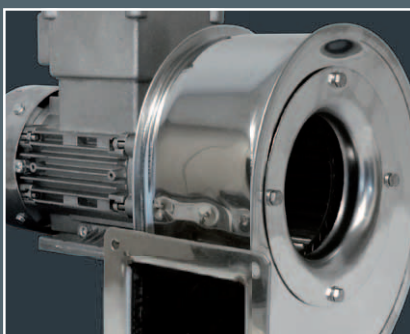
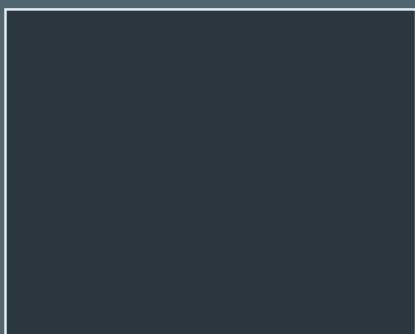




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## Ventilatori assiali intubati compatti ad alta efficienza

Compact and high efficiency ducted axial fans



Conformi alla Direttiva ErP e al Regolamento UE 327/2011 (FAN)

Categoria di misura: C

Categoria di efficienza: Statica

In conformità a EN ISO 5801 / AMCA 210.

Compliant with Erp Directive and EU Regulation 327/2011 (FAN)

Measurement category: C

Efficiency category: Static

According to EN ISO 5801 / AMCA 210.



Modelli da 310 a 400:  
girante in tecnopolimero  
rinforzato con fibre minerali.

Models from 310 to 400:  
impeller in mineral fibres  
reinforced technopolymer.

### DESCRIZIONE GENERALE

I ventilatori assiali intubati della serie CCZ sono utilizzati in applicazioni canalizzate in cui sono richieste consistenti portate e pressioni ridotte. Trovano impiego in impianti di ventilazione e raffreddamento in ambito industriale, navale, commerciale, civile ed energetico. Questa serie presenta una notevole facilità di montaggio e manutenzione grazie alla compattezza dovuta alla mancanza di parti sporgenti. I gruppi motore ventola sono perfettamente regolabili nella velocità di rotazione e presentano una ottima silenziosità di funzionamento. La serie è costituita da 6 modelli con diametro da 310 a 560 mm. L'impiego è previsto con aria pulita nell'intervallo di temperatura da -25°C a +60°C.

### COSTRUZIONE

- Cassa in lamiera d'acciaio, con flange di fissaggio realizzate a norma UNI ISO 6580 - EUROVENT. Verniciata a polveri epossipoliesteriche.
- Girante con pale a profilo alare in tecnopolimero rinforzato con fibre minerali (310/400) e fusione in lega di alluminio (450/560) solidale al motore a rotore esterno.
- Esecuzione 5 (accoppiamento diretto con girante a sbalzo). Flusso dell'aria da motore a girante.
- Motori a rotore esterno termoprotetti trifase a doppia velocità e monofase predisposti alla regolazione. Scatola portacontatti montata sul tamburo da 310 a 400. Da 450 a 560 montata su motore.

### ACCESSORI

- Rete di protezione Piana (CCr)
- Giunto antivibrante (CCga)
- Staffe di fissaggio (CCst)
- Boccaglio in aspirazione/mandata (CCbo)
- Silenziatori con o senza ogiva con tre lunghezze (CCsa e CCsb)
- Controflange piane (CCf)
- Controflange con collare (CCfc)
- Supporti antivibranti

### A RICHIESTA

- Cassa zincata a caldo
- Versioni trasportabili con cavalletto (CCP)

### GENERAL DESCRIPTION

The ducted axial fans of CCZ series are used for ducted installations requiring large airflow with relatively low pressure drop, like ventilation and cooling systems in industrial, naval, commercial, civil, energetic fields. These fans are particularly easy to install and to maintain thanks to their compact size and the total absence of protruding parts. The motor-impeller groups are perfectly speed controllable and ensure low noise running. The series consists of 6 different sizes with impeller diameter from 310 to 560 mm. The fans are suitable for conveying clean air with temperature from -25°C to +60°C.

### CONSTRUCTION

- Short casing in steel sheet, with fixing flanges manufactured according to UNI ISO 6580-EUROVENT standard. Protected against atmospheric agents by epoxy paint.
- High quality aerofoil profiled impellers in mineral fibres reinforced technopolymer (310 to 400) and die cast a aluminum alloy (450 to 560). Blades are directly fixed to the motor external rotor.
- Execution 5 (with impeller directly coupled to the motor) and airflow from motor to impeller.
- External rotor motors with built-in thermal protection, double speed three-phase and single-phase, speed adjustable. Connection box on the casing (up to model 400) and on the motor (models 450 to 560).

