



**VERTICAL  
UP-BLAST  
ROOF  
EXTRACT  
RANGE**



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VERTICAL UP-BLAST UNITS

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Our Vertical Up-Blast range of roof extract units are the perfect fit for commercial high-temperature and ambient applications.

The range is also ideal for commercial applications such as kitchens, cinemas, theatres or shopping centres. These high-performance units are mounted on the roof in a vertical orientation, saving space and eliminating the need for void space installation.

Units feature a bifurcated arrangement with the motor out of the airstream. This technology means that the motor cannot be damaged over time by a build-up of grease or any other air pollutants. Units are also manufactured from a seawater-resistant aluminium casing, making them suitable for coastal applications.

**CODING** NVU315-2F8

NVU 315 – 2 F8

1

2

3

4

**SAMPLE CODING**

- 1. NVU range
- 2. Unit size
- 3. Motor pole
- 4. F8 – Operating temperature (400°C/2hr)



“Our expertise, experience and innovation is what makes us stand out from the rest of the market.”

Wayne Glover, Managing Director, Nuaire.



BIFURCATED MOTOR

‘Out of the airstream’ motors are ideal for dirty extract or grease-laden air.



QUIET OPERATION

Metal construction reduces overall noise levels.



DEMAND VENTILATION

Fully speed controllable.



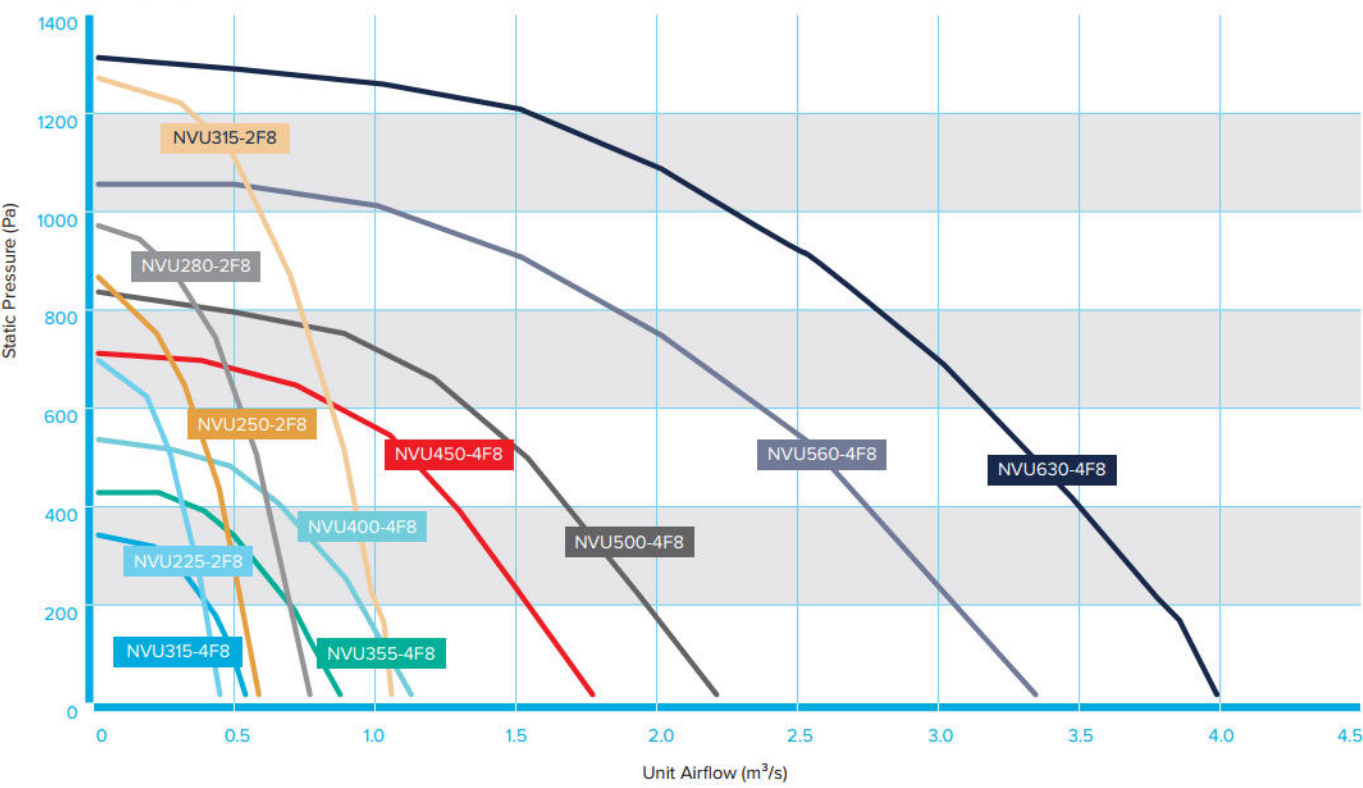
DUAL OPERATION

Suitable for 200°C and one-off 400°C/2hr.



