Ventilation with Heat Recovery
Commercial applications
Ventilation with Heat Recovery

Commercial

Duplexvent Commercial Heat Recovery units are designed for saving energy and also improving indoor air quality. These units provide ventilation with heat recovery for commercial and industrial areas by using highly efficient polypropylene exchangers, recovering heat from air to air. The heat is effectively transferred from warm to cold air by the exchangers with high conductivity and performance.

Using these heat recovery units also helps the building to be assessed for the BREEAM (BRE Environmental Assessment Method) standard that is the leading and most widely used environmental assessment method for new buildings. Setting the standard for best practice in sustainable design it has become the de facto measure used to describe a building’s environmental performance.

Available in four sizes, Duplexvent Flexi Line units meet the ventilation requirements of modern and energy saving buildings as they achieve the highest thermal efficiency (up to 93%) and are the first Passive House Institute certified Commercial MVHR units in the U.K.

Extra benefits include low energy, low noise EC fans, internet connection with smart phone application, BMS connection (ModBus TCP/IP), automatic frost protection and 100% bypass facility.

Unique to the Duplexvent Flexi Line is the ability to install the same unit either on the floor or under the ceiling which provides exceptional flexibility for designers in the specification phase. Similarly HVAC distributors benefit from a range of “off the shelf” air handling units which can be quickly adapted to fit on-site.

Duplexvent Multi, Multi-V and Multi-N Line heat recovery units are used for comfort ventilation, as well as warm-air heating and cooling of small office areas, shops, retail facilities, school buildings, restaurants, sport centres, industrial halls and swimming pools.

Available in 72 different mounting versions and indoor/outdoor installation options, all units are fully customised according to the project specification and incorporate a highly efficient counter-cross flow plate heat exchanger achieving a thermal efficiency of 93%. Multi-V version enables duct connection from the top of the unit.

Extra benefits include low energy, low noise EC fans, internet connection with smart phone application, BMS connection (ModBus, KNX, BACnet), automatic frost protection, built-in heating/cooling coils, air circulation and 100% bypass facility.

Despite the full customisation Multi / Multi-V / Multi-N Line units can be delivered in a period of 4-6 week lead time or earlier to meet tight project deadlines.

The Duplexvent Multi eco, Multi eco-V and Multi eco-N range of commercial heat recovery units provide outstanding ventilation and thermal efficiency with leading energy efficiency, making the range one of the most environmentally friendly systems available.

The Multi-eco range offers the same level of functionality that you expect from a Multi MVHR unit with; up to 93% heat recovery, internet and BMS connectivity and can be easily customised to your circumstances whilst only consuming as little as 300W.

Duplexvent Rotary and Rotary-N Heat Recovery units use the rotary wheel principle to recover heat that would otherwise be extracted to atmosphere.

The narrow, rotating heat exchanger delivers up to 85% thermal efficiency and using low energy, controllable EC motors is economical to operate.

Modular or compact in design the equipment is easily installed in commercial, civic and retail applications.

DUPLEXVENT FLEXI

DUPLEXVENT MULTI / MULTI-V / MULTI-N

DUPLEXVENT ROTARY / ROTARY-N

DUPLEXVENT MULTI eco / MULTI eco-V / MULTI eco-N
Duplexvent Flexi
Heat Recovery Ventilation

**KEY FEATURES**
- Heat recovery ventilation
- 93% thermal efficiency
- Low energy EC fans
- Versatile unit positioning
- Automatic, 100% bypass
- 100% adjustable digital controller with internet and BMS connection
- Off the shelf delivery
- Passive House Institute certified
- 2 year warranty +

Unique to the Duplexvent Flexi Line is the ability to position the unit on the floor or in a ceiling suspended position. Also this universal design allows the unit to be installed as either a left or right hand version.

This provides exceptional flexibility for designers in the specification phase and gives contractors the opportunity to locate the unit in the optimum position. Similarly HVAC distributors benefit from a range of "off the shelf" air handling units which can be quickly adapted to fit on-site. No more bespoke orders with long lead times!

Optional water / DX heating and cooling coils help maintain optimum indoor conditions

Versatile unit positioning enables right or left hand configuration on the same unit

Interchangeable spigot design allows the spigot connections to be changed on-site (DV1600)

**WHOLE LIFE COST SAVINGS**

Building Operators and Asset Managers will appreciate the Flexi Line’s innovative built-in internet connection with User and Service interface which allows service technicians to connect to the unit from a remote location.

By continuously checking the operating status, diagnosing any faults and instructing the user what to do immediately, results in saving onsite call outs, preventive service and down-time to both technician and client.

This unique feature minimises the service process as well as creating a secondary control display for the user.

**UPGRADE PACKS**

1. **Passive House Pack**
   - Electric pre-heater to warm the incoming air to protect the heat exchangers from freezing

2. **Constant Pressure Pack**
   - Differential pressure and flow measurement for energy optimisation

3. **Hygiene Pack**
   - Inclined tube manometers to maintain the certified hygiene standard VDI 6022

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

The indoor climate is of the utmost importance as most of us spend the greater part of our lives indoors. To ensure comfort and a sense of well-being, the air we breathe must be clean, and also be at the right temperature and humidity level. To most people, this is so self-evident that they do not give it a second thought.

Whatever the situation, Mechanical Ventilation with Heat Recovery (MVHR) solutions from Airflow can play a significant role because they help create a healthier living and working environment, while contributing to the reduction of a building’s carbon emissions and energy usage.
Duplexvent Flexi
Heat Recovery Ventilation

**KEY COMPONENTS**

Models available:
DV1100, DV1600, DV2600 and DV3600

- **100% Summer Bypass Facility**
  - For ceiling - suspended installations on inside of door
  - Provides a flow of cool, fresh and filtered air into the property installation

- **Digital Control Box**
  - With internet and BMS connections

- **Safety Switch**
  - To shut off the power in case of emergency

- **Condensate Drain**
  - For floor standing installations
  - DV1600 only

- **Interchangeable Spigot Connections**
  - Simplify on-site installation

- **M5 / F7 High Grade Filters**
  - Provide ultra hygienic indoor climate and protect heat exchangers from getting dirty

- **Smooth Internal Casing**
  - With 30mm insulation avoids thermal bridging, absorbs noise and meets sanitary standards

- **Cross-Counter Flow Heat Exchangers**
  - Up to 93% thermal efficiency

- **Condensate Drain**
  - For floor standing installations

- **Temperature Sensors**
  - For fully automatic operation of the summer bypass, frost protection and heater / cooler facilities

- **Lockable Large Access Doors**
  - Simplify and accelerate the maintenance process

- **Remote control via smart phone or laptop ensures control flexibility and reduces service costs**

- **Round Sipgots**
  - DV1100 / DV1600

- **Rectangular Sipgots**
  - DV2600 / DV3600

- **External options**
  - Heater / cooler bolted to the unit

- **Low energy, Maintenance Free EC Fan Technology**
  - Ensures long term savings on operating costs

- **Pressure Sensors**
  - For filter monitoring

- **Temperature Sensors**
  - For fully automatic operation of the summer bypass, frost protection and heater / cooler facilities

- **DV1600 only**

- **DV1100 only**

- **DV2600 / DV3600**

- **DV1600 only**

- **DV1100 only**

- **All Duplexvent Flexi units are supplied with lockable doors**
**Flexi Line Side Entry - Up to 1250 m³/hr air volume**

**KEY FEATURES**
- Air volume up to 1100 m³/hr @ 200 Pa
- Excellent heat recovery efficiency, up to 92%
- Versatile unit positioning with floor and ceiling suspended mounting options
- Low SFP with energy saving EC fans
- Low noise, refer to NR35 and BB93 standards
- 100% adjustable digital controller with internet and BMS connection
- BREEAM, Passive House and ErP 2016 / 2018 compliant
- 2 year warranty +

**PERFORMANCE**

<table>
<thead>
<tr>
<th>Temperature at outlet</th>
<th>Extract Air</th>
<th>Supply Air</th>
</tr>
</thead>
<tbody>
<tr>
<td>°C</td>
<td>26</td>
<td>22</td>
</tr>
</tbody>
</table>

**Sound Pressure Level**

- Sound Pressure Level Ld dB (A)
  - 63
  - 125
  - 250
  - 500
  - 1 k
  - 2 k
  - 4 k
  - 8 k

- Breakout noise
  - 51
  - 70
  - 55
  - 57
  - 44
  - 40
  - 33
  - 27
  - 25

**Sound Pressure Level Ltd**

- To the surrounding
  - 21
  - 49
  - 35
  - 37
  - 25
  - 25
  - 25
  - 25

Sound pressure level is measured at 3m distance

**Connectivity**

- Passive House Institute CERTIFIED
- Compliant to EN 13845
- European Efficiency Label (ErP) A++/A+
- Digital interface
- Microcontroller
- 100% adjustable digital controller with internet and BMS connection
- BREEAM, Passive House and ErP 2016 / 2018 compliant
- 2 year warranty +

**Dimensions**

- Weight = 226kg
- Casing strength E2
- Connections EC, EC

**Accessories**

- See Duplexvent accessories pages for more details.