### ACCESSORIES

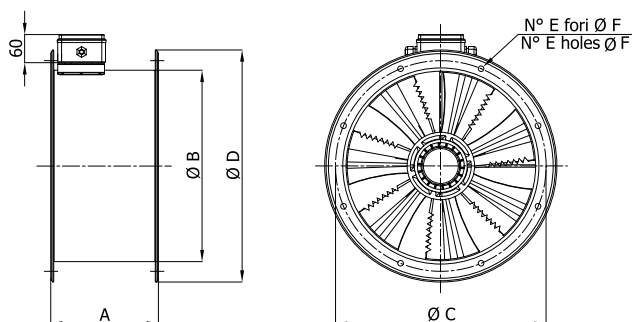
- Flat protection guard (CCr)
- Flexible connectors (CCga)
- Support feet (CCst)
- Inlet/outlet bell mouth (CCbo)
- Silencers, with and without pod, in three lengths (CCsa and CCsb)
- Counter flange flat (CCf)
- Counter flange with collar (CCfc)
- Anti-vibration mounts.

### UPON REQUEST

- Casing protected against atmospheric agents by hotdip galvanizing
- Portable versions, with casing support (CCP)

## DIMENSIONI Dimensions (mm)

CCZ



| TIPO / TYPE | A   | B   | C   | D   | E  | F  | Kg |
|-------------|-----|-----|-----|-----|----|----|----|
| CCZ 310     | 200 | 305 | 355 | 395 | 8  | 10 | 10 |
| CCZ 350     | 200 | 355 | 395 | 446 | 8  | 10 | 13 |
| CCZ 400     | 230 | 405 | 450 | 496 | 8  | 12 | 16 |
| CCZ 450     | 230 | 455 | 500 | 546 | 8  | 12 | 23 |
| CCZ 500     | 250 | 505 | 560 | 598 | 12 | 12 | 26 |
| CCZ 560     | 250 | 565 | 620 | 658 | 12 | 12 | 30 |

Dimensioni in mm / Dimensions in mm  
Pesi indicativi / Indicative weights

Le prestazioni aeruliche sono rilevate in conformit  alla norma EN ISO 5801-AMCA 210 con densit  dell'aria standard avente peso specifico 1,2 kg/m<sup>3</sup>.  
Conformi alla Direttiva ErP 2009/125/CE e al regolamento UE327/2011.  
Categoria di misura: C. Categoria di efficienza: Statica.  
Alimentazione 400V/3Ph/50Hz.

**Lp:** Livello di pressione sonora rilevato in condizioni di campo libero, propagazione emisferica, categoria di misura C a norma EN ISO 13349, nel punto di massimo rendimento, alla distanza di 3 metri dal lato aspirazione e si presenta solo per fini comparativi.  
**Lw:** Livello di potenza sonora ottenuto secondo norma ISO 3746. Tolleranza +/- 3 dB(A).

Air performances measured according to EN ISO 5801 / AMCA 210 standard with air density with 1.2 kg/m<sup>3</sup> specific weight.  
Compliant with ErP 2009/125/EC Directive and EU Regulation 327/2011.  
Measurement category: C. Efficiency category: Static.  
Power supply 400V/3Ph/50Hz.

**Lp:** Sound pressure level measured in free field conditions, propagation hemispherical, measurement category C in accordance with EN ISO 13349, at the point of maximum efficiency, at a distance of 3 meters (for comparative purposes only).  
**Lw:** Sound power level obtained in accordance with EN ISO 3746. Tolerance +/- 3 dB(A).

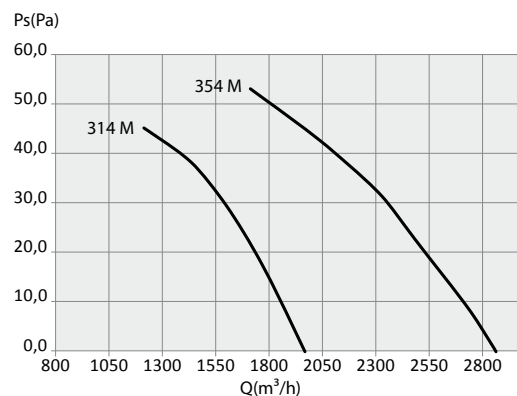
## Versioni MONOFASE - SINGLE PHASE versions

