



*infinity*®

## Acoustic Cabinet Fans

**Single Fan Models**

Up to 3.9 m<sup>3</sup>/sec

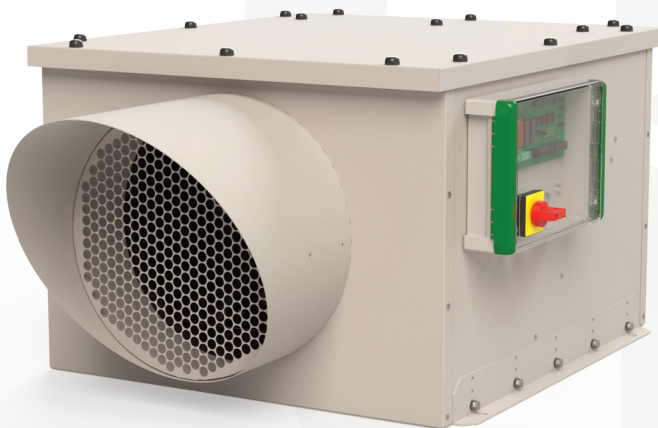
EC Motors

Low Specific Fan Power

# Features and benefits

## *infinity*<sup>®</sup> - Acoustic Cabinet Fans

- Single fans
- ErP 2018 compliant
- EC fans to suit L2
- QSS denotes internally mounted fan
- EM denotes externally mounted fan



### Flexible design to suit your application

Units are constructed from galvanised steel 0.9mm to 1.2 mm depending on model

External models are powder coated

External models with removable discharge cowl

Top or bottom access

### Acoustic lining to reduce noise breakout

Units are lined with 20mm Barafoam "O" class liner

A 6mm barrier mat layer is incorporated in the liner

This significantly reduces noise breakout

### Low Energy EC Fans

Energy efficient direct drive fans

Low SFP to help achieve L2 Regulations

### Control Panel

All units are fitted with a pre-wired CP.

This saves time and money on site.

The CP has comprehensive features as standard.

- VFC BMS enable
- VFC BMS boost
- Fan fault BMS link
- Remote 0-10V speed control
- Run on timer for boost (0-20 minutes)
- Trickle and boost setting
- P.I.R. enabled Boost

### Accessories

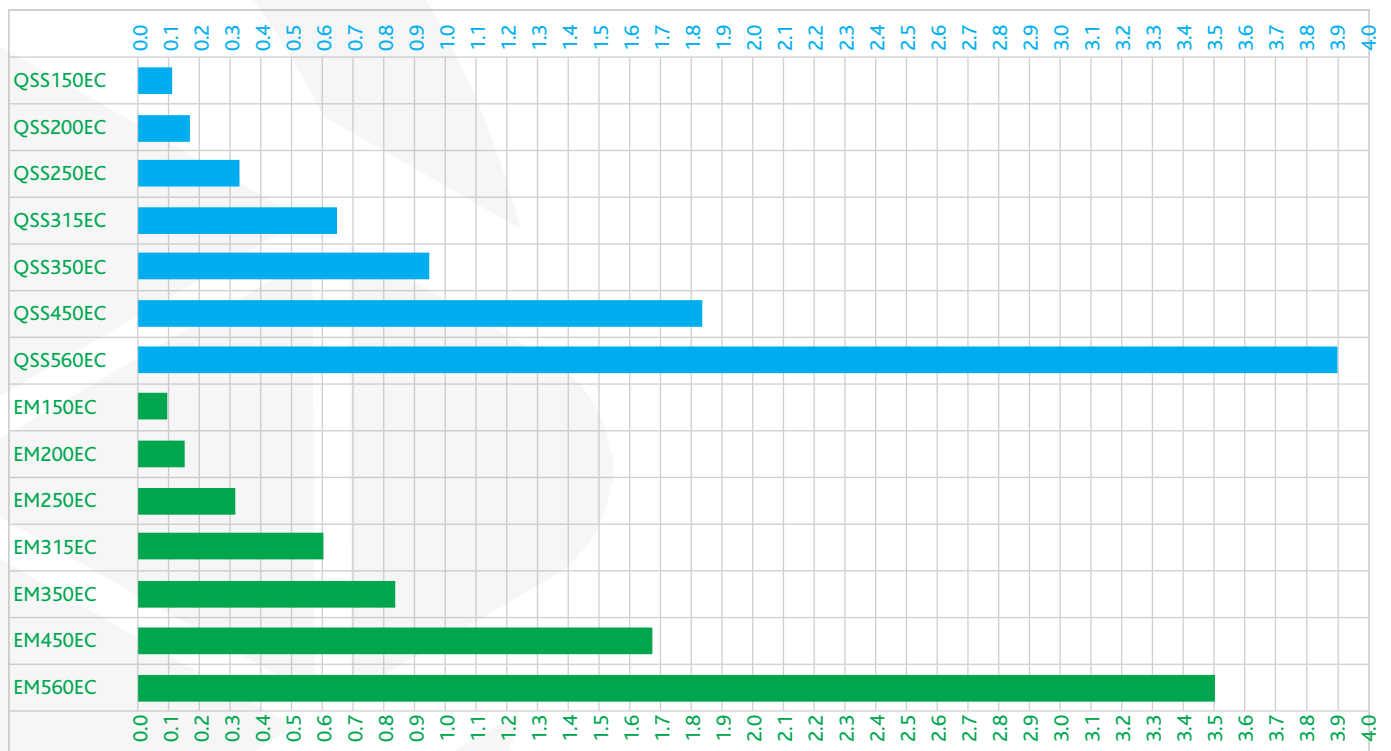
Silencers

AV mounts

Duct clamps

# Selection Chart

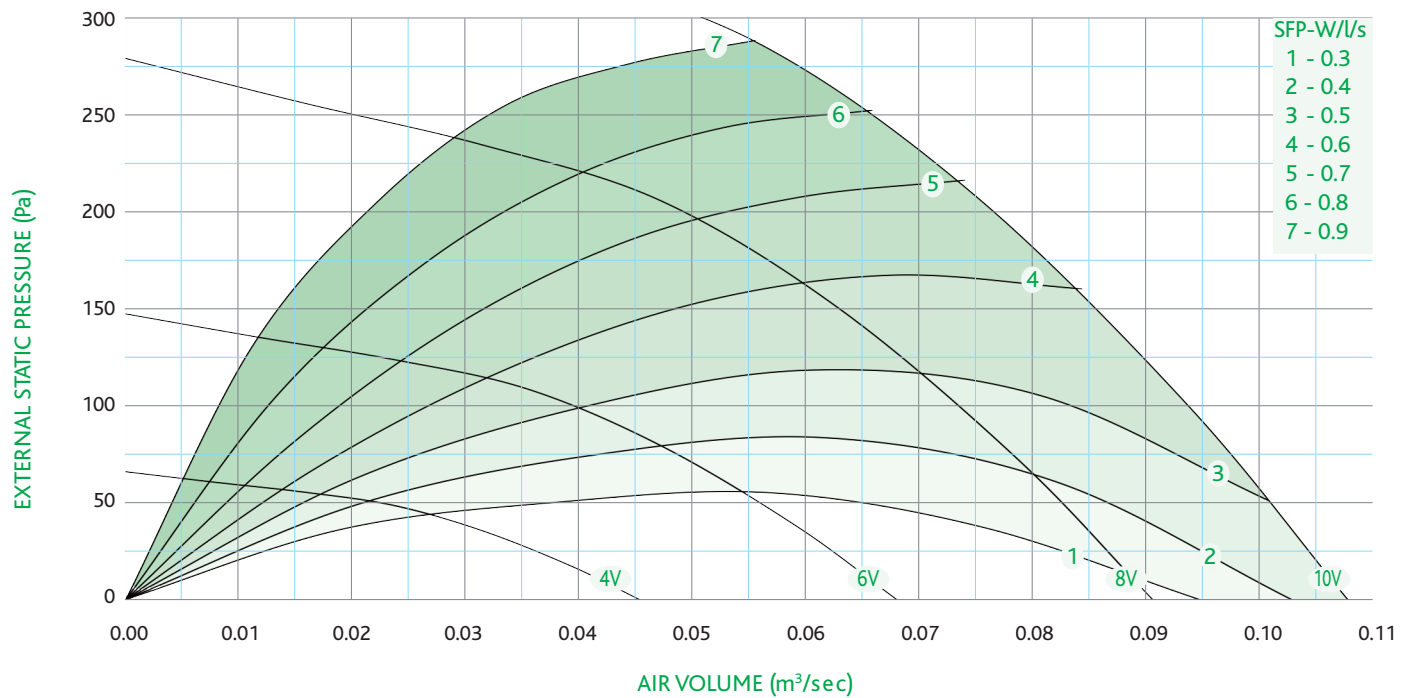
Maximum Air Volume (m<sup>3</sup>/sec)



# infinity® - INTERNAL ACOUSTIC CABINET SINGLE FANS - QSS-EC

## TECHNICAL DATA - QSS 150-EC - internally mounted

### FAN SPEED



Tested in accordance with BS EN ISO 5802:2008+A1:2015 Industrial fans. Performance testing in situ

### ELECTRICAL DATA

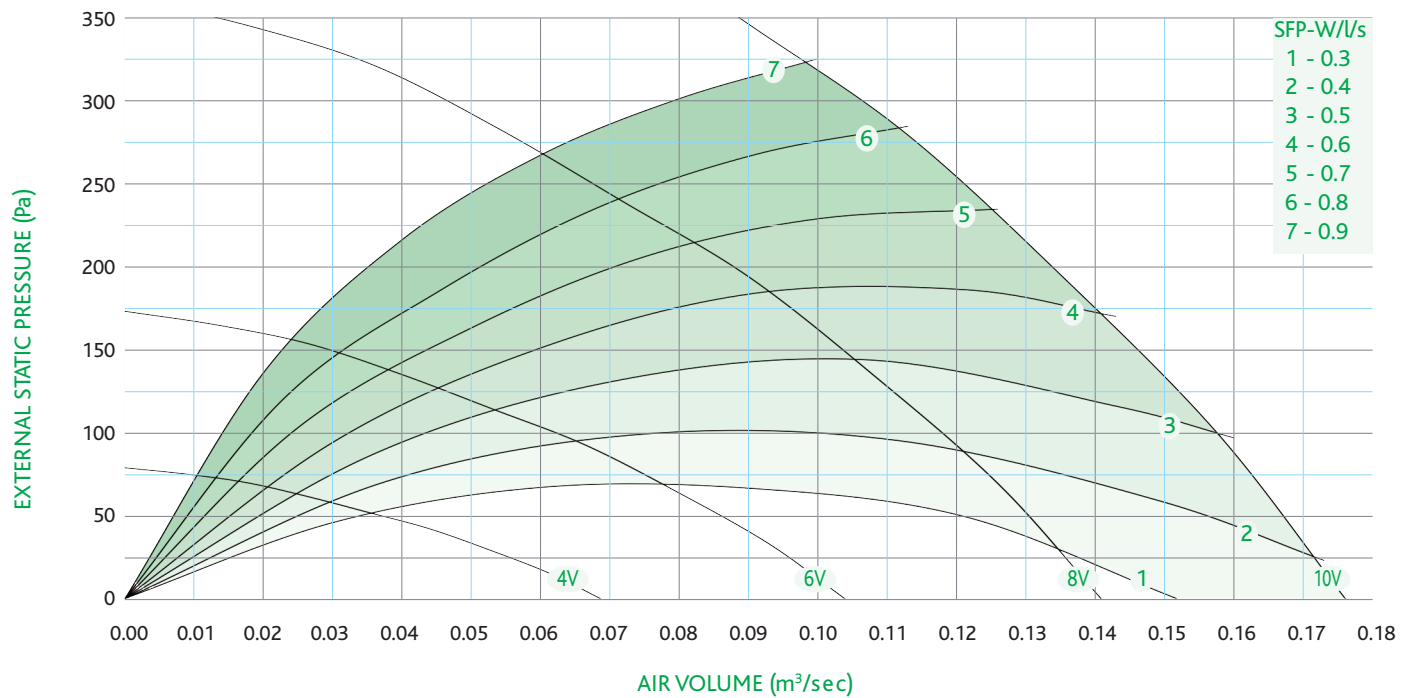
|  | MODEL       | INPUT kW | SUPPLY   | FLC amps | RPM  |
|--|-------------|----------|----------|----------|------|
|  | QSS- 150 EC | 0.05     | 230V 1Ph | 0.46     | 4320 |

| QSS 150 EC<br>@ mid-duty      |                   | Mid Octave Frequency band / Hz |     |     |     |    |    |    |    | Total in Duct |       | Breakout @ 1m |    | Breakout @ 3m |    |
|-------------------------------|-------------------|--------------------------------|-----|-----|-----|----|----|----|----|---------------|-------|---------------|----|---------------|----|
|                               |                   | 63                             | 125 | 250 | 500 | 1k | 2k | 4k | 8k | dB            | dB(A) | dB(A)         | NR | dB(A)         | NR |
| 10V<br>0.077 m³/s<br>@ 200 Pa | Inlet in duct dB  | 58                             | 62  | 63  | 64  | 61 | 59 | 58 | 49 | 70            | 67    | 39            | 34 | 29            | 24 |
|                               | Outlet in duct dB | 63                             | 67  | 68  | 69  | 66 | 64 | 63 | 54 | 75            | 72    |               |    |               |    |
| 8V<br>0.063 m³/s<br>@ 150 Pa  | Inlet in duct dB  | 60                             | 59  | 60  | 60  | 57 | 55 | 53 | 44 | 67            | 63    | 35            | 30 | 26            | 20 |
|                               | Outlet in duct dB | 65                             | 64  | 65  | 65  | 62 | 60 | 58 | 49 | 72            | 68    |               |    |               |    |
| 6V<br>0.040 m³/s<br>@ 100 Pa  | Inlet in duct dB  | 55                             | 55  | 55  | 54  | 51 | 48 | 44 | 34 | 62            | 56    | 30            | 25 | 21            | 15 |
|                               | Outlet in duct dB | 60                             | 60  | 60  | 59  | 56 | 53 | 49 | 39 | 67            | 61    |               |    |               |    |
| 4V<br>0.020 m³/s<br>@ 50 Pa   | Inlet in duct dB  | 48                             | 51  | 48  | 48  | 43 | 39 | 32 | 20 | 55            | 49    | 24            | 18 | 14            | 8  |
|                               | Outlet in duct dB | 53                             | 56  | 53  | 53  | 48 | 44 | 37 | 25 | 60            | 54    |               |    |               |    |