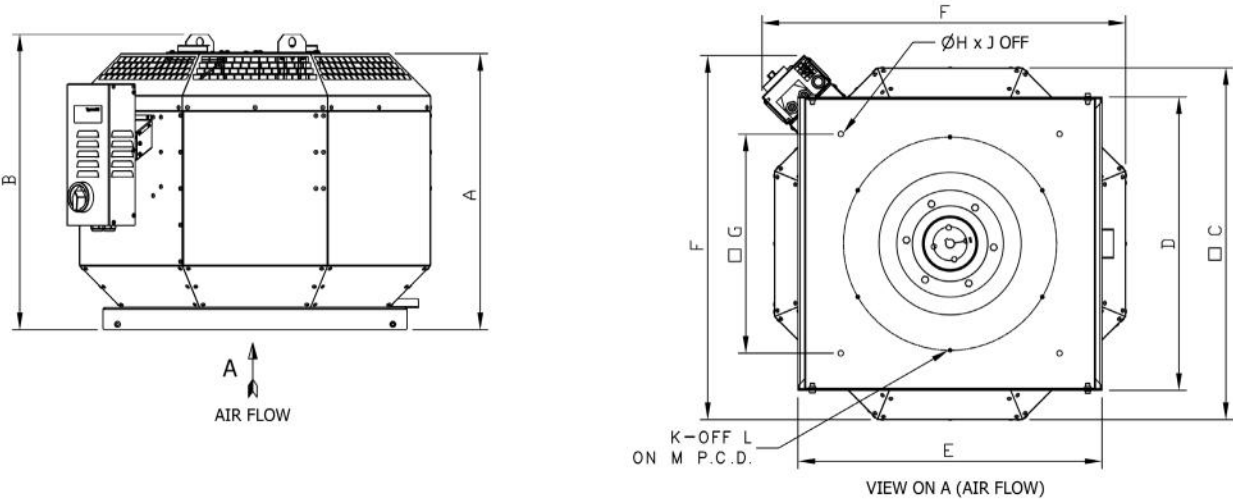
VERTICAL UP-BLAST ROOF EXTRACT UNITS  
PERFORMANCE & TECHNICAL INFORMATION

PERFORMANCE CHART



TECHNICAL INFORMATION

| CODE       | PHASE | MOTOR POLE | INPUT POWER (kW) | FAN SPEED (rpm) | FLC (A) | SC (A) | OPERATING TEMPERATURE (°C)  |                      |
|------------|-------|------------|------------------|-----------------|---------|--------|-----------------------------|----------------------|
|            |       |            |                  |                 |         |        | ONE-OFF EMERGENCY OPERATION | DAY-TO-DAY OPERATION |
| NVU225-2F8 | 3     | 2          | 0.284            | 2930            | 0.8     | 7.02   | 400/2hr                     | 200                  |
| NVU250-2F8 | 3     | 2          | 0.425            | 2885            | 1.1     | 7.02   | 400/2hr                     | 200                  |
| NVU280-2F8 | 3     | 2          | 0.627            | 2810            | 1.1     | 7.02   | 400/2hr                     | 200                  |
| NVU315-2F8 | 3     | 2          | 1.1              | 2870            | 2.2     | 17.2   | 400/2hr                     | 200                  |
| NVU315-4F8 | 3     | 4          | 0.202            | 1480            | 0.8     | 8.12   | 400/2hr                     | 200                  |
| NVU355-4F8 | 3     | 4          | 0.312            | 1470            | 0.8     | 8.12   | 400/2hr                     | 200                  |
| NVU400-4F8 | 3     | 4          | 0.492            | 1450            | 1       | 8.12   | 400/2hr                     | 200                  |
| NVU450-4F8 | 3     | 4          | 0.901            | 1470            | 2.3     | 18.2   | 400/2hr                     | 200                  |
| NVU500-4F8 | 3     | 4          | 1.342            | 1450            | 2.6     | 18.2   | 400/2hr                     | 200                  |
| NVU560-4F8 | 3     | 4          | 2.42             | 1440            | 4.5     | 37     | 400/2hr                     | 200                  |
| NVU630-4F8 | 3     | 4          | 4.115            | 1455            | 8.1     | 57.4   | 400/2hr                     | 200                  |