### CCZ 310 - 350

| Cod.    | Tipo Type | Modello Model | U | P | Pm (kW) | In (A) | ⌋ (μF) 400V | IP/CL |
|---------|-----------|---------------|---|---|---------|--------|-------------|-------|
| 1CC0030 | CCZ       | 314           | M | 4 | 0,10    | 0,42   | 3           | 54/F  |
| 1CC0035 | CCZ       | 354           | M | 4 | 0,12    | 0,56   | 5           | 54/F  |

#### Livelli sonori - Sound levels / dB(A)

| [Hz]         | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | TOT |
|--------------|----|-----|-----|-----|------|------|------|------|-----|
| CCZ 310 M Lw | 36 | 60  | 61  | 61  | 64   | 69   | 63   | 51   | 72  |
| CCZ 310 M Lp | 18 | 42  | 43  | 43  | 46   | 51   | 45   | 30   | 55  |
| CCZ 350 M Lw | 41 | 64  | 61  | 64  | 67   | 70   | 63   | 54   | 74  |
| CCZ 350 M Lp | 23 | 46  | 43  | 46  | 49   | 52   | 45   | 33   | 56  |



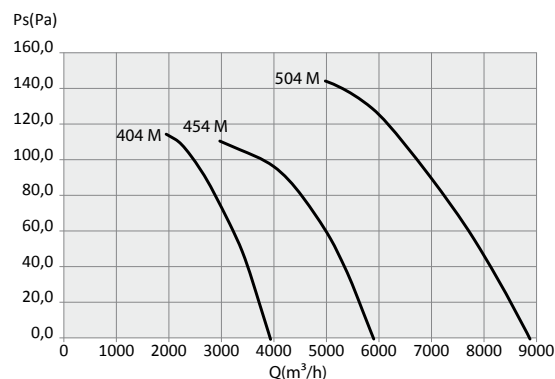
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### CCZ 400 - 450 - 500

| Cod.    | Tipo Type | Modello Model | U | P | Pm (kW) | In (A) | ⌋ (μF) 400V | IP/CL |
|---------|-----------|---------------|---|---|---------|--------|-------------|-------|
| 1CC0040 | CCZ       | 404           | M | 4 | 0,24    | 1,05   | 5           | 54/F  |
| 1CC0045 | CCZ       | 454           | M | 4 | 0,60    | 2,90   | 7           | 44/F  |
| 1CC0050 | CCZ       | 504           | M | 4 | 0,72    | 3,20   | 16          | 54/F  |

#### Livelli sonori - Sound levels / dB(A)

| [Hz]         | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | TOT |
|--------------|----|-----|-----|-----|------|------|------|------|-----|
| CCZ 400 M Lw | 45 | 67  | 71  | 72  | 74   | 75   | 69   | 60   | 80  |
| CCZ 400 M Lp | 27 | 49  | 53  | 54  | 56   | 57   | 51   | 39   | 62  |
| CCZ 450 M Lw | 47 | 70  | 72  | 80  | 77   | 78   | 78   | 72   | 85  |
| CCZ 450 M Lp | 29 | 52  | 54  | 62  | 59   | 60   | 60   | 51   | 67  |
| CCZ 500 M Lw | 49 | 72  | 74  | 74  | 76   | 77   | 73   | 66   | 83  |
| CCZ 500 M Lp | 31 | 54  | 56  | 56  | 58   | 59   | 55   | 45   | 65  |



Le prestazioni aeruliche sono rilevate in conformit  alla norma EN ISO 5801-AMCA 210 con densit  dell'aria standard avente peso specifico 1,2 kg/m<sup>3</sup>.  
Conformi alla Direttiva ErP 2009/125/CE e al regolamento UE327/2011.  
Categoria di misura: C. Categoria di efficienza: Statica.  
Alimentazione 400V/3Ph/50Hz.

**Lp:** Livello di pressione sonora rilevato in condizioni di campo libero, propagazione emisferica, categoria di misura C a norma EN ISO 13349, nel punto di massimo rendimento, alla distanza di 3 metri dal lato aspirazione e si presenta solo per fini comparativi.  
**Lw:** Livello di potenza sonora ottenuto secondo norma ISO 3746. Tolleranza +/- 3 dB(A).

Air performances measured according to EN ISO 5801 / AMCA 210 standard with air density with 1.2 kg/m<sup>3</sup> specific weight.  
Compliant with ErP 2009/125/EC Directive and EU Regulation 327/2011.  
Measurement category: C. Efficiency category: Static.  
Power supply 400V/3Ph/50Hz.

**Lp:** Sound pressure level measured in free field conditions, propagation hemispherical, measurement category C in accordance with EN ISO 13349, at the point of maximum efficiency, at a distance of 3 meters (for comparative purposes only).  
**Lw:** Sound power level obtained in accordance with EN ISO 3746. Tolerance +/- 3 dB(A).

