

Duplexvent MULTI Eco-N

Heat Recovery Ventilation

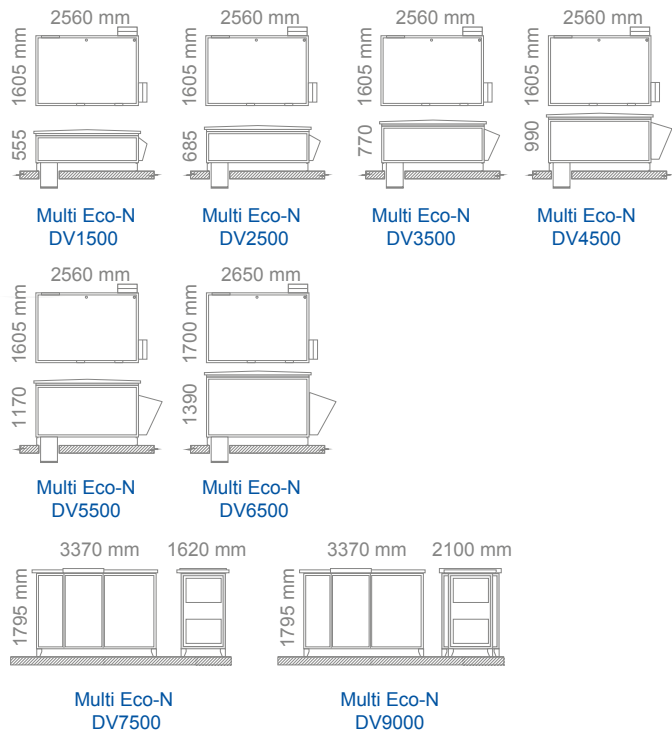
LIFT INTO PLACE

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



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

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.

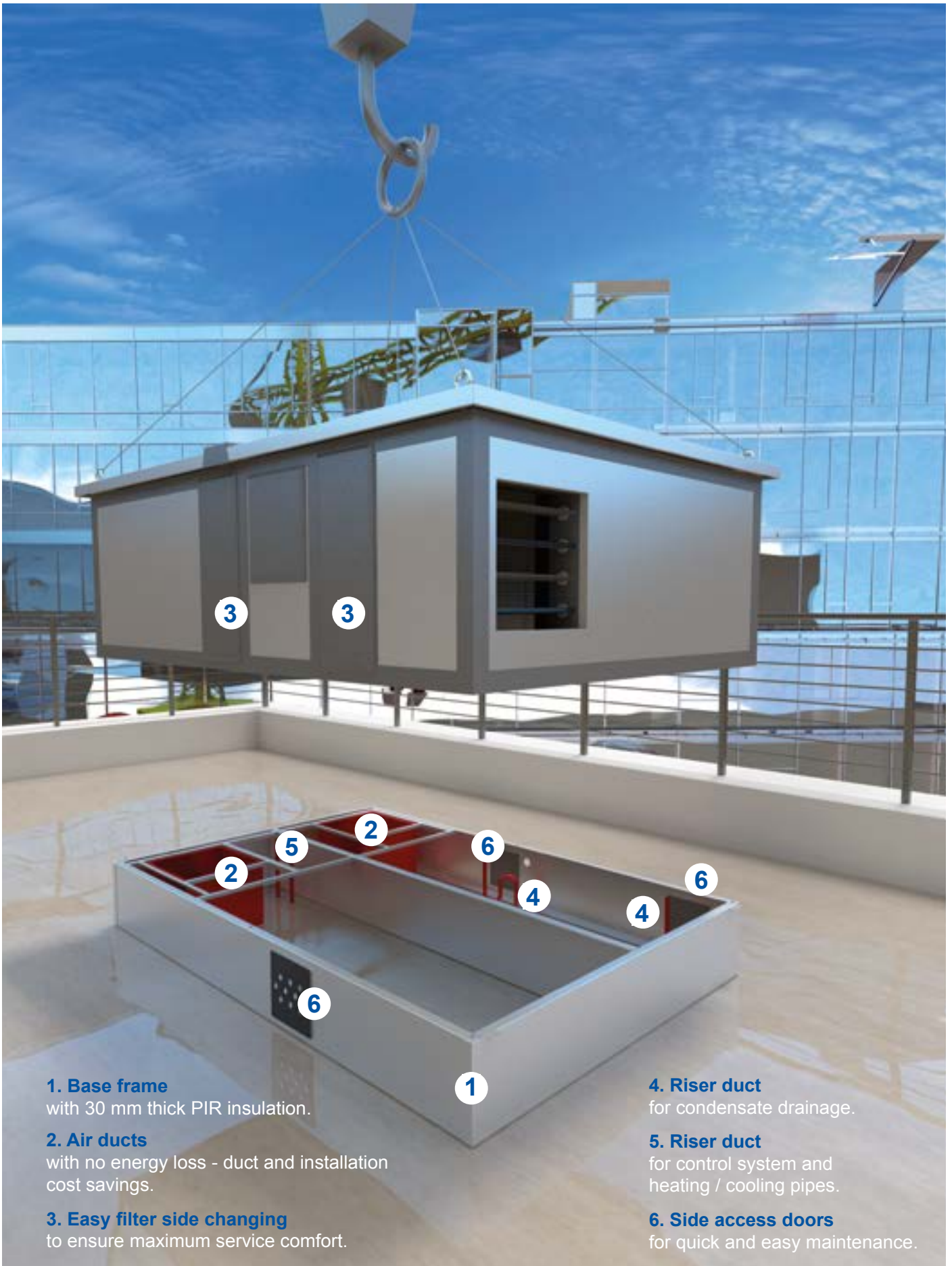
Note: Bespoke insulated base frame is fitted with service access points.



