and helps meet stringent project requirements.

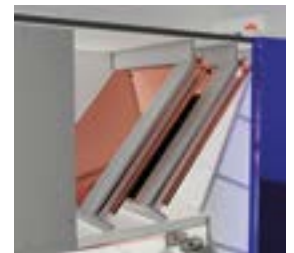
Despite the full customisation Multi-Eco Line units are delivered in a period of **4-6 weeks** to meet tight project deadlines.



100% Bypass facility delivers cool, fresh and filtered air

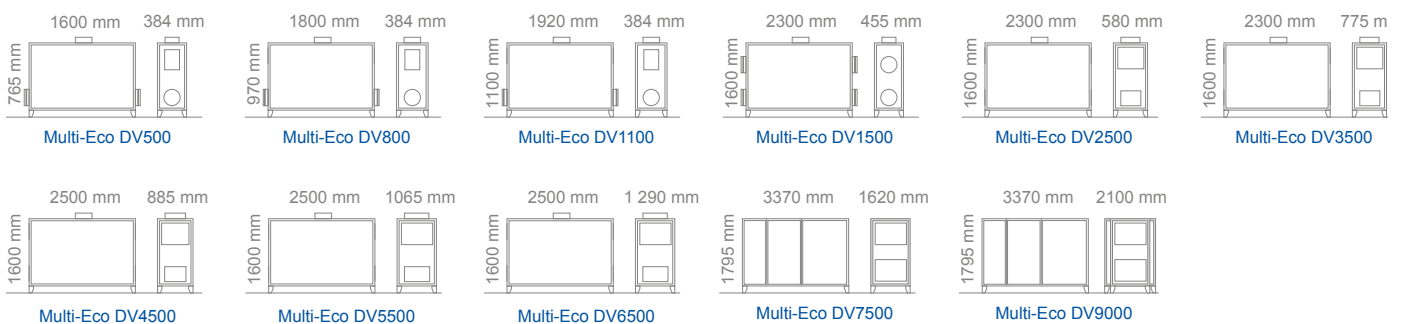


Circulation damper helps regulate indoor temperature / humidity conditions



Built-in water / DX coils extra heating / cooling

DUPLEXVENT MULTI-Eco SIZE RANGE



Duplexvent MULTI-Eco

New improved Multi-Eco Line Customised
Indoor - Up to 11500m³/hr air volume



2016 / 2018

KEY FEATURES

- Fully customised commercial units in 11 different sizes up to 11100 m³/hr at 200 Pa
- Digital Touchscreen or simple manual controller
- Low noise, refer to NR35 and BB93 standards
- Excellent thermal insulation (class T2, TB1)
- G4, M5 or F7 filters available
- Optional circulation damper
- Optional constant flow and constant pressure mode
- BREEAM and ErP 2016 / 2018 compliant
- Meets Building Regulations Part L2A and L2B

