A

rear view
louvre is optional

## FEATURES

The Delta Series is designed for wall mounting and is suitable for a wide range of applications.

### Construction

Cowls are of UV-stabilised plastic or steel. Steel components have a corrosion-resistant finish. All models incorporate backward-curved centrifugal impellers.

### Motors

Type - external rotor, squirrel cage induction motor.
Electricity supply - 220-240V, single or 415V, three-phase, 50Hz.
Bearings - sealed-for-life, ball.
Speed-controllable.
See pages *N-2/3* for details on these motors.

### Internal Thermal Protection

Thermal protection is supplied as standard on all units. Both auto-reset and manual-reset types are used. Check with our sales engineers for the type fitted.

### Testing

Air flow test to AS2936:1987, SAA Fan Test code (1).
Noise test to BS848:Part 2, 1985.

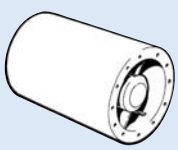
### Special Features

Both supply and exhaust designs.
Most three-phase motors are 2-speed star/delta design.
Ready access to fan impeller and motor, from inside or outside the building, is a feature of the design.
Twin fans provide a 100% stand-by facility for a limited range of models. Contact our sales office for selections and dimensions.

### Wiring Diagram

See page *M-8*, diagrams ER 1, 2, 4, 5.

## ANCILLARY EQUIPMENT

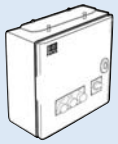


C..P - Circular attenuator
Ref. *H-1*

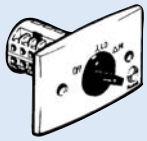
FC - Fast clamp
Ref. *J-5*

Shutters & Louvres
Ref. *K-1*

VA - Speed controller
Ref. *L-6*

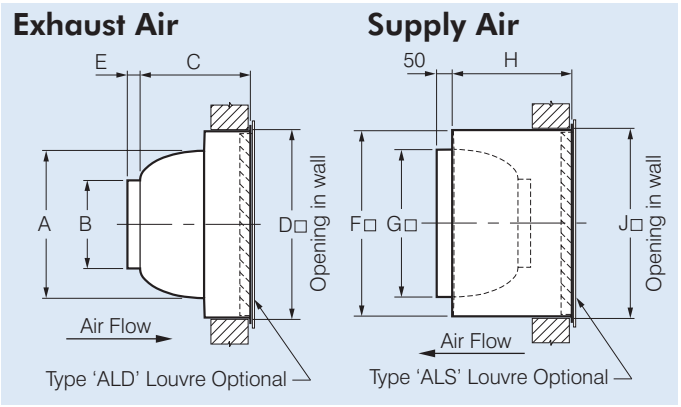


TC3 - Speed controller
Ref. *L-8*



SD - Star/Delta switch
Ref. *L-9*

## DIMENSIONS




### Exhaust Air

| Model No. WCD..E 3ph WCE..E 1ph | Dimensions, mm A | B | C | D□ | E | App. wt. kg | Louvre Model ALD.. |
|---|---|---|---|---|---|---|---|
| 31.E | 450Ø | 313Ø | 332 | 670 | 50 | 10 | 065 |
| 35.E | 580Ø | 400Ø | 375 | 770 | 50 | 19 | 075 |
| 40.E | | | | | | 20 | |
| 45.E | 700Ø | 500Ø | 435 | 920 | 50 | 23 | 090 |
| 50.E | | | | | | 35 | |
| 56.E | 760□ | 650□ | 480 | 820 | 50 | 38 | 080 |
| 63.E | 1000□ | 670□ | 565 | 1070 | 75 | 65 | 105 |
| 71.E | | | | | | 67 | |

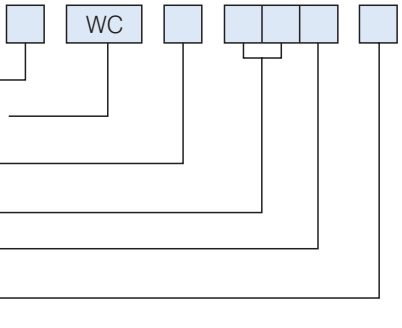
### Supply Air

| Model No. WCD..S 3ph WCE..S 1ph | Dimensions, mm F□ | G□ | H | J□ | App. wt. kg | Louvre Model ALS.. |
|---|---|---|---|---|---|---|
| 31.S | 650 | 450 | 380 | 670 | 18 | 065 |
| 35.S | 750 | 600 | 420 | 770 | 30 | 075 |
| 40.S | | | | | 41 | |
| 45.S | 900 | 700 | 480 | 920 | 43 | 090 |
| 50.S | | | | | 55 | |
| 56.S | 800 | 650 | 690 | 820 | 60 | 080 |

## SUGGESTED SPECIFICATION

The Delta Series of wall mounted units shall be as designed and manufactured by Fantech Pty. Ltd.
Impellers shall be of backward-curved centrifugal design and driven by speed-controllable external rotor motors with integral thermal protection.
The housings shall be designed to permit access to the fan from inside or outside the building.
All models shall be fully tested to AS2936:1987 Fan Test Code (1) for air flow and BS848:Part 2, 1985 for noise in a fully certified laboratory