+ The above figures are example performance measurements. Please use the Duplexvent Selection Software to calculate measurements at other performance levels.
Duplexvent FLEXI DV1600

**Flexi Line Side / Top Entry - Up to 2150 m³/hr air volume**

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### KEY FEATURES

- Air volume up to 1980 m³/hr @ 200 Pa
- Excellent heat recovery efficiency, up to 92%
- Versatile unit positioning with floor and ceiling suspended mounting options
- Low SFP with energy saving EC fans
- Low noise, refer to NR35 and BB93 standards
- 100% adjustable digital controller with internet and BMS connection
- BREEAM, Passive House and ErP 2016 / 2018 compliant
- 2 year warranty +

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### PERFORMANCE

<table>
<thead>
<tr>
<th>Performance</th>
<th>Supply Air</th>
<th>Extract Air</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heat Recovery</td>
<td>18.0 / 11</td>
<td>15.0 / 9.0</td>
</tr>
<tr>
<td>Temperature at inlet</td>
<td>22.0 / 15.0</td>
<td>18.0 / 11.0</td>
</tr>
<tr>
<td>Temperature at outlet</td>
<td>40.0 / 35.0</td>
<td>35.0 / 30.0</td>
</tr>
<tr>
<td>Humidity at inlet</td>
<td>50 / 61</td>
<td>50 / 61</td>
</tr>
<tr>
<td>Humidity at outlet</td>
<td>40 / 48</td>
<td>40 / 48</td>
</tr>
<tr>
<td>Thermal efficiency in winter / summer</td>
<td>87 / 84</td>
<td>87 / 84</td>
</tr>
<tr>
<td>Performance in winter / summer</td>
<td>kW</td>
<td>7.7 / 7.0</td>
</tr>
<tr>
<td>Condensation</td>
<td>l/h</td>
<td>2.5</td>
</tr>
</tbody>
</table>

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### DIMENSIONS

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### ACCESSORIES

See Duplexvent accessories pages for more details.

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*The above figures are example performance measurements. Please use the Duplexvent Selection Software to calculate measurements at other performance levels.*
### Performance

<table>
<thead>
<tr>
<th>Specification</th>
<th>Supply Air</th>
<th>Extract Air</th>
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</thead>
<tbody>
<tr>
<td>Air volume at 200 Pa</td>
<td>1400/389</td>
<td>1400/389</td>
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<tr>
<td>Nominal voltage</td>
<td>230 V</td>
<td>230 V</td>
</tr>
<tr>
<td>Voltage (at operation point)*</td>
<td>230 V</td>
<td>230 V</td>
</tr>
<tr>
<td>Nominal power (at operation point)*</td>
<td>305 W</td>
<td>271 W</td>
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<tr>
<td>Max connection power</td>
<td>470 W</td>
<td>470 W</td>
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<tr>
<td>Max current</td>
<td>4.5 A</td>
<td>4.5 A</td>
</tr>
<tr>
<td>Filters</td>
<td>F7</td>
<td>F7</td>
</tr>
<tr>
<td>Fan type</td>
<td>EC</td>
<td>EC</td>
</tr>
</tbody>
</table>

* The figures above have been measured at 1400 m³/hr and 200 Pa. Please use the Duplexvent Selection Software to calculate measurements at other performance levels.

### Key Features
- Air volume up to 2620 m³/hr @ 200 Pa
- Excellent heat recovery efficiency, up to 91%
- Versatile unit positioning with floor and ceiling suspended mounting options
- Low SFP with energy saving EC fans
- Low noise, refer to NR35 and BB93 standards
- 100% adjustable digital controller with internet and BMS connection
- BREEAM, Passive House and ErP 2016 / 2018 compliant
- 2 year warranty +

### Dimensions

#### Front View

- **Dimensions:**
  - Height: 2710 mm
  - Width: 890 mm
  - Depth: 570 mm

#### Top View

- **Dimensions:**
  - Height: 250 mm
  - Width: 2150 mm
  - Depth: 890 mm

### Accessories

- **See Duplexvent accessories pages for more details.**

#### Connections

- **Type:**
  - e1: Outdoor Air
  - e2: Supply Air
  - i1: Extract Air
  - i2: Exhaust Air
  - Me.102.EC1: Condensate Outlet

- **Diameter:**
  - 250 mm

- **Accessories:**
  - Shut-off Damper
  - Flexible Connector

### Notes

- * The above figures are example performance measurements. Please use the Duplexvent Selection Software to calculate measurements at other performance levels.

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* The figures above have been measured at 1400 m³/hr and 200 Pa. Please use the Duplexvent Selection Software to calculate measurements at other performance levels.
**Duplexvent FLEXI DV3600**

**Flexi Line Side Entry -**

Up to 5620 m³/hr air volume

### KEY FEATURES

- **Air volume up to 5340 m³/hr @ 200 Pa**
- Excellent heat recovery efficiency, up to 93%
- Versatile unit positioning with floor and ceiling suspended mounting options
- Low SFP with energy saving EC fans
- Low noise, refer to NR35 and BB93 standards
- 100% adjustable digital controller with internet and SMS connection
- BREEAM, Passive House and ErP 2016 / 2018 compliant
- 2 year warranty +

### PERFORMANCE

- **Sound pressure level is measured at 3m distance**

<table>
<thead>
<tr>
<th>Component</th>
<th>dB (A)</th>
<th>63</th>
<th>125</th>
<th>250</th>
<th>500</th>
<th>1k</th>
<th>2k</th>
<th>4k</th>
<th>8k</th>
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</thead>
<tbody>
<tr>
<td>Outdoor air e1</td>
<td>70</td>
<td>71</td>
<td>83</td>
<td>72</td>
<td>61</td>
<td>54</td>
<td>46</td>
<td>53</td>
<td></td>
</tr>
<tr>
<td>Extract air i1</td>
<td>59</td>
<td>66</td>
<td>65</td>
<td>45</td>
<td>36</td>
<td>34</td>
<td>28</td>
<td>23</td>
<td></td>
</tr>
<tr>
<td>Exhaust air i2</td>
<td>69</td>
<td>69</td>
<td>82</td>
<td>71</td>
<td>61</td>
<td>59</td>
<td>53</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>Breakout noise</td>
<td>54</td>
<td>56</td>
<td>67</td>
<td>58</td>
<td>49</td>
<td>44</td>
<td>55</td>
<td>52</td>
<td></td>
</tr>
<tr>
<td>To the surrounding</td>
<td>33</td>
<td>36</td>
<td>46</td>
<td>36</td>
<td>28</td>
<td>25</td>
<td>25</td>
<td>25</td>
<td></td>
</tr>
</tbody>
</table>

### Specifications

- **Maximum air volume @ 200 Pa**
  - Supply: 5340 / 1680 m³/hr
  - Extract: 5400 / 1650 m³/hr
- **Nominal voltage**: 400 V
- **Nominal Power (at operation point)**: 600 W
- **Max current**: 2.4 A
- **Filtration**: F7 / M5
- **Fan type**: EC / EC

### Energy Efficiency Class

- **Casing Strength**: EN 1886, mm/m
- **Outdoor condensation**: EN 1886, mm/m
- **Energy Efficiency Class**: A to G

### Dimensions

- **Heat Recovery**
  - Supply Air: 5340 / 1680 m³/hr
  - Extract Air: 5400 / 1650 m³/hr
- **Maximum air volume @ 250 Pa**
  - Supply: 2000 / 2050 m³/hr
  - Extract: 2000 / 2050 m³/hr
- **Temperature at inlet**: £-10 £22
- **Temperature at outlet**: £18 £1
- **Humidity at inlet**: £90 £40
- **Humidity at outlet**: £11 £100
- **Thermal efficiency in winter / summer**: 88 / 84
- **Performance in winter / summer**: 80 kW / 1.94 kW / 2.34 kW
- **Condensation**: 6.5 l/h

### ACCESSORIES

- **Type of heat exchanger**: Counter Flow, Plastic
- **Part No.**: 50008070
- **Description**: 50 kW, 80% heat recovery, 400 V, 250 Pa, 50008070

* The above figures are example performance measurements. Please use the Duplexvent Selection Software to calculate measurements at other performance levels.

**Note:** The figures above have been measured at 2000 m³/hr and 200 Pa. Please use the Duplexvent Selection Software to calculate measurements at other performance levels.

