

# Model XNSA

## Door Grilles

### Introduction

KMC air transfer Grilles or Door grilles are typically used in doors and partitions to allow air flow to a space that is not directly served by a ducted source of supply air or a ducted outlet for return or exhaust air.

These Door / Wall Grilles offers the largest free area possible with a completely sight proof or light proof core.

The inverted – vee louver cross section not only blocks vision, but also provides stiffness. Being mounted in the lower portion of a door, a door grille is by nature subjected to knocks and bumps. Durability of KMC louvers assures good looks even after long service.

### Application

- The door/wall Grille XNSA is suitable for transfer of air from one room into the other.
- The Grille can be either mounted to the wall or the door.
- The horizontal V shape vanes are not adjustable and are sight proof
- Supplies straight 0° jet air patterns for extremely long throw requirements and diffused air patterns up to 30° spread for installations which require shorter throws and greater air diffusion patterns
- Vertical direction is adjustable from 0° to ±30°

### Product Features

- All grilles are provided with a seal on the back of the frame in order that the perimeter in contact is airtight.
- Free Area 60%

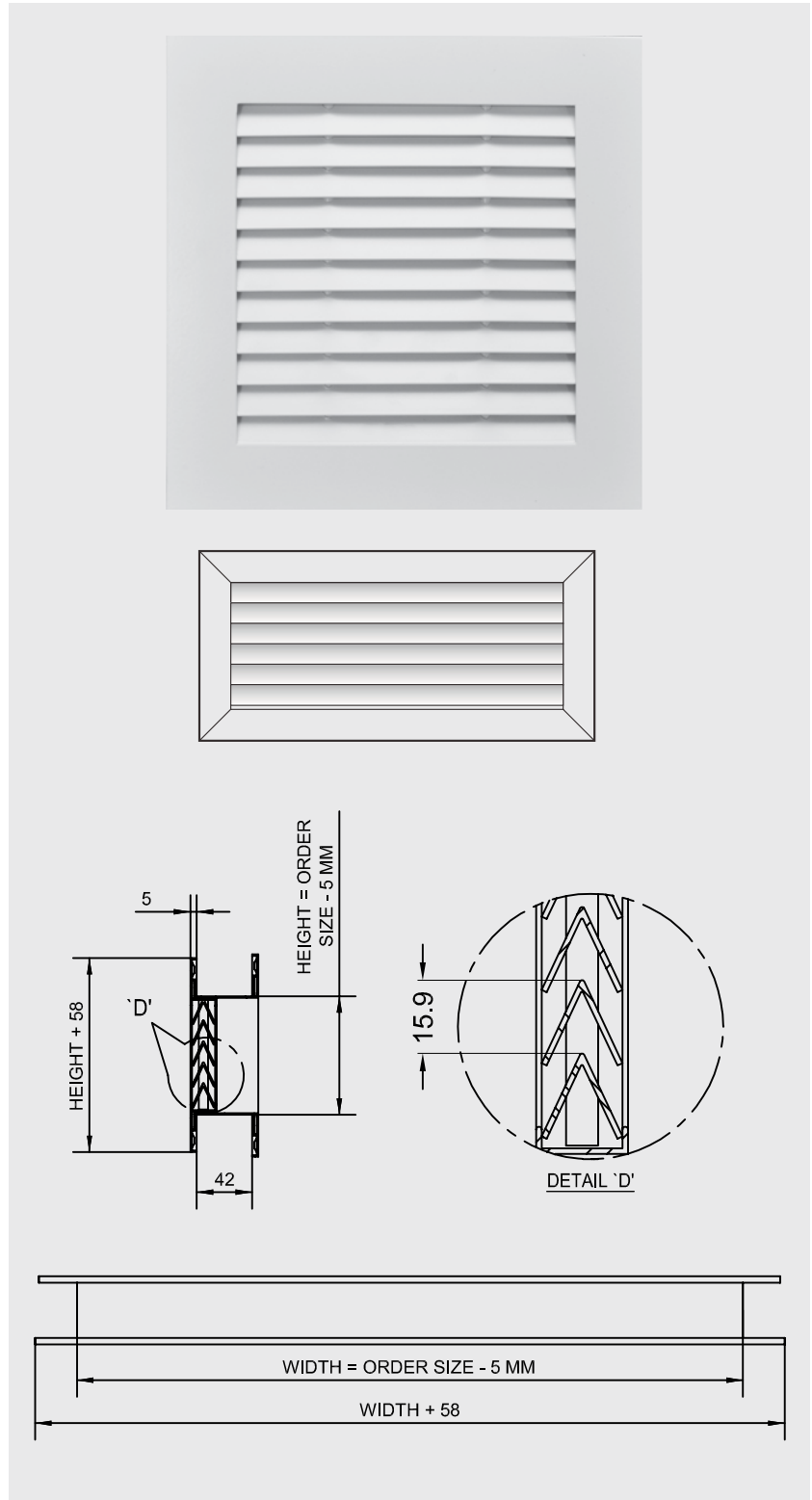
### Options

- Frame & Blades from high quality extruded aluminum profiles – Alloy 6063/T6
- 37mm Frame & Flange width
- Blades are inverted “V” horizontal cross section louvers arranged to overlap each other
- The frame of the transfer Grille consists of two parts, one fixed, (holding the core) while the other part is of the sliding type which is then fixed to the other side of the partition (or door)
- Available in a wide variety of sizes from 200mm x 200mm up to 600mm x 600mm
- Other sizes available on request

### Selection Procedure

The selections can be made by means of a straight read-off from the “Performance Data” for the selected Model.

- Determine the Air flow rate per outlet.