## HOW TO ORDER





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## TECHNICAL DATA

| Model WCD.. WCE.. | Fan Speed rev/s | Avg. dB(A) @ 3m Low Air Flow | High Air Flow | WCE.. 1 ph. kW | Amps* | WCD.. 3 ph. kW | Amps* |
|---|---|---|---|---|---|---|---|
| **314** | 23 | 47 | 48 | 0.15 | 0.66 | **0.18** | **0.37** |
| **316** | 15 | 40 | 42 | 0.07 | 0.54 | 0.09 | 0.15 |
| **354** | 23 | 52 | 51 | 0.28 | 1.25 | **0.19** | **0.51** |
| **356** | 15 | 43 | 43 | 0.07 | 0.32 | 0.13 | 0.22 |
| **404** | 23 | 56 | 54 | 0.49 | 2.20 | **0.45** | **1.40** |
| **406** | 15 | 44 | 44 | 0.17 | 0.80 | **0.23** | **0.73** |
| **408** | 11 | 39 | 40 | - | - | 0.16 | 0.30 |
| **454** | 23 | 59 | 57 | 0.76 | 3.50 | **0.77** | **1.47** |
| **456** | 15 | 47 | 46 | 0.43 | 2.00 | **0.44** | **0.90** |
| **458** | 11 | 41 | 43 | - | - | 0.15 | 0.35 |
| **504** | 23 | 62 | 61 | 1.30 | 5.70 | **1.39** | **2.70** |
| **506** | 15 | 50 | 50 | 0.53 | 2.50 | **0.65** | **1.20** |
| **508** | 11 | 43 | 45 | 0.23 | 1.15 | 0.30 | 0.50 |
| **564** | 23 | 65 | 65 | - | - | **2.16** | **4.10** |
| **566** | 15 | 54 | 54 | 0.84 | 4.10 | **0.69** | **1.45** |
| **568** | 11 | 44 | 47 | 0.32 | 1.50 | 0.39 | 0.79 |
| **634** | 23 | 69 | 70 | - | - | **4.30** | **7.35** |
| **636** | 15 | 60 | 58 | - | - | **1.10** | **2.20** |
| **638** | 11 | 46 | 50 | - | - | 0.68 | 1.20 |
| **716** | 15 | 63 | 61 | - | - | **2.20** | **4.30** |
| **718** | 11 | 48 | 53 | - | - | **0.66** | **2.00** |
| **711** | 9 | 41 | 46 | - | - | 0.28 | 1.20 |

* Amperages shown are a guide only, refer to our Sales Department for accurate figures at time of order.
All three-phase motors detailed in **bold** type refer to fans that are fitted with 2-speed star/delta motors as standard.
NOTE: If an external louvre/shutter is to be fitted add the pressure loss through the louvre before selecting the fan - see page *K-4* for selections of ALD/ALS aluminium louvres.

## NOISE DATA

| Model WCD.. WCE.. | | In-Duct Spectrum Corrections, dB* 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
|---|---|---|---|---|---|---|---|---|---|
| **314** | Inlet | 35 | 29 | 21 | 18 | 10 | 10 | 8 | 2 |
| **316** | Inlet | 34 | 26 | 22 | 18 | 12 | 12 | 6 | 0 |
| **354** | Inlet | 28 | 26 | 22 | 19 | 10 | 12 | 11 | 1 |
| **356** | Inlet | 33 | 25 | 22 | 19 | 14 | 8 | 3 | 0 |
| **404** | Inlet | 28 | 26 | 21 | 18 | 11 | 12 | 12 | 5 |
| **406** | Inlet | 33 | 28 | 22 | 19 | 14 | 10 | 7 | 3 |
| **408** | Inlet | 33 | 26 | 19 | 16 | 14 | 14 | 12 | 3 |
| **454** | Inlet | 27 | 25 | 20 | 17 | 11 | 12 | 12 | 8 |
| **456** | Inlet | 31 | 30 | 21 | 18 | 13 | 11 | 9 | 5 |
| **458** | Inlet | 33 | 26 | 19 | 16 | 14 | 14 | 12 | 3 |
| **504** | Inlet | 26 | 26 | 21 | 15 | 12 | 12 | 12 | 9 |
| **506** | Inlet | 30 | 29 | 22 | 16 | 12 | 10 | 8 | 6 |
| **508** | Inlet | 32 | 26 | 20 | 16 | 14 | 13 | 12 | 4 |
| **564** | Inlet | 26 | 27 | 23 | 14 | 13 | 12 | 12 | 10 |
| **566** | Inlet | 29 | 29 | 23 | 15 | 12 | 10 | 8 | 7 |
| **568** | Inlet | 30 | 27 | 22 | 15 | 15 | 11 | 11 | 6 |
| **634** | Inlet | 24 | 28 | 24 | 12 | 13 | 11 | 12 | 10 |
| **636** | Inlet | 28 | 29 | 24 | 14 | 12 | 10 | 8 | 8 |
| **638** | Inlet | 28 | 27 | 23 | 14 | 14 | 9 | 10 | 6 |
| **716** | Inlet | 28 | 29 | 24 | 14 | 12 | 10 | 8 | 8 |
| **718** | Inlet | 28 | 27 | 23 | 14 | 14 | 9 | 10 | 6 |
| **711** | Inlet | 28 | 27 | 23 | 14 | 14 | 9 | 10 | 6 |

* Add the In-Duct Spectrum Corrections to the appropriate dB(A) level to obtain the In-Duct Sound Power Level on the Inlet Side of the unit. For noise levels of the discharge side of Supply Air units, refer to our sales department.