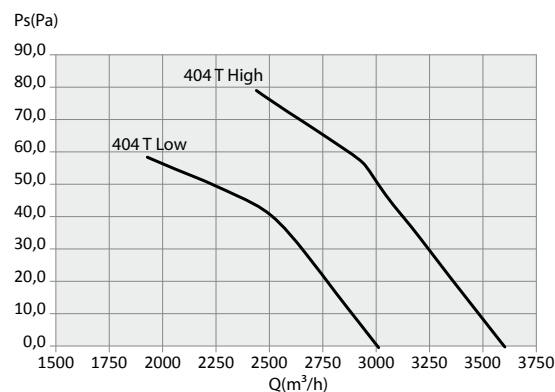
## Versioni TRIFASE - THREE PHASE versions

### CCZ 400

| Cod.    | Tipo Type | Modello Model | U | P | Pm (kW)      | In (A)       | IP/CL |
|---------|-----------|---------------|---|---|--------------|--------------|-------|
| 1CC0041 | CCZ       | 404           | T | 4 | 0,23<br>0,17 | 0,46<br>0,27 | 54/F  |

#### Livelli sonori - Sound levels / dB(A)

| [Hz]                    | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | TOT |
|-------------------------|----|-----|-----|-----|------|------|------|------|-----|
| CCZ 400 T Low speed Lw  | 43 | 61  | 62  | 67  | 71   | 71   | 65   | 55   | 76  |
| CCZ 400 T Low speed Lp  | 25 | 43  | 44  | 49  | 53   | 53   | 47   | 34   | 58  |
| CCZ 400 T High speed Lw | 44 | 65  | 66  | 70  | 74   | 75   | 70   | 60   | 79  |
| CCZ 400 T High speed Lp | 26 | 47  | 48  | 52  | 56   | 57   | 52   | 39   | 62  |

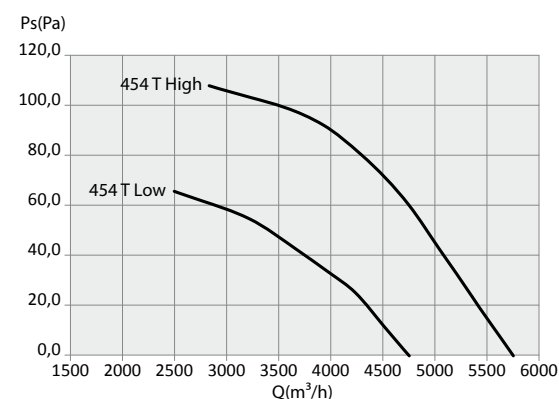


### CCZ 450

| Cod.    | Tipo Type | Modello Model | U | P | Pm (kW)      | In (A)       | IP/CL |
|---------|-----------|---------------|---|---|--------------|--------------|-------|
| 1CC0046 | CCZ       | 454           | T | 4 | 0,54<br>0,36 | 1,10<br>0,66 | 44/F  |

#### Livelli sonori - Sound levels / dB(A)

| [Hz]                    | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | TOT |
|-------------------------|----|-----|-----|-----|------|------|------|------|-----|
| CCZ 450 T Low speed Lw  | 43 | 63  | 64  | 75  | 74   | 75   | 68   | 60   | 80  |
| CCZ 450 T Low speed Lp  | 25 | 45  | 46  | 57  | 56   | 57   | 50   | 39   | 62  |
| CCZ 450 T High speed Lw | 49 | 69  | 71  | 74  | 79   | 79   | 75   | 66   | 84  |
| CCZ 450 T High speed Lp | 31 | 51  | 53  | 56  | 61   | 61   | 57   | 45   | 66  |



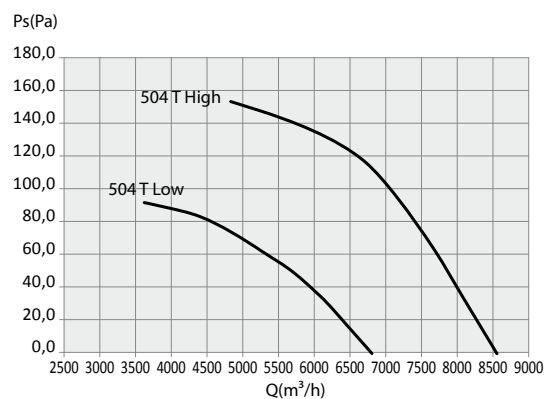
Le prestazioni aeruliche sono rilevate in conformità alla norma EN ISO 5801-AMCA 210 con densità dell'aria standard avente peso specifico 1,2 kg/m³.  
Conformi alla Direttiva ErP 2009/125/CE e al regolamento UE 327/2011.  
Categoria di misura: C. Categoria di efficienza: Statica.  
Alimentazione 400V/3Ph/50Hz.