**2016 / 2018**

- **Supply**: 18.0 / 11 K
- **Exhaust**: 14.0 / 10 K

**See Duplexvent accessories pages for more details.**

**Customer Services 01494 560800**

**airflow.com**
Duplexvent MULTI Range - typical features

Heat Recovery Ventilation

KEY COMPONENTS

- **Lockable Large Access**
  - Doors simplify and accelerate the maintenance process

- **Digital Control Box**
  - with internet and BMS connections

- **Cross-Counter Flow Heat Exchanger**
  - up to 93% thermal efficiency
  - reduce heating bills significantly and guarantee a quick return on investment

- **Low Energy, Maintenance Free EC Fan Technology**
  - ensures long term savings on operating costs

- **Pressure Sensors**
  - for filter monitoring

- **Temperature Sensors**
  - for fully automatic operation of the summer bypass, frost protection and heater / cooler facilities

- **Built-in Heaters / Coolers**
  - provide space saving solution

- **G4 / M5 / F7 High Grade Filters**
  - provide ultra hygienic indoor climate and protect heat exchangers from getting dirty

- **Smooth Internal Casing**
  - with 30mm insulation (class T2) avoids thermal bridging (class TB1 / TB2), absorbs noise and meets sanitary standards

- **Condensate Drain**
  - for floor standing installations

- **Circulation Damper**
  - for indoor temperature / humidity control

- **Smooth Internal Casing**
  - with 30mm insulation (class T2) avoids thermal bridging (class TB1 / TB2), absorbs noise and meets sanitary standards

- **100% Summer Bypass Facility**
  - provides a flow of cool, fresh and filtered air into the property

Now it's easier to control Duplexvent units via internet or local network using laptop, smartphone, tablet etc.
Duplexvent MULTI
Heat Recovery Ventilation

**KEY FEATURES**
- Heat recovery ventilation
- 100% customisation
- 93% thermal efficiency
- Low energy EC 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 +

**Multi Line Unit Configurations**

To accomplish this goal, our Passive House approved, ex-stock Flexi Line units provide the highest thermal efficiency with immediate delivery whilst our customised Multi and Rotary Line units match your specification in terms of installation flexibility, performance and quality by meeting the high air volume requirements for commercial and large industrial spaces.

**MULTI LINE UNIT CONFIGURATIONS**

**100% Customisation and Short Delivery Time**

Multi 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 Line units are delivered in a period of 4-6 weeks to meet tight project deadlines.

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

**Duplexvent MULTI**

Floor standing
(Maintenance access from the top)

Horizontal
(Maintenance access from the side)

Ceiling suspended
(Maintenance access from the bottom)

**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 SIZE RANGE**

<table>
<thead>
<tr>
<th>Multi DV500</th>
<th>Multi DV1000</th>
<th>Multi DV1500</th>
<th>Multi DV2500</th>
<th>Multi DV3500</th>
</tr>
</thead>
<tbody>
<tr>
<td>1600 mm</td>
<td>1800 mm</td>
<td>2300 mm</td>
<td>2300 mm</td>
<td>2300 mm</td>
</tr>
<tr>
<td>384 mm</td>
<td>384 mm</td>
<td>455 mm</td>
<td>580 mm</td>
<td>665 mm</td>
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<tr>
<td>765 mm</td>
<td>1065 mm</td>
<td>1600 mm</td>
<td>1795 mm</td>
<td>2100 mm</td>
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<td>1065 mm</td>
<td>1600 mm</td>
<td>2500 mm</td>
<td>2500 mm</td>
<td>2500 mm</td>
</tr>
<tr>
<td>384 mm</td>
<td>455 mm</td>
<td>1290 mm</td>
<td>1620 mm</td>
<td>2100 mm</td>
</tr>
</tbody>
</table>

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.

2016 / 2018
**Performance**

**Duplexvent MULTI**

**Multi Line Customised Indoor - Up to 13050m³/hr air volume**

**Key Features**

- Fully customised commercial units in 10 different sizes up to 12500 m³/hr at 200 Pa
- Digital touchscreen or simple manual controller
- Low noise, refer to NR35 and BB93 standards
- Excellent thermal insulation (class T2, T61)
- G4, M5 or F7 filters available
- Optional constant flow and constant pressure mode
- BREEAM and ErP 2016 / 2018 compliant
- Meets Building Regulations Part L2A and L2B

### Performance

**Duplexvent Multi**

- **DV500**
  - m³/hr (class): 680 / 1163
  - 1200 / 1333
  - 2300 / 2111
  - 2800 / 3121
- **DV1000**
  - m³/hr (class): 875 / 1995
  - 1500 / 3199
  - 1800 / 3900
  - 2300 / 4389
- **DV2000**
  - m³/hr (class): 4300 / 11215
  - 4600 / 12159
  - 4800 / 11778
  - 7100 / 1972
  - 9600 / 2697
  - 11000 / 3583
  - 12500 / 3625
- **DV3500**
  - m³/hr (class): 5000
  - 7000
  - 8000
  - 9500
  - 10000
- **DV5000**
  - m³/hr (class): 10000
  - 12500
  - 15000
  - 20000
  - 25000
- **DV6500**
  - m³/hr (class): 30000
  - 40000
  - 45000
  - 50000
  - 65000
- **DV8000**
  - m³/hr (class): 60000
  - 75000
  - 80000
  - 90000
  - 100000
- **DV10000**
  - m³/hr (class): 100000
  - 125000
  - 150000
  - 200000
  - 250000
- **DV11000**
  - m³/hr (class): 300000
  - 400000
  - 450000
  - 500000
  - 650000

**Supply air - max.**

- m³/hr (class): 100 / 183
- 1200 / 333
- 2300 / 611
- 3400 / 944
- 4300 / 12116
- 4600 / 11778
- 7100 / 1972
- 9600 / 2697
- 11000 / 3583
- 12500 / 3625

**Extraction air - max.**

- m³/hr (class): 875 / 1995
- 1500 / 3199
- 1800 / 3900
- 2300 / 4389

**Heat recovery efficiency**

- % up to 95%

**Fan type**

- EC (backward curved impeller)

**Weight**

- kg
  - 80-110
  - 95-130
  - 200-280
  - 290-370
  - 320-390
  - 370-450
  - 480-580
  - 580-670
  - 680-780
  - 780-870

**Max. power input**

- kW
  - 0.3
  - 0.7
  - 1.2
  - 2.6
  - 4.5
  - 6.7
  - 8.7
  - 9.3
  - 10.7
  - 10.8

**Frequency**

- Hz
  - 50

**RPM - max.**

- mm
  - 4300
  - 3200
  - 2520
  - 3000
  - 2980
  - 2700
  - 2820
  - 2570
  - 2570
  - 2130

**Heating output T - max.**

- kW
  - 5
  - 14
  - 22
  - 30
  - 42
  - 51
  - 71
  - 88
  - 95
  - 100

**Cooling output CHF - max.**

- kW
  - 0.3
  - 0.7
  - 1.2
  - 2.6
  - 4.5
  - 6.7
  - 8.7
  - 9.3
  - 10.7
  - 10.8

**Part No.**

- 9041571
  - 9041572
  - 9041573
  - 9041521
  - 9041522
  - 9041523
  - 9041534
  - 9041525
  - 90500015
  - 90500016

**Acooustic Power L₁ and Pressure L₁**

<table>
<thead>
<tr>
<th>Type</th>
<th>Working point</th>
<th>Acoustic power L₁ [dB(A)]</th>
<th>Acoustic pressure L₁ [dBA]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duplexvent Multi</td>
<td>DV500</td>
<td>53</td>
<td>66</td>
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<tr>
<td></td>
<td>DV1000</td>
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<td>DV2000</td>
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<tr>
<td></td>
<td>DV3500</td>
<td>59</td>
<td>95</td>
</tr>
<tr>
<td></td>
<td>DV5000</td>
<td>60</td>
<td>91</td>
</tr>
<tr>
<td></td>
<td>DV6500</td>
<td>67</td>
<td>91</td>
</tr>
<tr>
<td></td>
<td>DV8000</td>
<td>68</td>
<td>91</td>
</tr>
<tr>
<td></td>
<td>DV10000</td>
<td>66</td>
<td>91</td>
</tr>
<tr>
<td></td>
<td>DV15000</td>
<td>66</td>
<td>91</td>
</tr>
<tr>
<td></td>
<td>DV25000</td>
<td>66</td>
<td>91</td>
</tr>
<tr>
<td></td>
<td>DV30000</td>
<td>65</td>
<td>91</td>
</tr>
</tbody>
</table>

**Dimensions**

- **FLOOR-STANDING (front view):**
  - Multi DV500 to DV8000

- **UNDERCEILING (top view):**
  - Multi DV1500 to DV6500

- **FLOOR-STANDING FLAT (top view):**
  - Multi DV6500 to DV11000

**Connecting Ports**

- **X1 to X2 (standard e₁, D):**
  - mm 250
  - 300
  - 400
  - 500
  - 600
  - 700
  - 800
  - 900

- **X3 to X3 (standard e₂, D):**
  - mm 200
  - 250
  - 350
  - 450
  - 510
  - 570
  - 630
  - 710

- **X4 to X4 (alternative spigot position configuration 41/10):**
  - mm 200
  - 250
  - 350
  - 400
  - 450

*For Duplexvent Multi DV9000 in configuration 50/10*

**Customer Services**

- 01494 560800
**Duplexvent MULTI-V**

**Heat Recovery Ventilation**

**KEY FEATURES**

- Heat recovery ventilation
- 100% customisation
- 93% thermal efficiency
- Vertical duct connections
- Low energy EC 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-V**

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.

**MULTI-V LINE UNIT CONFIGURATION**

To accomplish this goal, our Passive House approved, ex-stock Flexi Line units provide the highest thermal efficiency with immediate delivery whilst our customised Multi and Rotary Line units match your specification in terms of installation flexibility, performance and quality by meeting the high air volume requirements for commercial and large industrial spaces.