DIMENSIONS (mm) & WEIGHT (kg)

| CODE       | A   | B   | C    | D   | E   | F    | G   | H  | J | K | L       | M   | WEIGHT |
|------------|-----|-----|------|-----|-----|------|-----|----|---|---|---------|-----|--------|
| NVU225-2F8 | 467 | 484 | 452  | 341 | 363 | 517  | 245 | 9  | 4 | 6 | M6 x 15 | 213 | 28.5   |
| NVU250-2F8 | 467 | 484 | 452  | 341 | 363 | 517  | 245 | 9  | 4 | 6 | M6 x 15 | 213 | 28.9   |
| NVU280-2F8 | 512 | 531 | 569  | 441 | 464 | 617  | 330 | 11 | 4 | 6 | M6 x 15 | 286 | 34.5   |
| NVU315-2F8 | 512 | 529 | 569  | 441 | 464 | 624  | 330 | 11 | 4 | 6 | M6 x 15 | 286 | 39.5   |
| NVU315-4F8 | 512 | 529 | 569  | 441 | 464 | 624  | 330 | 11 | 4 | 6 | M6 x 15 | 286 | 39     |
| NVU355-4F8 | 565 | 605 | 722  | 602 | 625 | 747  | 450 | 11 | 4 | 6 | M6 x 15 | 438 | 48.1   |
| NVU400-4F8 | 565 | 605 | 722  | 602 | 625 | 747  | 450 | 11 | 4 | 6 | M6 x 15 | 438 | 50.4   |
| NVU450-4F8 | 737 | 776 | 902  | 674 | 697 | 901  | 535 | 11 | 4 | 6 | M6 x 15 | 438 | 82.5   |
| NVU500-4F8 | 737 | 776 | 902  | 674 | 697 | 901  | 535 | 11 | 4 | 6 | M6 x 15 | 438 | 83.7   |
| NVU560-4F8 | 778 | 818 | 1136 | 936 | 944 | 1011 | 750 | 11 | 4 | 8 | M8 x 20 | 605 | 127    |
| NVU630-4F8 | 778 | 818 | 1136 | 936 | 944 | 1011 | 750 | 11 | 4 | 8 | M8 x 20 | 605 | 137    |



