



## *Hocheffizienter Wand-/Deckenverdampfer* *High efficiency unit coolers*



**GSF.3**

**R404A, R507, R134a, R22, ...**

**50 Hz / 60 Hz**

Pulverbeschichtung  
Qualitätsventilatoren  
Optimiertes Kältemittel füll volumen

Powder coating  
High quality axial fans  
Optimised refrigerant charge

[www.guentner.asia](http://www.guentner.asia)

## Anwendungsvorteile für Anlagenbauer und Betreiber

## Application benefits for contractors and operators



### Wirtschaftliche Raumkühlung

#### Hocheffizienter Wärmeaustauscher

- Hohe Wärmeaufnahme auf kleiner Fläche
- Geringer kW-Preis
- Versetzte Rohr-anordnung

#### Ventilator

- Hohe Luftmenge
- Guter Wirkungsgrad
- Qualitätsprodukt

#### Kühlraum

- Thermische Kurzschlüsse und Wärmenester werden vermieden

### Weniger Reinigungsaufwand

- Wanne mit Ablaufgefälle
- ab Größe 031 Wanne abklappbar

### Besondere Beschichtung

- pulverbeschichtet, RAL 9003

### Economical room cooling

#### Highly efficient heat exchanger

- High heat take-up over small area
- Low kW price
- Staggered tube pattern

#### Fan

- High air volume
- Good efficiency
- High quality product

#### Cold room

- Thermal short-circuits and nests of heat are avoided

### Less cleaning required

- Tray with slope towards the drain
- Tray can be folded down from type 031

### Special coating

- powder coated, RAL 9003



## Nomenklatur / Nomenclature

|                                  |                                      |                  |          |
|----------------------------------|--------------------------------------|------------------|----------|
| Güntner Hochleistungs-Verdampfer | Güntner high efficiency unit coolers | <b>GSF</b>       |          |
| Ventilator Ø 315 mm              | Fan Ø 315 mm                         | <b>031</b>       |          |
| Generation                       | Generation                           | <b>.3</b>        |          |
| Blockgröße                       | Coil size                            | <b>D/</b>        |          |
| Anzahl der Ventilatoren          | Number of fans                       | <b>1</b>         |          |
| Lamellenteilung 4 mm             | Fin spacing 4 mm                     | <b>4</b>         |          |
| Abtauung auf Wunsch elektrisch   | Electric defrost on request          | <b>- E</b>       |          |
| Heißgasabtauung auf Wunsch       | Hot air defrost on request           | <b>- H</b>       |          |
| Luftabtauung oder keine Abtauung | Air defrost or no defrost            | <b>- A</b>       |          |
| Ventilatoren normale Ausführung  | Fans standard design                 | <b>N</b>         |          |
| Spannung / Phase / Frequenz      | Voltage / Phase / Frequency          | 230 V 1~ 50 Hz   | <b>W</b> |
|                                  |                                      | 400 V 3~ 50 Hz D | <b>D</b> |
|                                  |                                      | 230 V 1~ 60 Hz   | <b>X</b> |
|                                  |                                      | 400 V 3~ 60 Hz D | <b>I</b> |

## Korrekturfaktoren

## Correction factors

Korrekturfaktoren ( $f_R$ )  
für andere Kältemittel

Correction factors ( $f_R$ )  
for other refrigerants

| Kältemittel / Refrigerant | $f_R$       |             |
|---------------------------|-------------|-------------|
|                           | SC 2        | SC 3        |
| <b>R507</b>               | <b>0.97</b> | <b>0.97</b> |
| <b>R134a</b>              | <b>0.91</b> | <b>0.85</b> |
| <b>R22</b>                | <b>0.95</b> | <b>0.95</b> |

effektive Kälteleistung  $\dot{Q}_0$  = nominale Kälteleistung  $\dot{Q}_{ON}$  × Korrekturfaktor  $f_R$   
actual refrigerating capacity  $\dot{Q}_0$  = nominal refrigerating capacity  $\dot{Q}_{ON}$  × correction factor  $f_R$

SC2 = Standard condition DT1 = 8 K,  $t_o = -8\text{ °C}$   
SC3 = Standard condition DT1 = 7 K,  $t_o = -25\text{ °C}$

Korrekturfaktoren ( $f_M$ )  
für andere Lamellenmaterialien

Correction factors ( $f_M$ )  
for other fin materials

| Lamellenmaterial / Fin material                 | $f_M$<br>Faktor / Factor |
|---|--------------------------|
| <b>Aluminium / aluminium</b>                    | <b>1</b>                 |
| <b>Aluminium beschichtet / coated aluminium</b> | <b>0.97</b>              |

effektive Kälteleistung  $\dot{Q}_0$  = nominale Kälteleistung  $\dot{Q}_{ON}$  × Korrekturfaktor  $f_M$   
actual refrigerating capacity  $\dot{Q}_0$  = nominal refrigerating capacity  $\dot{Q}_{ON}$  × correction factor  $f_M$