**Multi-V 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-V Line units are delivered in a period of 4-6 weeks to meet tight project deadlines.**

**Upright**

(Maintenance access from the side)

**100% CUSTOMISATION AND SHORT DELIVERY TIME**

**DUPLICENT MULTI-V SIZE RANGE**
**Duplexvent MULTI-V**

Multi Line Customised Indoor -
Up to 9600m³/hr air volume

**PERFORMANCE**

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

**KEY FEATURES**

- Fully customised commercial units in 6 different sizes up to 9200 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**

<table>
<thead>
<tr>
<th>Duplexvent Multi-V</th>
<th>DV1500</th>
<th>DV2500</th>
<th>DV3500</th>
<th>DV5000</th>
<th>DV5650</th>
<th>DV8000</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Supply air - max.</strong></td>
<td>m³/hr</td>
<td>2050</td>
<td>3050</td>
<td>4300</td>
<td>6000</td>
<td>9600</td>
</tr>
<tr>
<td><strong>Extraction air - max.</strong></td>
<td>m³/hr</td>
<td>1860</td>
<td>2710</td>
<td>4450</td>
<td>6480</td>
<td>9600</td>
</tr>
<tr>
<td><strong>Heat recovery efficiency</strong></td>
<td>%</td>
<td>up to 93%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fan type</strong></td>
<td>EC (backward curved impeller)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Max power input</strong></td>
<td>kW</td>
<td>1.2</td>
<td>2.3</td>
<td>4.9</td>
<td>6.2</td>
<td>7.5</td>
</tr>
<tr>
<td><strong>Max cooling capacity</strong></td>
<td>kW</td>
<td>1.2</td>
<td>2.3</td>
<td>4.9</td>
<td>6.2</td>
<td>7.5</td>
</tr>
<tr>
<td><strong>Part No.</strong></td>
<td></td>
<td>90008019</td>
<td>90008020</td>
<td>90008021</td>
<td>90008022</td>
<td>90008023</td>
</tr>
</tbody>
</table>

**ACOUSTIC POWER L AND PRESSURE L**

<table>
<thead>
<tr>
<th>Type</th>
<th>Working point</th>
<th>Acoustic power Lw [dB(A)] at 3 m</th>
<th>Acoustic pressure [dB(A)] at 3 m</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duplexvent Multi-V</td>
<td>DV1500</td>
<td>59</td>
<td>61</td>
</tr>
<tr>
<td></td>
<td>DV2500</td>
<td>60</td>
<td>65</td>
</tr>
<tr>
<td></td>
<td>DV3500</td>
<td>63</td>
<td>68</td>
</tr>
<tr>
<td></td>
<td>DV5000</td>
<td>66</td>
<td>71</td>
</tr>
<tr>
<td></td>
<td>DV5650</td>
<td>69</td>
<td>74</td>
</tr>
<tr>
<td></td>
<td>DV8000</td>
<td>71</td>
<td>75</td>
</tr>
</tbody>
</table>

**DIMENSIONS**

- **Customer Services** 01494 560800
- airflow.com
Duplexvent MULTI-N
Heat Recovery Ventilation

LIFT INTO PLACE
Ready for crane transport – special suspension points are included as standard for easy connection to a crane.

Multi-N outdoor units are designed with continuous emphasis on service comfort. The units can be maintained via side access doors, without the need to open the unit doors.

OUTDOOR SIZE RANGE

<table>
<thead>
<tr>
<th>Size</th>
<th>Multi-N DV1500</th>
<th>Multi-N DV2500</th>
<th>Multi-N DV3500</th>
<th>Multi-N DV5000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>365 mm</td>
<td>485 mm</td>
<td>980 mm</td>
<td>980 mm</td>
</tr>
<tr>
<td>Width</td>
<td>1620 mm</td>
<td>1620 mm</td>
<td>1620 mm</td>
<td>1620 mm</td>
</tr>
<tr>
<td>Depth</td>
<td>1310 mm</td>
<td>1310 mm</td>
<td>1310 mm</td>
<td>1310 mm</td>
</tr>
</tbody>
</table>

EFFICIENT INSTALLATION
Duplexvent MULTI-N outdoor units give the option of being installed directly on to the roof, or on a bespoke low profile, insulated base frame.

Using the stainless steel framed, highly insulated base, allows supply and extract air duct positions within the footprint of the unit. This modular, encapsulated set up reduces duct runs and does away with conventional duct insulation expense while giving a more energy efficient and easily installed unit.

Note: Bespoke insulated base frame is fitted with service access points.

COMPACT SIZE
One of the biggest Duplexvent Multi-N advantages is its compact size. Having an exceptionally low height, all units up to 6400 m³/hr are less than 1m high.
**Duplexvent MULTI-N**

Multi Line Customised Outdoor -
Up to 13050 m³/h air volume

**KEY FEATURES**

- Fully customised commercial units in 8 different sizes up to 12500 m³/hr at 200 Pa
- Excellent heat recovery efficiency, up to 93%
- Unique duct connection from the bottom
- Optional insulated base frame reduces heat loss and duct runs
- Low SFP with energy saving fans
- Ready for crane transport
- Digital Touchscreen or simple manual controller
- 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
- 2 year warranty +

**PERFORMANCE**

![Performance Graph](image)

**DIMENSIONS**

![Dimensions Table](image)

**ACOUSTIC POWER Lₐ AND PRESSURE Lₚ**

<table>
<thead>
<tr>
<th>Type</th>
<th>Working point</th>
<th>Acoustic power Lₐ [dB(A)]</th>
<th>Acoustic pressure Lₚ [dB(A)]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duplexvent Multi-D DV1500</td>
<td>1500 m³/h (275 W)</td>
<td>57 57 87 87 60 60</td>
<td>60 60</td>
</tr>
<tr>
<td>Duplexvent Multi-D DV2500</td>
<td>2500 m³/h (275 W)</td>
<td>57 57 82 82 61 61</td>
<td>61 61</td>
</tr>
<tr>
<td>Duplexvent Multi-D DV3500</td>
<td>3500 m³/h (275 W)</td>
<td>57 57 82 82 61 61</td>
<td>61 61</td>
</tr>
<tr>
<td>Duplexvent Multi-D DV5000</td>
<td>5000 m³/h (275 W)</td>
<td>58 58 87 87 59 59</td>
<td>60 60</td>
</tr>
<tr>
<td>Duplexvent Multi-D DV8000</td>
<td>8000 m³/h (275 W)</td>
<td>65 65 89 89 62 62</td>
<td>65 65</td>
</tr>
<tr>
<td>Duplexvent Multi-D DV10000</td>
<td>10000 m³/h (275 W)</td>
<td>66 66 94 94 65 65</td>
<td>65 65</td>
</tr>
<tr>
<td>Duplexvent Multi-D DV11000</td>
<td>11000 m³/h (275 W)</td>
<td>66 66 94 94 65 65</td>
<td>65 65</td>
</tr>
</tbody>
</table>

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

**Customer Services** 01494 560800

**Duplexvent Multi-N DV1000** to **DV11000**

For position 4 / x

<table>
<thead>
<tr>
<th>Configuration</th>
<th>10/0</th>
<th>10/0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Frame</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimension B</td>
<td>1170</td>
<td>1170</td>
</tr>
<tr>
<td>Dimension C</td>
<td>1170</td>
<td>1170</td>
</tr>
<tr>
<td>Dimension D</td>
<td>1170</td>
<td>1170</td>
</tr>
<tr>
<td>Dimension E</td>
<td>1170</td>
<td>1170</td>
</tr>
<tr>
<td>Dimension F</td>
<td>1170</td>
<td>1170</td>
</tr>
<tr>
<td>Dimension G</td>
<td>1170</td>
<td>1170</td>
</tr>
<tr>
<td>Dimension H</td>
<td>1170</td>
<td>1170</td>
</tr>
<tr>
<td>Condensate drain</td>
<td>Ø32</td>
<td>Ø32</td>
</tr>
</tbody>
</table>
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.

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.

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

Multi-Eco Line Unit Configurations

- Ceiling suspended (Maintenance access from the bottom)
- Floor standing (Maintenance access from the top)
- Horizontal (Maintenance access from the side)

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.

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

Duplexvent MULTI-Eco Size Range

- 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

2016 / 2018

Floor standing (Maintenance access from the top)

Ceiling suspended (Maintenance access from the bottom)

Horizontal (Maintenance access from the side)

Multi-Eco DV500
Multi-Eco DV800
Multi-Eco DV1100
Multi-Eco DV1500
Multi-Eco DV2500
Multi-Eco DV7500
Multi-Eco DV9000
Multi-Eco DV3500

2016 / 2018

Floor standing (Maintenance access from the top)

Ceiling suspended (Maintenance access from the bottom)

Horizontal (Maintenance access from the side)
**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**

**FLOOR-STANDING (front view)**

<table>
<thead>
<tr>
<th>Duplexvent Multi-Eco DV500</th>
<th>DV600</th>
<th>DV7500</th>
<th>DV9000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply air. max.</td>
<td>m³/hr</td>
<td>kW</td>
<td>kW</td>
</tr>
<tr>
<td>DV500</td>
<td>890</td>
<td>0.38</td>
<td>2.8</td>
</tr>
<tr>
<td>DV600</td>
<td>950</td>
<td>0.42</td>
<td>3.0</td>
</tr>
<tr>
<td>DV7500</td>
<td>2100</td>
<td>5.3</td>
<td>16.9</td>
</tr>
<tr>
<td>DV9000</td>
<td>2550</td>
<td>6.4</td>
<td>20.3</td>
</tr>
</tbody>
</table>