# infinity<sup>®</sup> - INTERNAL ACOUSTIC CABINET SINGLE FANS - QSS-EC

## TECHNICAL DATA - QSS 200-EC - internally mounted

### FAN SPEED



Tested in accordance with BS EN ISO 5802:2008+A1:2015 Industrial fans. Performance testing in situ

### ELECTRICAL DATA

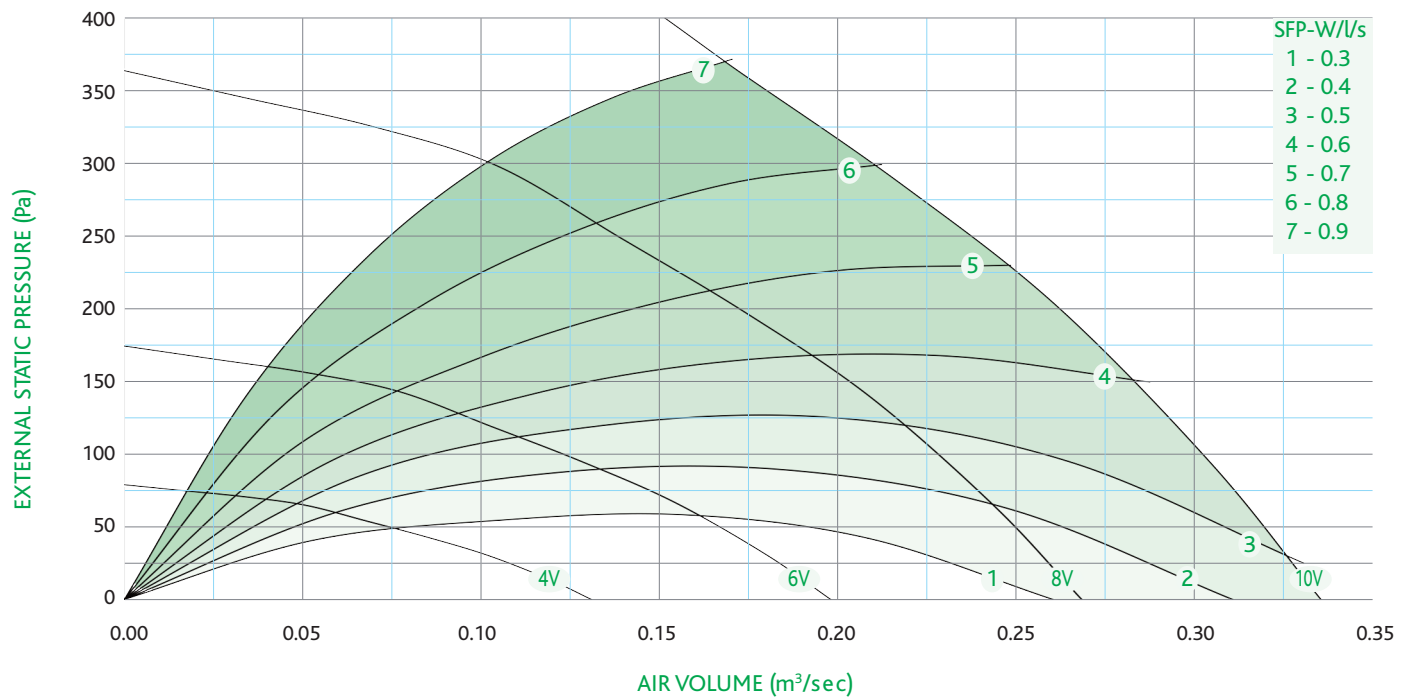
|  | MODEL      | INPUT kW | SUPPLY   | FLC amps | RPM  |
|--|------------|----------|----------|----------|------|
|  | QSS 200 EC | 0.083    | 230V 1Ph | 0.75     | 3200 |

| QSS 200 EC<br>@ mid-duty      |                   | Mid Octave Frequency band / Hz |     |     |     |    |    |    |    | Total in Duct |       | Breakout @ 1m |    | Breakout @ 3m |    |
|-------------------------------|-------------------|--------------------------------|-----|-----|-----|----|----|----|----|---------------|-------|---------------|----|---------------|----|
|                               |                   | 63                             | 125 | 250 | 500 | 1k | 2k | 4k | 8k | dB            | dB(A) | dB(A)         | NR | dB(A)         | NR |
| 10V<br>0.133 m³/s<br>@ 200 Pa | Inlet in duct dB  | 62                             | 62  | 62  | 68  | 59 | 61 | 57 | 53 | 71            | 68    | 41            | 38 | 31            | 28 |
|                               | Outlet in duct dB | 67                             | 67  | 67  | 73  | 64 | 66 | 62 | 58 | 76            | 73    |               |    |               |    |
| 8V<br>0.104 m³/s<br>@ 150 Pa  | Inlet in duct dB  | 56                             | 57  | 56  | 61  | 53 | 53 | 51 | 45 | 65            | 61    | 35            | 32 | 26            | 22 |
|                               | Outlet in duct dB | 63                             | 63  | 62  | 67  | 59 | 61 | 56 | 50 | 71            | 68    |               |    |               |    |
| 6V<br>0.060 m³/s<br>@ 100 Pa  | Inlet in duct dB  | 51                             | 52  | 51  | 56  | 48 | 48 | 41 | 33 | 60            | 56    | 29            | 26 | 20            | 16 |
|                               | Outlet in duct dB | 56                             | 57  | 56  | 61  | 53 | 53 | 46 | 38 | 65            | 61    |               |    |               |    |
| 4V<br>0.035 m³/s<br>@ 50 Pa   | Inlet in duct dB  | 42                             | 43  | 42  | 47  | 39 | 39 | 29 | 19 | 51            | 47    | 20            | 17 | 11            | 7  |
|                               | Outlet in duct dB | 47                             | 48  | 47  | 52  | 44 | 44 | 34 | 24 | 56            | 52    |               |    |               |    |

# infinity® - INTERNAL ACOUSTIC CABINET SINGLE FANS - QSS-EC

## TECHNICAL DATA - QSS 250-EC - internally mounted

### FAN SPEED



Tested in accordance with BS EN ISO 5802:2008+A1:2015 Industrial fans. Performance testing in situ

### ELECTRICAL DATA

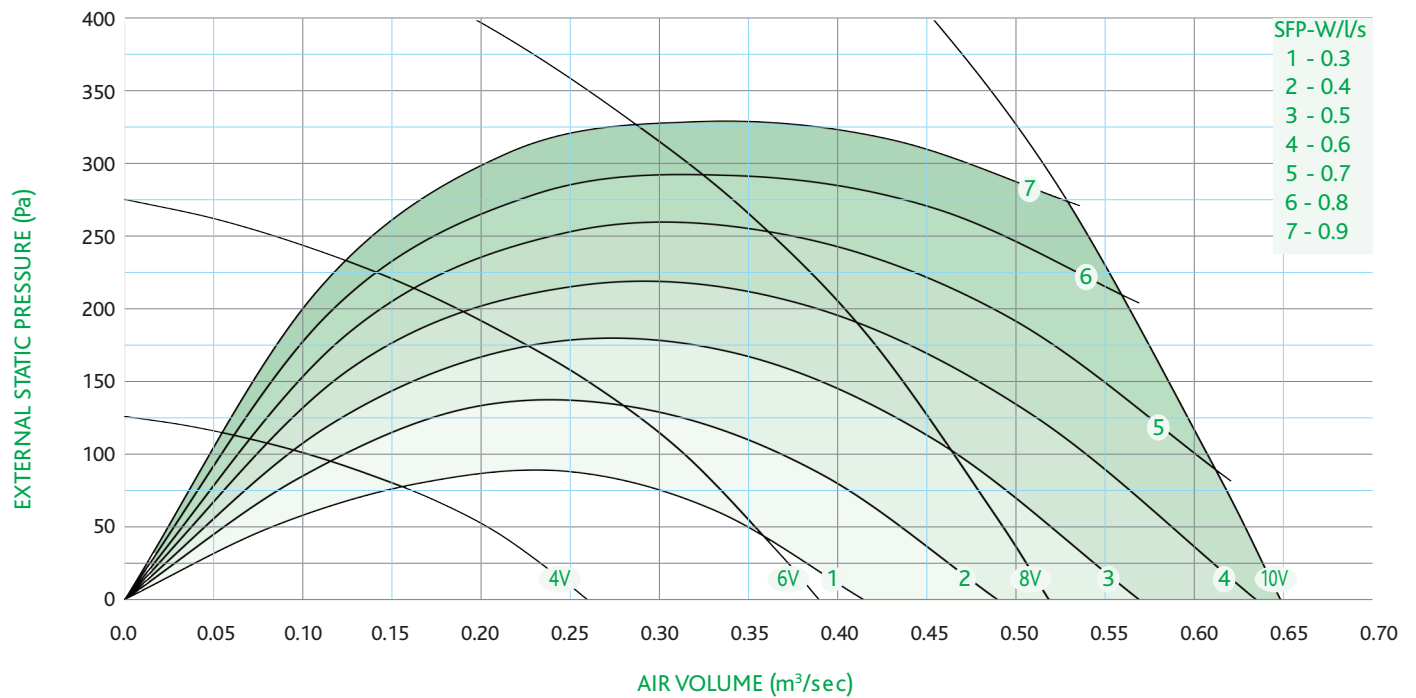
| MODEL      | INPUT kW | SUPPLY   | FLC amps | RPM  |
|------------|----------|----------|----------|------|
| QSS 250 EC | 0.17     | 230V 1Ph | 1.4      | 2510 |

| QSS 250 EC<br>@ mid-duty      |                   | Mid Octave Frequency band / Hz |     |     |     |    |    |    |    | Total in Duct |       | Breakout @ 1m |    | Breakout @ 3m |    |
|-------------------------------|-------------------|--------------------------------|-----|-----|-----|----|----|----|----|---------------|-------|---------------|----|---------------|----|
|                               |                   | 63                             | 125 | 250 | 500 | 1k | 2k | 4k | 8k | dB            | dB(A) | dB(A)         | NR | dB(A)         | NR |
| 10V<br>0.257 m³/s<br>@ 200 Pa | Inlet in duct dB  | 59                             | 63  | 63  | 63  | 62 | 60 | 58 | 51 | 70            | 67    | 39            | 33 | 29            | 23 |
|                               | Outlet in duct dB | 64                             | 68  | 68  | 68  | 67 | 65 | 63 | 56 | 75            | 72    |               |    |               |    |
| 8V<br>0.200 m³/s<br>@ 150 Pa  | Inlet in duct dB  | 55                             | 58  | 58  | 57  | 57 | 55 | 52 | 43 | 65            | 62    | 34            | 28 | 24            | 18 |
|                               | Outlet in duct dB | 60                             | 63  | 63  | 62  | 62 | 60 | 57 | 48 | 70            | 67    |               |    |               |    |
| 6V<br>0.125 m³/s<br>@ 100 Pa  | Inlet in duct dB  | 50                             | 52  | 52  | 52  | 50 | 47 | 42 | 33 | 59            | 55    | 28            | 22 | 18            | 12 |
|                               | Outlet in duct dB | 55                             | 57  | 57  | 57  | 55 | 52 | 47 | 38 | 64            | 60    |               |    |               |    |
| 4V<br>0.075 m³/s<br>@ 50 Pa   | Inlet in duct dB  | 43                             | 45  | 45  | 45  | 42 | 38 | 31 | 20 | 51            | 47    | 21            | 15 | 11            | 5  |
|                               | Outlet in duct dB | 48                             | 50  | 50  | 50  | 47 | 43 | 36 | 25 | 56            | 52    |               |    |               |    |

# infinity<sup>®</sup> - INTERNAL ACOUSTIC CABINET SINGLE FANS - QSS-EC

## TECHNICAL DATA - QSS 315-EC - internally mounted

### FAN SPEED



Tested in accordance with BS EN ISO 5802:2008+A1:2015 Industrial fans. Performance testing in situ

