

# S-CUBE P KAT

## Cassoni centrifughi pale rovesce per aria ad alta temperatura per cucine industriali (180°C)

## Backward curve centrifugal box fans for high temperature air of industrial kitchens (180°C)



### DESCRIZIONE

I cassoni a pale rovesce insonorizzati S-CUBE P KAT sono progettati per l'aspirazione su cappe da cucina impiegate nel campo della ristorazione e in impianti industriali. La loro caratteristica peculiare consiste nell'avere il motore separato dal flusso d'aria per mezzo di un setto in lamiera zincata, preservando così il motore dalle tipiche sostanze di natura grassa e residui di combustione prodotti dai fornelli delle cucine e riducendo al minimo necessario le operazioni di pulizia e di manutenzione. I pannelli a doppio strato isolati acusticamente riducono il livello di rumore per un migliore comfort anche in caso di installazioni interne.
Sono adatti a convogliare aria con temperatura compresa da -20°C a +180°C.

### COSTRUZIONE

- Telaio realizzato con profili di alluminio e pannelli smontabili a doppio strato imbottiti con materiale fonoassorbente (sp. 25 mm).
- Esecuzione 5 (accoppiamento diretto con girante a sbalzo su motore flangiato B5).
- Isolamento acustico interno ai pannelli in materiale autoestinguente.
- Girante a pale rovesce in acciaio zincato bilanciata dinamicamente secondo la UNI ISO 21940-11:2017.
- Piedi di fissaggio con fori predisposti per il sollevamento e una facile installazione.
- Vaschetta raccogli grasso e manicotto di scarico integrati.

### MOTORE

Motori asincroni trifase o monofase a norme internazionali IEC 60034, IEC 60072, EMC 2014/30/UE, LVD 2014/35/UE, marcato CE, IP55, classe F. Tutti idonei ad un servizio S1 (funzionamento continuo a carico costante).

### ACCESSORI

- Tettuccio parapioggia
- Supporti antivibranti
- Piedi di supporto a pavimento
- Raccordo premente Quadro-Tondo
- Raccordo aspirante tondo
- Giunto antivibrante
- Interruttore di servizio IP67.

### DESCRIPTION

S-CUBE P KAT backward curved impellers box fans are designed for ducted or direct exhaust on kitchen hoods used in the field of catering and industrial plants. The special feature of this box consists in having the motor separated from the air flow by means of a galvanised sheet metal panel, thus preserving the motor from typical oily substances and combustion residues produced by cookers and reducing cleaning and maintenance operations to a minimum.
The double skin acoustically insulated panels reduce the noise level for a better comfort also in case of indoor installations.
Suitable to convey air in a range of temperature from -20°C up to +180°C.

### CONSTRUCTION

- Aluminium frame with double skin sound absorbing insulated panels removable from the impeller side (thick 25 mm).
- Motor external to the stream, B5 execution directly coupled to the impeller.
- Sound absorbing and self-extinguishing material between the steel sheet layers of the panels.
- Galvanized steel sheet backward curved impeller dynamically balanced according to la UNI ISO 21940-11:2017.
- Punched mounting feet for an easy handling and fixing.
- Grease collection tray and drain sleeve integrated.

### MOTOR

Asynchronous squirrel cage three-phase or single-phase motors according to international standards IEC 60034, IEC 60072, EMC 2014/30/UE, LVD 2014/35/UE, CE marked, IP 55, Class F. Suitable to S1 service (continuous running with constant load).

### ACCESSORIES

- Watherproof protection cover
- Anti-vibration supports
- Floor support feet
- Square to round outlet adaptor
- Round spigot inlet cone
- Flexible connector
- Service switch IP67.

### VERSIONI | VERSIONS

**S-CUBE P KAT EC**
Versioni con motore elettronico ad alta efficienza
Versions with high efficiency electronically controlled motors





elicent® aspirazione evoluta

# PRESTAZIONI | PERFORMANCE



Le prestazioni aerauliche sono rilevate in conformità alla norma EN ISO 5801/AMCA 210 con densità dell'aria standard avente peso specifico 1,2 Kg/m³. Alimentazione 230V/1Ph/50Hz o 400V/3Ph/50Hz.
Air performances measured according to EN ISO 5801 / AMCA 210 standard with air density with 1,2 Kg/m³ specific weight.
Power supply 230V/1Ph/50Hz or 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.
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, inlet side (for comparative purposes only).

**Lw** Livello di potenza sonora ottenuto secondo norma ISO 3746. Tolleranza +/- 3 dB(A).
Sound power level obtained in accordance with EN ISO 3746. Tolerance +/- 3 dB(A).