**Cooling output CHF - max.**

<table>
<thead>
<tr>
<th>Duplexvent Multi-Eco DV500</th>
<th>DV600</th>
<th>DV7500</th>
<th>DV9000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. cooling capacity</td>
<td>l/sec</td>
<td>kW</td>
<td>kW</td>
</tr>
<tr>
<td>DV500</td>
<td>560</td>
<td>0.33</td>
<td>1.7</td>
</tr>
<tr>
<td>DV600</td>
<td>620</td>
<td>0.37</td>
<td>2.0</td>
</tr>
<tr>
<td>DV7500</td>
<td>1800</td>
<td>5.3</td>
<td>16.9</td>
</tr>
<tr>
<td>DV9000</td>
<td>2550</td>
<td>6.4</td>
<td>20.3</td>
</tr>
</tbody>
</table>

---

**DIMENSIONS**

**FLOOR-STANDING (front view)**

<table>
<thead>
<tr>
<th>Duplexvent Multi-Eco DV3500</th>
<th>DV4500</th>
<th>DV5500</th>
<th>DV6500</th>
<th>DV7500</th>
<th>DV9000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length L</td>
<td>m</td>
<td>580</td>
<td>620</td>
<td>670</td>
<td>720</td>
</tr>
<tr>
<td>Condensate drain</td>
<td>Ø</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>-</td>
</tr>
</tbody>
</table>

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**UNDERCEILING (top view)**

<table>
<thead>
<tr>
<th>Duplexvent Multi-Eco DV3500</th>
<th>DV4500</th>
<th>DV5500</th>
<th>DV6500</th>
<th>DV7500</th>
<th>DV9000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimension H</td>
<td>mm</td>
<td>715</td>
<td>715</td>
<td>715</td>
<td>715</td>
</tr>
<tr>
<td>Dimension B</td>
<td>mm</td>
<td>384</td>
<td>384</td>
<td>384</td>
<td>384</td>
</tr>
<tr>
<td>Dimension H2</td>
<td>mm</td>
<td>920</td>
<td>920</td>
<td>920</td>
<td>920</td>
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<tr>
<td>Length L2</td>
<td>mm</td>
<td>1585</td>
<td>1585</td>
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</table>

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**FLOOR-STANDING (front view)**

<table>
<thead>
<tr>
<th>Duplexvent Multi-Eco DV800</th>
<th>DV900</th>
<th>DV1000</th>
<th>DV1100</th>
<th>DV1200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length L</td>
<td>mm</td>
<td>1360</td>
<td>1360</td>
<td>1360</td>
</tr>
<tr>
<td>Condensate drain</td>
<td>Ø</td>
<td>50</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

---

**ACOUSTIC POWER L AND PRESSURE PL**

<table>
<thead>
<tr>
<th>Type</th>
<th>Acoustic power Lₐ (dB(A))</th>
<th>Acoustic pressure PLₐ (dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duplexvent Multi-Eco DV3500</td>
<td>65</td>
<td>62</td>
</tr>
<tr>
<td>Duplexvent Multi-Eco DV4500</td>
<td>67</td>
<td>67</td>
</tr>
<tr>
<td>Duplexvent Multi-Eco DV5500</td>
<td>69</td>
<td>69</td>
</tr>
<tr>
<td>Duplexvent Multi-Eco DV6500</td>
<td>72</td>
<td>72</td>
</tr>
<tr>
<td>Duplexvent Multi-Eco DV7500</td>
<td>75</td>
<td>75</td>
</tr>
<tr>
<td>Duplexvent Multi-Eco DV800</td>
<td>76</td>
<td>76</td>
</tr>
<tr>
<td>Duplexvent Multi-Eco DV900</td>
<td>78</td>
<td>78</td>
</tr>
<tr>
<td>Duplexvent Multi-Eco DV1000</td>
<td>80</td>
<td>80</td>
</tr>
<tr>
<td>Duplexvent Multi-Eco DV1100</td>
<td>82</td>
<td>82</td>
</tr>
<tr>
<td>Duplexvent Multi-Eco DV1200</td>
<td>84</td>
<td>84</td>
</tr>
</tbody>
</table>

---

**NEW IMPROVED MULTI-ECO LINE**

**Duplexvent MULTI-Eco**

New improved Multi-Eco Line Customised Indoor - Up to 11500m³/hr at 200 Pa

<table>
<thead>
<tr>
<th>Dimension X1</th>
<th>Dimension Y1</th>
<th>Dimension X2</th>
<th>Dimension Y2</th>
<th>Dimension X3</th>
<th>Dimension Y3</th>
<th>Dimension X4</th>
<th>Dimension Y4</th>
</tr>
</thead>
<tbody>
<tr>
<td>800</td>
<td>800</td>
<td>1000</td>
<td>1000</td>
<td>1200</td>
<td>1200</td>
<td>1400</td>
<td>1400</td>
</tr>
<tr>
<td>800</td>
<td>800</td>
<td>1000</td>
<td>1000</td>
<td>1200</td>
<td>1200</td>
<td>1400</td>
<td>1400</td>
</tr>
<tr>
<td>800</td>
<td>800</td>
<td>1000</td>
<td>1000</td>
<td>1200</td>
<td>1200</td>
<td>1400</td>
<td>1400</td>
</tr>
</tbody>
</table>

---

**ERF 2016 / 2018**

Max. cooling capacity for water heater
Max. cooling capacity for water and DX cooler

---

**CUSTOMER SERVICES**

Customer Services 01494 560800

---

**WORKING TYPE**

- AC (forward curved impeller)
- EC (backward curved impeller)

---

**FLOOR-STANDING (front view)**

<table>
<thead>
<tr>
<th>Duplexvent Multi-Eco DV7500</th>
<th>DV9000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimension X1</td>
<td>Dimension Y1</td>
</tr>
<tr>
<td>2100</td>
<td>2100</td>
</tr>
<tr>
<td>2550</td>
<td>2550</td>
</tr>
</tbody>
</table>

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**UNDERCEILING (top view)**

<table>
<thead>
<tr>
<th>Duplexvent Multi-Eco DV7500</th>
<th>DV9000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimension X1</td>
<td>Dimension Y1</td>
</tr>
<tr>
<td>2100</td>
<td>2100</td>
</tr>
<tr>
<td>2550</td>
<td>2550</td>
</tr>
</tbody>
</table>

---

**AIR FLOW**

- Max. cooling capacity for water heater
- Max. cooling capacity for water and DX cooler
Duplexvent MULTI Eco-V
Heat Recovery Ventilation

KEY FEATURES
- Heat recovery ventilation
- 100% customisation
- 93% thermal efficiency
- Vertical duct connections
- Low energy EC 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-V
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.

MULTI Eco-V LINE UNIT CONFIGURATION

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.

100% CUSTOMISATION AND SHORT DELIVERY TIME

Multi Eco-V 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-V Line units are delivered in a period of 4-6 weeks to meet tight project deadlines.

MULTI Eco-V LINE UNIT CONFIGURATION

Upright
(Maintenance access from the side)

100% Bypass facility delivers cool, fresh and filtered air

Circulation damper helps regulate indoor temperature / humidity conditions

Ventilation with heat recovery

DUPLICATION MULTI Eco-V SIZE RANGE

2 800 mm 455 mm
Multi eco-V DV1500
2 800 mm 580 mm
Multi eco-V DV2500
2 800 mm 775 mm
Multi eco-V DV3500
2 800 mm 885 mm
Multi eco-V DV4500
2 800 mm 1 065 mm
Multi eco-V DV5500
2 800 mm 1 295 mm
Multi eco-V DV6500
Duplexvent MULTI Eco-V
Multi Line Customised Indoor -
Up to 7800m³/hr air volume

**KEY FEATURES**
- Fully customised commercial units in 6 different sizes up to 7600 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**

<table>
<thead>
<tr>
<th>Duplexvent Multi Eco-V</th>
<th>DV1500</th>
<th>DV2000</th>
<th>DV3000</th>
<th>DV4000</th>
<th>DV5000</th>
<th>DV6500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply air - max.¹</td>
<td>m³/hr (l/sec)</td>
<td>2500 / 360</td>
<td>3000 / 420</td>
<td>5000 / 360</td>
<td>5000 / 720</td>
<td>6300 / 900</td>
</tr>
<tr>
<td>Extraction air - max.¹</td>
<td>m³/hr (l/sec)</td>
<td>1600 / 220</td>
<td>2100 / 290</td>
<td>3200 / 470</td>
<td>5000 / 700</td>
<td>7500 / 1100</td>
</tr>
<tr>
<td>Heat recovery efficiency ²</td>
<td>% up to 93%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fan type</td>
<td>EC (backward curved impeller)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight¹</td>
<td>kg</td>
<td>210-290</td>
<td>300-400</td>
<td>360-400</td>
<td>450-570</td>
<td>550-680</td>
</tr>
<tr>
<td>Max power input</td>
<td>kW</td>
<td>1.2</td>
<td>2.3</td>
<td>5</td>
<td>6.6</td>
<td>6.6</td>
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<td>Voltage</td>
<td>V</td>
<td>230</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Frequency</td>
<td>Hz</td>
<td>50</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RPM - max.</td>
<td>min⁻¹</td>
<td>2900</td>
<td>3000</td>
<td>2980</td>
<td>2700</td>
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</tr>
<tr>
<td>Heating output T - max.²</td>
<td>kW</td>
<td>22</td>
<td>30</td>
<td>42</td>
<td>51</td>
<td>71</td>
</tr>
<tr>
<td>Cooling output CHW - max.²</td>
<td>kW</td>
<td>16</td>
<td>22</td>
<td>30</td>
<td>42</td>
<td>56</td>
</tr>
<tr>
<td>Cooling output CHF - max.²</td>
<td>kW</td>
<td>10</td>
<td>13</td>
<td>25</td>
<td>37</td>
<td>41</td>
</tr>
<tr>
<td>Part No.</td>
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<td>90000001</td>
<td>90000002</td>
<td>90000003</td>
<td>90000004</td>
<td>90000005</td>
</tr>
</tbody>
</table>