## Güntner Product Calculator

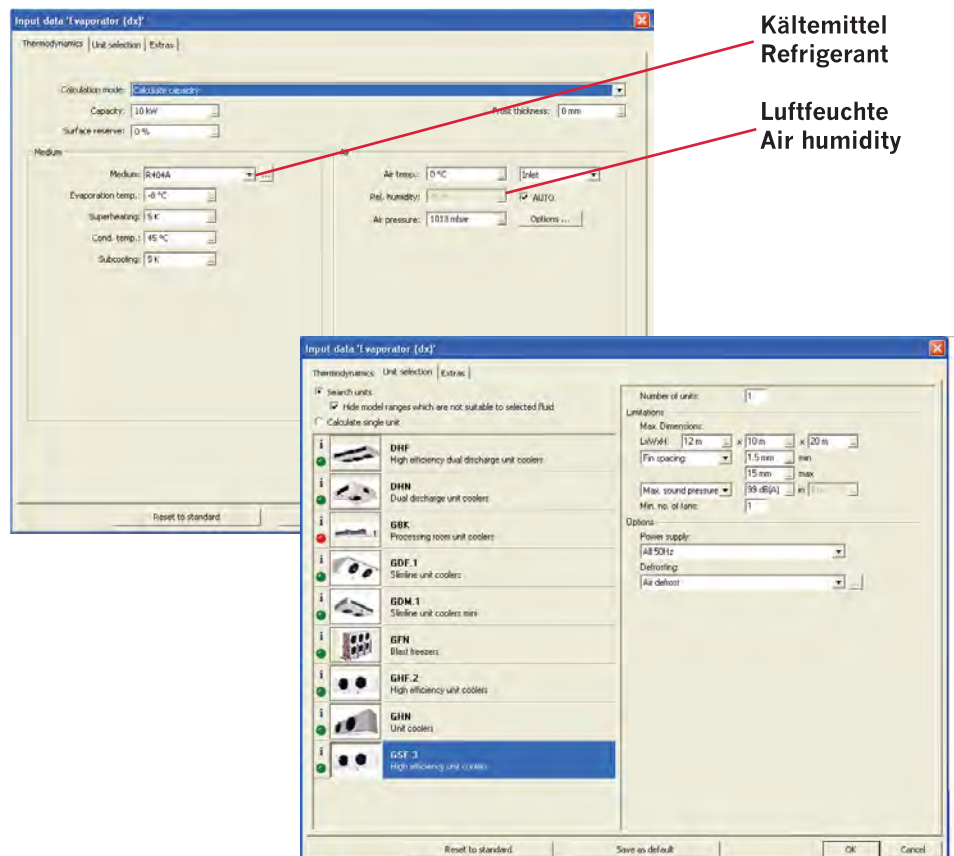
die bessere Wahl

## Güntner Product Calculator

the perfect choice

Für eine **genaue thermodynamische Auslegung** mit anderen Betriebsbedingungen (auch für andere Kältemittel und Luftfeuchte) empfehlen wir die Verwendung des **Güntner Product Calculator**.

We recommend to use the **Güntner Product Calculator** for an exact thermodynamic design in different conditions (also for other refrigerants and air humidity).




Kältemittel  
Refrigerant

Luftfeuchte  
Air humidity

# GSF.3 50 Hz 1 Ventilator Leistungstabellen

# GSF.3 50 Hz 1 Fan Capacity tables

| Lamellentteilung<br>Fin Spacing | Typ<br>Type           | Nennleistung<br>Nominal Capacity<br>R404A |                               | Fläche<br>Surface | Luftvolumenstrom<br>Air volume flow | Wurfweite ohne Streamer<br>Air throw without Streamer | Wurfweite mit Streamer<br>Air throw with Streamer | Schalldruck<br>Sound pressure | Anschlüsse<br>Connections  |               |   |  | El. Abtauheizung<br>El. Defrost |                         |                 |                                      |
|---------------------------------|-----------------------|---|-------------------------------|-------------------|-------------------------------------|---|---|-------------------------------|----------------------------|---------------|---|--|---------------------------------|-------------------------|-----------------|--------------------------------------|
|                                 |                       | SC2<br>DT1 = 8K<br>to = -8°C              | SC3<br>DT1 = 7K<br>to = -25°C |                   |                                     |   |   |                               | Kältemittel<br>Refrigerant |               | El. Defrost                             |  |                                 |                         |                 |                                      |
|                                 |                       |   |                               |                   |                                     |   |   |                               | Ein<br>Inlet               | Aus<br>Outlet | Heißgas Block ein<br>Hot gas coil inlet | Heißgas Wanne ein / aus<br>Hot gas tray inlet / outlet | Block<br>Coil                   | Tropfwanne<br>Drip tray | Gesamt<br>Total | Anschlusschema<br>Connection diagram |
| mm                              |                       | kW  | kW                            | m <sup>2</sup>    | m <sup>3</sup> /h                   | m   | m   | dB(A)3m                       | mm Ø                       | mm Ø          | mm Ø                                    | mm Ø   | W                               | W                       | kW              | ◆                                    |
| 4                               | GSF 031.3D/14 - ANW50 | 2.1                                       | 1.65                          | 9.1               | 1670                                | 9   | 18  | 45                            | 16                         | 16            | -                                       | -  | 940                             | 500                     | 1.44            | A                                    |
|                                 | GSF 031.3F/14 - ANW50 | 2.8                                       | 2.1                           | 13.6              | 1530                                | 8   | 16  | 45                            | 16                         | 16            | -                                       | -  | 940                             | 500                     | 1.44            | A                                    |
|                                 | GSF 031.3H/14 - ANW50 | 3.2                                       | 2.4                           | 18.1              | 1380                                | 8   | 16  | 45                            | 16                         | 16            | -                                       | -  | 1410                            | 500                     | 1.91            | A                                    |
|                                 | GSF 040.3D/14 - ANW50 | 4   | 3                             | 16.8              | 3240                                | 11  | 22  | 52                            | 16                         | 18            | -                                       | -  | 1080                            | 700                     | 1.78            | A                                    |
|                                 | GSF 040.3F/14 - ANW50 | 5.3                                       | 4.2                           | 25.1              | 3080                                | 11  | 22  | 52                            | 16                         | 22            | -                                       | -  | 1620                            | 700                     | 2.32            | A                                    |
|                                 | GSF 040.3H/14 - ANW50 | 6.3                                       | 4.9                           | 33.5              | 2930                                | 11  | 22  | 52                            | 16                         | 22            | -                                       | -  | 2160                            | 700                     | 2.86            | A                                    |
| 6                               | GSF 031.3D/16 - ANW50 | 1.78                                      | 1.4                           | 6.2               | 1710                                | 9   | 18  | 45                            | 16                         | 16            | 16                                      | 12   | 940                             | 500                     | 1.44            | A                                    |
|                                 | GSF 031.3F/16 - ANW50 | 2.4                                       | 1.88                          | 9.3               | 1630                                | 8   | 16  | 45                            | 16                         | 16            | 16                                      | 12   | 940                             | 500                     | 1.44            | A                                    |
|                                 | GSF 031.3H/16 - ANW50 | 2.9                                       | 2.2                           | 12.4              | 1550                                | 8   | 16  | 45                            | 16                         | 16            | 16                                      | 12   | 1410                            | 500                     | 1.91            | A                                    |
|                                 | GSF 040.3D/16 - ANW50 | 3.3                                       | 2.6                           | 11.4              | 3330                                | 11  | 22  | 52                            | 16                         | 16            | 16                                      | 12   | 1080                            | 700                     | 1.78            | A                                    |
|                                 | GSF 040.3F/16 - ANW50 | 4.6                                       | 3.6                           | 17.2              | 3220                                | 11  | 22  | 52                            | 16                         | 18            | 16                                      | 12   | 1620                            | 700                     | 2.32            | A                                    |
|                                 | GSF 040.3H/16 - ANW50 | 5.5                                       | 4.4                           | 22.9              | 3110                                | 11  | 22  | 52                            | 16                         | 22            | 16                                      | 12   | 2160                            | 700                     | 2.86            | A                                    |
| 7                               | GSF 031.3D/17 - ANW50 | 1.51                                      | 1.15                          | 5.3               | 1756                                | 9   | 18  | 45                            | 12                         | 12            | 16                                      | 12   | 940                             | 500                     | 1.44            | A                                    |
|                                 | GSF 031.3F/17 - ANW50 | 2.1                                       | 1.71                          | 7.9               | 1665                                | 9   | 18  | 45                            | 16                         | 18            | 16                                      | 12   | 940                             | 500                     | 1.44            | A                                    |
|                                 | GSF 031.3H/17 - ANW50 | 2.7                                       | 2.1                           | 10.6              | 1574                                | 8   | 16  | 45                            | 16                         | 18            | 16                                      | 12   | 1410                            | 500                     | 1.91            | A                                    |
|                                 | GSF 040.3D/17 - ANW50 | 2.8                                       | 2.2                           | 9.8               | 3401                                | 13  | 26  | 52                            | 16                         | 22            | 16                                      | 12   | 1080                            | 700                     | 1.78            | A                                    |
|                                 | GSF 040.3F/17 - ANW50 | 4   | 3.3                           | 14.7              | 3274                                | 13  | 26  | 52                            | 16                         | 28            | 16                                      | 12   | 1620                            | 700                     | 2.32            | A                                    |
|                                 | GSF 040.3H/17 - ANW50 | 5.1                                       | 4.1                           | 19.6              | 3145                                | 12  | 24  | 52                            | 16                         | 28            | 16                                      | 12   | 2160                            | 700                     | 2.86            | A                                    |