**U – M/T**
Alimentazione elettrica Monofase/Trifase
Power supply Single/Three-phase

**P**
N° di poli motore
N° of motor poles
(RPM: 2p=3000 4p=1500 6p=1000 8p=750)

**Pm (kW)**
Potenza nominale motore
Motor power rating

**In (A)**
Corrente nominale a pieno carico
Full load current

**IP/CL**
Grado di protezione motore/Classe di isolamento
Motor protection grade/Insulation class

**Mot. (Gr)**
Grandezza motore
Motor size

**Lp/Lw (dBA)**
Livello di pressione e potenza sonora
Sound pressure and volume levels

**Ps (Pa)**
Pressione statica
Static pressure

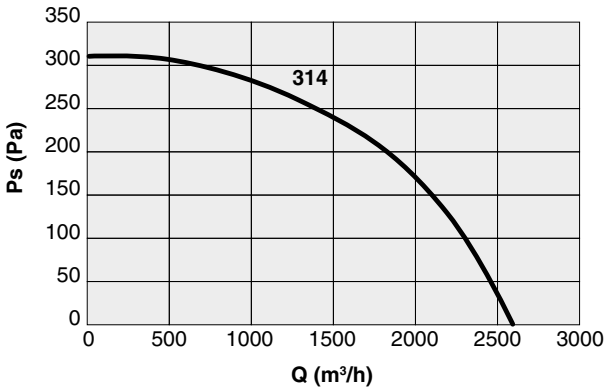
**Q (m³/h)**
Portata volumetrica
Airflow volume

## S-CUBE P KAT 31

| Code | Tipo / Type | Modello / Model | U | P | Pm (kW) | In (A) | IP/CL | IE3 | Mot. (Gr) |
|---|---|---|---|---|---|---|---|---|---|
| 1SK3151 | S-CUBE P KAT | 314 | M | 4 | 0.18 | 1.10 | 55/F | - | 63 |
| 1SK3150 | | | T | 4 | 0.18 | 0.65 | 55/F | - | 63 |

### LIVELLI SONORI | SOUND LEVELS dB(A)

| Hz | | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | TOT |
|---|---|---|---|---|---|---|---|---|---|---|
| 314 | Lw | 40 | 54 | 60 | 65 | 65 | 62 | 57 | 46 | 70 |
| | Lp | 20 | 33 | 40 | 44 | 44 | 41 | 36 | 25 | 49 |

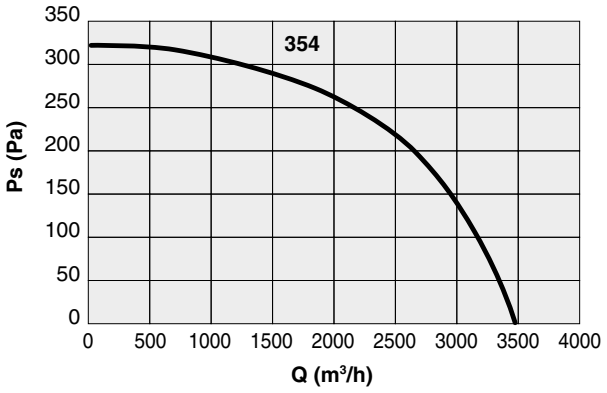


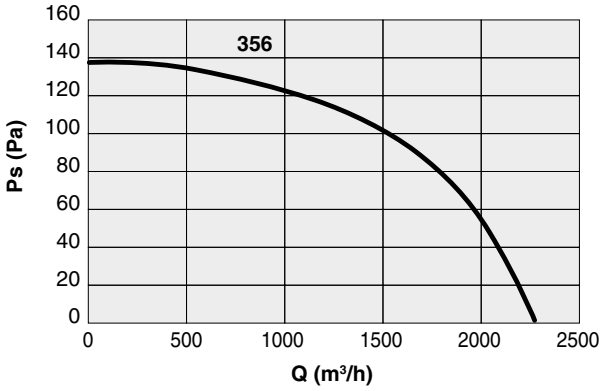

## S-CUBE P KAT 35

| Code | Tipo / Type | Modello / Model | U | P | Pm (kW) | In (A) | IP/CL | IE3 | Mot. (Gr) |
|---|---|---|---|---|---|---|---|---|---|
| 1SK3551 | S-CUBE P KAT | 354 | M | 4 | 0.25 | 1.55 | 55/F | - | 71 |
| 1SK3550 | | | T | 4 | 0.25 | 0.90 | 55/F | - | 71 |
| 1SK3553 | | 356 | T | 6 | 0.18 | 0.55 | 55/F | - | 63 |

### LIVELLI SONORI | SOUND LEVELS dB(A)

| Hz | | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | TOT |
|---|---|---|---|---|---|---|---|---|---|---|
| 354 | Lw | 43 | 57 | 64 | 66 | 67 | 64 | 61 | 49 | 72 |
| | Lp | 22 | 36 | 43 | 46 | 46 | 43 | 40 | 29 | 51 |
| 356 | Lw | 25 | 39 | 46 | 49 | 50 | 47 | 43 | 32 | 55 |
| | Lp | 13 | 27 | 34 | 37 | 38 | 35 | 31 | 20 | 43 |