### ELECTRICAL DATA

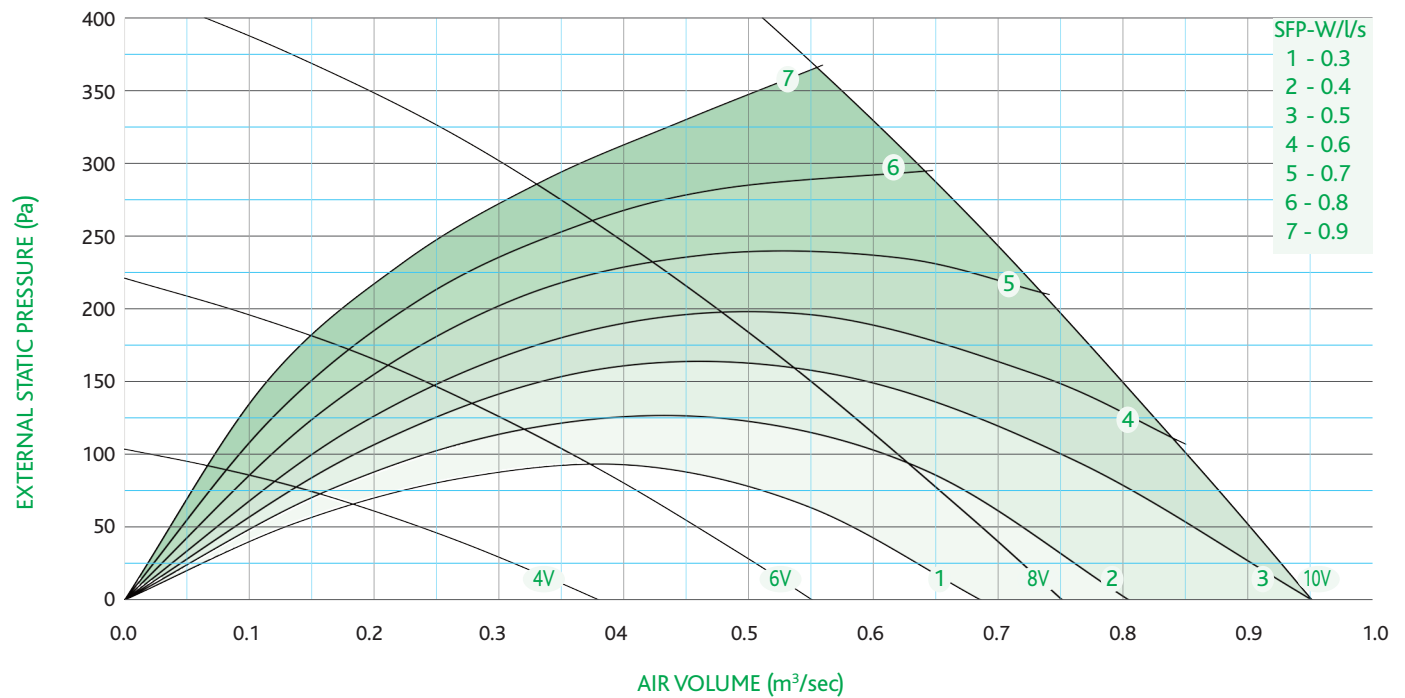
| MODEL      | INPUT kW | SUPPLY   | FLC amps | RPM  |
|------------|----------|----------|----------|------|
| QSS 315 EC | 0.47     | 230V 1Ph | 3.0      | 2435 |

| QSS 315 EC<br>@ mid-duty      |                   | Mid Octave Frequency band / Hz |     |     |     |    |    |    |    | Total in Duct |       | Breakout @ 1m |    | Breakout @ 3m |    |
|-------------------------------|-------------------|--------------------------------|-----|-----|-----|----|----|----|----|---------------|-------|---------------|----|---------------|----|
|                               |                   | 63                             | 125 | 250 | 500 | 1k | 2k | 4k | 8k | dB            | dB(A) | dB(A)         | NR | dB(A)         | NR |
| 10V<br>0.560 m³/s<br>@ 200 Pa | Inlet in duct dB  | 66                             | 71  | 76  | 74  | 72 | 71 | 69 | 62 | 81            | 78    | 50            | 47 | 41            | 37 |
|                               | Outlet in duct dB | 71                             | 76  | 81  | 79  | 77 | 76 | 74 | 67 | 86            | 83    |               |    |               |    |
| 8V<br>0.440 m³/s<br>@ 150 Pa  | Inlet in duct dB  | 62                             | 67  | 70  | 68  | 66 | 65 | 62 | 54 | 75            | 72    | 44            | 41 | 35            | 31 |
|                               | Outlet in duct dB | 67                             | 72  | 75  | 73  | 71 | 70 | 67 | 59 | 80            | 77    |               |    |               |    |
| 6V<br>0.310 m³/s<br>@ 100 Pa  | Inlet in duct dB  | 57                             | 62  | 63  | 61  | 60 | 58 | 54 | 44 | 69            | 65    | 38            | 33 | 28            | 23 |
|                               | Outlet in duct dB | 62                             | 67  | 68  | 66  | 65 | 63 | 59 | 49 | 74            | 70    |               |    |               |    |
| 4V<br>0.200 m³/s<br>@ 50 Pa   | Inlet in duct dB  | 51                             | 54  | 53  | 51  | 51 | 49 | 44 | 31 | 60            | 55    | 28            | 23 | 19            | 12 |
|                               | Outlet in duct dB | 56                             | 59  | 58  | 56  | 56 | 54 | 49 | 36 | 65            | 60    |               |    |               |    |

# infinity<sup>®</sup> - INTERNAL ACOUSTIC CABINET SINGLE FANS - QSS-EC

## TECHNICAL DATA - QSS 350-EC - internally mounted

### FAN SPEED



Tested in accordance with BS EN ISO 5802:2008+A1:2015 Industrial fans. Performance testing in situ

### ELECTRICAL DATA

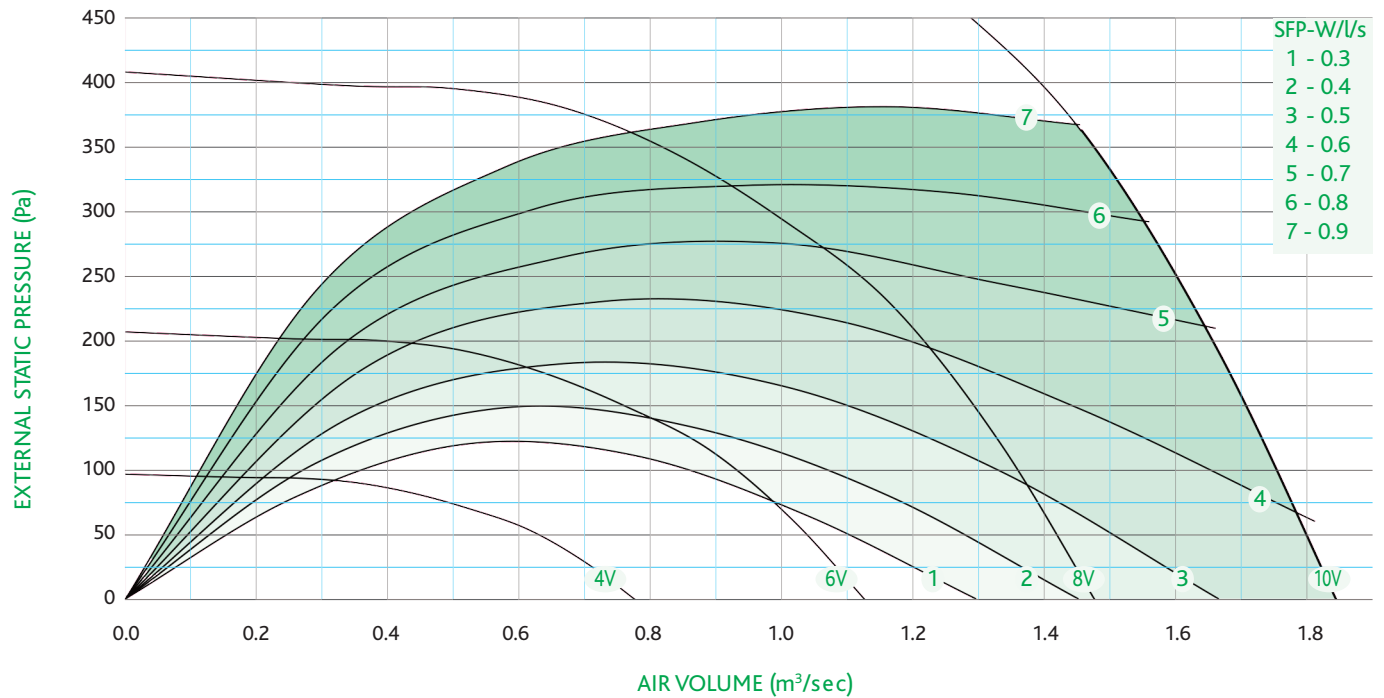
|  | MODEL      | INPUT kW | SUPPLY   | FLC amps | RPM  |
|--|------------|----------|----------|----------|------|
|  | QSS 350 EC | 0.50     | 230V 1Ph | 2.2      | 1850 |

| QSS 350 EC<br>@ mid-duty      |                   | Mid Octave Frequency band / Hz |     |     |     |    |    |    |    | Total in Duct |       | Breakout @ 1m |    | Breakout @ 3m |    |
|-------------------------------|-------------------|--------------------------------|-----|-----|-----|----|----|----|----|---------------|-------|---------------|----|---------------|----|
|                               |                   | 63                             | 125 | 250 | 500 | 1k | 2k | 4k | 8k | dB            | dB(A) | dB(A)         | NR | dB(A)         | NR |
| 10V<br>0.745 m³/s<br>@ 200 Pa | Inlet in duct dB  | 65                             | 74  | 70  | 67  | 62 | 61 | 58 | 50 | 77            | 69    | 45            | 41 | 36            | 31 |
|                               | Outlet in duct dB | 70                             | 79  | 75  | 72  | 67 | 66 | 63 | 55 | 82            | 74    |               |    |               |    |
| 8V<br>0.550 m³/s<br>@ 150 Pa  | Inlet in duct dB  | 61                             | 70  | 65  | 62  | 57 | 55 | 51 | 43 | 72            | 64    | 41            | 36 | 31            | 25 |
|                               | Outlet in duct dB | 66                             | 75  | 70  | 67  | 62 | 60 | 56 | 48 | 77            | 69    |               |    |               |    |
| 6V<br>0.360 m³/s<br>@ 100 Pa  | Inlet in duct dB  | 57                             | 66  | 58  | 57  | 51 | 48 | 43 | 34 | 68            | 58    | 36            | 31 | 26            | 20 |
|                               | Outlet in duct dB | 62                             | 71  | 63  | 62  | 56 | 53 | 48 | 39 | 73            | 63    |               |    |               |    |
| 4V<br>0.230 m³/s<br>@ 50 Pa   | Inlet in duct dB  | 50                             | 59  | 50  | 47  | 42 | 39 | 32 | 20 | 60            | 49    | 28            | 23 | 18            | 12 |
|                               | Outlet in duct dB | 55                             | 64  | 55  | 52  | 47 | 44 | 37 | 25 | 65            | 54    |               |    |               |    |

# infinity<sup>®</sup> - INTERNAL ACOUSTIC CABINET SINGLE FANS - QSS-EC

## TECHNICAL DATA - QSS 450-EC - internally mounted

### FAN SPEED



Tested in accordance with BS EN ISO 5802:2008+A1:2015 Industrial fans. Performance testing in situ

### ELECTRICAL DATA

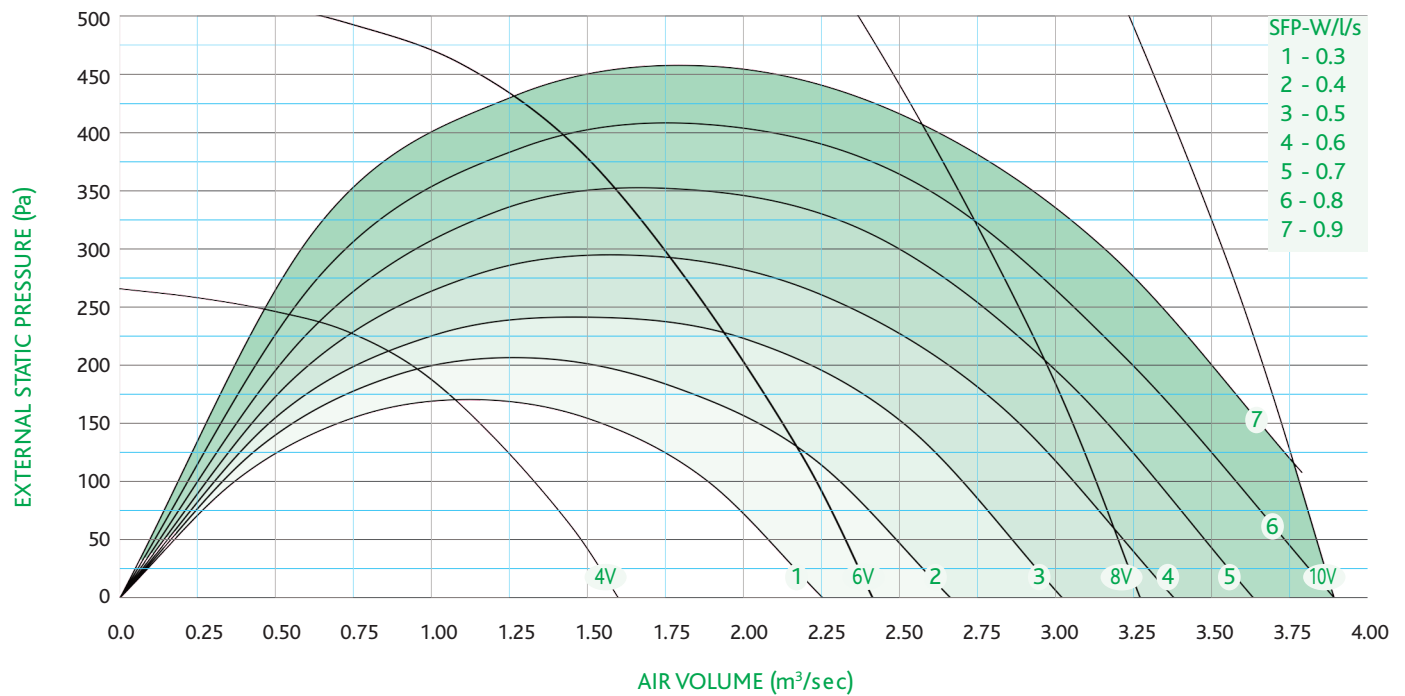
|  | MODEL      | INPUT kW | SUPPLY   | FLC amps | RPM  |
|--|------------|----------|----------|----------|------|
|  | QSS 450 EC | 1.3      | 230V 1Ph | 6.8      | 2020 |