\* Mehrfacheinspritzung  
\* Multiple injection 

◆ siehe Seite 17  
◆ see page 17

➤ Die Wurfweitenangabe stellt die Entfernung vom Gerät dar, bei der isotherm in einem idealen Raum noch eine Luftgeschwindigkeit von 0,5 m/s messbar ist. Die Eindringtiefe des Luftstroms in den Kühlraum ist von den örtlichen Gegebenheiten (Raumgeometrie, Einbauten, Luftabkühlung, Platzierung und Bereifung der Geräte, Beladung des Kühlraums) abhängig.

➤ The indicated air throw represents the distance from the unit to a point where an air velocity of 0.5 m/s can still be measured isothermally in an ideal space. The penetration depth of the air flow in the cold room depends on the surrounding conditions (spatial geometry installed equipment, air cooling, positioning of units frost formation and load in cold room).


## GSF.3 60 Hz 1 Ventilator Leistungstabellen

## GSF.3 60 Hz 1 Fan Capacity tables

| Lamellenteilung<br>Fin Spacing | Typ<br><br>Type       | Nennleistung<br>Nominal Capacity<br>R404A |     | Fläche<br>Surface | Luftvolumenstrom<br>Air volume flow | Wurfweite ohne Streamer<br>Air throw without Streamer | Wurfweite mit Streamer<br>Air throw with Streamer | Schalldruck<br>Sound pressure | Anschlüsse<br>Connections  |               |   |  | El. Abtauheizung<br>El. Defrost |                         |                 |                                      |
|--------------------------------|-----------------------|---|-----|-------------------|-------------------------------------|---|---|-------------------------------|----------------------------|---------------|---|--|---------------------------------|-------------------------|-----------------|--------------------------------------|
|                                |                       | SC2                                       | SC3 |                   |                                     |   |   |                               | Kältemittel<br>Refrigerant |               | El. Defrost                             |  |                                 |                         |                 |                                      |
|                                |                       |   |     |                   |                                     |   |   |                               | Ein<br>Inlet               | Aus<br>Outlet | Heißgas Block ein<br>Hot gas coil inlet | Heißgas Wanne ein / aus<br>Hot gas tray inlet / outlet | Block<br>Coil                   | Tropfwanne<br>Drip tray | Gesamt<br>Total | Anschlusschema<br>Connection diagram |
| mm                             |                       | kW  | kW  | m <sup>2</sup>    | m <sup>3</sup> /h                   | m   | m   | dB(A)3m                       | mm Ø                       | mm Ø          | mm Ø                                    | mm Ø   | W                               | W                       | kW              | ◆                                    |
| 4                              | GSF 031.3D/14 - ANX50 | 2.1                                       | 1.7 | 9.1               | 1800                                | 9   | 19  | 45                            | 16                         | 16            | -                                       | -  | 940                             | 500                     | 1.44            | A                                    |
|                                | GSF 031.3F/14 - ANX50 | 2.8                                       | 2.2 | 13.6              | 1630                                | 8   | 17  | 45                            | 16                         | 16            | -                                       | -  | 940                             | 500                     | 1.44            | A                                    |
|                                | GSF 031.3H/14 - ANX50 | 3.3                                       | 2.5 | 18.1              | 1480                                | 8   | 17  | 45                            | 16                         | 16            | -                                       | -  | 1410                            | 500                     | 1.91            | A                                    |
|                                | GSF 040.3D/14 - ANX50 | 4.3                                       | 3.3 | 16.8              | 3940                                | 11  | 24  | 52                            | 16                         | 18            | -                                       | -  | 1080                            | 700                     | 1.78            | A                                    |
|                                | GSF 040.3F/14 - ANX50 | 5.8                                       | 4.5 | 25.1              | 3720                                | 11  | 23  | 52                            | 16                         | 22            | -                                       | -  | 1620                            | 700                     | 2.32            | A                                    |
|                                | GSF 040.3H/14 - ANX50 | 7   | 5.4 | 33.5              | 3520                                | 11  | 23  | 52                            | 16                         | 22            | -                                       | -  | 2160                            | 700                     | 2.86            | A                                    |