**U – M/T**
Alimentazione elettrica
Monofase/Trifase
Power supply
Single/Three-phase

**P**
N° di poli motore
N° of motor poles
(RPM: 2p=3000 4p=1500 6p=1000 8p=750)

**Pm (kW)**
Potenza nominale motore
Motor power rating

**In (A)**
Corrente nominale a pieno carico
Full load current

**IP/CL**
Grado di protezione motore/Classe di isolamento
Motor protection grade/Insulation class

**Mot. (Gr)**
Grandezza motore
Motor size

**Lp/Lw (dBA)**
Livello di pressione e potenza sonora
Sound pressure and volume levels

**Ps (Pa)**
Pressione statica
Static pressure

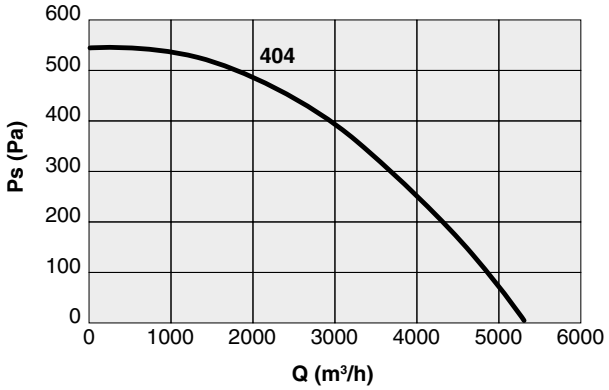
**Q (m³/h)**
Portata volumetrica
Airflow volume

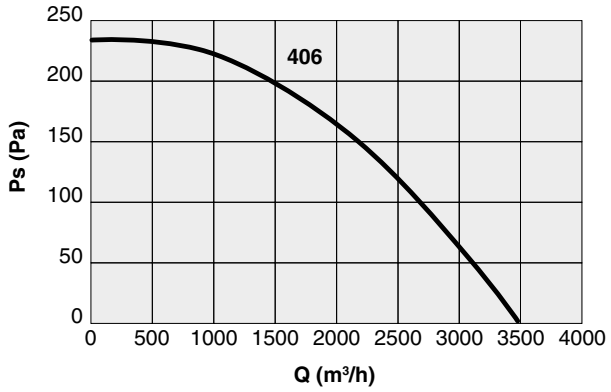
## S-CUBE P KAT 40

| Code | Tipo Type | Modello Model | U | P | Pm (kW) | In (A) | IP/CL | IE3 | Mot. (Gr) |
|---|---|---|---|---|---|---|---|---|---|
| 1SK4051 | S-CUBE P KAT | 404 | M | 4 | 0.55 | 2.95 | 55/F | - | 80 |
| 1SK4050 | | | T | 4 | 0.55 | 1.70 | 55/F | - | 80 |
| 1SK4053 | | 406 | T | 6 | 0.25 | 0.70 | 55/F | - | 71 |

### LIVELLI SONORI | SOUND LEVELS dB(A)

| Hz | | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | TOT |
|---|---|---|---|---|---|---|---|---|---|---|
| 404 | Lw | 46 | 60 | 67 | 70 | 70 | 67 | 63 | 52 | 75 |
| | Lp | 25 | 39 | 47 | 50 | 50 | 47 | 42 | 32 | 55 |
| 406 | Lw | 29 | 42 | 50 | 53 | 53 | 50 | 45 | 35 | 58 |
| | Lp | 17 | 30 | 38 | 41 | 41 | 38 | 33 | 23 | 46 |



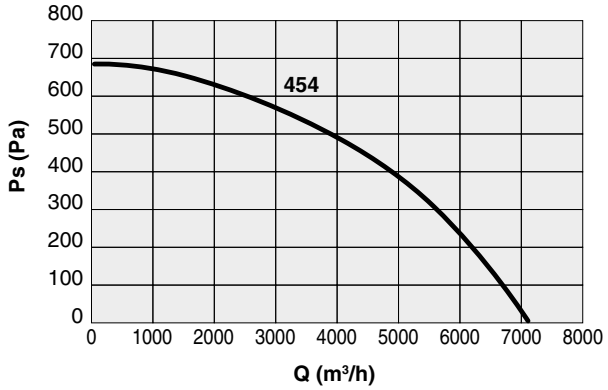



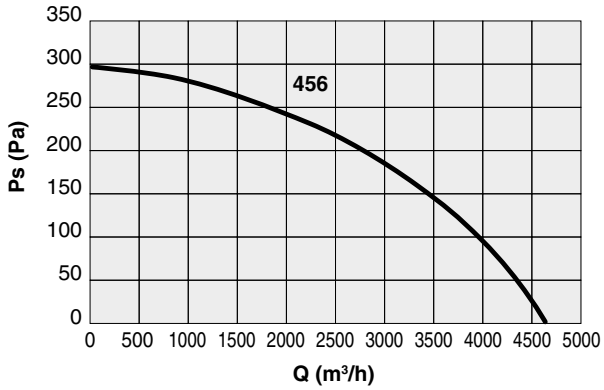

## S-CUBE P KAT 45

| Code | Tipo Type | Modello Model | U | P | Pm (kW) | In (A) | IP/CL | IE3 | Mot. (Gr) |
|---|---|---|---|---|---|---|---|---|---|
| 1SK4551 | S-CUBE P KAT | 454 | M | 4 | 0.75 | 3.60 | 55/F | ✓ | 80 |
| 1SK4550 | | | T | 4 | 0.75 | 2.10 | 55/F | ✓ | 80 |
| 1SK4553 | | 456 | T | 6 | 0.37 | 1.40 | 55/F | - | 80 |