PERFORMANCE

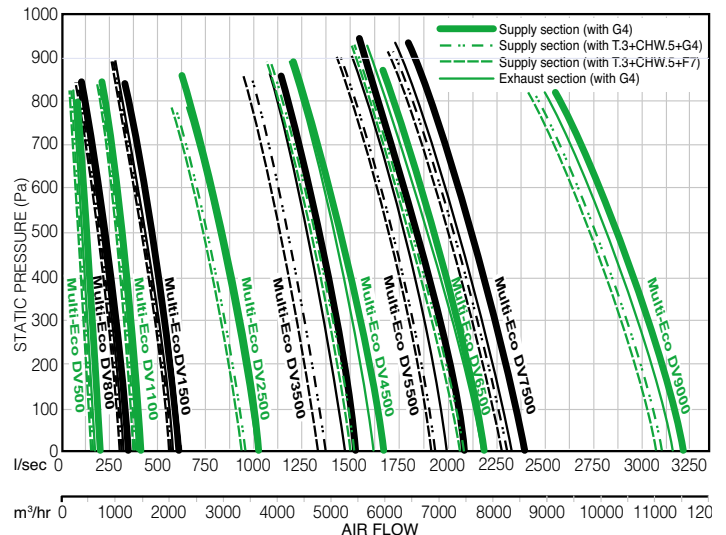
| Duplexvent Multi-Eco | | DV500 | DV800 | DV1100 | DV1500 | DV2500 | DV3500 | DV4500 | DV5500 | DV6500 | DV7500 | DV9000 | |
|--|----------------------------|-------------------------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--|
| Supply air - max. ¹ | m ³ /hr / l/sec | 660 / 183 | 1200 / 333 | 1300 / 361 | 2200 / 611 | 3600 / 1000 | 5500 / 1528 | 5800 / 1611 | 7500 / 2083 | 7800 / 2167 | 8600 / 2389 | 11500 / 3194 | |
| Extraction air - max. ¹ | m ³ /hr / l/sec | 670 / 186 | 1150 / 319 | 1250 / 347 | 1800 / 500 | 3550 / 986 | 5300 / 1472 | 5600 / 1556 | 7100 / 1972 | 7700 / 2139 | 8300 / 2306 | 11300 / 3139 | |
| Heat recovery efficiency ² | % | up to 93% | | | | | | | | | | | |
| Fan type | | EC (backward curved impeller) | | | | | | | | | | | |
| Weight ³ | kg | 80-110 | 95-130 | 120-170 | 200-280 | 290-370 | 350-430 | 370-450 | 480-560 | 580-670 | 1120-1250 | 1210-1350 | |
| Max power input | kW | 0.3 | 0.7 | 0.8 | 1.2 | 2.6 | 4.5 | 5.2 | 6.6 | 6.6 | 6.6 | 8.9 | |
| Voltage | V | 230 | | | | | | 400 | | | | | |
| Frequency | Hz | 50 | | | | | | | | | | | |
| RPM - max. | min ⁻¹ | 4300 | 3350 | 3350 | 2920 | 3000 | 2980 | 2980 | 2700 | 2700 | 2700 | 2570 | |
| Heating output T - max. ⁴ | kW | 5 | 14 | 16 | 22 | 30 | 42 | 51 | 71 | 80 | 85 | 90 | |
| Cooling output CHW - max. ⁴ | kW | 4 | 8 | 10 | 16 | 22 | 30 | 42 | 56 | 62 | 67 | 72 | |
| Cooling output CHF - max. ⁴ | kW | 3 | 6 | 8 | 10 | 13 | 25 | 37 | 41 | 50 | 55 | 60 | |
| Part No. | | 90000790 | 90000791 | 90000792 | 90000793 | 90000794 | 90000795 | 90000796 | 90000797 | 90000798 | 90000799 | 90000800 | |

1. Maximum flow rate at zero external pressure
2. According to air volume
3. Depending on equipment
4. Depending on register type, liquid and flow rates

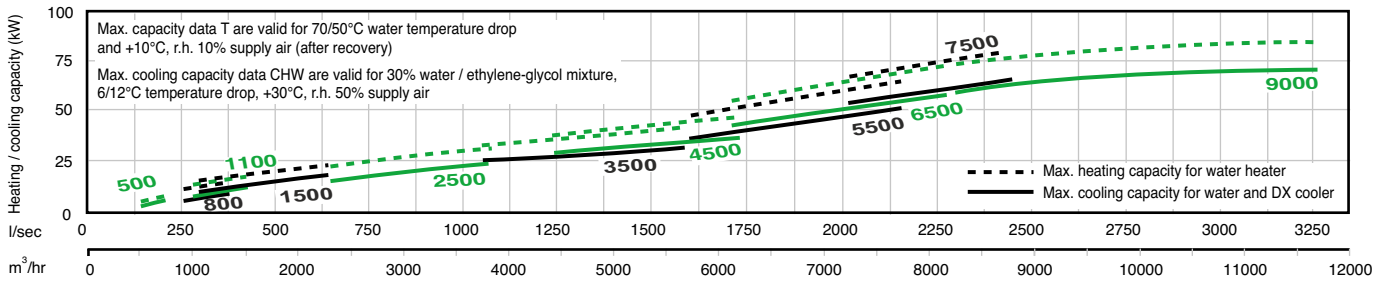
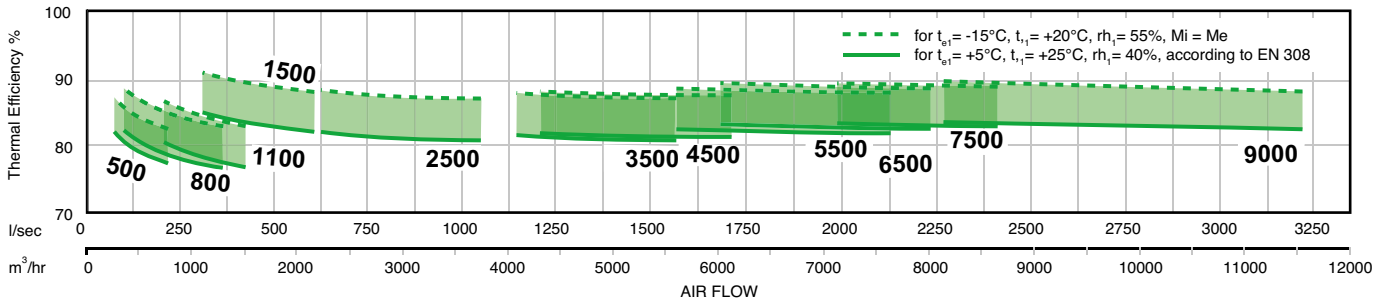
T - Water heating coil
CHW - Water cooling coil
CHF - DX (direct evaporator) coil