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

**DIMENSIONS**

<table>
<thead>
<tr>
<th>Duplexvent Multi Eco-V</th>
<th>DV1500</th>
<th>DV2000</th>
<th>DV3000</th>
<th>DV4000</th>
<th>DV5000</th>
<th>DV6500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimension H (mm)</td>
<td>1600</td>
<td>1600</td>
<td>1600</td>
<td>1600</td>
<td>1600</td>
<td>1600</td>
</tr>
<tr>
<td>Dimension B (mm)</td>
<td>1290</td>
<td>1290</td>
<td>1290</td>
<td>1290</td>
<td>1290</td>
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<tr>
<td>Length L (mm)</td>
<td>2800</td>
<td>2800</td>
<td>2800</td>
<td>2800</td>
<td>2800</td>
<td>2800</td>
</tr>
<tr>
<td>Condensate drain (mm)</td>
<td>Ø32</td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

**ACOUSTIC POWER Lₐ AND PRESSURE PLₐ**

- Working point
- Acoustic power Lₐ (dB(A))
- Acoustic pressure PLₐ (Pa) at 5 m

**SUPPLY SECTION**
- DV1500: 10000 / 1470
- DV2000: 1470
- DV3000: 1470
- DV4000: 1470
- DV5000: 1470
- DV6500: 1470

**EXTRACT SECTION**
- DV1500: 1470
- DV2000: 1470
- DV3000: 1470
- DV4000: 1470
- DV5000: 1470
- DV6500: 1470

**Supplemental Information**
- Meets Building Regulations Part L2A and L2B
- BREEAM and ErP 2016 / 2018 compliant
- 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
Duplexvent MULTI Eco-N
Heat Recovery Ventilation

LIFT INTO PLACE

Ready for crane transport – special suspension points are included as standard for easy connection to a crane.

Multi Eco-N outdoor units are designed with continuous emphasis on service comfort. The units can be maintained via side access doors, without the need to open the units doors.

OUTDOOR SIZE RANGE

<table>
<thead>
<tr>
<th>Model</th>
<th>Width</th>
<th>Height</th>
<th>Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>DV1500</td>
<td>2560 mm</td>
<td>1050 mm</td>
<td>555 mm</td>
</tr>
<tr>
<td>DV2500</td>
<td>2560 mm</td>
<td>1050 mm</td>
<td>555 mm</td>
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<tr>
<td>DV3500</td>
<td>2560 mm</td>
<td>1050 mm</td>
<td>555 mm</td>
</tr>
<tr>
<td>DV4500</td>
<td>2560 mm</td>
<td>1050 mm</td>
<td>555 mm</td>
</tr>
<tr>
<td>DV5500</td>
<td>2560 mm</td>
<td>1050 mm</td>
<td>555 mm</td>
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<tr>
<td>DV6500</td>
<td>2560 mm</td>
<td>1050 mm</td>
<td>555 mm</td>
</tr>
<tr>
<td>DV7500</td>
<td>2560 mm</td>
<td>1050 mm</td>
<td>555 mm</td>
</tr>
<tr>
<td>DV9000</td>
<td>2560 mm</td>
<td>1050 mm</td>
<td>555 mm</td>
</tr>
</tbody>
</table>

One of the biggest Duplexvent Multi Eco-N advantages is its compact size. Having an exceptionally low height, all units up to 5900 m³/hr are less than 1m high.

EFFICIENT INSTALLATION

Duplexvent MULTI Eco-N outdoor units give the option of being installed directly on to the roof, or on a bespoke low profile, insulated base frame.

Using the stainless steel framed, highly insulated base, allows supply and extract air duct positions within the footprint of the unit. This modular, encapsulated set up reduces duct runs and does away with conventional duct insulation expense while giving a more energy efficient and easily installed unit.

Note: Bespoke insulated base frame is fitted with service access points.

COMPACT SIZE

The height dimension is for units only (without the 400 mm optional base frame)

1. Base frame with 50 mm thick PIR insulation.
2. Air ducts with no energy loss - duct and installation cost savings.
3. Easy filter side changing to ensure maximum service comfort.
4. Riser duct for condensate drainage.
5. Riser duct for control system and heating / cooling pipes.
6. Side access doors for quick and easy maintenance.
**Duplexvent MULTI Eco-N**

New improved Multi Eco-N Line Customised Outdoor – Up to 11500 m³/hr air volume

**KEY FEATURES**
- Fully customised commercial units in 8 different sizes up to 11100 m³/hr at 200 Pa
- Excellent heat recovery efficiency, up to 93%
- Unique duct connection from the bottom
- Optional insulated base frame reduces heat loss and duct runs
- Optimised range with more efficient fans
- Ready for crane transport
- Digital Touchscreen or simple manual controller
- G4, M5 or F7 filters available
- Optional circulation damper
- Optional constant flow and constant pressure mode
- BREEAM and ErP 2016 / 2016 compliant
- Meets Building Regulations Part L2A and L2B
- 2 year warranty

**PERFORMANCE**

<table>
<thead>
<tr>
<th>Duplexvent Multi Eco-N</th>
<th>DV1500</th>
<th>DV2500</th>
<th>DV3500</th>
<th>DV4500</th>
<th>DV5500</th>
<th>DV6500</th>
<th>DV7500</th>
<th>DV9000</th>
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</thead>
<tbody>
<tr>
<td>Supply air - max.</td>
<td>m³/hr</td>
<td>2500</td>
<td>3000</td>
<td>3500</td>
<td>4000</td>
<td>4500</td>
<td>5000</td>
<td>5500</td>
</tr>
<tr>
<td>Extraction air - max.</td>
<td>m³/hr</td>
<td>2300</td>
<td>2800</td>
<td>3300</td>
<td>3800</td>
<td>4300</td>
<td>4800</td>
<td>5300</td>
</tr>
<tr>
<td>Heat recovery efficiency</td>
<td>%</td>
<td>29 - 35</td>
<td>35 - 42</td>
<td>41 - 50</td>
<td>47 - 60</td>
<td>55 - 72</td>
<td>64 - 87</td>
<td>76 - 93</td>
</tr>
<tr>
<td>Fan type</td>
<td>EC (backward curve impeller)</td>
<td>EC (backward curve impeller)</td>
<td>EC (backward curve impeller)</td>
<td>EC (backward curve impeller)</td>
<td>EC (backward curve impeller)</td>
<td>EC (backward curve impeller)</td>
<td>EC (backward curve impeller)</td>
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<tr>
<td>Weight</td>
<td>kg</td>
<td>280-350</td>
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<td>Max power input</td>
<td>kW</td>
<td>1.5</td>
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<td>230</td>
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<tr>
<td>Frequency</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RPM - max.</td>
<td>min⁻¹</td>
<td>2500</td>
<td>2500</td>
<td>2500</td>
<td>2500</td>
<td>2500</td>
<td>2500</td>
<td>2500</td>
</tr>
<tr>
<td>Heating output T - max.</td>
<td>kW</td>
<td>18</td>
<td>27</td>
<td>36</td>
<td>46</td>
<td>56</td>
<td>66</td>
<td>76</td>
</tr>
<tr>
<td>Cooling output CHW - max.</td>
<td>kW</td>
<td>9</td>
<td>12</td>
<td>22</td>
<td>36</td>
<td>46</td>
<td>67</td>
<td>87</td>
</tr>
<tr>
<td>Cooling output CHF - max.</td>
<td>kW</td>
<td>10</td>
<td>13</td>
<td>25</td>
<td>37</td>
<td>41</td>
<td>50</td>
<td>60</td>
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<td>90000010</td>
<td>90000011</td>
<td>90000012</td>
<td>90000013</td>
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</table>

