# Extraction System Statement 

40 Market Street<br>Wymondham<br>NR18 0BB

The extraction system will be installed（EOA）to the below specification and in compliance with the Environmental Health Officer＇s comments．

The duct will be fixed to the shell of the unit using anti－vibration fixing mounts and under no circumstances will flexible ductwork be used other than the fan connections

The proposed kitchen canopy will be fitted with baffle type grease filters and drain points for the collection of grease，

Ductwork will discharge from canopy and out of the side elevation where we will have a set of pre filters followed by the extract fan the duct work will terminate via an external louvre box grille．This type of outlet has been chosen due to the low level odour generated from the oven baked foods．

## Technical Details（spec sheets included）

Grease filters－ $16 \times 16304$ grade stainless steel

Pre－Filters－ $24 \times 24$ g4 grade v panel x 2

Silencers－CP03－ 0560 1D x 2no

Extract fan－S\＆P TCCBX 2／4 500mm，with termination via a louvre box grille

## System Maintenance

Daily，Wipe down canopy and filters－Weekly，Remove canopy filters clean and soak overnight－Monthly， change disposable prefilters

Annual TR19 clean by contract cleaning company



Contra rotating: High pressure
Contra rotating system with two complementary impellers allowing the duplication of the pressure with the same air volume.


Impeller dynamically balanced
Impellers are dynamically balanced, according to ISO 1940 standard, giving vibration free operation.


## Corrosion resistance

Rolled steel casings and motor support protected by cataforesis primer and black polyester paint finish. Stainless steel screws.


Terminal box
Wiring terminal box with cable gland PG-11.

Range of cylindrical cased axial fans fitted with aluminium impellers and manufactured from high grade rolled galvanised steel and protected against corrosion by cataforesis primer and black polyester paint finish. Fited with 2 contra rotating complementary impellers manufactured from die-cast aluminium.
All models are supplied with pre-wired wiring junction box located on the outside of the fan casing for easy wiring access.
Available with single or three phase 4 poles motors.

## Motors

All the motors are IP65, Class F insulation (1), equipped with thermal protection.
Single phase motors are variable voltage (Excepted TCBBX2/4-630).
Three phase motors suitable for inverter control.
Electrical supplies:
Single phase $230 \mathrm{~V}-50 \mathrm{~Hz}$ (Capacitor located inside the wiring terminal box) Three phase $230 / 400 \mathrm{~V}-50 \mathrm{~Hz}$.
(1) Working temperatures from $-40^{\circ} \mathrm{C}$ up to $70^{\circ} \mathrm{C}$.


## TeCHnICal CHaraCTerIsTICs

Before installation check that the product electrical characteristics listed on the data plate label (voltage, power, frequency, etc.) match those of the intended electrical supply.

| Model | speed (rpm) | Diameter (mm) | Maximum absorbed power (W) | Maximum absorbed current <br> (a) | sound pressure level* (dB(a)) | Maximum air volume ( $\mathrm{m}^{3} / \mathrm{h}$ ) | Weight (kg) | speed controller rMB/T | Variable frequency inverter |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  | VFKB |  |
|  |  |  |  | to $\mathbf{2 3 0} \mathrm{V}$ to $\mathbf{4 0 0} \mathrm{V}$ |  |  |  |  | 1/230V** | 3/400V | 1/230V** | 3/400V |


| TCBBx2/4-450 | 1420 | 450 | 1316 | 5,7 | - | 74 | 7.430 | 42 | RMB-8 | - | - | - | - |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TCBBx2/4-500 | 1370 | 500 | 1957 | 9,0 | - | 76 | 9.950 | 50 | RMB-10 | - | - | - | - |
| TCBBx2/4-560 | 1370 | 560 | 2972 | 13,6 | - | 78 | 13.930 | 66 | - | - | - | - | - |
| TCBBx2/4-630 | 1400 | 630 | 3671 | 16,3 | - | 79 | 16.560 | 80 | - | - | - | - | - |
| THREE PHASE |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TCBTx2/4-450 | 1430 | 450 | 1309 | 5,2 | 3 | 74 | 7.250 | 42 | RMT-5 | VFTMMONO 1,1 | VFTM TRI1,1 | VFKB 27 | VFKB 45 |
| TCBTx2/4-500 | 1390 | 500 | 1700 | 5,8 | 3,4 | 76 | 9.800 | 50 | RMT-5 | VFTMMONO 1,1 | VFTM TRI1,5 | VFKB 27 | VFKB 45 |
| TCBTx2/4-560 | 1390 | 560 | 3173 | 10,0 | 5,8 | 78 | 15.170 | 66 | - | VFTMMONO 2,2 | VFTM TRI 3 | - | VFKB 48 |
| TCBTx2/4-630 | 1445 | 630 | 4014 | - | 7,4 | 79 | 17.810 | 80 | - | - | VFTM TRI 4 | - | VFKB 48 |