COMPACT SIZE

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.





1. Base frame
with 30 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 11500m³/hr air volume



2016 / 2018

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 / 2018 compliant
- Meets Building Regulations Part L2A and L2B
- 2 year warranty +

PERFORMANCE

| Duplexvent Multi Eco-N | | DV1500 | DV2500 | DV3500 | DV4500 | DV5500 | DV6500 | DV7500 | DV9000 |
|--|----------------------------|------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|
| Supply air - max. ¹ | m ³ /hr / l/sec | 2500 / 694 | 3600 / 1000 | 4700 / 1306 | 5900 / 1639 | 7600 / 2111 | 7800 / 2167 | 8600 / 2389 | 11500 / 3194 |
| Extraction air - max. ¹ | m ³ /hr / l/sec | 2300 / 8280 | 3650 / 1014 | 4600 / 1278 | 5750 / 1597 | 7650 / 2125 | 7900 / 2194 | 8300 / 2306 | 11300 / 3139 |
| Heat recovery efficiency ² | % | to 93% | | | | | | | |
| Fan type | | EC (backward curve impeller) | | | | | | | |
| Weight ³ | kg | 290-350 | 350-420 | 405-480 | 460-560 | 520-630 | 630-750 | 1170-1310 | 1260-1400 |
| Max power input | kW | 1.5 | 2.5 | 4.4 | 4.4 | 6.5 | 6.5 | 6.6 | 8.9 |
| Voltage | V | 230 | 400 | | | | | | |
| Frequency | Hz | 50 | | | | | | | |
| RPM - max. | min ⁻¹ | 2920 | 3000 | 2980 | 2980 | 2700 | 2700 | 2700 | 2570 |
| Heating output T - max. ⁴ | kW | 18 | 27 | 36 | 46 | 67 | 75 | 85 | 90 |
| Cooling output CHW - max. ⁴ | kW | 9 | 12 | 22 | 36 | 39 | 46 | 67 | 72 |
| Cooling output CHF - max. ⁴ | kW | 10 | 13 | 25 | 37 | 41 | 50 | 55 | 60 |
| Part No. | | 90000807 | 90000808 | 90000809 | 90000810 | 90000811 | 90000812 | 90000813 | 90000814 |

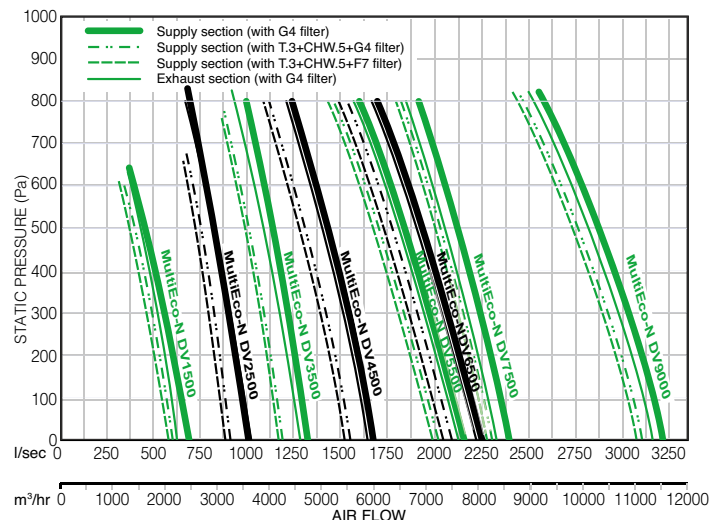
1. Maximum flow rate at zero external pressure
2. According to air volume
3. Depending on equipment
4. Depending on register type, liquid and flow rates