|   |                       |      |      |      |      |    |    |    |    |    |    |    |      |     |      |   |
|---|-----------------------|------|------|------|------|----|----|----|----|----|----|----|------|-----|------|---|
| 6 | GSF 031.3D/16 - ANX50 | 1.82 | 1.43 | 6.2  | 1850 | 9  | 19 | 45 | 16 | 16 | 16 | 12 | 940  | 500 | 1.44 | A |
|   | GSF 031.3F/16 - ANX50 | 2.5  | 1.93 | 9.3  | 1740 | 8  | 17 | 45 | 16 | 16 | 16 | 12 | 940  | 500 | 1.44 | A |
|   | GSF 031.3H/16 - ANX50 | 3    | 2.3  | 12.4 | 1640 | 8  | 17 | 45 | 16 | 16 | 16 | 12 | 1410 | 500 | 1.91 | A |
|   | GSF 040.3D/16 - ANX50 | 3.5  | 2.8  | 11.4 | 4050 | 11 | 23 | 52 | 16 | 16 | 16 | 12 | 1080 | 700 | 1.78 | A |
|   | GSF 040.3F/16 - ANX50 | 4.9  | 3.9  | 17.2 | 3890 | 11 | 23 | 52 | 16 | 22 | 16 | 12 | 1620 | 700 | 2.32 | A |
|   | GSF 040.3H/16 - ANX50 | 6    | 4.8  | 22.9 | 3740 | 11 | 23 | 52 | 16 | 22 | 16 | 12 | 2160 | 700 | 2.86 | A |

|   |                       |      |      |      |      |    |    |    |    |    |    |    |      |     |      |   |
|---|-----------------------|------|------|------|------|----|----|----|----|----|----|----|------|-----|------|---|
| 7 | GSF 031.3D/17 - ANX50 | 1.55 | 1.18 | 5.3  | 1918 | 10 | 20 | 45 | 12 | 12 | 16 | 12 | 940  | 500 | 1.44 | A |
|   | GSF 031.3F/17 - ANX50 | 2.2  | 1.77 | 7.9  | 1794 | 9  | 19 | 45 | 16 | 18 | 16 | 12 | 940  | 500 | 1.44 | A |
|   | GSF 031.3H/17 - ANX50 | 2.8  | 2.1  | 10.6 | 1677 | 9  | 19 | 45 | 16 | 18 | 16 | 12 | 1410 | 500 | 1.91 | A |
|   | GSF 040.3D/17 - ANX50 | 2.9  | 2.4  | 9.8  | 4148 | 13 | 27 | 52 | 16 | 22 | 16 | 12 | 1080 | 700 | 1.78 | A |
|   | GSF 040.3F/17 - ANX50 | 4.3  | 3.5  | 14.7 | 3974 | 13 | 27 | 52 | 16 | 28 | 16 | 12 | 1620 | 700 | 2.32 | A |
|   | GSF 040.3H/17 - ANX50 | 5.5  | 4.4  | 19.6 | 3796 | 12 | 25 | 52 | 16 | 28 | 16 | 12 | 2160 | 700 | 2.86 | A |

\* Mehrfacheinspritzung  
\* Multiple injection 

◆ siehe Seite 17  
◆ see page 17

► Die Wurfweitenangabe stellt die Entfernung vom Gerät dar, bei der isotherm in einem idealen Raum noch eine Luftgeschwindigkeit von 0,5 m/s messbar ist. Die Eindringtiefe des Luftstroms in den Kühlraum ist von den örtlichen Gegebenheiten (Raumgeometrie, Einbauten, Luftabkühlung, Platzierung und Bereifung der Geräte, Beladung des Kühlraums) abhängig.

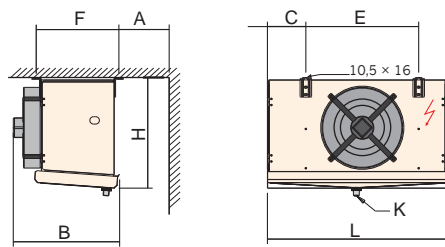
► The indicated air throw represents the distance from the unit to a point where an air velocity of 0.5 m/s can still be measured isothermally in an ideal space. The penetration depth of the air flow in the cold room depends on the surrounding conditions (spatial geometry, installed equipment, air cooling, positioning of units frost formation and load in cold room).

**GSF.3 50 Hz / 60 Hz**  
**1 Ventilator**  
**Gewicht und Maße**

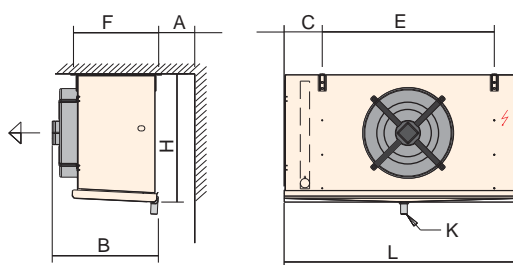
**GSF.3 50 Hz / 60 Hz**  
**1 Fan**  
**Weights and Measures**