* Sound pressure level, measured in free field condition at a distance equivalent of three times the diameter of the impeller or a minimum of 1.5 meters wichever is the greater.
** Only for fans fitted with three phase motors 230/400V.


## aCousTIC CHaraCTerIsTICs

The sound levels-NPS-shown in the technical characteristic chart, correspond to the value of sound pressure dB(A), measured in free field conditions at a distance equivalent to three times the diameter of the impeller with a minimum of 1.5 meters.
The following table shows the sound power level spectrums in $\mathrm{dB}(\mathrm{A})$ measured with the fan ducted, at both inlet and discharge sides.

| Model | air volume $\mathrm{m}^{3} / \mathrm{h}$ | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Global | Model | air volume $\mathrm{m}^{3} / \mathrm{h}$ | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | Global |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 450 Inlet | 6.600 | 46 | 73 | 85 | 82 | 85 | 79 | 72 | 64 | 90 | 560 Inlet | 13.720 | 50 | 85 | 87 | 88 | 91 | 85 | 78 | 73 | 95 |
|  | 5.850 | 46 | 73 | 84 | 81 | 83 | 79 | 71 | 64 | 88 |  | 10.800 | 57 | 79 | 83 | 86 | 89 | 84 | 78 | 72 | 93 |
|  | 4.300 | 58 | 70 | 80 | 80 | 83 | 79 | 71 | 64 | 87 |  | 9.000 | 63 | 79 | 81 | 86 | 89 | 84 | 78 | 72 | 92 |
| 450 Outlet | 6.600 | 63 | 75 | 86 | 85 | 87 | 82 | 74 | 67 | 92 | 560 Outlet | 13.720 | 74 | 86 | 85 | 91 | 94 | 88 | 81 | 75 | 97 |
|  | 5.850 | 53 | 73 | 85 | 84 | 87 | 81 | 74 | 67 | 91 |  | 10.800 | 70 | 82 | 84 | 88 | 92 | 87 | 81 | 74 | 95 |
|  | 4.300 | 58 | 70 | 82 | 83 | 86 | 82 | 74 | 67 | 90 |  | 9.000 | 74 | 81 | 85 | 89 | 92 | 87 | 81 | 74 | 95 |
| 500 Inlet | 9.000 | 48 | 78 | 87 | 85 | 87 | 81 | 74 | 67 | 92 | 630 Inlet | 17.500 | 51 | 85 | 91 | 89 | 93 | 87 | 80 | 74 | 97 |
|  | 7.500 | 52 | 76 | 85 | 85 | 85 | 80 | 73 | 65 | 90 |  | 15.600 | 55 | 85 | 85 | 88 | 91 | 86 | 80 | 73 | 95 |
|  | 6.000 | 60 | 73 | 83 | 82 | 85 | 80 | 73 | 66 | 89 |  | 12.000 | 64 | 80 | 84 | 88 | 90 | 86 | 80 | 73 | 94 |
| 500 Outlet | 9.000 | 65 | 76 | 87 | 88 | 90 | 84 | 77 | 70 | 94 | 630 Outlet | 17.500 | 73 | 87 | 88 | 93 | 95 | 89 | 83 | 77 | 99 |
|  | 7.500 | 62 | 75 | 86 | 87 | 88 | 83 | 76 | 69 | 92 |  | 15.600 | 71 | 87 | 86 | 91 | 94 | 89 | 83 | 76 | 98 |
|  | 6.000 | 59 | 72 | 86 | 85 | 88 | 83 | 76 | 69 | 92 |  | 12.000 | 67 | 84 | 86 | 90 | 94 | 89 | 84 | 76 | 97 |