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

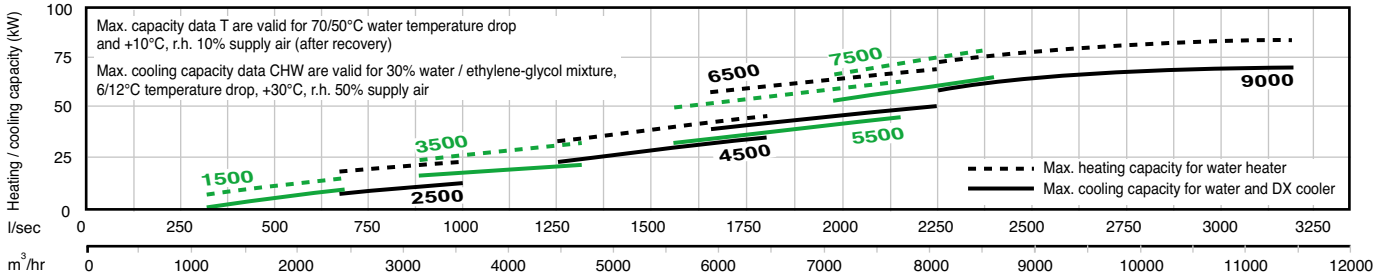
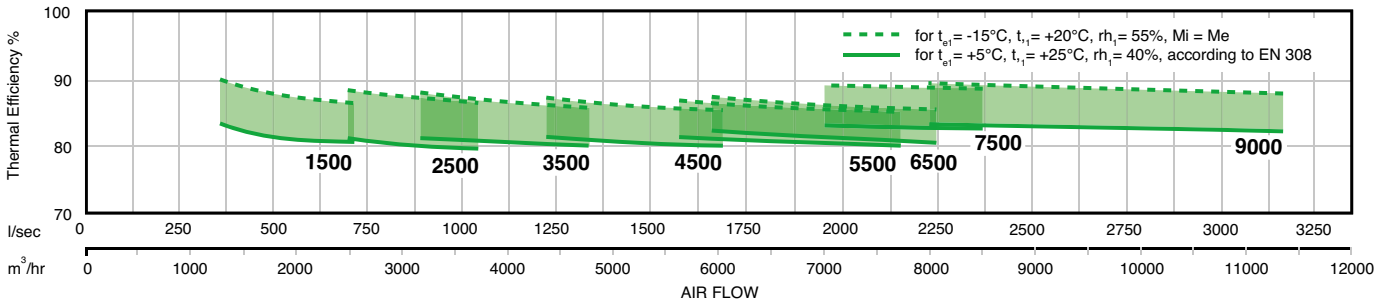
+ excludes motors. Motor warranty one year from date of purchase.

ACOUSTIC POWER L_w AND PRESSURE L_p

| Type | Working point | Acoustic power L_w [dB(A)] | | | | | Acoustic pressure L_p [dB(A)] at 3 m |
|-------------------------------|---------------------------------|------------------------------|-------------|-------------|-------------|------|--|
| | | inlet e_1 | inlet i_1 | inlet e_2 | inlet i_2 | unit | |
| Duplexvent Multi Eco-N DV1500 | 1500m ³ /hr (200 Pa) | 57 | 57 | 87 | 87 | 60 | 40 |
| Duplexvent Multi Eco-N DV2500 | 2500m ³ /hr (200 Pa) | 57 | 57 | 82 | 82 | 61 | 40 |
| Duplexvent Multi Eco-N DV3500 | 3500m ³ /hr (200 Pa) | 58 | 59 | 87 | 88 | 59 | 38 |
| Duplexvent Multi Eco-N DV4500 | 4500m ³ /hr (200 Pa) | 65 | 65 | 90 | 90 | 61 | 40 |
| Duplexvent Multi Eco-N DV5500 | 5500m ³ /hr (200 Pa) | 67 | 67 | 96 | 95 | 51 | 31 |
| Duplexvent Multi Eco-N DV6500 | 6000m ³ /hr (200 Pa) | 66 | 68 | 96 | 88 | 65 | 44 |
| Duplexvent Multi Eco-N DV7500 | 7500m ³ /hr (200 Pa) | 65 | 69 | 91 | 92 | 73 | 51 |
| Duplexvent Multi Eco-N DV9000 | 8500m ³ /hr (200 Pa) | 67 | 66 | 97 | 97 | 76 | 46 |