| Typ<br>Type                    | Rohrvolumen<br>Tube volume | Nettogewicht<br>Net weight | Abmessungen<br>Dimensions |              |     |                 |              |     |     |     |     |     | K<br>Ablauf<br>G-Gewinde<br>flachdichtend<br>Drain<br>G-thread flat<br>sealing<br>DIN-ISO<br>228-1<br>NW " |
|--------------------------------|----------------------------|----------------------------|---------------------------|--------------|-----|-----------------|--------------|-----|-----|-----|-----|-----|--|
|                                |                            |                            | Without hot gas           | With hot gas |     | Without hot gas | With hot gas |     |     |     |     |     |  |
|                                |                            |                            | L                         | L            | B   | C               | C            | E   | H   | F   | A   |     |  |
|                                | l                          | kg                         | mm                        | mm           | mm  | mm              | mm           | mm  | mm  | mm  | mm  | mm  | NW "   |
| <b>GSF 031.3D/14 - AN...50</b> | 1.5                        | 19                         | 734                       | -            | 448 | 147             | -            | 460 | 442 | 339 | 300 | 300 | G <sup>3</sup> / <sub>4</sub>  |
| <b>GSF 031.3F/14 - AN...50</b> | 2.2                        | 22                         | 734                       | -            | 448 | 147             | -            | 460 | 442 | 339 | 300 | 300 | G <sup>3</sup> / <sub>4</sub>  |
| <b>GSF 031.3H/14 - AN...50</b> | 2.9                        | 24                         | 734                       | -            | 448 | 147             | -            | 460 | 442 | 339 | 300 | 300 | G <sup>3</sup> / <sub>4</sub>  |
| <b>GSF 040.3D/14 - AN...50</b> | 2.5                        | 30                         | 984                       | -            | 546 | 167             | -            | 680 | 680 | 414 | 400 | 400 | G1 <sup>1</sup> / <sub>4</sub>   |
| <b>GSF 040.3F/14 - AN...50</b> | 3.7                        | 35                         | 984                       | -            | 546 | 167             | -            | 680 | 680 | 414 | 400 | 400 | G1 <sup>1</sup> / <sub>4</sub>   |
| <b>GSF 040.3H/14 - AN...50</b> | 4.9                        | 38                         | 984                       | -            | 546 | 167             | -            | 680 | 680 | 414 | 400 | 400 | G1 <sup>1</sup> / <sub>4</sub>   |
| <b>GSF 031.3D/16 - AN...50</b> | 1.5                        | 19                         | 734                       | 814          | 448 | 147             | 227          | 460 | 442 | 339 | 300 | 300 | G <sup>3</sup> / <sub>4</sub>  |
| <b>GSF 031.3F/16 - AN...50</b> | 2.2                        | 22                         | 734                       | 814          | 448 | 147             | 227          | 460 | 442 | 339 | 300 | 300 | G <sup>3</sup> / <sub>4</sub>  |
| <b>GSF 031.3H/16 - AN...50</b> | 2.9                        | 24                         | 734                       | 814          | 448 | 147             | 227          | 460 | 442 | 339 | 300 | 300 | G <sup>3</sup> / <sub>4</sub>  |
| <b>GSF 040.3D/16 - AN...50</b> | 2.5                        | 30                         | 984                       | 1084         | 546 | 167             | 267          | 680 | 680 | 414 | 400 | 400 | G1 <sup>1</sup> / <sub>4</sub>   |
| <b>GSF 040.3F/16 - AN...50</b> | 3.7                        | 35                         | 984                       | 1084         | 546 | 167             | 267          | 680 | 680 | 414 | 400 | 400 | G1 <sup>1</sup> / <sub>4</sub>   |
| <b>GSF 040.3H/16 - AN...50</b> | 4.9                        | 38                         | 984                       | 1084         | 546 | 167             | 267          | 680 | 680 | 414 | 400 | 400 | G1 <sup>1</sup> / <sub>4</sub>   |
| <b>GSF 031.3D/17 - AN...50</b> | 2.1                        | 21                         | 734                       | 814          | 448 | 147             | 227          | 460 | 442 | 339 | 300 | 300 | G <sup>3</sup> / <sub>4</sub>  |
| <b>GSF 031.3F/17 - AN...50</b> | 3.2                        | 24                         | 734                       | 814          | 448 | 147             | 227          | 460 | 442 | 339 | 300 | 300 | G <sup>3</sup> / <sub>4</sub>  |
| <b>GSF 031.3H/17 - AN...50</b> | 4.3                        | 28                         | 734                       | 814          | 448 | 147             | 227          | 460 | 442 | 339 | 300 | 300 | G <sup>3</sup> / <sub>4</sub>  |
| <b>GSF 040.3D/17 - AN...50</b> | 3.7                        | 33                         | 984                       | 1084         | 546 | 167             | 267          | 680 | 680 | 414 | 400 | 400 | G1 <sup>1</sup> / <sub>4</sub>   |
| <b>GSF 040.3F/17 - AN...50</b> | 5.6                        | 39                         | 984                       | 1084         | 546 | 167             | 267          | 680 | 680 | 414 | 400 | 400 | G1 <sup>1</sup> / <sub>4</sub>   |
| <b>GSF 040.3H/17 - AN...50</b> | 7.4                        | 43                         | 984                       | 1084         | 546 | 167             | 267          | 680 | 680 | 414 | 400 | 400 | G1 <sup>1</sup> / <sub>4</sub>   |

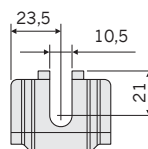
Typ / Type GSF031.3...



Typ / Type GSF040.3...



Deckenaufhänger für Baugrößen 031 – 040:  
 Ceiling hangers for sizes 031 – 040:






## GSF.3 50 Hz 2 Ventilatoren Leistungstabellen

## GSF.3 50 Hz 2 Fans Capacity tables

| Lamellenteilung<br>Fin Spacing | Typ<br><br>Type       | Nennleistung<br>Nominal Capacity<br>R404A |      | Fläche<br>Surface | Luftvolumenstrom<br>Air volume flow | Wurfweite ohne Streamer<br>Air throw without Streamer | Wurfweite mit Streamer<br>Air throw with Streamer | Schalldruck<br>Sound pressure | Anschlüsse<br>Connections  |               |   |  | El. Abtauheizung<br>El. Defrost |                         |                 |                                       |
|--------------------------------|-----------------------|---|------|-------------------|-------------------------------------|---|---|-------------------------------|----------------------------|---------------|---|--|---------------------------------|-------------------------|-----------------|---------------------------------------|
|                                |                       | SC2                                       | SC3  |                   |                                     |   |   |                               | Kältemittel<br>Refrigerant |               | El. Defrost                             |  |                                 |                         |                 |                                       |
|                                |                       |   |      |                   |                                     |   |   |                               | Ein<br>Inlet               | Aus<br>Outlet | Heißgas Block ein<br>Hot gas coil inlet | Heißgas Wanne ein / aus<br>Hot gas tray inlet / outlet | Block<br>Coil                   | Tropfwanne<br>Drip tray | Gesamt<br>Total | Anschlussschema<br>Connection diagram |
| mm                             |                       | kW  | kW   | m <sup>2</sup>    | m <sup>3</sup> /h                   | m   | m   | dB(A)3m                       | mm Ø                       | mm Ø          | mm Ø                                    | mm Ø   | W                               | W                       | kW              | ◆                                     |
| 4                              | GSF 031.3D/24 - ANW50 | 4.3                                       | 3.2  | 18.1              | 3340                                | 10  | 20  | 48                            | 16                         | 18            | -                                       | -  | 1720                            | 650                     | 2.37            | A                                     |
|                                | GSF 031.3F/24 - ANW50 | 5.6                                       | 4.3  | 27.2              | 3060                                | 9   | 18  | 48                            | 16                         | 22            | -                                       | -  | 1720                            | 650                     | 2.37            | A                                     |
|                                | GSF 031.3H/24 - ANW50 | 6.4                                       | 4.9  | 36.3              | 2760                                | 9   | 17  | 48                            | 16                         | 22            | -                                       | -  | 2580                            | 650                     | 3.23            | A                                     |
|                                | GSF 040.3D/24 - ANW50 | 7.9                                       | 6.1  | 33.5              | 6480                                | 13  | 26  | 55                            | 16                         | 28            | -                                       | -  | 2900                            | 1200                    | 4.1             | A                                     |
|                                | GSF 040.3F/24 - ANW50 | 10.7                                      | 8.3  | 50.3              | 6160                                | 12  | 24  | 55                            | 22                         | 28            | -                                       | -  | 4350                            | 1200                    | 5.55            | B                                     |
|                                | GSF 040.3H/24 - ANW50 | 12.7                                      | 9.9  | 67                | 5860                                | 11  | 22  | 55                            | 22                         | 35            | -                                       | -  | 5800                            | 1200                    | 7               | B                                     |
|                                | GSF 050.3D/24 - AND50 | 16.7                                      | 12.3 | 67.4              | 13310                               | 19  | 38  | 60                            | 22                         | 35            | -                                       | -  | 7000                            | 2400                    | 9.4             | B                                     |
|                                | GSF 050.3F/24 - AND50 | 23.2                                      | 17.4 | 101               | 12760                               | 19  | 38  | 60                            | 28                         | 42            | -                                       | -  | 7000                            | 2400                    | 9.4             | B                                     |
|                                | GSF 050.3H/24 - AND50 | 27.6                                      | 20.9 | 134.7             | 12250                               | 18  | 36  | 60                            | 28                         | 42            | -                                       | -  | 8750                            | 2400                    | 11.15           | B                                     |

|   |                       |      |      |       |       |    |    |    |    |    |    |    |       |      |       |   |
|---|-----------------------|------|------|-------|-------|----|----|----|----|----|----|----|-------|------|-------|---|
| 6 | GSF 031.3D/26 - ANW50 | 3.6  | 2.8  | 12.4  | 3420  | 10 | 20 | 48 | 16 | 16 | 16 | 12 | 1720  | 650  | 2.37  | A |
|   | GSF 031.3F/26 - ANW50 | 4.8  | 3.8  | 18.6  | 3260  | 9  | 18 | 48 | 16 | 18 | 16 | 12 | 1720  | 650  | 2.37  | A |
|   | GSF 031.3H/26 - ANW50 | 5.8  | 4.5  | 24.8  | 3100  | 8  | 16 | 48 | 16 | 22 | 16 | 12 | 2580  | 650  | 3.23  | A |
|   | GSF 040.3F/26 - ANW50 | 9.1  | 7.3  | 34.3  | 6440  | 14 | 28 | 55 | 22 | 28 | 22 | 12 | 4350  | 1200 | 5.55  | B |
|   | GSF 040.3H/26 - ANW50 | 11.1 | 8.9  | 45.8  | 6220  | 13 | 26 | 55 | 22 | 28 | 22 | 12 | 5800  | 1200 | 7     | B |
|   | GSF 050.3F/26 - AND50 | 18.9 | 14.8 | 69.5  | 13020 | 19 | 38 | 60 | 28 | 35 | 28 | 22 | 7000  | 2400 | 9.4   | B |
|   | GSF 050.3H/26 - AND50 | 23.3 | 18.2 | 92.6  | 12580 | 19 | 38 | 82 | 28 | 42 | 28 | 22 | 8750  | 2400 | 11.15 | B |
|   | GSF 050.3J/26 - AND50 | 26.9 | 21.2 | 115.8 | 12170 | 18 | 36 | 60 | 28 | 42 | 28 | 22 | 10500 | 2400 | 12.9  | B |

|   |                       |      |      |       |       |    |    |    |    |    |    |    |      |      |       |   |
|---|-----------------------|------|------|-------|-------|----|----|----|----|----|----|----|------|------|-------|---|
| 7 | GSF 031.3D/27 - ANW50 | 3    | 2.3  | 10.6  | 3512  | 11 | 22 | 48 | 16 | 18 | 16 | 12 | 1720 | 650  | 2.37  | A |
|   | GSF 031.3F/27 - ANW50 | 4.4  | 3.4  | 15.9  | 3330  | 10 | 20 | 48 | 16 | 18 | 16 | 12 | 1720 | 650  | 2.37  | A |
|   | GSF 031.3H/27 - ANW50 | 5.4  | 4.2  | 21.2  | 3148  | 9  | 18 | 48 | 16 | 22 | 16 | 12 | 2580 | 650  | 3.23  | A |
|   | GSF 040.3F/27 - ANW50 | 8.3  | 6.5  | 29.4  | 6548  | 15 | 30 | 55 | 16 | 28 | 22 | 12 | 4350 | 1200 | 5.55  | B |
|   | GSF 040.3H/27 - ANW50 | 10.2 | 8.3  | 39.2  | 6290  | 14 | 28 | 55 | 22 | 35 | 22 | 12 | 5800 | 1200 | 7     | B |
|   | GSF 050.3F/27 - AND50 | 16.6 | 13.5 | 60.5  | 13190 | 20 | 40 | 60 | 28 | 35 | 28 | 22 | 8750 | 2400 | 11.15 | B |
|   | GSF 050.3H/27 - AND50 | 20.8 | 16.9 | 80.6  | 12802 | 20 | 40 | 60 | 28 | 42 | 28 | 22 | 8750 | 2400 | 11.15 | B |
|   | GSF 050.3J/27 - AND50 | 24.5 | 19.8 | 100.8 | 12420 | 19 | 38 | 60 | 28 | 42 | 28 | 22 | 8750 | 2400 | 11.15 | B |

\* Mehrfacheinspritzung  
\* Multiple injection 

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➤ Die Wurfweitenangabe stellt die Entfernung vom Gerät dar, bei der isotherm in einem idealen Raum noch eine Luftgeschwindigkeit von 0,5 m/s messbar ist. Die Eindringtiefe des Luftstroms in den Kühlraum ist von den örtlichen Gegebenheiten (Raumgeometrie, Einbauten, Luftabkühlung, Platzierung und Bereifung der Luftkühler, Beladung des Kühlraums) abhängig.