| QSS 450 EC<br>@ mid-duty      |                   | Mid Octave Frequency band / Hz |     |     |     |    |    |    |    | Total in Duct |       | Breakout @ 1m |    | Breakout @ 3m |    |
|-------------------------------|-------------------|--------------------------------|-----|-----|-----|----|----|----|----|---------------|-------|---------------|----|---------------|----|
|                               |                   | 63                             | 125 | 250 | 500 | 1k | 2k | 4k | 8k | dB            | dB(A) | dB(A)         | NR | dB(A)         | NR |
| 10V<br>1.660 m³/s<br>@ 200 Pa | Inlet in duct dB  | 74                             | 77  | 74  | 71  | 65 | 63 | 61 | 66 | 81            | 73    | 51            | 47 | 42            | 36 |
|                               | Outlet in duct dB | 74                             | 85  | 80  | 78  | 76 | 72 | 68 | 71 | 88            | 81    |               |    |               |    |
| 8V<br>1.280 m³/s<br>@ 150 Pa  | Inlet in duct dB  | 68                             | 73  | 69  | 66  | 60 | 58 | 56 | 55 | 76            | 68    | 46            | 43 | 36            | 32 |
|                               | Outlet in duct dB | 69                             | 81  | 71  | 74  | 71 | 67 | 63 | 61 | 83            | 76    |               |    |               |    |
| 6V<br>0.920 m³/s<br>@ 100 Pa  | Inlet in duct dB  | 62                             | 67  | 58  | 56  | 51 | 50 | 50 | 38 | 69            | 59    | 38            | 35 | 29            | 24 |
|                               | Outlet in duct dB | 67                             | 74  | 63  | 65  | 62 | 58 | 56 | 45 | 76            | 67    |               |    |               |    |
| 4V<br>0.610 m³/s<br>@ 50 Pa   | Inlet in duct dB  | 61                             | 51  | 50  | 47  | 44 | 43 | 38 | 27 | 62            | 50    | 26            | 21 | 16            | 11 |
|                               | Outlet in duct dB | 64                             | 53  | 53  | 56  | 54 | 49 | 42 | 31 | 66            | 58    |               |    |               |    |

# infinity<sup>®</sup> - INTERNAL ACOUSTIC CABINET SINGLE FANS - QSS-EC

## TECHNICAL DATA - QSS 560-EC - internally mounted

### FAN SPEED



Tested in accordance with BS EN ISO 5802:2008+A1:2015 Industrial fans. Performance testing in situ

### ELECTRICAL DATA

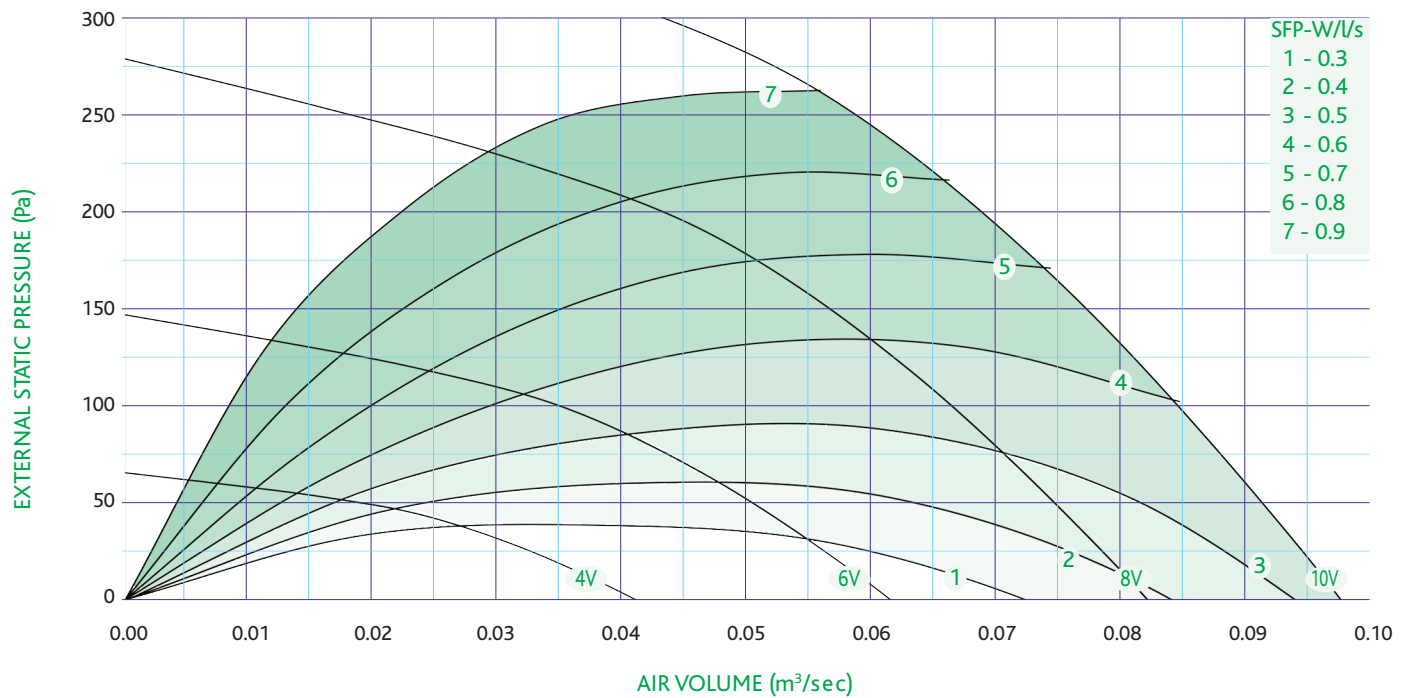
|  | MODEL      | INPUT kW | SUPPLY   | FLC amps | RPM  |
|--|------------|----------|----------|----------|------|
|  | QSS 560 EC | 4.15     | 400V 3Ph | 6.3      | 2480 |

| QSS 560 EC<br>@ mid-duty      |                   | Mid Octave Frequency band / Hz |     |     |     |    |    |    |    | Total in Duct |       | Breakout @ 1m |    | Breakout @ 3m |    |
|-------------------------------|-------------------|--------------------------------|-----|-----|-----|----|----|----|----|---------------|-------|---------------|----|---------------|----|
|                               |                   | 63                             | 125 | 250 | 500 | 1k | 2k | 4k | 8k | dB            | dB(A) | dB(A)         | NR | dB(A)         | NR |
| 10V<br>3.700 m³/s<br>@ 200 Pa | Inlet in duct dB  | 81                             | 80  | 85  | 84  | 80 | 77 | 82 | 82 | 91            | 88    | 58            | 54 | 49            | 44 |
|                               | Outlet in duct dB | 83                             | 82  | 87  | 88  | 87 | 84 | 83 | 83 | 94            | 92    |               |    |               |    |
| 8V<br>2.950 m³/s<br>@ 150 Pa  | Inlet in duct dB  | 69                             | 78  | 77  | 75  | 72 | 71 | 77 | 73 | 84            | 81    | 51            | 45 | 41            | 36 |
|                               | Outlet in duct dB | 73                             | 79  | 78  | 80  | 80 | 77 | 79 | 75 | 87            | 85    |               |    |               |    |
| 6V<br>2.300 m³/s<br>@ 100 Pa  | Inlet in duct dB  | 68                             | 73  | 71  | 69  | 66 | 70 | 71 | 62 | 79            | 76    | 45            | 39 | 35            | 28 |
|                               | Outlet in duct dB | 70                             | 75  | 73  | 73  | 73 | 74 | 73 | 63 | 82            | 80    |               |    |               |    |
| 4V<br>1.450 m³/s<br>@ 50 Pa   | Inlet in duct dB  | 63                             | 59  | 58  | 56  | 55 | 62 | 52 | 45 | 68            | 65    | 32            | 27 | 23            | 17 |
|                               | Outlet in duct dB | 66                             | 60  | 59  | 61  | 62 | 66 | 54 | 45 | 71            | 69    |               |    |               |    |

# infinity® - EXTERNAL ACOUSTIC CABINET SINGLE FANS - EM-EC

## TECHNICAL DATA - EM 150-EC - externally mounted

### FAN SPEED



Tested in accordance with BS EN ISO 5802:2008+A1:2015 Industrial fans. Performance testing in situ

### ELECTRICAL DATA

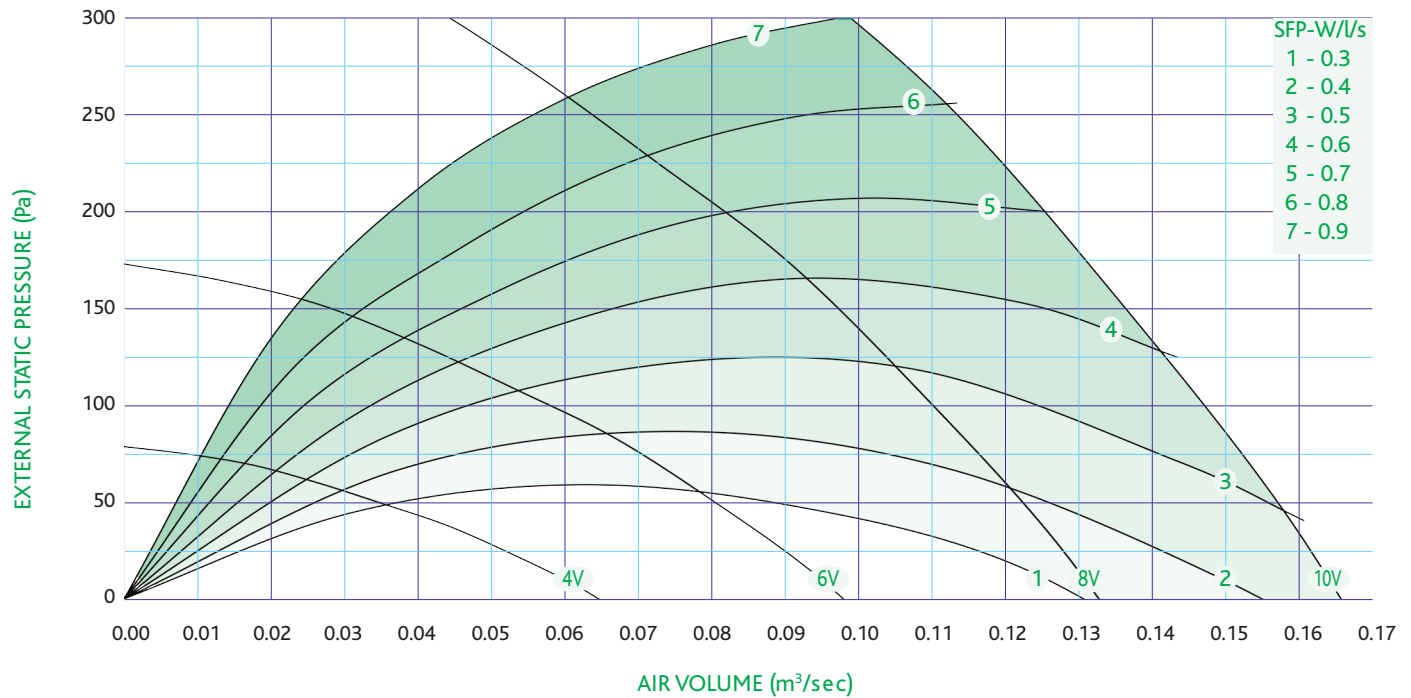
| MODEL     | INPUT kW | SUPPLY   | FLC amps | RPM  |
|-----------|----------|----------|----------|------|
| EM 150 EC | 0.05     | 230V 1Ph | 0.46     | 4320 |

| EM 150 EC<br>@ mid-duty       |                   | Mid Octave Frequency band / Hz |     |     |     |    |    |    |    | Total in Duct |       | Breakout @ 1m |    | Breakout @ 3m |    |
|-------------------------------|-------------------|--------------------------------|-----|-----|-----|----|----|----|----|---------------|-------|---------------|----|---------------|----|
|                               |                   | 63                             | 125 | 250 | 500 | 1k | 2k | 4k | 8k | dB            | dB(A) | dB(A)         | NR | dB(A)         | NR |
| 10V<br>0.077 m³/s<br>@ 200 Pa | Inlet in duct dB  | 58                             | 62  | 63  | 64  | 61 | 59 | 58 | 49 | 70            | 67    | 39            | 34 | 29            | 24 |
|                               | Outlet in duct dB | 63                             | 67  | 68  | 69  | 66 | 64 | 63 | 54 | 75            | 72    |               |    |               |    |
| 8V<br>0.063 m³/s<br>@ 150 Pa  | Inlet in duct dB  | 60                             | 59  | 60  | 60  | 57 | 55 | 53 | 44 | 67            | 63    | 35            | 30 | 26            | 20 |
|                               | Outlet in duct dB | 65                             | 64  | 65  | 65  | 62 | 60 | 58 | 49 | 72            | 68    |               |    |               |    |
| 6V<br>0.040 m³/s<br>@ 100 Pa  | Inlet in duct dB  | 55                             | 55  | 55  | 54  | 51 | 48 | 44 | 34 | 62            | 56    | 30            | 25 | 21            | 15 |
|                               | Outlet in duct dB | 60                             | 60  | 60  | 59  | 56 | 53 | 49 | 39 | 67            | 61    |               |    |               |    |
| 4V<br>0.020 m³/s<br>@ 50 Pa   | Inlet in duct dB  | 48                             | 51  | 48  | 48  | 43 | 39 | 32 | 20 | 55            | 49    | 24            | 18 | 14            | 8  |
|                               | Outlet in duct dB | 53                             | 56  | 53  | 53  | 48 | 44 | 37 | 25 | 60            | 54    |               |    |               |    |