### LIVELLI SONORI | SOUND LEVELS dB(A)

| Hz | | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | TOT |
|---|---|---|---|---|---|---|---|---|---|---|
| 454 | Lw | 46 | 61 | 69 | 72 | 73 | 71 | 66 | 55 | 78 |
| | Lp | 25 | 41 | 48 | 52 | 53 | 50 | 45 | 35 | 57 |
| 456 | Lw | 28 | 44 | 52 | 55 | 56 | 54 | 48 | 38 | 61 |
| | Lp | 16 | 32 | 40 | 43 | 44 | 42 | 36 | 26 | 49 |



**U – M/T**
Alimentazione elettrica
Monofase/Trifase
Power supply
Single/Three-phase

**P**
N° di poli motore
N° of motor poles
(RPM: 2p=3000 4p=1500
6p=1000 8p=750)

**Pm (kW)**
Potenza
nominale motore
Motor power rating

**In (A)**
Corrente nominale
a pieno carico
Full load current

**IP/CL**
Grado di protezione
motore/Classe di isolamento
Motor protection
grade/Insulation class

**Mot. (Gr)**
Grandezza
motore
Motor size

**Lp/Lw (dBA)**
Livello di pressione
e potenza sonora
Sound pressure
and volume levels

**Ps (Pa)**
Pressione
statica
Static pressure

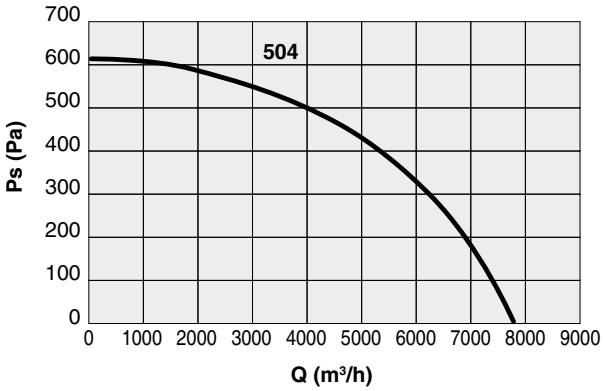
**Q (m³/h)**
Portata
volumetrica
Airflow
volume

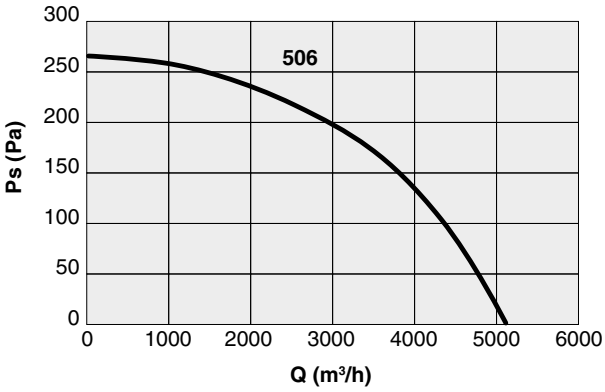
## S-CUBE P KAT 50

| Code | Tipo Type | Modello Model | U | P | Pm (kW) | In (A) | IP/CL | IE3 | Mot. (Gr) |
|---|---|---|---|---|---|---|---|---|---|
| 1SK5050 | S-CUBE P KAT | 504 | T | 4 | 1.50 | 3.40 | 55/F | ✓ | 90 |
| 1SK5051 | | 506 | T | 6 | 0.55 | 1.40 | 55/F | - | 80 |

### LIVELLI SONORI | SOUND LEVELS dB(A)

| Hz | | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | TOT |
|---|---|---|---|---|---|---|---|---|---|---|
| 504 | Lw | 42 | 52 | 62 | 65 | 66 | 63 | 56 | 47 | 70 |
| | Lp | 30 | 40 | 50 | 53 | 54 | 51 | 44 | 35 | 58 |
| 506 | Lw | 42 | 52 | 61 | 64 | 65 | 63 | 56 | 46 | 70 |
| | Lp | 22 | 32 | 41 | 44 | 45 | 43 | 36 | 26 | 50 |