**ACOUSTIC POWER L₁ AND PRESSURE L₂**

<table>
<thead>
<tr>
<th>Type</th>
<th>Working point</th>
<th>Acoustic power L₁ [dB(A)]</th>
<th>Acoustic pressure L₁ [Pa]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duplexvent Multi Eco-DV1500 1500m³/hr (200 Pa)</td>
<td>S7</td>
<td>87</td>
<td>87</td>
</tr>
<tr>
<td>Duplexvent Multi Eco-DV2500 2500m³/hr (200 Pa)</td>
<td>S7</td>
<td>87</td>
<td>87</td>
</tr>
<tr>
<td>Duplexvent Multi Eco-DV3500 3500m³/hr (200 Pa)</td>
<td>S6</td>
<td>96</td>
<td>96</td>
</tr>
<tr>
<td>Duplexvent Multi Eco-DV4500 4500m³/hr (200 Pa)</td>
<td>S6</td>
<td>96</td>
<td>96</td>
</tr>
<tr>
<td>Duplexvent Multi Eco-DV5500 5500m³/hr (200 Pa)</td>
<td>S6</td>
<td>96</td>
<td>96</td>
</tr>
<tr>
<td>Duplexvent Multi Eco-DV6500 6500m³/hr (200 Pa)</td>
<td>S6</td>
<td>96</td>
<td>96</td>
</tr>
<tr>
<td>Duplexvent Multi Eco-DV7500 7500m³/hr (200 Pa)</td>
<td>S6</td>
<td>96</td>
<td>96</td>
</tr>
<tr>
<td>Duplexvent Multi Eco-DV9000 9000m³/hr (200 Pa)</td>
<td>S6</td>
<td>96</td>
<td>96</td>
</tr>
</tbody>
</table>

**DIMENSIONS**

**FLOOR STANDING**

Multi eco Roof DV1500 to DV5500

Multi eco Roof DV6500 to DV9000

**BASE FRAME (optional accessories)**

Multi eco Roof DV1500 to DV9000

**PERFORMANCE**

- Max. capacity data T are valid for 70/50°C water temperature drop and ±5°C, 1% supply air (after recovery)
- Max. cooling capacity data CHW are valid for 30% water / ethylene-glycol mixture, 50°C temperature drop, ±5°C, ±5% supply air
- Max. cooling capacity data CHF are valid for ±10°C, ±10% water / ethylene-glycol mixture, 50°C temperature drop, ±5°C, ±5% supply air
- Max. capacity data for water heater are valid for ±10°C, ±10% water / ethylene-glycol mixture, 50°C temperature drop, ±5°C, ±5% supply air
## Rotary 4000

- For: $e_1 = +5 \, ^\circ\text{C}$, $i_1 = rhi_1 = 40\%$, according to EN 308

### Duplexvent ROTARY

- 15000 m$^3$/h
- 10000 m$^3$/h
- 8000 m$^3$/h

### Duplexvent Rotary DV5000

- DV2500

### Duplexvent Rotary DV4000

- DV3000

### Duplexvent Rotary DV2500

- DV3000

### Type

<table>
<thead>
<tr>
<th>ACUSTIC POWER L</th>
<th>V 230</th>
<th>230</th>
<th>400</th>
<th>400</th>
<th>400</th>
<th>400</th>
<th>400</th>
<th>400</th>
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</thead>
<tbody>
<tr>
<td>Heating output T - max.</td>
<td>kW</td>
<td>17</td>
<td>24</td>
<td>35</td>
<td>40</td>
<td>50</td>
<td>60</td>
<td>60</td>
</tr>
<tr>
<td>Cooling output CHW - max.</td>
<td>kW</td>
<td>28</td>
<td>36</td>
<td>40</td>
<td>47</td>
<td>50</td>
<td>60</td>
<td>80</td>
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<td>Part Number</td>
<td>Floor Standing</td>
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<td></td>
<td></td>
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</tr>
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<td></td>
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<td></td>
</tr>
</tbody>
</table>

### VAV control compatibility

- Optional constant flow / pressure mode
- Digital touchscreen or simple manual controller

### Versatile unit with various mounting options

- Available

### High indoor installation

- Highly efficient certified by Eurovent rotary heat exchanger, up to 85% thermal efficiency

### Low SFP and energy saving EC fans

- Optional 54 filters standard: Options M5 / F7 filters

### Versatile unit with various mounting options

- Available

### 2 year warranty

- Caveat emptor: Always ensure the warranty is valid as of the purchase date.

### Dimensions

<table>
<thead>
<tr>
<th>P</th>
<th>P1</th>
<th>P2</th>
<th>P3</th>
<th>P4</th>
<th>P5</th>
<th>P6</th>
<th>P7</th>
<th>P8</th>
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</thead>
<tbody>
<tr>
<td>500</td>
<td>700</td>
<td>710</td>
<td>900</td>
<td>900</td>
<td>900</td>
<td>900</td>
<td>900</td>
<td>900</td>
</tr>
</tbody>
</table>

### Performance

- Heat recovery efficiency (%)
- Heating / cooling capacity $Q$ (kW)

### Key Features

- 2016, 2017
- BREEAM and ErP 2015, 2016 compliant
- Digital touchscreen or simple manual controller
- Versatile unit with various mounting options
- Optional 54 filters standard: Options M5 / F7 filters
- Low SFP and energy saving EC fans

### Heating or cooling coils, purge chamber

- Water / ethylene-glycol mixture, 5 / 12 \(^\circ\text{C}\) temperature

### Maximum cooling capacity data CHW

- Valid for 30%
**BMS control interface is standard with Modbus TCP, (KNX and BACnet optional) protocols.**

Alternatively the Duplexvent Web control system with internet connectivity may be specified to control remote equipment from a PC, Tablet or Smartphone.

---

**A NEW GENERATION IN MECHANICAL VENTILATION WITH HEAT RECOVERY**

Duplexvent Rotary units provide outstanding performance within a compact shape. The system comprises of separate supply and extract backward curved EC fans. Duplexvent Rotary units are easy to transport and install on site and provide excellent MVHR performance for a range of commercial and industrial applications.

The casing is twin skin construction with high insulation and transfer characteristic of 0.037 W/mK. It is rated to Thermal Insulation class T2 and thermal bridging class TB1 / TB2 (depending on the unit). Access doors provided for ease of filter maintenance. Thanks to the highly efficient EC motors, Rotary units achieve extremely low SFP values from 0.45 W/m³/h.

Multiple choice duct connectivity is a feature of the Duplexvent Rotary range. Supply and extract ports can be rotated by 90 degrees to facilitate on-site duct connections in limited access spaces. This enables the connecting ducting to be configured in line with the space available and the structure of the building.
**Side Entry Commercial MVHR – Up to 16,700m³/hr air volume**

**KEY FEATURES**

- Outdoor installation
- Weather protection hoods and a roof
- Highly efficient, certified by Euronrotary Heat Exchanger, up to 85% thermal efficiency
- Versatile unit with various mounting options
- Low SFP and energy saving EC fans
- Digital touchscreen or simple manual controller
- BMS connection
- VAV control compatibility
- G4 filters standard. Optional M5 / F7 filters available
- Optional equipment: recirculation damper, heating or cooling coils, purge chamber
- Optional constant flow / pressure mode
- BREEAM and ErP 2016 / 2018 compliant
- 2 year warranty

**PERFORMANCE**

- **Voltage**: 230V ± 10%
- **Frequency**: 50Hz
- **Airflow** 1500 - 8000 m³/hr
- **Max. heating output**: 75 kW
- **Max. cooling output**: CHW 50 kW
- **Water temperature drop**: +10°C
- **Supply air temperature**: T - max.
- **Floor Standing**: Height (H) mm
- **Length (L)** mm
- **Width (W)** mm
- **Exhaust air volume** m³/hr
- **Exhaust air temperature**
- **Heat recovery efficiency**
- **Max. power consumption**: W

**ACOUSTIC POWER Lw AND PRESSURE Lp**

<table>
<thead>
<tr>
<th>Type</th>
<th>Working point</th>
<th>Acoustic power Lw [dB(A)]</th>
<th>Acoustic pressure Lp [dB(A)]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rotary Roof DVS1500</td>
<td>1500 m³/hr</td>
<td>60</td>
<td>65</td>
</tr>
<tr>
<td>Rotary Roof DVS2500</td>
<td>2500 m³/hr</td>
<td>65</td>
<td>70</td>
</tr>
<tr>
<td>Rotary Roof DVS4000</td>
<td>4000 m³/hr</td>
<td>70</td>
<td>75</td>
</tr>
<tr>
<td>Rotary Roof DVS5000</td>
<td>5000 m³/hr</td>
<td>75</td>
<td>80</td>
</tr>
<tr>
<td>Rotary Roof DVS6000</td>
<td>6000 m³/hr</td>
<td>80</td>
<td>85</td>
</tr>
</tbody>
</table>

**DIMENSIONS**

- **RoomTop (front view)**: 1500 to 2500 Rotary
- **RoomTop (front view)**: 8000 to 15000 Rotary

---

**ATTENTION**

- *Rotary Roof 1500-5000 with T.3 + CHW.5
- VAV control compatibility
- BMS connection
- Digital touchscreen or simple manual controller
- Weather protection hoods and a roof

---

**Customer Services**: 01494 560800
**OPERATING MODES**

<table>
<thead>
<tr>
<th>Mode</th>
<th>Diagram</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ventilation with heat recovery with re-heating</td>
<td>![Diagram]</td>
</tr>
<tr>
<td>Circulation heating or cooling</td>
<td>![Diagram]</td>
</tr>
<tr>
<td>Combined mode (ventilation with circulation)</td>
<td>![Diagram]</td>
</tr>
</tbody>
</table>

- i | Fresh outdoor air suction
- e1 | Exhaust air suction
- e2 | Fresh filtered air outlet
- T | Central heating connection
- CH | Cooling connection

**DUPLEXVENT ROTARY-N**

The Duplexvent ROTARY-N is a range of all-purpose commercial MVHR units that are suitable for all commercial premises that require ventilation up to 16,700m³/hr. The highly efficient rotary wheel heat exchanger recovers up to 85% of otherwise wasted heat to pre-warm the incoming supply air; reducing ongoing energy costs for the building.