VERTICAL UP-BLAST ROOF EXTRACT UNITS  
PERFORMANCE & TECHNICAL INFORMATION

SOUND DATA

| CODE       | SOUND<br>POWER<br>LEVELS<br>(db re 1pw) | FREQUENCY (HZ) |     |     |     |    |    |    |    | OPEN<br>INLET/<br>OUTLET<br>(dBA) |
|------------|-----------------------------------------|----------------|-----|-----|-----|----|----|----|----|-----------------------------------|
|            |                                         | 63             | 125 | 250 | 500 | 1K | 2K | 4K | 8K |                                   |
| NVU225-2F8 | Induct Inlet                            | 85             | 80  | 83  | 76  | 71 | 68 | 73 | 66 | -                                 |
|            | Open Inlet                              | 73             | 73  | 80  | 75  | 71 | 68 | 73 | 66 | 58                                |
|            | Open Outlet                             | 70             | 75  | 82  | 78  | 73 | 71 | 69 | 64 | 59                                |
| NVU250-2F8 | Induct Inlet                            | 83             | 85  | 85  | 80  | 74 | 72 | 71 | 73 | -                                 |
|            | Open Inlet                              | 71             | 78  | 82  | 79  | 74 | 72 | 71 | 73 | 60                                |
|            | Open Outlet                             | 75             | 81  | 86  | 82  | 79 | 76 | 71 | 70 | 64                                |
| NVU280-2F8 | Induct Inlet                            | 86             | 86  | 89  | 84  | 77 | 73 | 72 | 74 | -                                 |
|            | Open Inlet                              | 76             | 80  | 87  | 83  | 77 | 73 | 72 | 74 | 63                                |
|            | Open Outlet                             | 77             | 83  | 94  | 85  | 82 | 78 | 72 | 71 | 68                                |
| NVU315-2F8 | Induct Inlet                            | 87             | 87  | 92  | 88  | 81 | 76 | 73 | 71 | -                                 |
|            | Open Inlet                              | 77             | 81  | 90  | 87  | 81 | 76 | 73 | 71 | 67                                |
|            | Open Outlet                             | 80             | 84  | 98  | 89  | 85 | 81 | 75 | 72 | 71                                |
| NVU315-4F8 | Induct Inlet                            | 82             | 80  | 75  | 70  | 62 | 59 | 60 | 65 | -                                 |
|            | Open Inlet                              | 72             | 74  | 73  | 69  | 62 | 59 | 60 | 65 | 50                                |
|            | Open Outlet                             | 73             | 77  | 77  | 71  | 67 | 62 | 59 | 62 | 53                                |
| NVU355-4F8 | Induct Inlet                            | 75             | 83  | 75  | 70  | 64 | 68 | 65 | 66 | -                                 |
|            | Open Inlet                              | 67             | 79  | 73  | 70  | 64 | 68 | 65 | 66 | 53                                |
|            | Open Outlet                             | 70             | 81  | 76  | 72  | 69 | 66 | 64 | 64 | 54                                |
| NVU400-4F8 | Induct Inlet                            | 86             | 88  | 81  | 76  | 71 | 69 | 70 | 66 | -                                 |
|            | Open Inlet                              | 78             | 84  | 79  | 76  | 71 | 69 | 70 | 66 | 58                                |
|            | Open Outlet                             | 80             | 86  | 82  | 78  | 75 | 69 | 68 | 62 | 60                                |
| NVU450-4F8 | Induct Inlet                            | 78             | 90  | 81  | 75  | 69 | 67 | 66 | 63 | -                                 |
|            | Open Inlet                              | 71             | 86  | 80  | 75  | 69 | 67 | 66 | 63 | 57                                |
|            | Open Outlet                             | 76             | 89  | 85  | 79  | 76 | 70 | 67 | 62 | 61                                |
| NVU500-4F8 | Induct Inlet                            | 81             | 96  | 85  | 78  | 75 | 72 | 69 | 72 | -                                 |
|            | Open Inlet                              | 74             | 92  | 84  | 78  | 75 | 72 | 69 | 72 | 61                                |
|            | Open Outlet                             | 76             | 92  | 87  | 82  | 79 | 73 | 70 | 70 | 64                                |
| NVU560-4F8 | Induct Inlet                            | 81             | 98  | 90  | 81  | 76 | 75 | 70 | 64 |                                   |
|            | Open Inlet                              | 76             | 96  | 89  | 81  | 76 | 75 | 70 | 64 | 65                                |
|            | Open Outlet                             | 82             | 98  | 89  | 85  | 81 | 77 | 73 | 66 | 67                                |
| NVU630-4F8 | Induct Inlet                            | 96             | 102 | 98  | 91  | 88 | 84 | 80 | 78 | -                                 |
|            | Open Inlet                              | 91             | 100 | 97  | 91  | 88 | 84 | 80 | 78 | 73                                |
|            | Open Outlet                             | 93             | 104 | 98  | 94  | 89 | 85 | 80 | 73 | 75                                |

dBA for Spherical free field radiation at a distance of 3m.

VERTICAL UP-BLAST ROOF EXTRACT UNITS  
CONSULTANT SPECIFICATION

OPERATION

Vertical Up-Blast (Dual Purpose) roof-mounted extract range, suitable for continuous operation up to a maximum temperature of 200°C and once-off emergency extract 400°C for a maximum of 2 hours.

Independently tested and certified to EN12101-3 (2015) for emergency extract. Range compliant with ErP 2015 efficiency directive 327/2011.

Case fabrication is from seawater-resistant aluminium with integrated grease pan and drain suitable for kitchen extract applications.

The driven impeller incorporated is a backward-curved centrifugal type, offering optimum operation efficiencies.

The motor is direct driven, IE3 Premium efficiency, IP55, Class F insulation, 400/3/50Hz situated outside of the airstream and is suitable for variable frequency speed control.

Unit is fitted with an IP55 pre-wired lockable isolator, tested and approved in conjunction with the fan ventilator to EN12101-3.

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