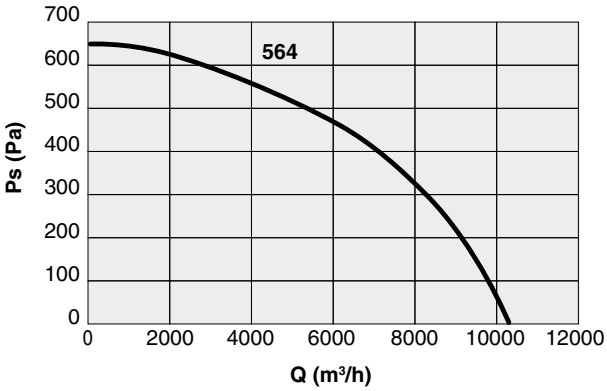



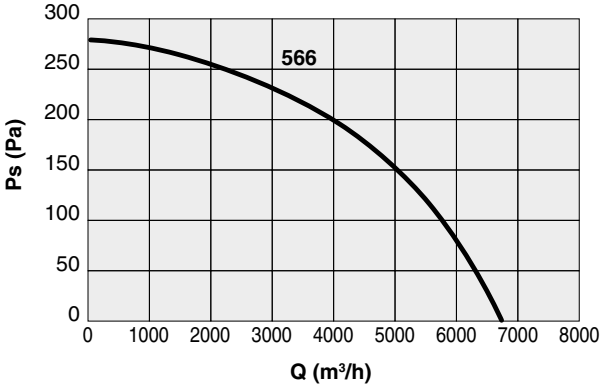

## S-CUBE P KAT 56

| Code | Tipo Type | Modello Model | U | P | Pm (kW) | In (A) | IP/CL | IE3 | Mot. (Gr) |
|---|---|---|---|---|---|---|---|---|---|
| 1SK5651 | S-CUBE P KAT | 564 | T | 4 | 3.00 | 6.30 | 55/F | ✓ | 100 |
| 1SK5650 | | 566 | T | 6 | 0.55 | 1.40 | 55/F | - | 80 |

### LIVELLI SONORI | SOUND LEVELS dB(A)

| Hz | | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | TOT |
|---|---|---|---|---|---|---|---|---|---|---|
| 564 | Lw | 51 | 62 | 68 | 70 | 72 | 70 | 63 | 54 | 77 |
| | Lp | 39 | 50 | 56 | 58 | 60 | 58 | 51 | 42 | 65 |
| 566 | Lw | 51 | 62 | 68 | 70 | 71 | 69 | 63 | 54 | 76 |
| | Lp | 30 | 41 | 48 | 50 | 51 | 49 | 43 | 33 | 56 |



**U – M/T**
Alimentazione elettrica
Monofase/Trifase
Power supply
Single/Three-phase

**P**
N° di poli motore
N° of motor poles
(RPM: 2p=3000 4p=1500
6p=1000 8p=750)

**Pm (kW)**
Potenza
nominale motore
Motor power rating

**In (A)**
Corrente nominale
a pieno carico
Full load current

**IP/CL**
Grado di protezione
motore/Classe di isolamento
Motor protection
grade/Insulation class

**Mot. (Gr)**
Grandezza
motore
Motor size

**Lp/Lw (dBA)**
Livello di pressione
e potenza sonora
Sound pressure
and volume levels

**Ps (Pa)**
Pressione
statica
Static pressure

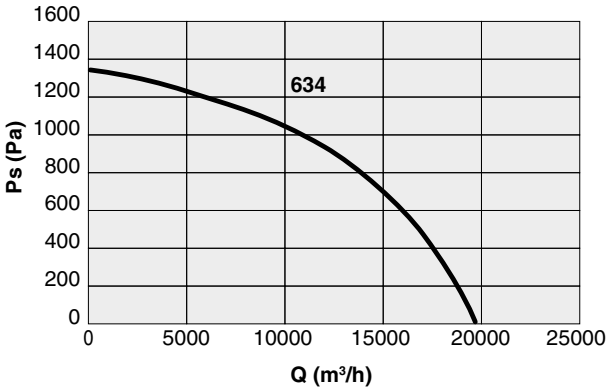
**Q (m³/h)**
Portata
volumetrica
Airflow
volume

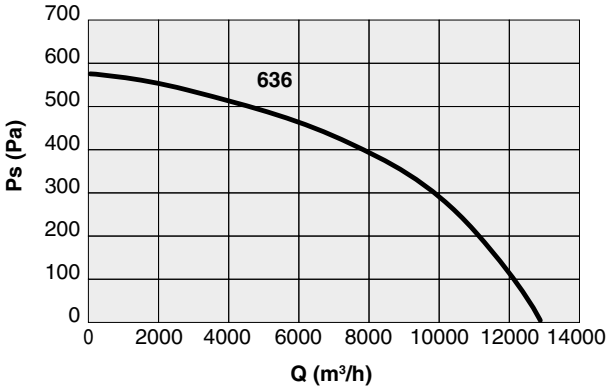
## S-CUBE P KAT 63

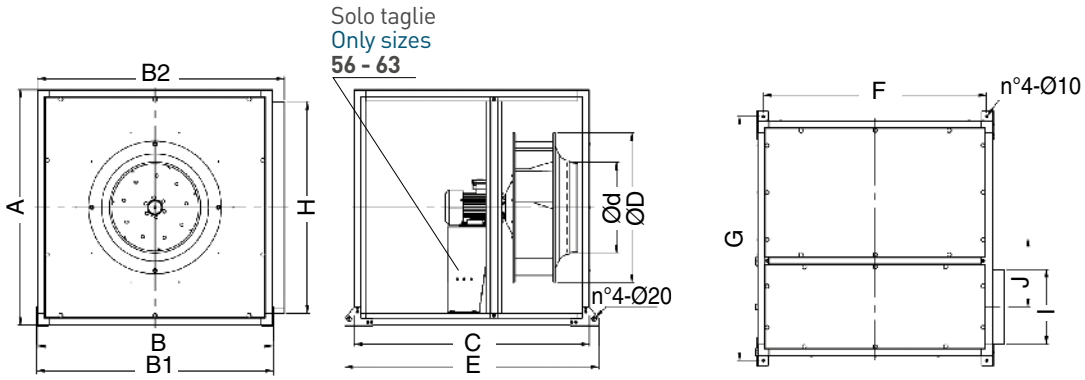
| Code | Tipo Type | Modello Model | U | P | Pm (kW) | In (A) | IP/CL | IE3 | Mot. (Gr) |
|---|---|---|---|---|---|---|---|---|---|
| 1SK6350 | S-CUBE P KAT | 634 | T | 4 | 5.50 | 10.40 | 55/F | ✓ | 132 |
| 1SK6351 | | 636 | T | 6 | 1.10 | 2.80 | 55/F | ✓ | 90 |