➤ The indicated air throw represents the distance from the unit to a point where an air velocity of 0.5 m/s can still be measured isothermally in an ideal space. The penetration depth of the air flow in the cold room depends on the surrounding conditions (spatial geometry, installed equipment, air cooling, positioning of air coolers frost formation and load in cold room).


## GSF.3 60 Hz 2 Ventilatoren Leistungstabellen

## GSF.3 60 Hz 2 Fans Capacity tables

| Lamellentteilung<br>Fin Spacing | Typ<br>Type           | Nennleistung<br>Nominal Capacity<br>R404A |                               | Fläche<br>Surface | Luftvolumenstrom<br>Air volume flow | Wurfweite ohne Streamer<br>Air throw without Streamer | Wurfweite mit Streamer<br>Air throw with Streamer | Schalldruck<br>Sound pressure | Anschlüsse<br>Connections  |               |   |  | El. Abtauheizung |                         |                 |                                      |
|---------------------------------|-----------------------|---|-------------------------------|-------------------|-------------------------------------|---|---|-------------------------------|----------------------------|---------------|---|--|------------------|-------------------------|-----------------|--------------------------------------|
|                                 |                       | SC2<br>DT1 = 8K<br>to = -8°C              | SC3<br>DT1 = 7K<br>to = -25°C |                   |                                     |   |   |                               | Kältemittel<br>Refrigerant |               | El. Defrost                             |  | Block<br>Coil    | Tropfwanne<br>Drip tray | Gesamt<br>Total | Anschlusschema<br>Connection diagram |
|                                 |                       |   |                               |                   |                                     |   |   |                               | Ein<br>Inlet               | Aus<br>Outlet | Heißgas Block ein<br>Hot gas coil inlet | Heißgas Wanne ein / aus<br>Hot gas tray inlet / outlet |                  |                         |                 |                                      |
| mm                              |                       | kW  | kW                            | m <sup>2</sup>    | m <sup>3</sup> /h                   | m   | m   | dB(A)3m                       | mm Ø                       | mm Ø          | mm Ø                                    | mm Ø   | W                | W                       | kW              | ◆                                    |
| 4                               | GSF 031.3D/24 - ANX50 | 4.4                                       | 3.3                           | 18.1              | 3610                                | 10  | 21  | 48                            | 16                         | 18            | -                                       | -  | 1720             | 650                     | 2.37            | A                                    |
|                                 | GSF 031.3F/24 - ANX50 | 5.7                                       | 4.4                           | 27.2              | 3260                                | 9   | 19  | 48                            | 16                         | 22            | -                                       | -  | 1720             | 650                     | 2.37            | A                                    |
|                                 | GSF 031.3H/24 - ANX50 | 6.6                                       | 5.1                           | 36.3              | 2970                                | 9   | 18  | 48                            | 16                         | 22            | -                                       | -  | 2580             | 650                     | 3.23            | A                                    |
|                                 | GSF 040.3D/24 - ANX50 | 8.5                                       | 6.6                           | 33.5              | 7880                                | 13  | 27  | 55                            | 16                         | 28            | -                                       | -  | 2900             | 1200                    | 4.1             | A                                    |
|                                 | GSF 040.3F/24 - ANX50 | 11.6                                      | 9                             | 50.3              | 7440                                | 12  | 25  | 55                            | 22                         | 28            | -                                       | -  | 4350             | 1200                    | 5.55            | B                                    |
|                                 | GSF 040.3H/24 - ANX50 | 14  | 10.9                          | 67                | 7040                                | 11  | 23  | 55                            | 22                         | 35            | -                                       | -  | 5800             | 1200                    | 7               | B                                    |
|                                 | GSF 050.3D/24 - ANI50 | 17.5                                      | 12.9                          | 67.4              | 14940                               | 19  | 38  | 60                            | 22                         | 35            | -                                       | -  | 7000             | 2400                    | 9.4             | B                                    |
|                                 | GSF 050.3F/24 - ANI50 | 24.4                                      | 18.3                          | 101               | 14270                               | 19  | 38  | 60                            | 28                         | 42            | -                                       | -  | 7000             | 2400                    | 9.4             | B                                    |
|                                 | GSF 050.3H/24 - ANI50 | 29.2                                      | 22.1                          | 134.7             | 13670                               | 18  | 36  | 60                            | 28                         | 42            | -                                       | -  | 8750             | 2400                    | 11.15           | B                                    |

|   |                       |      |      |       |       |    |    |    |    |    |    |    |       |      |       |   |
|---|-----------------------|------|------|-------|-------|----|----|----|----|----|----|----|-------|------|-------|---|
| 6 | GSF 031.3D/26 - ANX50 | 3.7  | 2.9  | 12.4  | 3700  | 10 | 20 | 48 | 16 | 16 | 16 | 12 | 1720  | 650  | 2.37  | A |
|   | GSF 031.3F/26 - ANX50 | 5    | 3.9  | 18.6  | 3480  | 9  | 18 | 48 | 16 | 18 | 16 | 12 | 1720  | 650  | 2.37  | A |
|   | GSF 031.3H/26 - ANX50 | 5.9  | 4.7  | 24.8  | 3280  | 8  | 16 | 48 | 16 | 22 | 16 | 12 | 2580  | 650  | 3.23  | A |
|   | GSF 040.3F/26 - ANX50 | 9.8  | 7.8  | 34.3  | 7780  | 14 | 28 | 55 | 22 | 28 | 22 | 12 | 4350  | 1200 | 5.55  | B |
|   | GSF 040.3H/26 - ANX50 | 12.1 | 9.6  | 45.8  | 7480  | 13 | 26 | 55 | 22 | 28 | 22 | 12 | 5800  | 1200 | 7     | B |
|   | GSF 050.3F/26 - ANI50 | 19.7 | 15   | 69.5  | 14590 | 19 | 38 | 60 | 28 | 35 | 28 | 22 | 7000  | 2400 | 9.4   | B |
|   | GSF 050.3H/26 - ANI50 | 24.5 | 19.2 | 92.6  | 14050 | 19 | 38 | 82 | 28 | 42 | 28 | 22 | 8750  | 2400 | 11.15 | B |
|   | GSF 050.3J/26 - ANI50 | 28.4 | 22.4 | 115.8 | 13570 | 18 | 36 | 60 | 28 | 42 | 28 | 22 | 10500 | 2400 | 12.9  | B |