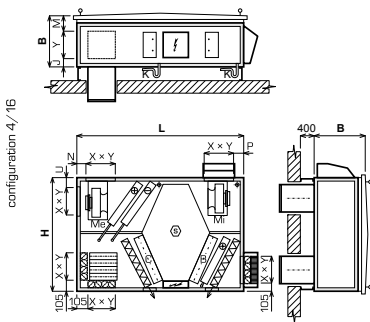


PERFORMANCE

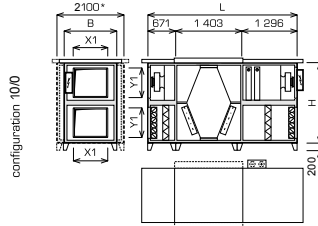


DIMENSIONS

FLOOR STANDING (front view)
Multi Eco-N DV1500 to DV6500

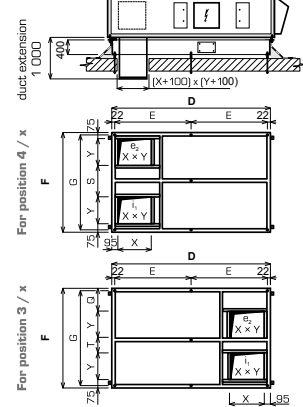


FLOOR STANDING (front view)
Multi Eco-N DV7500 to DV9000



*Only for Duplexvent Multi Eco-N DV9000

BASE FRAME (optional accessories)
Multi Eco-N DV1500 to DV6500



| Duplexvent Multi Eco-N | | DV1500 | DV2500 | DV3500 | DV4500 | DV5500 | DV6500 | DV7500 | DV9000 |
|---------------------------------------|----|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Dimension H | mm | 1605 | 1605 | 1605 | 1605 | 1605 | 1700 | 1795 | 1795 |
| Dimension B | mm | 555 | 685 | 770 | 990 | 1170 | 1390 | 1620 | 1620 |
| Length L | mm | 2560 | 2560 | 2560 | 2560 | 2560 | 2650 | 3370 | 3370 |
| Dimension N | mm | 130 | 105 | 105 | 105 | 105 | 105 | - | - |
| Dimension U | mm | 270 | 105 | 105 | 105 | 105 | 105 | - | - |
| Dimension P | mm | 135 | 105 | 105 | 105 | 105 | 105 | - | - |
| Dimension J | mm | 100 | 100 | 165 | 225 | 315 | 340 | - | - |
| Dimension M | mm | 155 | 185 | 205 | 265 | 355 | 350 | - | - |
| Condensate drain | mm | Ø32 | | | | | | | |
| Connecting ports | | | | | | | | | |
| Dimension X x Y | mm | 300 x 300 | 400 x 400 | 400 x 400 | 500 x 500 | 500 x 500 | 700 x 500 | 900 x 710 | 900 x 710 |
| Base Frame | | | | | | | | | |
| Dimension D | mm | 2500 | 2500 | 2500 | 2500 | 2500 | 2590 | - | - |
| Dimension F | mm | 1545 | 1545 | 1545 | 1545 | 1545 | 1640 | - | - |
| Dimension E | mm | 1228 | 1228 | 1228 | 1228 | 1228 | 1273 | - | - |
| Dimension G (between anchoring holes) | mm | 1505 | 1505 | 1505 | 1505 | 1505 | 1600 | - | - |
| Dimension S | mm | 795 | 595 | 595 | 395 | 395 | 490 | - | - |
| Dimension Q | mm | 400 | 300 | 300 | 200 | 200 | 278 | - | - |
| Dimension T | mm | 470 | 370 | 370 | 270 | 270 | 287 | - | - |

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