## DIMensIons (mm)



| Model | $\varnothing$ a | B | $\emptyset \mathrm{C}$ | Ø D | $\varnothing$ e | number of holes n |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 450 | 537 | 375 | 500 | 450 | 12 | 8 |
| TCBBx2/4-500 | 595 | 520 | 560 | 500 | 12 | 12 |
| TCBTx2/4-500 | 595 | 375 | 560 | 500 | 12 | 12 |
| 560 | 655 | 520 | 620 | 560 | 12 | 12 |
| 630 | 725 | 520 | 690 | 630 | 12 | 12 |

## MounTInG aCCessorIes



## PerForManCe CurVes TCBBx2 / TCBTx2

- $q_{v}$ : Air volume in $\mathrm{m}^{3} / \mathrm{h}$ andm $\mathrm{m}^{3} / \mathrm{s}$.
- $p_{\mathrm{st}}$ : Static pressure inPa.
- SFP: Specific fan power in $\mathrm{W} / \mathrm{m}^{3} / \mathrm{s}$.
- P: Input power in W.
- Measurement category: C or D depending on the models.
- Efficiency category: Static or Total depending on the models.
- Fan tested with inlet bellmouth.
- Fan efficiency without VSD.
- Air flow data in accordance with ISO 5801.
- Sound pressure level $d B(A)$, measured in a free field distance equal to 3 times the diameter, with a minimum of $1,5 \mathrm{~m}$.

MC Measurement category
eC Efficiency category
VsD Speed control: supplied with the fan
sr Specific ratio
$\eta$ [\%] Efficiency
n Efficiency grade
[kW] Absorbed power
[ $\left.\mathbf{m}^{3} / \mathrm{h}\right]$ Air volume
[Pa] Static pressure
[rPM] Speed

## eXaMPleCurVe



| MC* $^{*}$ | EC* | VSD* $^{*}$ | $\mathrm{SR}^{*}$ | $\eta[\%]^{*}$ | $\mathrm{~N}^{*}$ | $[\mathrm{~kW}]$ | $\left[\mathrm{m}^{3} / \mathrm{h}\right]$ | $[\mathrm{Pa}]$ | $[\mathrm{RPM}]$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| C | Static | No | 1 | 45,1 | 49,6 | 1,957 | 6383 | 498 | 1394 |
| * See example curve. |  |  |  |  |  |  |  |  |  |

## PerForManCe CurVes - 4 Pole MoTor

TCBBx2/4-450


| MC $^{*}$ | EC $^{*}$ | VSD $^{*}$ | $\mathrm{SR}^{*}$ | $\eta[\%]^{*}$ | $\mathrm{~N}^{*}$ | $[\mathrm{~kW}]$ | $\left[\mathrm{m}^{3} / \mathrm{h}\right]$ | $[\mathrm{Pa}]$ | [RPM] |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| C | Static | No | 1 | 41,9 | 47,5 | 1,316 | 4842 | 411 | 1349 |
| * See examplecurve. |  |  |  |  |  |  |  |  |  |



| MC $^{*}$ | $\mathrm{EC}^{*}$ | VSD* $^{*}$ | $\mathrm{SR}^{*}$ | $\eta[\%]^{*}$ | $\mathrm{~N}^{*}$ | $[\mathrm{~kW}]$ | $\left[\mathrm{m}^{3} / \mathrm{h}\right]$ | $[\mathrm{Pa}]$ | $[\mathrm{RPM}]$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| C | Static | No | 1 | 41,9 | 45,2 | 2,970 | 8741 | 513 | 1311 |

TCBBx2/4-500


| MC* $^{*}$ $\mathrm{EC}^{*}$ VSD* $^{*}$ $\mathrm{SR}^{*}$ $\eta[\%]^{*}$ $\mathrm{~N}^{*}$ $[\mathrm{~kW}]$ $\left[\mathrm{m}^{3} / \mathrm{h}\right]$ $[\mathrm{Pa}]$ [RPM] <br> C Static No 1 45,1 49,6 1,957 6383 498 1394 |
| :--- |
| * See example curve. |



| MC* $^{*}$ |
| :--- |
| EC* |
| C |
| Static |
| C No |
| * See example curve. |