- Select the Grille based on required Air flow rate against the outlet velocity and limiting pressure drop.



### Product Selection Check List

- Select Size (L x W) length based on desired performance characteristics.
- Select Finish

### Performance Data

| Nominal Size (mm) |        | Core Velocity (M/S)      | 0.5 | 0.8 | 1.0  | 1.3  | 1.5  | 1.8  | 2.0  | 2.5  |
|-------------------|--------|--------------------------|-----|-----|------|------|------|------|------|------|
| W                 | H      | Static Pr. Drop, Ps (Pa) | 2.5 | 5.0 | 10.0 | 15.0 | 22.5 | 30.0 | 40.0 | 62.5 |
| Width             | Height | Air Flow                 |     |     |      |      |      |      |      |      |
| 150               | 150    | CMH                      | 34  | 51  | 51   | 68   | 85   | 102  | 119  | 153  |
| 200               | 200    | CMH                      | 51  | 85  | 119  | 153  | 170  | 204  | 238  | 289  |
| 300               | 150    | CMH                      | 68  | 102 | 136  | 170  | 187  | 221  | 255  | 323  |
| 250               | 250    | CMH                      | 102 | 136 | 187  | 238  | 289  | 340  | 391  | 476  |
| 450               | 175    | CMH                      | 102 | 153 | 204  | 255  | 306  | 357  | 408  | 510  |
| 300               | 300    | CMH                      | 136 | 221 | 289  | 357  | 425  | 493  | 578  | 714  |
| 350               | 350    | CMH                      | 204 | 306 | 391  | 493  | 595  | 697  | 799  | 1003 |
| 450               | 300    | CMH                      | 221 | 323 | 442  | 544  | 663  | 765  | 884  | 1105 |
| 600               | 250    | CMH                      | 238 | 374 | 493  | 612  | 731  | 850  | 986  | 1224 |
| 600               | 300    | CMH                      | 306 | 442 | 595  | 748  | 901  | 1037 | 1190 | 1496 |
| 500               | 500    | CMH                      | 425 | 646 | 850  | 1071 | 1275 | 1496 | 1700 | 2125 |
| 600               | 600    | CMH                      | 629 | 935 | 1241 | 1564 | 1870 | 2193 | 2499 | 3128 |