# infinity® - EXTERNAL ACOUSTIC CABINET SINGLE FANS - EM-EC

## TECHNICAL DATA - EM 200-EC - externally mounted

### FAN SPEED



Tested in accordance with BS EN ISO 5802:2008+A1:2015 Industrial fans. Performance testing in situ

### ELECTRICAL DATA

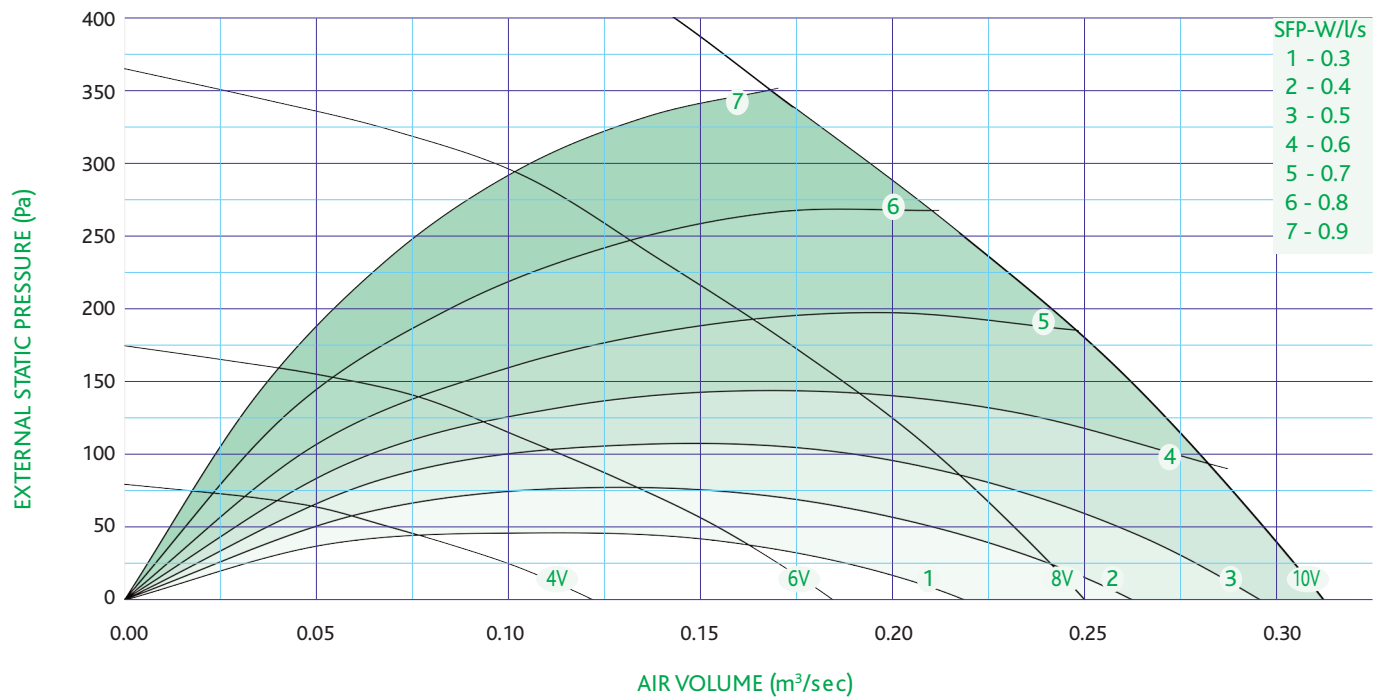
|  | MODEL     | INPUT kW | SUPPLY   | FLC amps | RPM  |
|--|-----------|----------|----------|----------|------|
|  | EM 200 EC | 0.083    | 230V 1Ph | 0.75     | 3200 |

| EM 200 EC<br>@ mid-duty       |                   | Mid Octave Frequency band / Hz |     |     |     |    |    |    |    | Total in Duct |       | Breakout @ 1m |    | Breakout @ 3m |    |
|-------------------------------|-------------------|--------------------------------|-----|-----|-----|----|----|----|----|---------------|-------|---------------|----|---------------|----|
|                               |                   | 63                             | 125 | 250 | 500 | 1k | 2k | 4k | 8k | dB            | dB(A) | dB(A)         | NR | dB(A)         | NR |
| 10V<br>0.133 m³/s<br>@ 200 Pa | Inlet in duct dB  | 62                             | 62  | 62  | 68  | 59 | 61 | 57 | 53 | 71            | 68    | 41            | 38 | 31            | 28 |
|                               | Outlet in duct dB | 67                             | 67  | 67  | 73  | 64 | 66 | 62 | 58 | 76            | 73    |               |    |               |    |
| 8V<br>0.104 m³/s<br>@ 150 Pa  | Inlet in duct dB  | 56                             | 57  | 56  | 61  | 53 | 53 | 51 | 45 | 65            | 61    | 35            | 32 | 26            | 22 |
|                               | Outlet in duct dB | 63                             | 63  | 62  | 67  | 59 | 61 | 56 | 50 | 71            | 68    |               |    |               |    |
| 6V<br>0.060 m³/s<br>@ 100 Pa  | Inlet in duct dB  | 51                             | 52  | 51  | 56  | 48 | 48 | 41 | 33 | 60            | 56    | 29            | 26 | 20            | 16 |
|                               | Outlet in duct dB | 56                             | 57  | 56  | 61  | 53 | 53 | 46 | 38 | 65            | 61    |               |    |               |    |
| 4V<br>0.035 m³/s<br>@ 50 Pa   | Inlet in duct dB  | 42                             | 43  | 42  | 47  | 39 | 39 | 29 | 19 | 51            | 47    | 20            | 17 | 11            | 7  |
|                               | Outlet in duct dB | 47                             | 48  | 47  | 52  | 44 | 44 | 34 | 24 | 56            | 52    |               |    |               |    |

# infinity® - EXTERNAL ACOUSTIC CABINET SINGLE FANS - EM-EC

## TECHNICAL DATA - EM 250-EC - externally mounted

### FAN SPEED



Tested in accordance with BS EN ISO 5802:2008+A1:2015 Industrial fans. Performance testing in situ

### ELECTRICAL DATA

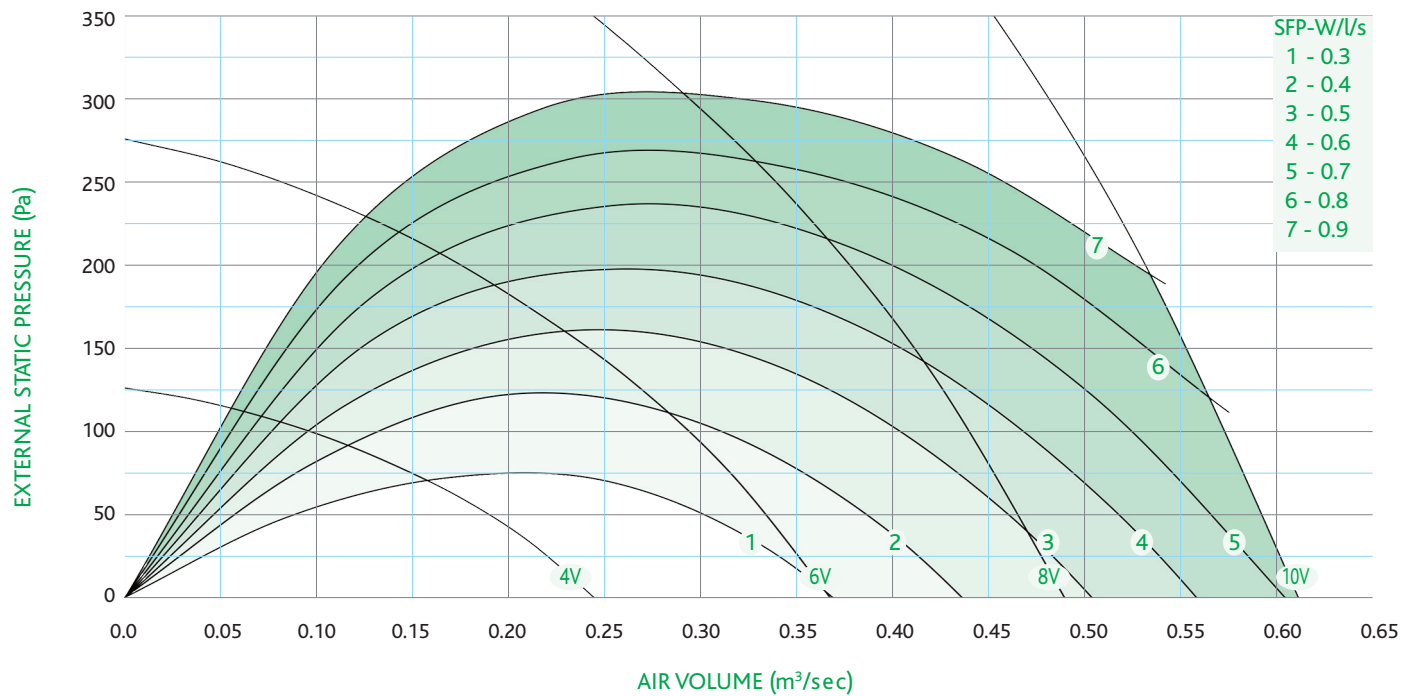
|  | MODEL     | INPUT kW | SUPPLY   | FLC amps | RPM  |
|--|-----------|----------|----------|----------|------|
|  | EM 250 EC | 0.17     | 230V 1Ph | 1.4      | 2510 |

| EM 250 EC<br>@ mid-duty       |                   | Mid Octave Frequency band / Hz |     |     |     |    |    |    |    | Total in Duct |       | Breakout @ 1m |    | Breakout @ 3m |    |
|-------------------------------|-------------------|--------------------------------|-----|-----|-----|----|----|----|----|---------------|-------|---------------|----|---------------|----|
|                               |                   | 63                             | 125 | 250 | 500 | 1k | 2k | 4k | 8k | dB            | dB(A) | dB(A)         | NR | dB(A)         | NR |
| 10V<br>0.257 m³/s<br>@ 200 Pa | Inlet in duct dB  | 59                             | 63  | 63  | 63  | 62 | 60 | 58 | 51 | 70            | 67    | 39            | 33 | 29            | 23 |
|                               | Outlet in duct dB | 64                             | 68  | 68  | 68  | 67 | 65 | 63 | 56 | 75            | 72    |               |    |               |    |
| 8V<br>0.200 m³/s<br>@ 150 Pa  | Inlet in duct dB  | 55                             | 58  | 58  | 57  | 57 | 55 | 52 | 43 | 65            | 62    | 34            | 28 | 24            | 18 |
|                               | Outlet in duct dB | 60                             | 63  | 63  | 62  | 62 | 60 | 57 | 48 | 70            | 67    |               |    |               |    |
| 6V<br>0.125 m³/s<br>@ 100 Pa  | Inlet in duct dB  | 50                             | 52  | 52  | 52  | 50 | 47 | 42 | 33 | 59            | 55    | 28            | 22 | 18            | 12 |
|                               | Outlet in duct dB | 55                             | 57  | 57  | 57  | 55 | 52 | 47 | 38 | 64            | 60    |               |    |               |    |
| 4V<br>0.075 m³/s<br>@ 50 Pa   | Inlet in duct dB  | 43                             | 45  | 45  | 45  | 42 | 38 | 31 | 20 | 51            | 47    | 21            | 15 | 11            | 5  |
|                               | Outlet in duct dB | 48                             | 50  | 50  | 50  | 47 | 43 | 36 | 25 | 56            | 52    |               |    |               |    |

# infinity® - EXTERNAL ACOUSTIC CABINET SINGLE FANS - EM-EC

## TECHNICAL DATA - EM 315-EC - externally mounted

### FAN SPEED



Tested in accordance with BS EN ISO 5802:2008+A1:2015 Industrial fans. Performance testing in situ