### LIVELLI SONORI | SOUND LEVELS dB(A)

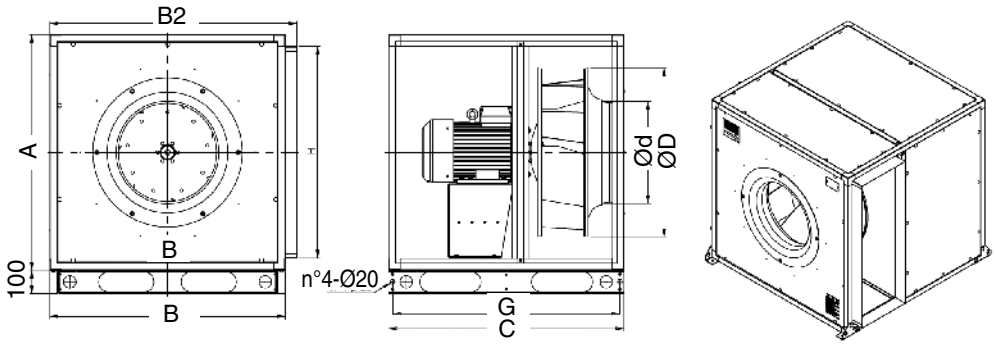
| Hz | | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | TOT |
|---|---|---|---|---|---|---|---|---|---|---|
| 634 | Lw | 52 | 65 | 71 | 75 | 76 | 74 | 69 | 60 | 81 |
| | Lp | 40 | 53 | 59 | 63 | 64 | 62 | 57 | 48 | 69 |
| 636 | Lw | 52 | 65 | 71 | 74 | 75 | 73 | 68 | 60 | 80 |
| | Lp | 32 | 44 | 51 | 54 | 55 | 53 | 48 | 40 | 60 |






SOLO PER VERSIONE **63** | ONLY FOR VERSION **63**




## S-CUBE P KAT

| TIPO \| TYPE | A | B | B1 | B2 | C | Ød | ØD | E | F | G | H | I | J | Kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **S-CUBE P KAT 31** | 650 | 650 | 656 | 689 | 650 | 215 | 360 | 730 | 598 | 686 | 549 | 158 | 195 | 57 |
| **S-CUBE P KAT 35** | 650 | 650 | 656 | 689 | 650 | 243 | 404 | 730 | 598 | 686 | 549 | 173 | 188 | 59 |
| **S-CUBE P KAT 40** | 750 | 750 | 756 | 799 | 750 | 275 | 455 | 830 | 698 | 786 | 649 | 208 | 220 | 80 |
| **S-CUBE P KAT 45** | 750 | 750 | 756 | 799 | 750 | 309 | 505 | 830 | 698 | 786 | 649 | 233 | 208 | 85 |
| **S-CUBE P KAT 50** | 750 | 750 | 756 | 799 | 750 | 343 | 566 | 830 | 698 | 786 | 649 | 288 | 180 | 102 |
| **S-CUBE P KAT 56 – 6P** | 1000 | 1000 | 1006 | 1050 | 1000 | 384 | 636 | 1080 | 948 | 1036 | 899 | 318 | 290 | 152 |
| **S-CUBE P KAT 56 – 4P** | 1000 | 1000 | 1006 | 1050 | 1000 | 384 | 636 | 1080 | 948 | 1036 | 899 | 318 | 290 | 175 |
| **S-CUBE P KAT 63 – 6P** | 1000 | 1000 | 1000 | 1050 | 1000 | 433 | 716 | 1000 | - | 965 | 899 | 353 | 273 | 177 |
| **S-CUBE P KAT 63 – 4P** | 1000 | 1000 | 1000 | 1050 | 1000 | 433 | 716 | 1000 | - | 965 | 899 | 353 | 273 | 234 |