## PerForManCe CurVes - 4 Pole MoTor

TCBTx2/4-450


| MC $^{*}$ | EC $^{*}$ | VSD* | SR $^{*}$ | $\eta[\%]^{*}$ | $\mathrm{~N}^{*}$ | $[\mathrm{~kW}]$ | $\left[\mathrm{m}^{3} / \mathrm{h}\right]$ | $[\mathrm{Pa}]$ | [RPM] |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| C | Static | No | 1 | 43,0 | 48,6 | 1,309 | 4705 | 432 | 1375 |



| MC* | EC* | VSD* | SR* | $\eta\left[\%{ }^{*}\right.$ | $\mathrm{N}^{*}$ | [kW] | [ $\mathrm{m}^{3} / \mathrm{h}$ ] | [Pa] | [RPM] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| D | Total | No | 1 | 55,0 | 58,2 | 3,148 | 10254 | 611 | 1365 |

TCBTx2/4-500


| $\mathrm{MC}^{*}$ | $\mathrm{EC}^{\star}$ | $\mathrm{VSD}^{*}$ | $\mathrm{SR}^{*}$ | $\eta[\%]^{*}$ | $\mathrm{~N}^{*}$ | $[\mathrm{~kW}]$ | $\left[\mathrm{m}^{3} / \mathrm{h}\right]$ | $[\mathrm{Pa}]$ | $[\mathrm{RPM}]$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| D | Total | No | 1 | 53,5 | 58,6 | 1,581 | 7145 | 427 | 1348 |
| * See example curve. |  |  |  |  |  |  |  |  |  |

TCBTx2/4-630


| MC $^{*}$ | $\mathrm{EC}^{*}$ | VSD | $\mathrm{SR}^{*}$ | $\eta[\%]^{*}$ | $\mathrm{~N}^{*}$ | $[\mathrm{~kW}]$ | $\left[\mathrm{m}^{3} / \mathrm{h}\right]$ | $[\mathrm{Pa}]$ | $[\mathrm{RPM}]$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| D | Total | No | 1 | 54,2 | 56,8 | 3,903 | 12997 | 587 | 1387 |
| * See example curve. |  |  |  |  |  |  |  |  |  |

## Baffle Type Grease Filters for Kitchen Extracts and Canopies

## Applications

The Airclean Baffle Type Grease Filter is designed for use in commercial kitchens to remove airborne grease prior to entering the extraction system.

It is recognised that there is an increasing need to maintain and improve hygiene standards in kitchens and to reduce the fire hazards above the heat source.

The Airclean Baffle Type Grease Filter reduces fire hazard with their unique design concept of non-grease loading (negligible
 grease accumulation), and interlocking baffle walls which restrict the passage of flames into the ductwork.

The Baffle Type Grease Filter's smooth surface enables deposited grease to run off via the drainage holes, to grease collecting trays in the canopy or grease filter housing, where it can be easily disposed of. Efficient grease removal by Baffle Type Grease Filters minimises grease build-up in the kitchen extract ductwork system and ensures that duct cleaning requirements are kept to a minimum.

## Description

Airclean Baffle Type Grease Filters are manufactured in either Aluminium or Stainless Steel (Mirrored Finish Stainless Steel Grade 430, or Dull Polished Finish Stainless Steel Grade 304).

Housed in a channel framework, a series of vertical air baffles are strategically aligned to change the direction of the grease-laden air. This action causes the deposition of the grease quickly, without re-entrainment onto the baffles, whilst the grease-free air passes through the filter. The Baffle Type Grease Filter's smooth surface enables deposited grease to run off via the drainage holes into collecting trays within the housing, minimising grease build-up.

Baffle type Grease Filters each have layflat handles to facilitate easy removal from the kitchen canopy or grease filter housing.

| Size |  | Flow Rate |  | Part Numbers |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| OT Inches | Actual mm | m³/s based on <br> FV 1.5m/s | Pressure <br> Drop <br> Pa | ST STEEL ECO <br> 2" (47mm) <br> Grade 430 St/St | ST STEEL HD <br> 2" (47mm) <br> Grade 304 St/St |
| $16 \times 16$ | $394 \times 394$ | 0.25 | 125 | 1321119 | 1320119 |
| $20 \times 10$ | $495 \times 242$ | 0.19 | 125 | 1321120 | 1320120 |
| $20 \times 16$ | $495 \times 394$ | 0.31 | 125 | 1321121 | 1320121 |
| $20 \times 20$ | $495 \times 495$ | 0.39 | 125 | 1321122 | 1320122 |
| $18 \times 18$ | $445 \times 445$ | 0.31 | 125 | 1321123 | 1320123 |
| $24 \times 24$ | $597 \times 597$ | 0.54 | 125 | 1321124 | 1320124 |

FOR NON-STANDARD SIZES CONTACT THE SALES TEAM
Notes

* Actual sized filters will be manufactured as ordered $+/-3 \mathrm{~mm}$
* Handles and Drain Holes come as standard
* Handles are located on the shortest side of the grease filter as standard.