ACOUSTIC POWER L_w AND PRESSURE PL_{D3}

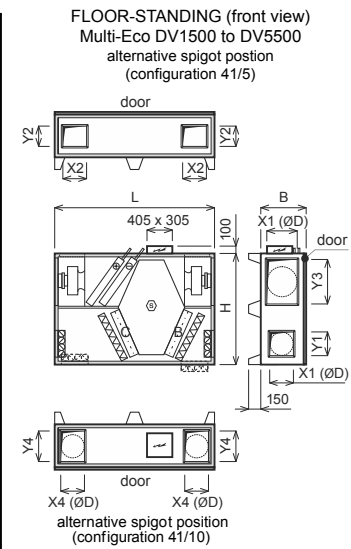
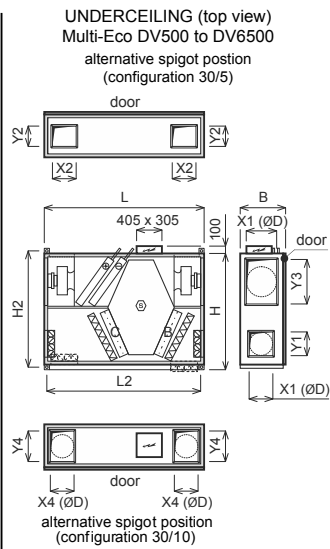
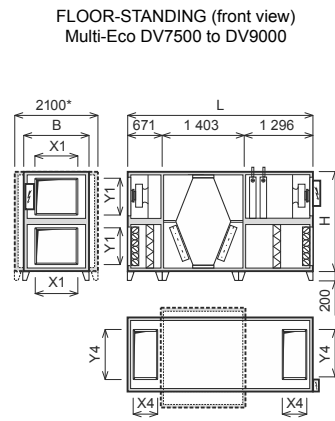
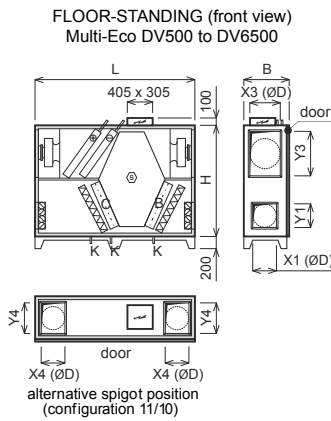
| Type | Working point | Acoustic power L _w [dB(A)] | | | | | Acoustic pressure L _{D3} [dB(A)] at 3 m |
|-----------------------------|---------------------------------|---------------------------------------|----------------------|----------------------|----------------------|------|--|
| | | Inlet e ₁ | Inlet i ₁ | Inlet e ₂ | Inlet i ₂ | unit | |
| Duplexvent Multi Eco DV500 | 500m ³ /hr (200 Pa) | 53 | 66 | 80 | 82 | 59 | 38 |
| Duplexvent Multi Eco DV800 | 800m ³ /hr (200 Pa) | 64 | 65 | 81 | 79 | 58 | 38 |
| Duplexvent Multi Eco DV1100 | 1000m ³ /hr (200 Pa) | 56 | 58 | 80 | 80 | 65 | 44 |
| Duplexvent Multi Eco DV1500 | 1500m ³ /hr (200 Pa) | 61 | 61 | 86 | 86 | 64 | 43 |
| Duplexvent Multi Eco DV2500 | 2500m ³ /hr (200 Pa) | 59 | 55 | 79 | 79 | 70 | 49 |
| Duplexvent Multi Eco DV3500 | 3500m ³ /hr (200 Pa) | 64 | 62 | 90 | 90 | 70 | 50 |
| Duplexvent Multi Eco DV4500 | 4500m ³ /hr (200 Pa) | 67 | 67 | 92 | 91 | 76 | 55 |
| Duplexvent Multi Eco DV5500 | 5500m ³ /hr (200 Pa) | 69 | 68 | 97 | 95 | 66 | 45 |
| Duplexvent Multi Eco DV6500 | 6000m ³ /hr (200 Pa) | 72 | 72 | 96 | 88 | 75 | 55 |
| Duplexvent Multi Eco DV7500 | 7500m ³ /hr (200 Pa) | 65 | 69 | 91 | 92 | 72 | 51 |
| Duplexvent Multi Eco DV9000 | 8500m ³ /hr (200 Pa) | 67 | 66 | 97 | 97 | 76 | 46 |