Pesi indicativi | Indicative weights

### INSTALLAZIONE

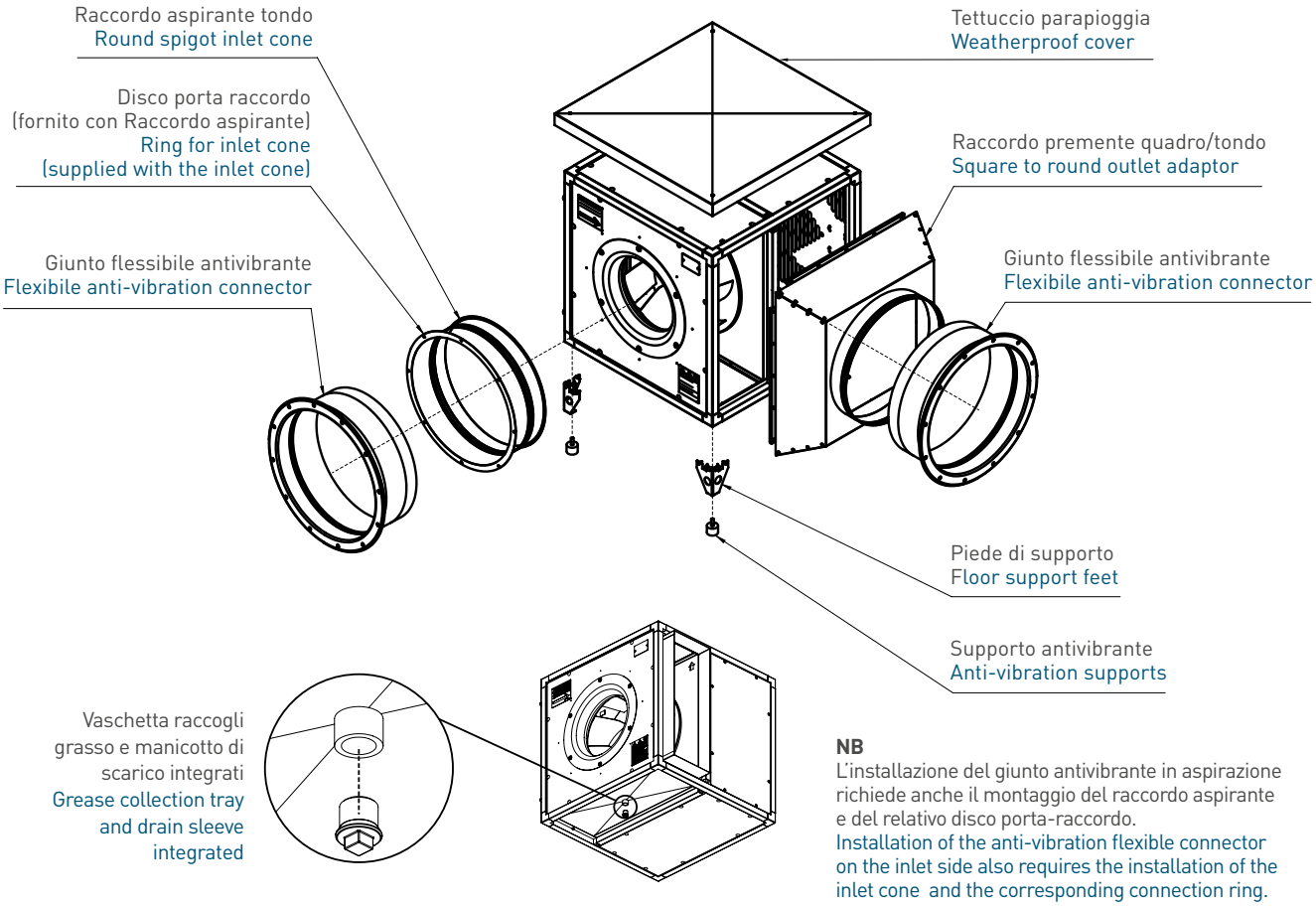
Versatilità di posizionamento nella fase di installazione del prodotto, il cassone può essere infatti montato sia in orizzontale che in verticale indifferentemente. Possono inoltre essere installati all'aperto utilizzando l'apposito tettuccio parapioggia disponibile come accessorio.

### INSTALLATION

S-CUBE P KAT installation is easy thanks to the highly flexible positioning of the product. Indeed, this box fan can be indifferently installed in both vertical and horizontal position and is suitable for outdoor installations (we suggest the use of a water-proof protection cover, available as accessory).

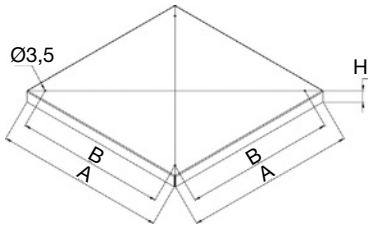
# ACCESSORI | ACCESSORIES






**NB**
L'installazione del giunto antivibrante in aspirazione richiede anche il montaggio del raccordo aspirante e del relativo disco porta-raccordo.
Installation of the anti-vibration flexible connector on the inlet side also requires the installation of the inlet cone and the corresponding connection ring.

## TETTUCCIO PARAPIOGGIA | WEATHERPROOF COVER



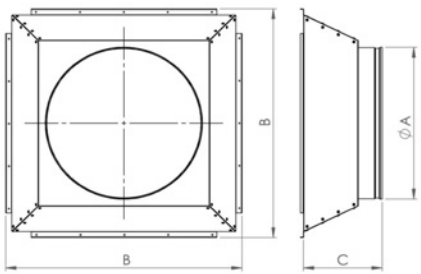

| Code | Tipo \| Type | A | B | H | Kg |
|---|---|---|---|---|---|
| 5TE0081 | 31 / 35 | 700 | 618 | 35 | 3.70 |
| 5TE0082 | 40 / 45 / 50 | 800 | 720 | 50 | 5.00 |
| 5TE0083 | 56 / 63 | 1050 | 970 | 50 | 8.20 |

Dimensioni in mm | Dimensions in mm

## RACCORDO QUADRO/TONDO | SQUARE TO ROUND OUTLET ADAPTOR

Da abbinare ai piedi 1ST0027.