## CP03-CA - 0560 Silencer

Available in two standard lengths C Series silencers have excellent attenuation properties, achieved with sound absorbing infill retained in the attenuator casing by a perforated liner. The central pod (code $P$ ) is an option to increase the insertion loss, however it will add resistance.

- Fits directly onto 560 mm diameter
- fans Standard lengths 560 mm
(1D) \& 1120 mm (2D) Use up to
$70^{\circ} \mathrm{C}$ (standard construction)
Systems up to 1000 Pascals


Insertion Loss (dB) - Centre Band Frequency

| Product Code | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CP03-C* - 0560-1D | 2 | 4 | 7 | 14 | 14 | 9 | 9 | 7 |
| CP03-C* - 0560-2D | 3 | 6 | 10 | 19 | 20 | 14 | 12 | 10 |
| CP03-C*P - 0560-1D | 3 | 7 | 9 | 18 | 24 | 24 | 20 | 15 |
| CP03-C*P - 0560-2D | 4 | 9 | 17 | 27 | 29 | 28 | 23 | 23 |

Replace * in code with A or B for connection pattern. Insertion loss data is derived from continual testing to BS4718 and other standards in independent UKAS certified laboratories, which includes where appropriate, re-generated or self noise testing in both forward and reverse flow conditions. If you request system analysis from our technicians all predictions will be assessed using the relevant certified insertion loss data together with relevant dynamic corrections.

## Dimensional Data

| Product Code | A (mm) | $\mathbf{B}(\mathrm{mm})$ | $\mathbf{C}(\mathrm{mm})$ | Weight (kg) |
| :--- | :---: | :---: | :---: | :---: |
| CP03-CA - 0560-1D | 560 | 712 | 560 | 22 |
| CP03 - CA - 0560-2D | 560 | 712 | 1120 | 48 |
| CP03 - CAP - 0560-1D | 560 | 712 | 560 | 26 |
| CP03 - CAP - 0560-2D | 560 | 712 | 1120 | 57 |

## Pattern A

## Pattern B

$12 \times$ M10-620 PCD



External Louvres


## General Product Overview

## External Louvres

Advanced Air External Louvres feature an architecturally appealing straight blade design with smooth, clean lines that visually compliment any structure's exterior styling. Available in flanged or optional recessed frame, the frame installs easily in most common wall configurations. Suitable for use in exhaust and low to medium velocity intake applications, the blade design features a rear water baffle and provides reasonable protection against general weather conditions. The models exhibit low pressure drop characteristics and a high free area. Reinforcing bosses run the full length of each blade for superior strength. Advanced Air External Louvres are engineered to be architecturally appealing as well as mechanically enduring.

Features \& Benefits of Advanced Air Louvres:

- Extruded aluminium blades and frames for high durability and quality fit and finish.
- Reinforcing bosses run the full length of each blade for superior strength.
- Low pressure drop characteristics require less fan energy and contribute to efficient system operation.
- Selection of finishes.
- Bird Mesh fitted as standard, Insect mesh optional.
- Flange frame and recessed frame options.
- Available in multi section modules for site assembly giving continuous blade appearance.
- Standard Blade Style
- Weather Resistant
- Clean Architectural Appearance
- Extruded Aluminium



## External Louvres

## 1600 Series • Standard Blade Type

The Advanced Air 1600 Series is an architecturally styled louvre designed with smooth, clean lines that visually compliment any structure's exterior styling. It is ideal for use in both standard and thin wall applications or a/c units. Suitable for use in exhaust and low to medium velocity intake applications, the J-style blade design features a rear water baffle and provides good protection against general weather conditions, with low pressure drop characteristics. Reinforcing bosses run the full length of each blade for superior strength. Available with flanged or recessed frames, the 1600 series design is styled to please and engineered to perform.