### ELECTRICAL DATA

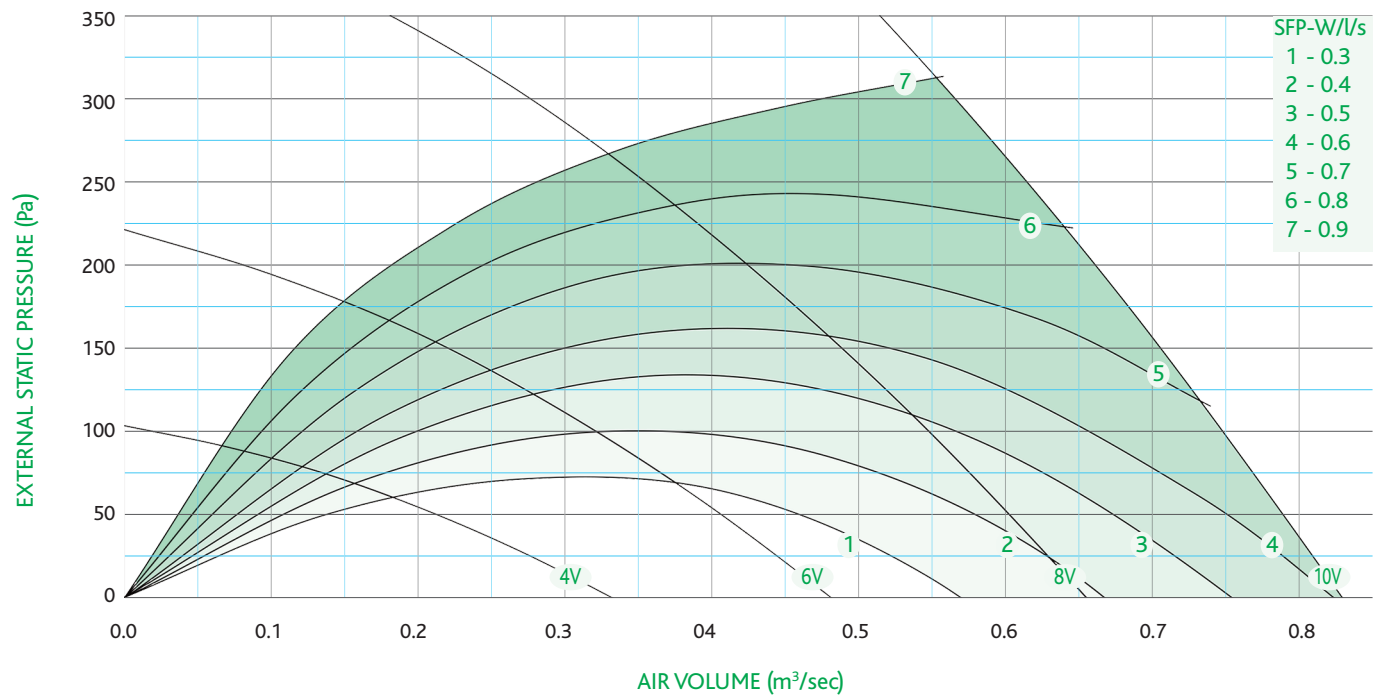
| MODEL     | INPUT kW | SUPPLY   | FLC amps | RPM  |
|-----------|----------|----------|----------|------|
| EM 315 EC | 0.47     | 230V 1Ph | 3.0      | 2435 |

| EM 315 EC<br>@ mid-duty       |                   | Mid Octave Frequency band / Hz |     |     |     |    |    |    |    | Total in Duct |       | Breakout @ 1m |    | Breakout @ 3m |    |
|-------------------------------|-------------------|--------------------------------|-----|-----|-----|----|----|----|----|---------------|-------|---------------|----|---------------|----|
|                               |                   | 63                             | 125 | 250 | 500 | 1k | 2k | 4k | 8k | dB            | dB(A) | dB(A)         | NR | dB(A)         | NR |
| 10V<br>0.610 m³/s<br>@ 200 Pa | Inlet in duct dB  | 66                             | 71  | 76  | 74  | 72 | 71 | 69 | 62 | 81            | 78    | 50            | 47 | 41            | 37 |
|                               | Outlet in duct dB | 71                             | 76  | 81  | 79  | 77 | 76 | 74 | 67 | 86            | 83    |               |    |               |    |
| 8V<br>0.470 m³/s<br>@ 150 Pa  | Inlet in duct dB  | 62                             | 67  | 70  | 68  | 66 | 65 | 62 | 54 | 75            | 72    | 44            | 41 | 35            | 31 |
|                               | Outlet in duct dB | 67                             | 72  | 75  | 73  | 71 | 70 | 67 | 59 | 80            | 77    |               |    |               |    |
| 6V<br>0.340 m³/s<br>@ 100 Pa  | Inlet in duct dB  | 57                             | 62  | 63  | 61  | 60 | 58 | 54 | 44 | 69            | 65    | 38            | 33 | 28            | 23 |
|                               | Outlet in duct dB | 62                             | 67  | 68  | 66  | 65 | 63 | 59 | 49 | 74            | 70    |               |    |               |    |
| 4V<br>0.220 m³/s<br>@ 50 Pa   | Inlet in duct dB  | 51                             | 54  | 53  | 51  | 51 | 49 | 44 | 31 | 60            | 55    | 28            | 23 | 19            | 12 |
|                               | Outlet in duct dB | 56                             | 59  | 58  | 56  | 56 | 54 | 49 | 36 | 65            | 60    |               |    |               |    |

# infinity® - EXTERNAL ACOUSTIC CABINET SINGLE FANS - EM-EC

## TECHNICAL DATA - EM 350-EC - externally mounted

### FAN SPEED



Tested in accordance with BS EN ISO 5802:2008+A1:2015 Industrial fans. Performance testing in situ

### ELECTRICAL DATA

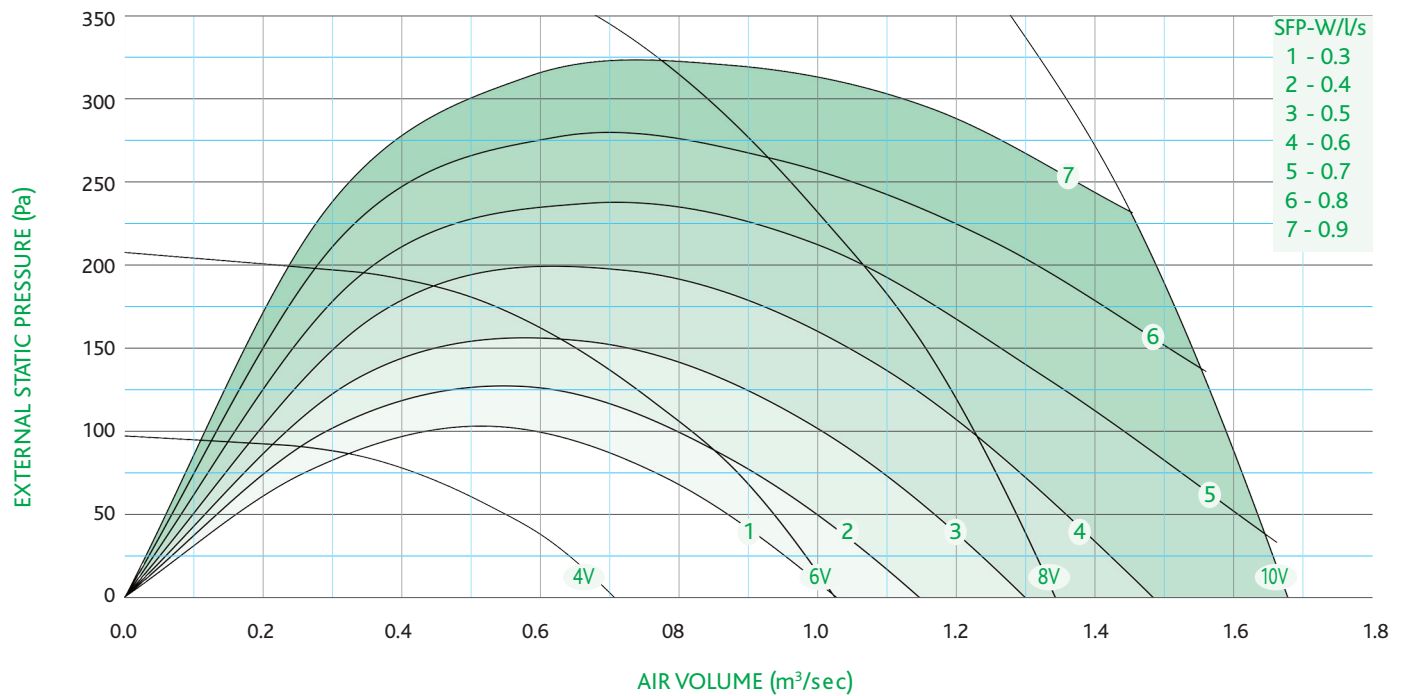
|  | MODEL     | INPUT kW | SUPPLY   | FLC amps | RPM  |
|--|-----------|----------|----------|----------|------|
|  | EM 350 EC | 0.50     | 230V 1Ph | 2.2      | 1850 |

| EM 350 EC<br>@ mid-duty       |                   | Mid Octave Frequency band / Hz |     |     |     |    |    |    |    | Total in Duct |       | Breakout @ 1m |    | Breakout @ 3m |    |
|-------------------------------|-------------------|--------------------------------|-----|-----|-----|----|----|----|----|---------------|-------|---------------|----|---------------|----|
|                               |                   | 63                             | 125 | 250 | 500 | 1k | 2k | 4k | 8k | dB            | dB(A) | dB(A)         | NR | dB(A)         | NR |
| 10V<br>0.745 m³/s<br>@ 200 Pa | Inlet in duct dB  | 65                             | 74  | 70  | 67  | 62 | 61 | 58 | 50 | 77            | 69    | 45            | 41 | 36            | 31 |
|                               | Outlet in duct dB | 70                             | 79  | 75  | 72  | 67 | 66 | 63 | 55 | 82            | 74    |               |    |               |    |
| 8V<br>0.550 m³/s<br>@ 150 Pa  | Inlet in duct dB  | 61                             | 70  | 65  | 62  | 57 | 55 | 51 | 43 | 72            | 64    | 41            | 36 | 31            | 25 |
|                               | Outlet in duct dB | 66                             | 75  | 70  | 67  | 62 | 60 | 56 | 48 | 77            | 69    |               |    |               |    |
| 6V<br>0.360 m³/s<br>@ 100 Pa  | Inlet in duct dB  | 57                             | 66  | 58  | 57  | 51 | 48 | 43 | 34 | 68            | 58    | 36            | 31 | 26            | 20 |
|                               | Outlet in duct dB | 62                             | 71  | 63  | 62  | 56 | 53 | 48 | 39 | 73            | 63    |               |    |               |    |
| 4V<br>0.230 m³/s<br>@ 50 Pa   | Inlet in duct dB  | 50                             | 59  | 50  | 47  | 42 | 39 | 32 | 20 | 60            | 49    | 28            | 23 | 18            | 12 |
|                               | Outlet in duct dB | 55                             | 64  | 55  | 52  | 47 | 44 | 37 | 25 | 65            | 54    |               |    |               |    |

# infinity® - EXTERNAL ACOUSTIC CABINET SINGLE FANS - EM-EC

## TECHNICAL DATA - EM 450-EC - externally mounted

### FAN SPEED



Tested in accordance with BS EN ISO 5802:2008+A1:2015 Industrial fans. Performance testing in situ

### ELECTRICAL DATA

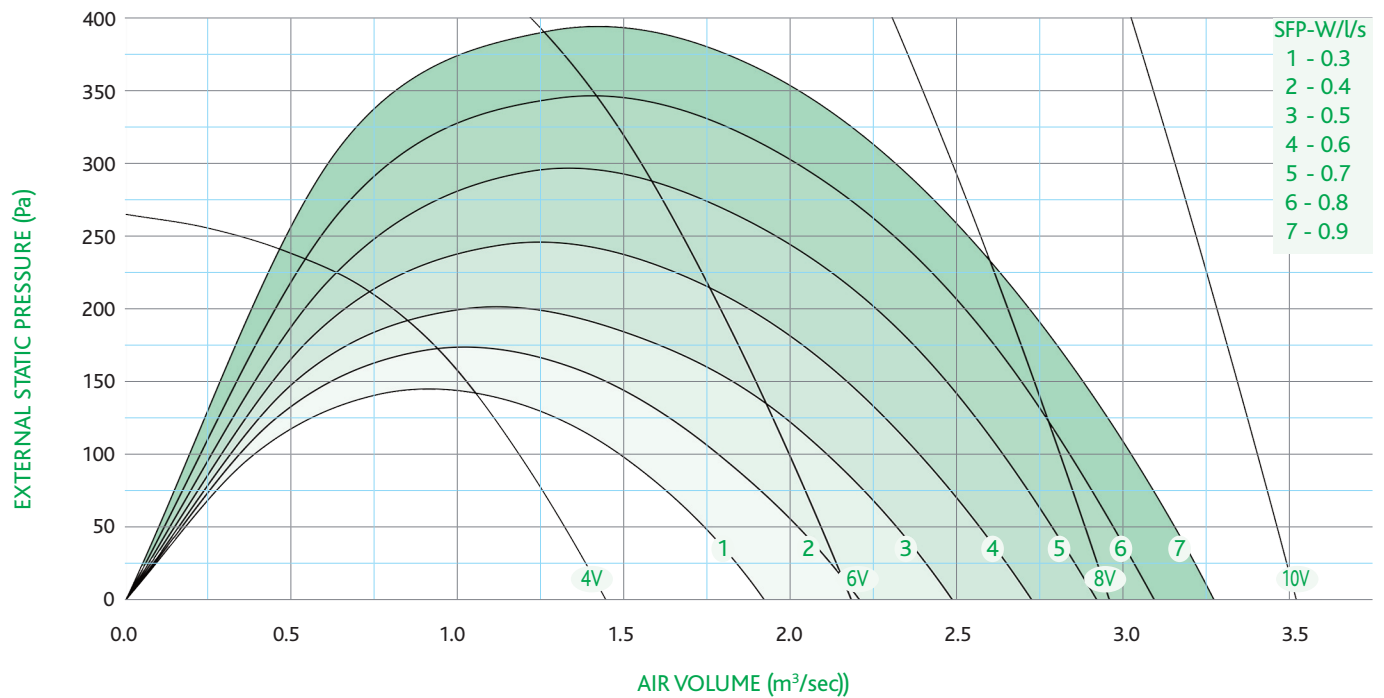
| MODEL     | INPUT kW | SUPPLY   | FLC amps | RPM  |
|-----------|----------|----------|----------|------|
| EM 450 EC | 1.3      | 230V 1Ph | 6.8      | 2020 |

| EM 450 EC<br>@ mid-duty       |                   | Mid Octave Frequency band / Hz |     |     |     |    |    |    |    | Total in Duct |       | Breakout @ 1m |    | Breakout @ 3m |    |
|-------------------------------|-------------------|--------------------------------|-----|-----|-----|----|----|----|----|---------------|-------|---------------|----|---------------|----|
|                               |                   | 63                             | 125 | 250 | 500 | 1k | 2k | 4k | 8k | dB            | dB(A) | dB(A)         | NR | dB(A)         | NR |
| 10V<br>1.660 m³/s<br>@ 200 Pa | Inlet in duct dB  | 74                             | 77  | 74  | 71  | 65 | 63 | 61 | 66 | 81            | 73    | 51            | 47 | 42            | 36 |
|                               | Outlet in duct dB | 74                             | 85  | 80  | 78  | 76 | 72 | 68 | 71 | 88            | 81    |               |    |               |    |
| 8V<br>1.280 m³/s<br>@ 150 Pa  | Inlet in duct dB  | 68                             | 73  | 69  | 66  | 60 | 58 | 56 | 55 | 76            | 68    | 46            | 43 | 36            | 32 |
|                               | Outlet in duct dB | 69                             | 81  | 71  | 74  | 71 | 67 | 63 | 61 | 83            | 76    |               |    |               |    |
| 6V<br>0.920 m³/s<br>@ 100 Pa  | Inlet in duct dB  | 62                             | 67  | 58  | 56  | 51 | 50 | 50 | 38 | 69            | 59    | 38            | 35 | 29            | 24 |
|                               | Outlet in duct dB | 67                             | 74  | 63  | 65  | 62 | 58 | 56 | 45 | 76            | 67    |               |    |               |    |
| 4V<br>0.610 m³/s<br>@ 50 Pa   | Inlet in duct dB  | 61                             | 51  | 50  | 47  | 44 | 43 | 38 | 27 | 62            | 50    | 26            | 21 | 16            | 11 |
|                               | Outlet in duct dB | 64                             | 53  | 53  | 56  | 54 | 49 | 42 | 31 | 66            | 58    |               |    |               |    |