**Lp:** Livello di pressione sonora rilevato in condizioni di campo libero, propagazione emisferica, categoria di misura C a norma EN ISO 13349, nel punto di massimo rendimento, alla distanza di 3 metri dal lato aspirazione e si presenta solo per fini comparativi.  
**Lw:** Livello di potenza sonora ottenuto secondo norma ISO 3746. Tolleranza +/- 3 dB(A).

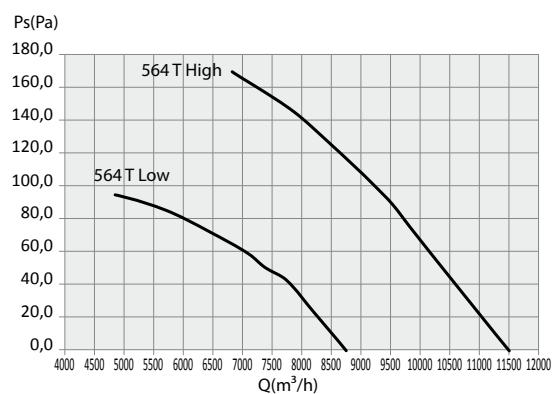
Air performances measured according to EN ISO 5801 / AMCA 210 standard with air density with 1.2 kg/m³ specific weight.  
Compliant with ErP 2009/125/EC Directive and EU Regulation 327/2011.  
Measurement category: C. Efficiency category: Static.  
Power supply 400V/3Ph/50Hz.

**Lp:** Sound pressure level measured in free field conditions, propagation hemispherical, measurement category C in accordance with EN ISO 13349, at the point of maximum efficiency, at a distance of 3 meters (for comparative purposes only).  
**Lw:** Sound power level obtained in accordance with EN ISO 3746. Tolerance +/- 3 dB(A).

| CCZ 500                               |              |                  |     |     |              |              |       |      |     |
|---------------------------------------|--------------|------------------|-----|-----|--------------|--------------|-------|------|-----|
| Cod.                                  | Tipo<br>Type | Modello<br>Model | U   | P   | Pm<br>(kW)   | In<br>(A)    | IP/CL |      |     |
| 1CC0051                               | CCZ          | 504              | T   | 4   | 0,84<br>0,54 | 1,45<br>0,96 | 54/F  |      |     |
| Livelli sonori - Sound levels / dB(A) |              |                  |     |     |              |              |       |      |     |
| [Hz]                                  | 63           | 125              | 250 | 500 | 1000         | 2000         | 4000  | 8000 | TOT |
| CCZ 500 T Low speed Lw                | 45           | 64               | 70  | 73  | 75           | 76           | 70    | 61   | 81  |
| CCZ 500 T Low speed Lp                | 27           | 46               | 52  | 55  | 57           | 58           | 52    | 40   | 63  |
| CCZ 500 T High speed Lw               | 50           | 73               | 72  | 77  | 81           | 80           | 77    | 68   | 86  |
| CCZ 500 T High speed Lp               | 32           | 55               | 54  | 59  | 63           | 62           | 59    | 47   | 68  |



| CCZ 560                               |              |                  |     |     |              |              |       |      |     |
|---------------------------------------|--------------|------------------|-----|-----|--------------|--------------|-------|------|-----|
| Cod.                                  | Tipo<br>Type | Modello<br>Model | U   | P   | Pm<br>(kW)   | In<br>(A)    | IP/CL |      |     |
| 1CC0056                               | CCZ          | 564              | T   | 4   | 1,05<br>0,58 | 2,20<br>1,10 | 54/F  |      |     |
| Livelli sonori - Sound levels / dB(A) |              |                  |     |     |              |              |       |      |     |
| [Hz]                                  | 63           | 125              | 250 | 500 | 1000         | 2000         | 4000  | 8000 | TOT |
| CCZ 560 T Low speed Lw                | 52           | 67               | 70  | 76  | 80           | 80           | 74    | 66   | 85  |
| CCZ 560 T Low speed Lp                | 34           | 49               | 52  | 58  | 62           | 62           | 56    | 45   | 67  |
| CCZ 560 T High speed Lw               | 55           | 75               | 77  | 82  | 86           | 85           | 81    | 72   | 90  |
| CCZ 560 T High speed Lp               | 37           | 57               | 59  | 64  | 68           | 67           | 63    | 51   | 73  |



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