PERFORMANCE



DIMENSIONS



*Only for Duplexvent Multi-Eco DV9000

| Duplexvent Multi-Eco | | DV500 | DV800 | DV1100 | DV1500 | DV2500 | DV3500 | DV4500 | DV5500 | DV6500 | DV7500 | DV9000 | |
|---|----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------------|------------|------------|--|
| Dimension H | mm | 765 | 970 | 1100 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1795 | 1795 | |
| Dimension H2 | mm | 715 | 920 | 1050 | 1650 | 1650 | 1650 | 1650 | 1650 | - | - | - | |
| Dimension B | mm | 384 | 384 | 384 | 455 | 580 | 775 | 885 | 1065 | 1295 / 1390 | 1620 | 1620 | |
| Length L | mm | 1600 | 1800 | 1920 | 2300 | 2300 | 2300 | 2500 | 2500 | 2500 | 3370 | 3370 | |
| Length L2 | mm | 1652 | 1852 | 1972 | 2270 | 2270 | 2270 | 2470 | 2470 | 2368 | - | - | |
| Condensate drain | mm | Ø22 | | | | | | Ø32 | | | | | |
| Connecting Ports | | | | | | | | | | | | | |
| Dimension X1 x Y1 (standard e₁, i₁), D | mm | Ø200 | Ø250 | Ø250 | Ø315 | 300 x 400 | 400 x 400 | 500 x 500 | 500 x 500 | 700 x 500 | 900 x 710 | 900 x 710 | |
| Dimension X2 x Y2 (atypical e₁, i₁), D | mm | Ø200 | Ø250 | Ø250 | 400 x 200 | 300 x 400 | 400 x 400 | 500 x 500 | 500 x 500 | 500 x 700 | - | - | |
| Dimension X3 x Y3 (standard e₂, i₂) | mm | 200 x 250 | 200 x 350 | 200 x 350 | Ø315 | 450 x 710 | 500 x 710 | 710 x 710 | 900 x 710 | 900 x 710 | - | - | |
| Dimension X4 x Y4 (atypical e₂, i₂) | mm | - | - | - | - | 250 x 355 | 250 x 400 | 355 x 630 | 355 x 800 | 355 x 900 | 400 x 1200 | 400 x 1200 | |

*For Duplexvent Multi-Eco DV6500 in configuration 30/X

Call: 01494 560800 **Visit: airflow.com**



Airflow Developments Limited
Aidelle House, Lancaster Road,
Cressex Business Park,
High Wycombe, Buckinghamshire,
United Kingdom, HP12 3QP

E-mail: info@airflow.com
Telephone: +44 (0) 1494 525252

airflow.com

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