Rotary units offer outstanding performance, with low SFP and high end thermal insulation to minimise heat loss. You can control your ROTARY-N unit with ease thanks to a wide range of control options, which enables adjustment of the unit's ventilation with or without a BMS via an internet connected device such as smartphone, computer or Duplexvent digital controller.

**A NEW GENERATION IN MECHANICAL VENTILATION WITH HEAT RECOVERY**

Duplexvent Rotary-N units provide outstanding performance within a compact shape. The system comprises of separate supply and extract backward curved EC fans. Duplexvent Rotary-N units are easy to transport and install on site and provide excellent MVHR performance for a range of commercial and industrial applications.

Rotary-N units are designed to be installed outdoors. Thanks to the steel hood found on all units which cover the supply air inlet and the extract air inlet, the Duplexvent Rotary-N is protected against the weather. This protection helps to extend the life of the unit and maintain its long term optimal performance.

The casing is twin skin construction with high insulation and transfer characteristic of 0.037 W/mK. It is rated to Thermal Insulation class T2 and thermal bridging class TB1 / TB2 (depending on the unit). Access doors provided for ease of filter maintenance. Thanks to the highly efficient EC motors, Rotary-N units achieve extremely low SFP values from 0.45 W/m³/h.

**SYSTEM CONTROL**

BMS control interface is standard with Modbus TCP, (KNX and BACnet optional) protocols.

Alternatively the Duplexvent Web control system with internet connectivity may be specified to control remote equipment from a PC, Tablet or Smart phone.
Duplexvent - Advanced Functionality and Control

WEB CONTROL SYSTEM

Duplexvent Commercial Heat Recovery units are delivered with a choice of control options which enables complete functionality of the Flexi, Rotary and Multi units.

- Advanced control with digital display
- 100% adjustable EC fan control
- Automatic 100% bypass control for free cooling
- Daily / Weekly programme setting
- Filter monitoring via pressure sensors
- BMS connection (Modbus, KNX, BACnet)
- Internet connection with user and service interfaces
- Frost protection facility (heater assisted)
- Outputs for electric / water heater and DX / water cooler
- Zonal ventilation control (winter / summer)
- Constant flow / pressure control
- Temperature control (based on extract or supply air) via 5 built-in temperature sensors
- On-demand ventilation via CO₂, humidity and air quality sensors

INTERNET CONNECTION

Duplexvent commercial units incorporate an Internet server that uses Modbus TCP/IP protocol to provide a connection between the ventilation unit and the internet via a standard plug and play ethernet cable.

This allows you to monitor and control the unit from a laptop via the internet or a local area network. The unit can also be monitored remotely by technical service which saves time and cost on service processes.

Deluxevent - Selection Software

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VAV System
Zonal Control for your MVHR system

**KEY FEATURES**
- Variable air volume (VAV) ventilation system with compatible controller and VAV dampers
- Independent monitoring and air flow regulation for individual area requirements
- Intelligent, internet controlled dampers for fine adjustment of air flow
- Real time data transfer and regulation of VAV dampers from a central monitoring station
- Allows users to control the system through smartphone and PC
- Optimises the performance of an MVHR unit and reduces the ongoing operating costs of your ventilation system
- Helps analyse ventilation and heating (optional) energy costs by zone
- Doesn’t require a BMS system
- Up to 63 dampers can be connected to a central unit
- Suitable for all commercial Duplexvent MVHR units

**KEY COMPONENTS**
1. Servo drive casing
2. Connection terminals for digital module
3. Regulating valves (includes sealant)
4. Servo drive (has air flow measurement)
5. Inspection opening (access to inner parts)
6. Tube with 15mm thermal insulation
7. Handle of the inspection cover
8. Air flow sensor
9. Frame of VAV damper

**VAV SYSTEM RANGE**

- **UNIT SELECTION**
  - Range of sizes for various applications
  - Suitable for all commercial Duplexvent MVHR units
  - Up to 63 dampers can be connected to a central unit
  - Doesn’t require a BMS system
  - Helps analyse ventilation and heating (optional)
  - Optimises the performance of an MVHR unit
  - Real time data transfer and regulation of VAV dampers from a central monitoring station

- **EXAMPLE SYSTEM**
  - A typical Duplexvent MVHR system using VAV Dampers
  - The VAV system consists of VAV boxes and central Duplexvent MVHR unit equipped with the Web control system.
  - All devices are connected to a LAN via an Ethernet cable. This enables constant communication between the VAV dampers and Duplexvent unit and in turn improves the performance of each unit to its optimum level. The internet connection enables remote access and results in easier maintenance and reduces ongoing service costs.

- **PERFORMANCE**
  - Table showing acoustic performance and Lw sound levels for different working points and pressure losses (Pa)

---

Customer Services 01494 560800

airflow.com
**DIMENSIONS**

VAV Damper without cover

VAV Damper with cover

**VALUES IN BRACKETS APPLY TO VAV DAMPERS (DIAMETER SYMBOL) 200-315 WITH SERVOS INSIDE**

**INSTALLATION**

In order to achieve accurate flow control, it is necessary to keep a minimum calming distance of three times the diameter of the damper connection before the damper after an elbow or bend.

* Applies to VAV ø 200-315 Dampers with servos inside

** When electric or water heaters are connected, this distance must be increased

The following Airflow controllers can be used to control the VAV system:

**WB1 Touch Controller**

A digital, colour touch screen controller that enables the user to set all modes for the VAV system, including weekly scheduling and adjusting the entire system. This controller provides the user in-depth system information.

**WB2 Rotary Controller**

A variable speed controller with temperature adjustment (if equipped with the heater) and a switch off function.

**BC2 Rotary Controller**

A variable speed controller with a switch off function.

**CONTROLLERS**

**VAV PART NUMBERS**
### Typical Applications

<table>
<thead>
<tr>
<th>Nursery</th>
<th>Offices</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.jpg" alt="Nursery Image" /></td>
<td><img src="image2.jpg" alt="Offices Image" /></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Large Residential Properties</th>
<th>Restaurants</th>
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</thead>
<tbody>
<tr>
<td><img src="image3.jpg" alt="Large Residential Properties Image" /></td>
<td><img src="image4.jpg" alt="Restaurants Image" /></td>
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<table>
<thead>
<tr>
<th>Schools and Colleges</th>
<th>Retail</th>
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<tr>
<td><img src="image5.jpg" alt="Schools and Colleges Image" /></td>
<td><img src="image6.jpg" alt="Retail Image" /></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Industrial Plants</th>
<th>Public Areas</th>
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</thead>
<tbody>
<tr>
<td><img src="image7.jpg" alt="Industrial Plants Image" /></td>
<td><img src="image8.jpg" alt="Public Areas Image" /></td>
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</table>

### Typical Applications

<table>
<thead>
<tr>
<th>MULTI DV1500</th>
<th>FLEXI DV2600</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image9.jpg" alt="MULTI DV1500 Image" /></td>
<td><img src="image10.jpg" alt="FLEXI DV2600 Image" /></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>MULTI-N DV5000</th>
<th>MULTI-N DV3500</th>
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<tbody>
<tr>
<td><img src="image11.jpg" alt="MULTI-N DV5000 Image" /></td>
<td><img src="image12.jpg" alt="MULTI-N DV3500 Image" /></td>
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</table>

<table>
<thead>
<tr>
<th>MULTI-N DV6500</th>
<th>MULTI DV8000</th>
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<tr>
<td><img src="image13.jpg" alt="MULTI-N DV6500 Image" /></td>
<td><img src="image14.jpg" alt="MULTI DV8000 Image" /></td>
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</tbody>
</table>
### FLEXI LINE ACCESSORIES

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Product Image</th>
<th>DV1100</th>
<th>DV1600</th>
<th>DV2600</th>
<th>DV3600</th>
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</thead>
<tbody>
<tr>
<td>900001074</td>
<td>Extract air filter</td>
<td>M5 filter</td>
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<tr>
<td></td>
<td>Shut-off damper with spring return</td>
<td>250 mm connection</td>
<td>-</td>
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<td>90000098</td>
<td>250 mm connection</td>
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<td>90000137</td>
<td>600 x 300 mm connection</td>
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<td>Shut-off damper without spring return</td>
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<td></td>
<td>Electric duct heater</td>
<td>3.0 kW, 250 mm connection</td>
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<td>90000173</td>
<td>3.0 kW, 250 mm connection</td>
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<td>90000091</td>
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<td>90000138</td>
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<tr>
<td></td>
<td>Water heating coil + duct temp. sensor</td>
<td>5.4 kW at 60/40ºC</td>
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<td>9000020</td>
<td>5.4 kW at 60/40ºC</td>
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<td>90000202</td>
<td>7.8 kW at 60/40ºC</td>
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<td>90000204</td>
<td>12.0 kW at 60/40ºC</td>
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<tr>
<td>90000206</td>
<td>16.0 kW at 60/40ºC</td>
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# Duplexvent Commercial Accessories

## FLEXI LINE ACCESSORIES

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</table>
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