Standard Flanged Frame


| 1638 | 38 mm Blade Pitch |
| :--- | :--- |
| 1650 | 50 mm Blade Pitch |
| 1675 | 75 mm Blade Pitch |

Optional Recessed Frame


40 mm Deep
80 mm Deep 108mm Deep

| Model | Dim A | Dim B |
| :---: | :---: | :---: |
| 1638 | 40 mm | 30 mm |
| 1650 | 80 mm | 50 mm |
| 1675 | 108 mm | 50 mm |

## 1600 Series Construction

| Frame: | Type 6063-T6 extruded aluminium. |
| :---: | :---: |
| Nominal wall thickness | Model 1638: 1.3 mm |
|  | Model 1650: 1.6 mm |
|  | Model 1675: 1.8 mm |
| Blades: | Type 6063-T6 extruded aluminium. |
| Nominal wall thickness | Model 1638: 1.3 mm |
|  | Model 1650: 1.4 mm |
|  | Model 1675: 1.6 mm |
| Effective Blade Angle: | 45 degrees. |
| Blade Spacing: | Model 1638: 38 mm |
|  | Model 1650: 50 mm |
|  | Model 1675: 75 mm |
| Blade Support Brackets: | On models 1650 and 1675 only, Concealed type, factory installed on rear of louvre on maximum 1000 mm centres. Reinforced with extruded mullion. |
| Mullions: | Concealed architectural type. |
| Screen: | $13 \mathrm{~mm} \times 13 \mathrm{~mm} \times 1.0 \mathrm{~mm}$ ga. galvanised bird screen. |
| Finish: | Mill. Special Finishes are available. |
| Minimum Size: | Model 1638: 100 mm wide $\times 100 \mathrm{~mm}$ high |
|  | Model 1650,1675: 200 mm wide $\times 200 \mathrm{~mm}$ high. |
| Maximum Size: | Model 1638: 1200 mm wide $\times 1200 \mathrm{~mm}$ High |
|  | Model 1650, 1675: 2000 mm wide $\times 2000 \mathrm{~mm}$ high. |



## Performance Data

Models: 1638SB, 1650SB \& 1675SB • Free Area (m2)

## Model: 1638SB

| Height (m) | Width (m) |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\mathbf{0 . 2 0}$ | $\mathbf{0 . 4 0}$ | $\mathbf{0 . 6 0}$ | $\mathbf{0 . 8 0}$ | 1.00 | 1.20 | 1.40 | 1.60 | 1.80 | 2.00 |
| 0.20 | 0.02 | 0.05 | 0.08 | 0.10 | 0.13 | 0.16 | 0.18 | 0.21 | 0.23 | 0.26 |
| 0.40 | 0.06 | 0.11 | 0.17 | 0.23 | 0.29 | 0.35 | 0.41 | 0.47 | 0.53 | 0.59 |
| 0.60 | 0.09 | 0.18 | 0.27 | 0.37 | 0.46 | 0.55 | 0.65 | 0.74 | 0.83 | 0.92 |
| 0.80 | 0.12 | 0.25 | 0.37 | 0.50 | 0.63 | 0.75 | 0.88 | 1.01 | 1.13 | 1.26 |
| 1.00 | 0.15 | 0.31 | 0.47 | 0.63 | 0.79 | 0.95 | 1.11 | 1.27 | 1.43 | 1.59 |
| 1.20 | 0.18 | 0.38 | 0.57 | 0.76 | 0.96 | 1.15 | 1.34 | 1.54 | 1.73 | 1.93 |
| 1.40 | 0.21 | 0.44 | 0.67 | 0.90 | 1.13 | 1.35 | 1.58 | 1.81 | 2.04 | 2.26 |
| 1.60 | 0.25 | 0.51 | 0.77 | 1.03 | 1.29 | 1.55 | 1.81 | 2.07 | 2.33 | 2.59 |
| 1.80 | 0.28 | 0.57 | 0.87 | 1.16 | 1.46 | 1.75 | 2.04 | 2.34 | 2.63 | 2.93 |
| 2.00 | 0.31 | 0.64 | 0.97 | 1.30 | 1.62 | 1.95 | 2.28 | 2.61 | 2.94 | 3.27 |