# infinity® - EXTERNAL ACOUSTIC CABINET SINGLE FANS - EM-EC

## TECHNICAL DATA - EM 560-EC - externally mounted

### FAN SPEED



Tested in accordance with BS EN ISO 5802:2008+A1:2015 Industrial fans. Performance testing in situ

### ELECTRICAL DATA

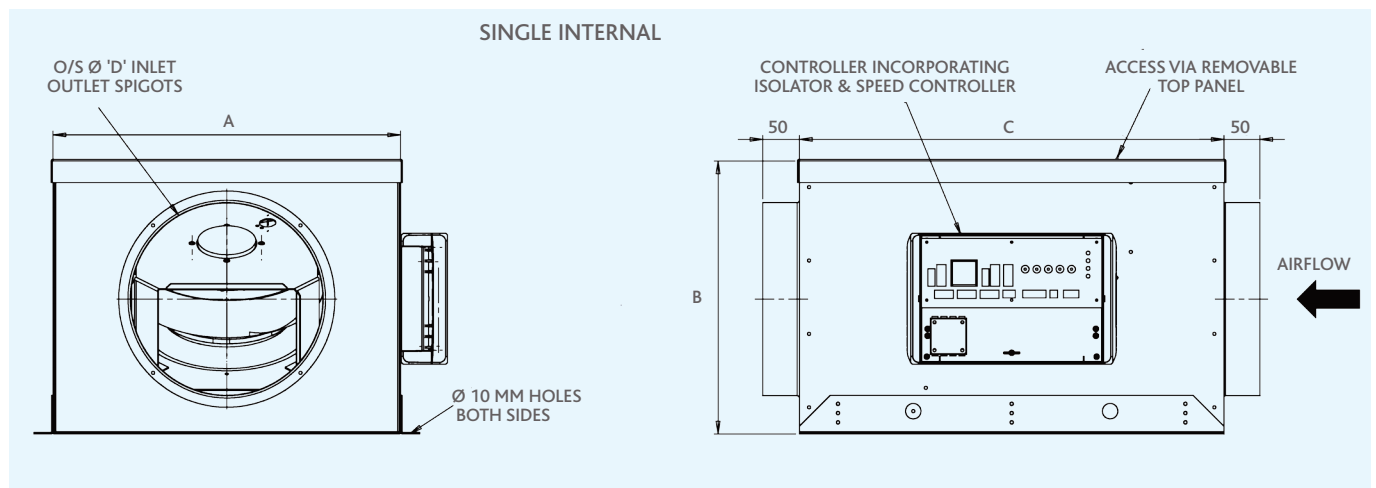
| MODEL     | INPUT kW | SUPPLY   | FLC amps | RPM  |
|-----------|----------|----------|----------|------|
| EM 560 EC | 4.15     | 400V 3Ph | 6.3      | 2480 |

| EM 560 EC<br>@ mid-duty       |                   | Mid Octave Frequency band / Hz |     |     |     |    |    |    |    | Total in Duct |       | Breakout @ 1m |    | Breakout @ 3m |    |
|-------------------------------|-------------------|--------------------------------|-----|-----|-----|----|----|----|----|---------------|-------|---------------|----|---------------|----|
|                               |                   | 63                             | 125 | 250 | 500 | 1k | 2k | 4k | 8k | dB            | dB(A) | dB(A)         | NR | dB(A)         | NR |
| 10V<br>3.700 m³/s<br>@ 200 Pa | Inlet in duct dB  | 81                             | 80  | 85  | 84  | 80 | 77 | 82 | 82 | 91            | 88    | 58            | 54 | 49            | 44 |
|                               | Outlet in duct dB | 83                             | 82  | 87  | 88  | 87 | 84 | 83 | 83 | 94            | 92    |               |    |               |    |
| 8V<br>2.950 m³/s<br>@ 150 Pa  | Inlet in duct dB  | 69                             | 78  | 77  | 75  | 72 | 71 | 77 | 73 | 84            | 81    | 51            | 45 | 41            | 36 |
|                               | Outlet in duct dB | 73                             | 79  | 78  | 80  | 80 | 77 | 79 | 75 | 87            | 85    |               |    |               |    |
| 6V<br>2.300 m³/s<br>@ 100 Pa  | Inlet in duct dB  | 68                             | 73  | 71  | 69  | 66 | 70 | 71 | 62 | 79            | 76    | 45            | 39 | 35            | 28 |
|                               | Outlet in duct dB | 70                             | 75  | 73  | 73  | 73 | 74 | 73 | 63 | 82            | 80    |               |    |               |    |
| 4V<br>1.450 m³/s<br>@ 50 Pa   | Inlet in duct dB  | 63                             | 59  | 58  | 56  | 55 | 62 | 52 | 45 | 68            | 65    | 32            | 27 | 23            | 17 |
|                               | Outlet in duct dB | 66                             | 60  | 59  | 61  | 62 | 66 | 54 | 45 | 71            | 69    |               |    |               |    |

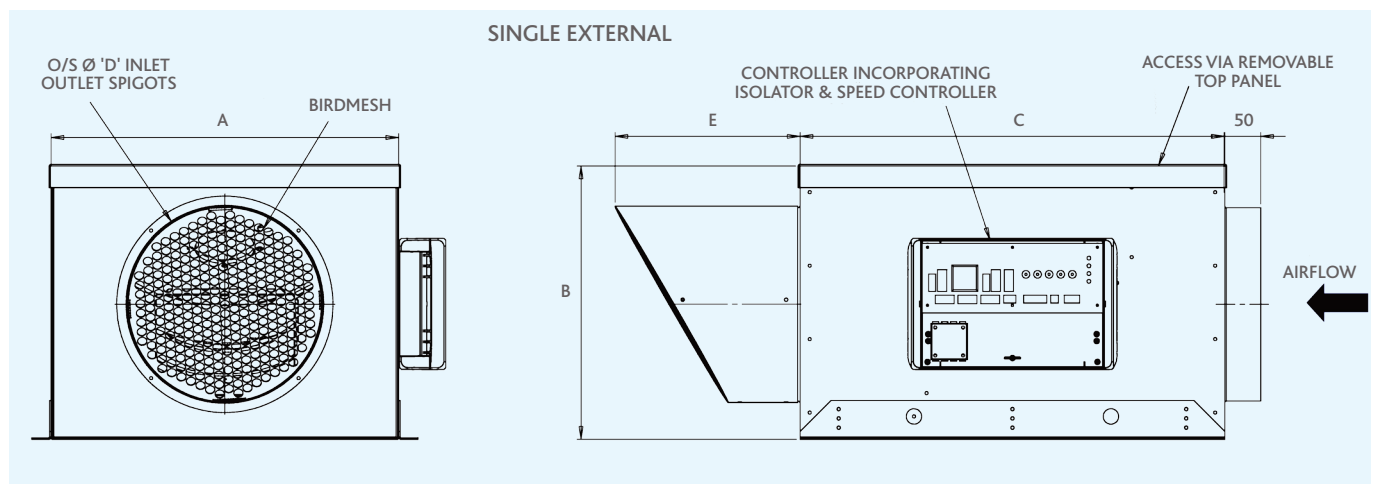
# *infinity*<sup>®</sup> - INTERNAL AND EXTERNAL ACOUSTIC CABINET

## SINGLE FANS QSS-EC, EM-EC

### UNIT DIMENSIONS



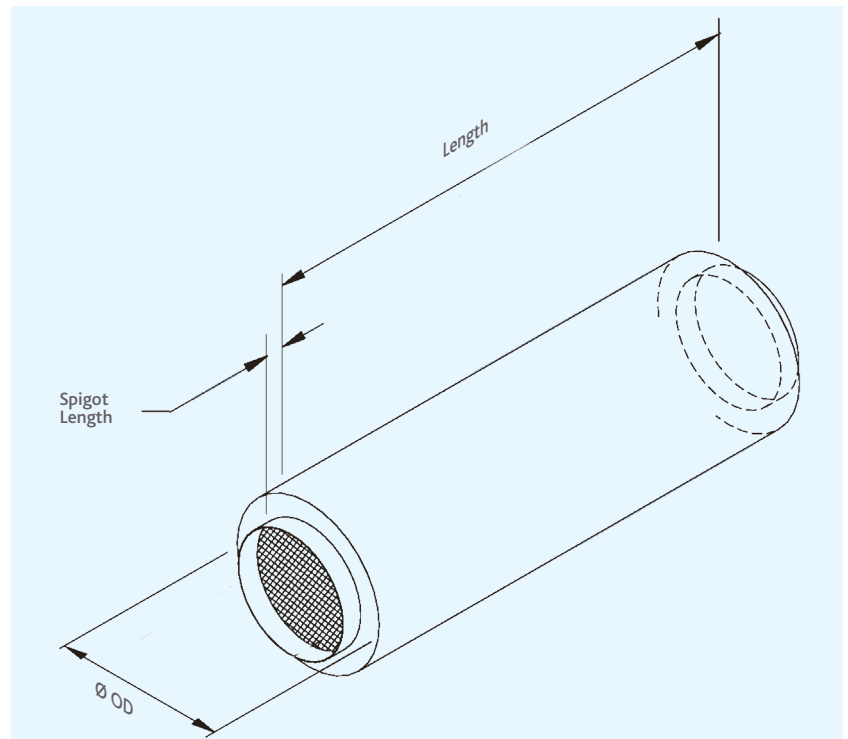
| SINGLE INTERNAL AND EXTERNAL |     |     |      |     |     |             |             |               |          |
|------------------------------|-----|-----|------|-----|-----|-------------|-------------|---------------|----------|
| Model                        | A   | B   | C    | D   | E   | kg internal | kg external | trickle/boost | Isolator |
| 150-EC                       | 250 | 250 | 300  | 150 | 180 | 9           | 10          | yes           | yes      |
| 200-EC                       | 350 | 250 | 400  | 200 | 210 | 14          | 15          | yes           | yes      |
| 250-EC                       | 450 | 350 | 550  | 250 | 240 | 26          | 27          | yes           | yes      |
| 315-EC                       | 550 | 400 | 600  | 310 | 275 | 32          | 33          | yes           | yes      |
| 350-EC                       | 650 | 550 | 650  | 350 | 295 | 45          | 47          | yes           | yes      |
| 450-EC                       | 750 | 650 | 975  | 450 | 350 | 74          | 80          | yes           | yes      |
| 560-EC                       | 950 | 800 | 1100 | 560 | 415 | 114         | 118         | yes           | yes      |



## infinity<sup>®</sup> - INTERNAL AND EXTERNAL ACOUSTIC CABINET SINGLE FANS QSS-EC, EM-EC

### ANCILLARIES - ATTENUATOR

- Circular duct attenuator
- Constructed from spiral wound, galvanised sheet steel.
- Peripheral out of airstream acoustic lining.
- Spigot connections with EPDM seals for slip jointing to adjoining duct work