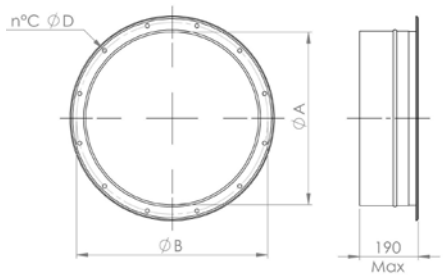
To be installed with support feet 1ST0027.




| Code | Tipo \| Type | ØA | B | C | Kg |
|---|---|---|---|---|---|
| 5RA2025 | 31 | 355 | 655 | 161 | 4 |
| 5RA2026 | 35 | 400 | 655 | 178 | 4.4 |
| 5RA2014 | 40 | 450 | 753 | 252 | 6.4 |
| 5RA2015 | 45 | 500 | 753 | 249 | 6.2 |
| 5RA2018 | 50 | 560 | 753 | 246 | 6.3 |
| 5RA2019 | 56 | 630 | 1005 | 246 | 9.1 |
| 5RA2020 | 63 | 710 | 1005 | 250 | 9.4 |

Dimensioni in mm | Dimensions in mm

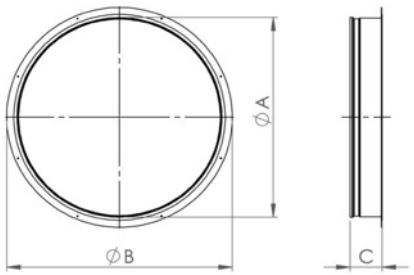
## GIUNTO ANTIVIBRANTE | FLEXIBILE CONNECTOR




| Code | Tipo \| Type | ØA | ØB | C | ØD | Kg |
|---|---|---|---|---|---|---|
| 1SU5100 | 31 | 355 | 395 | 8 | 10 | 1.9 |
| 1SU5101 | 35 | 405 | 450 | 8 | 12 | 2.2 |
| 1SU5102 | 40 | 455 | 500 | 8 | 12 | 2.4 |
| 1SU5103 | 45 | 505 | 560 | 12 | 12 | 2.9 |
| 1SU5104 | 50 | 565 | 620 | 12 | 12 | 3.0 |
| 1SU5105 | 56 | 635 | 690 | 12 | 12 | 3.4 |
| 1SU5106 | 63 | 710 | 770 | 16 | 12 | 3.8 |

Dimensioni in mm | Dimensions in mm

## RACCORDO ASPIRANTE TONDO | ROUND SPIGOT INLET CONE



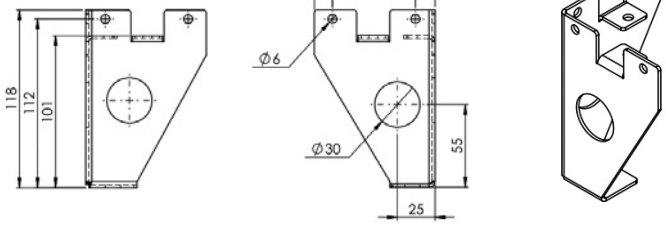

| Code | Tipo \| Type | ØA | ØB | C | Kg |
|---|---|---|---|---|---|
| 1TR0016 | 31 | 355 | 400 | 56 | 0.7 |
| 1TR0017 | 35 | 400 | 450 | 56 | 0.8 |
| 1TR0018 | 40 | 450 | 500 | 56 | 0.9 |
| 1TR0019 | 45 | 500 | 550 | 78.5 | 1.2 |
| 1TR0020 | 50 | 560 | 610 | 78.5 | 1.3 |
| 1TR0021 | 56 | 630 | 680 | 78.5 | 1.5 |
| 1TR0022 | 63 | 710 | 760 | 78.5 | 1.8 |

Dimensioni in mm | Dimensions in mm

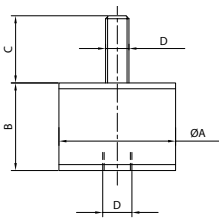
## 1ST0027 | PIEDE DI SUPPORTO A PAVIMENTO | FLOOR SUPPORT FEET

N°4 piedi da utilizzare in abbinamento al pannello inferiore con scarico condensa e grasso (ad esclusione dei modelli 630).

N° 4 feet to be used coupled with the condensate and grease drain inferior panel (except models 630).




## SUPPORTI ANTIVIBRANTI | ANTI-VIBRATION SUPPORTS




| Code | Tipo \| Type | ØA | B | C | D | Carico a compressione per 1 supporto (Kg) Compression load for 1 support (Kg) |
|---|---|---|---|---|---|---|
| 5SU1057 | 31 / 35 / 40 | 30 | 20 | 23 | M8 | 21 ÷ 45 |
| 5SU1054 | 45 / 50 / 56 / 63 | 40 | 30 | 28 | M10 | 46 ÷ 65 |

Dimensioni in mm | Dimensions in mm