Model: 1650SB

| Height (m) | Width (m) |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0.20 | 0.40 | 0.60 | 0.80 | 1.00 | 1.20 | 1.40 | 1.60 | 1.80 | 2.00 |  |
| 0.20 | 0.02 | 0.04 | 0.07 | 0.09 | 0.12 | 0.14 | 0.17 | 0.19 | 0.21 | 0.24 |
| 0.40 | 0.04 | 0.11 | 0.17 | 0.24 | 0.30 | 0.37 | 0.43 | 0.50 | 0.56 | 0.63 |
| 0.60 | 0.07 | 0.17 | 0.28 | 0.38 | 0.49 | 0.59 | 0.70 | 0.80 | 0.91 | 1.01 |
| 0.80 | 0.10 | 0.24 | 0.38 | 0.53 | 0.67 | 0.82 | 0.96 | 1.11 | 1.25 | 1.40 |
| 1.00 | 0.12 | 0.31 | 0.49 | 0.68 | 0.86 | 1.04 | 1.23 | 1.41 | 1.60 | 1.78 |
| 1.20 | 0.15 | 0.37 | 0.60 | 0.82 | 1.05 | 1.27 | 1.50 | 1.72 | 1.94 | 2.17 |
| 1.40 | 0.17 | 0.44 | 0.70 | 0.97 | 1.23 | 1.50 | 1.76 | 2.03 | 2.29 | 2.56 |
| 1.60 | 0.20 | 0.50 | 0.81 | 1.11 | 1.42 | 1.72 | 2.03 | 2.33 | 2.64 | 2.94 |
| 1.80 | 0.23 | 0.57 | 0.92 | 1.26 | 1.60 | 1.95 | 2.29 | 2.64 | 2.98 | 3.33 |
| 2.00 | 0.25 | 0.64 | 1.02 | 1.41 | 1.79 | 2.18 | 2.56 | 2.94 | 3.33 | 3.71 |

## Model: 1675SB

|  | Width (m) |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Height (m) | $\mathbf{0 . 2 0}$ | $\mathbf{0 . 4 0}$ | $\mathbf{0 . 6 0}$ | $\mathbf{0 . 8 0}$ | 1.00 | 1.20 | 1.40 | 1.60 | 1.80 | 2.00 |
| 0.20 | 0.01 | 0.03 | 0.05 | 0.06 | 0.08 | 0.09 | 0.11 | 0.13 | 0.14 | 0.16 |
| 0.40 | 0.04 | 0.09 | 0.14 | 0.19 | 0.24 | 0.29 | 0.34 | 0.39 | 0.44 | 0.49 |
| 0.60 | 0.07 | 0.15 | 0.23 | 0.31 | 0.40 | 0.48 | 0.56 | 0.64 | 0.72 | 0.80 |
| 0.80 | 0.10 | 0.21 | 0.32 | 0.44 | 0.55 | 0.66 | 0.77 | 0.88 | 1.00 | 1.11 |
| 1.00 | 0.13 | 0.28 | 0.42 | 0.57 | 0.71 | 0.86 | 1.01 | 1.15 | 1.30 | 1.44 |
| 1.20 | 0.16 | 0.33 | 0.51 | 0.69 | 0.87 | 1.04 | 1.22 | 1.40 | 1.57 | 1.75 |
| 1.40 | 0.19 | 0.39 | 0.60 | 0.81 | 1.02 | 1.22 | 1.43 | 1.64 | 1.85 | 2.06 |
| 1.60 | 0.22 | 0.46 | 0.70 | 0.94 | 1.18 | 1.43 | 1.67 | 1.91 | 2.15 | 2.39 |
| 1.80 | 0.24 | 0.52 | 0.79 | 1.06 | 1.33 | 1.61 | 1.88 | 2.15 | 2.43 | 2.70 |
| 2.00 | 0.27 | 0.57 | 0.88 | 1.18 | 1.49 | 1.79 | 2.09 | 2.40 | 2.70 | 3.01 |
|  |  |  |  |  |  |  |  |  |  |  |

## Performance Data

Models: 1638SB, 1650SB \& 1675SB
Pressure Drop


Face Velocity (m/s)
Louvre test size: $1220 \mathrm{~mm} \times 1220 \mathrm{~mm}$.
Standard air density @ 1.20 kg/m3.

## How To Specify or To Order

Extruded Aluminium Louvres • Models 1638SB, 1650SB, 1675SB