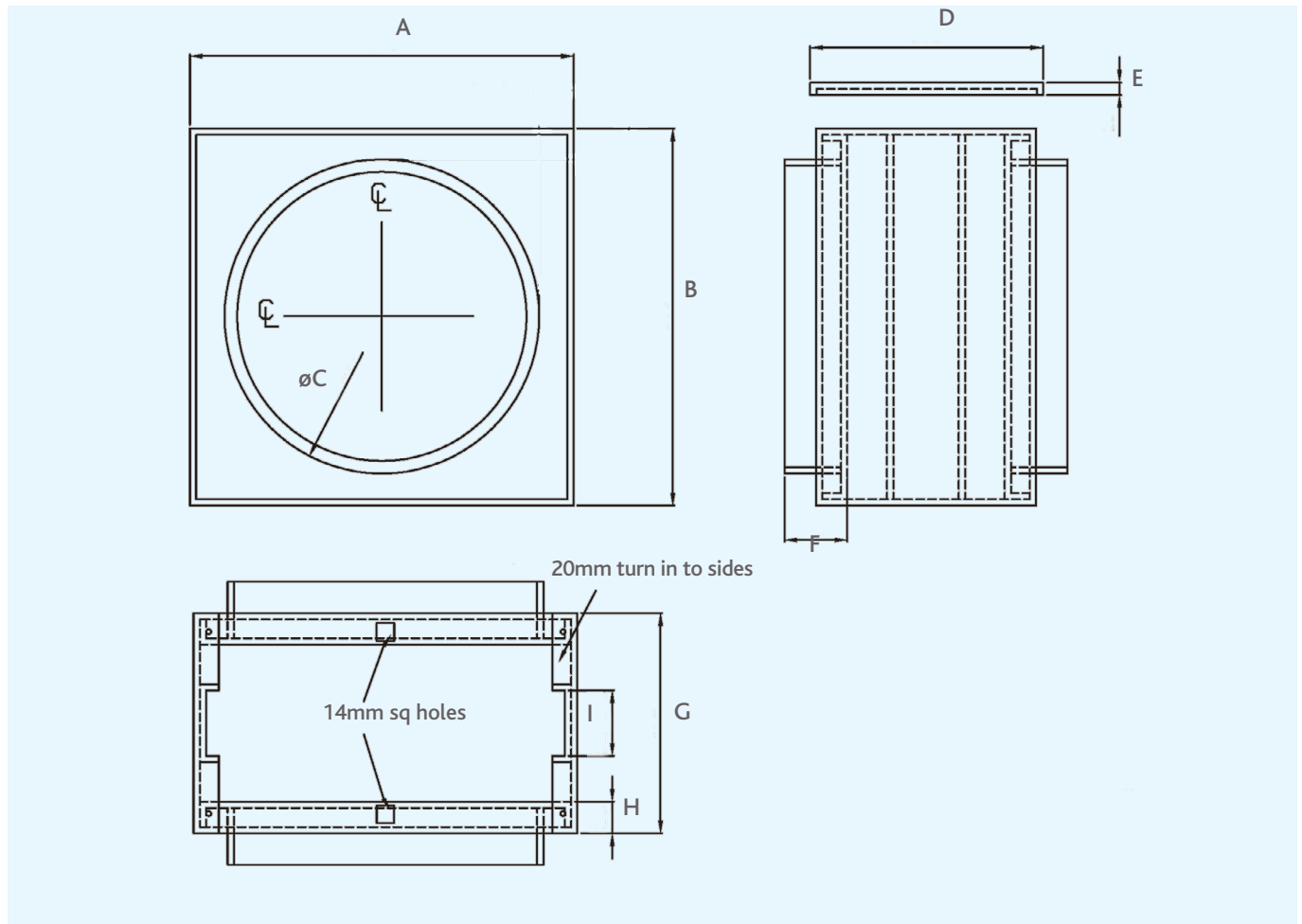


| Model     | Length | Spigot Length | External Diameter |
|-----------|--------|---------------|-------------------|
| SIL150/60 | 600    | 38            | 255               |
| SIL200/60 | 600    | 38            | 305               |
| SIL250/60 | 600    | 38            | 360               |
| SIL315/60 | 600    | 38            | 405               |
| SIL350/60 | 600    | 38            | 455               |
| SIL450/60 | 600    | 38            | 565               |
| SIL560/60 | 600    | 38            | 605               |
| SIL150/90 | 900    | 38            | 255               |
| SIL200/90 | 900    | 38            | 305               |
| SIL250/90 | 900    | 38            | 360               |
| SIL315/90 | 900    | 38            | 405               |
| SIL350/90 | 900    | 38            | 455               |
| SIL450/90 | 900    | 38            | 565               |
| SIL560/90 | 900    | 38            | 605               |

Dimensions in mm

## *infinity*<sup>®</sup> - INTERNAL AND EXTERNAL ACOUSTIC CABINET SINGLE FANS QSS-EC, EM-EC

### ANCILLARIES - FILTER BOX WITH G3 FILTER



| Model  | A   | B   | $\varnothing C$ | D   | E  | F  | G   | H  | I     |
|--------|-----|-----|-----------------|-----|----|----|-----|----|-------|
| FUV150 | 204 | 198 | 150             | 185 | 10 | 50 | 175 | 25 | 52i/s |
| FUV200 | 254 | 249 | 200             | 185 | 10 | 50 | 175 | 25 | 52i/s |
| FUV250 | 305 | 300 | 250             | 185 | 10 | 50 | 175 | 25 | 52i/s |
| FUV315 | 350 | 376 | 315             | 185 | 10 | 50 | 175 | 25 | 52i/s |
| FUV350 | 455 | 450 | 350             | 210 | 10 | 50 | 200 | 25 | 52i/s |
| FUV450 | 500 | 505 | 450             | 210 | 10 | 50 | 200 | 25 | 52i/s |
| FUV560 | 600 | 605 | 560             | 210 | 10 | 50 | 200 | 25 | 98i/s |

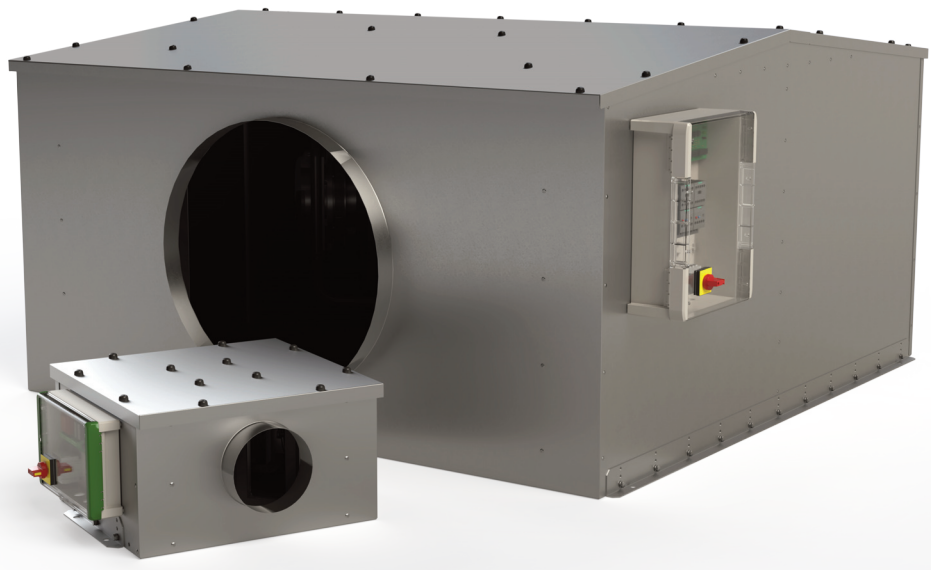
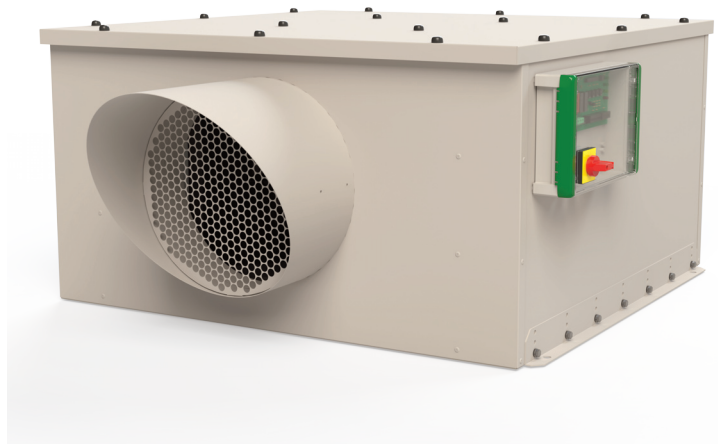
Dimensions in mm

## OTHER AIR VENT TECHNOLOGY PRODUCTS

### *infinity*<sup>®</sup> – ACOUSTIC CABINET FANS

#### TWIN FAN MODELS

- To complement our Single Fan range, we can also supply Twin Fan models.
- Twin Fan Models up to 3.8 m<sup>3</sup>/sec.
- Internal and External mounted versions.
- Acoustic lining to reduce noise breakout.
- EC fans, direct drive.
- Low SFP to help achieve L2 Regulations.
- All units are fitted with pre-wired auto changeover panel saving time and money on site. The CP's features comprise:
  - VFC BMS enable
  - VFC BMS boost
  - Fan fault BMS link
  - Remote 0-10V speed control
  - Duty Share (adjustable)
  - Run on timer for boost 0-20 minutes)
  - Trickle and boost setting
  - P.I.R. enabled Boost



Products manufactured in the UK to ISO 9001:2015 and ISO 14001:2015

## OTHER AIR VENT TECHNOLOGY PRODUCTS

### SOLUTIONS FOR VENTILATION



- Other *infinity*® products include a range of counter flow heat recovery units which operate with the range of 0.07m³/sec to 4.0m³/sec.
- They are low energy, direct drive EC fans built to comply with L2 regulations.
- They have counter flow heat exchangers for increased energy recovery with F7 and M5 filters fitted as standard.
- The enhanced case construction (25mm double skin construction with rockwool on all units and 40mm on underside of smaller internal units) is designed to reduce noise breakout.
- Slimline construction to assist installation in restricted areas.
- Multiple access for easy maintenance.
- Up to 90% efficient
- Fitted controls
- We can offer bespoke units up to 20 m³/s. Cases can be constructed with 25mm or 50mm panels. Multiple configurations and non-standard sizes are available.

Products manufactured in the UK to ISO 9001:2015 and ISO 14001:2015

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## Air Vent Technology Ltd

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### HOW WE CAN HELP

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#### COMPANY PROFILE

- Air Vent Technology is a privately owned company established in 1996, based in Hampshire.
- We are part of the **Vectaire** group of companies.
- We are specialists in the design of Air Handling products for the building services industry.
- Bespoke Air Handling Units.
- Heat Recovery Units.
- Extract and Supply fans.
- Associated Controls.
- We are committed to manufacturing with the benefits it gives.
- Design flexibility offering project specific solutions.
- Competitive prices and delivery periods direct from the U.K.
- UK based product support and Service direct from Air Vent Technology.
- UK based Research and Design.
- Products are manufactured in the UK to ISO 9001:2015 and ISO 14001:2015.

#### HOW CAN WE HELP?

##### Every project is different.

- We can give help and advice on product selection, applications and current regulations pertinent to your project.
- This ensures the best solution possible.

##### How do we do this?

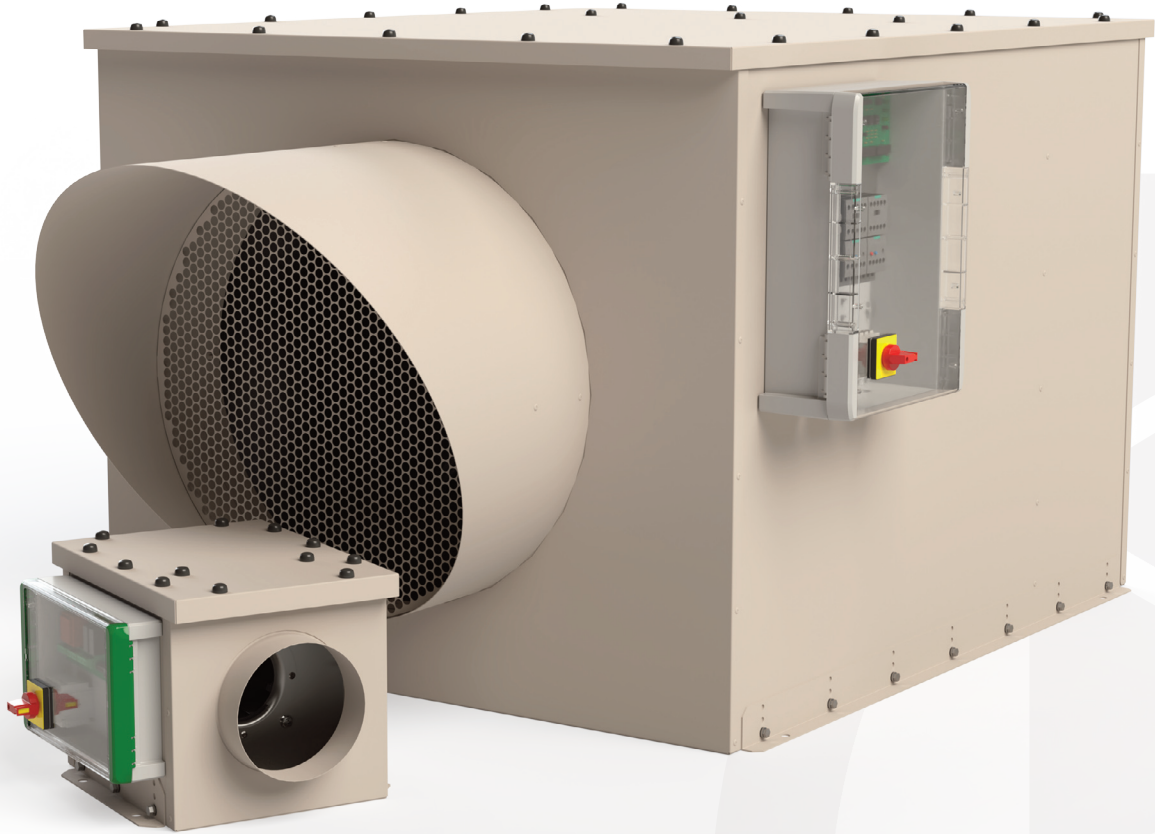
- Technical sales engineers to offer help and advice.
- Design packages to provide full technical quotations.
- Our own design office with in-depth product knowledge.
- Regional Sales Engineers who can visit your office or site.

T: +44(0) 1264 356415

E: [sales@airventtechnology.co.uk](mailto:sales@airventtechnology.co.uk)

[www.airventtechnology.co.uk](http://www.airventtechnology.co.uk)

*Please contact Air Vent Technology Ltd to discuss your requirements*



## *infinity*<sup>®</sup>

Acoustic Cabinet Fans - Single Fan Models  
Up to 3.9 m<sup>3</sup>/sec  
EC Motors  
Low Specific Fan Power



### Air Vent Technology Ltd

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Andover, Hampshire, SP10 3TY

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[www.airventtechnology.co.uk](http://www.airventtechnology.co.uk)

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