|   |                       |      |      |       |       |    |    |    |    |    |    |    |      |      |       |   |
|---|-----------------------|------|------|-------|-------|----|----|----|----|----|----|----|------|------|-------|---|
| 7 | GSF 031.3D/27 - ANX50 | 3.1  | 2.4  | 10.6  | 3837  | 11 | 22 | 48 | 16 | 18 | 16 | 12 | 1720 | 650  | 2.37  | A |
|   | GSF 031.3F/27 - ANX50 | 4.5  | 3.5  | 15.9  | 3587  | 10 | 21 | 48 | 16 | 18 | 16 | 12 | 1720 | 650  | 2.37  | A |
|   | GSF 031.3H/27 - ANX50 | 5.6  | 4.3  | 21.2  | 3355  | 9  | 19 | 48 | 16 | 22 | 16 | 12 | 2580 | 650  | 3.23  | A |
|   | GSF 040.3F/27 - ANX50 | 8.8  | 6.9  | 29.4  | 7948  | 15 | 31 | 55 | 16 | 28 | 22 | 12 | 4350 | 1200 | 5.55  | B |
|   | GSF 040.3H/27 - ANX50 | 11   | 9    | 39.2  | 7592  | 14 | 29 | 55 | 22 | 35 | 22 | 12 | 5800 | 1200 | 7     | B |
|   | GSF 050.3F/27 - ANI50 | 17.4 | 14.1 | 60.5  | 14790 | 20 | 41 | 61 | 28 | 35 | 28 | 22 | 8750 | 2400 | 11.15 | B |
|   | GSF 050.3H/27 - ANI50 | 21.9 | 17.7 | 80.6  | 14300 | 20 | 41 | 61 | 28 | 42 | 28 | 22 | 8750 | 2400 | 11.15 | B |
|   | GSF 050.3J/27 - ANI50 | 25.8 | 20.8 | 100.8 | 13850 | 19 | 39 | 61 | 28 | 42 | 28 | 22 | 8750 | 2400 | 11.15 | B |

\* Mehrfacheinspritzung   
\* Multiple injection

◆ siehe Seite 17  
◆ see page 17

➤ Die Wurfweitenangabe stellt die Entfernung vom Gerät dar, bei der isotherm in einem idealen Raum noch eine Luftgeschwindigkeit von 0,5 m/s messbar ist. Die Eindringtiefe des Luftstroms in den Kühlraum ist von den örtlichen Gegebenheiten (Raumgeometrie, Einbauten, Luftabkühlung, Platzierung und Bereifung der Geräte, Beladung des Kühlraums) abhängig.

➤ The indicated air throw represents the distance from the unit to a point where an air velocity of 0.5 m/s can still be measured isothermally in an ideal space. The penetration depth of the air flow in the cold room depends on the surrounding conditions (spatial geometry, installed equipment, air cooling, positioning of units frost formation and load in cold room).

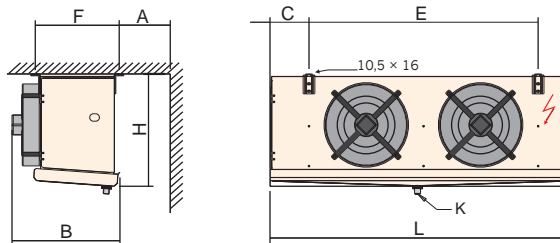


**GSF.3 50 Hz / 60 Hz**  
**2 Ventilatoren**  
**Gewicht und Maße**

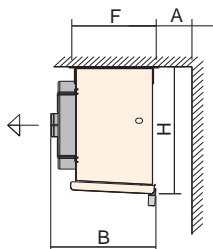
**GSF.3 50 Hz / 60 Hz**  
**2 Fans**  
**Weights and Measures**

| Typ<br>Type             | Rohrvolumen<br>Tube volume | Nettogewicht<br>Net weight | Abmessungen<br>Dimensions |      |              |     |                 |      |              |     |     | K<br>Ablauf<br>G-Gewinde<br>flachdichtend<br>Drain<br>G-thread flat<br>sealing<br>DIN-ISO<br>228-1<br>NW " |
|-------------------------|----------------------------|----------------------------|---------------------------|------|--------------|-----|-----------------|------|--------------|-----|-----|--|
|                         |                            |                            | Without hot gas           |      | With hot gas |     | Without hot gas |      | With hot gas |     | A   |  |
|                         |                            |                            | L                         | L    | B            | C   | C               | E    | H            | F   |     |  |
|                         | l                          | kg                         | mm                        | mm   | mm           | mm  | mm              | mm   | mm           | mm  | mm  |  |
| GSF 031.3D/24 - AN...50 | 2.5                        | 32                         | 1194                      | -    | 448          | 147 | -               | 920  | 442          | 339 | 300 | G $\frac{3}{4}$  |
| GSF 031.3F/24 - AN...50 | 3.8                        | 36                         | 1194                      | -    | 448          | 147 | -               | 920  | 442          | 339 | 300 | G $\frac{3}{4}$  |
| GSF 031.3H/24 - AN...50 | 5                          | 40                         | 1194                      | -    | 448          | 147 | -               | 920  | 442          | 339 | 300 | G $\frac{3}{4}$  |
| GSF 040.3D/24 - AN...50 | 4.4                        | 51                         | 1664                      | -    | 546          | 167 | -               | 1360 | 542          | 414 | 400 | G1 $\frac{1}{4}$   |
| GSF 040.3F/24 - AN...50 | 6.6                        | 59                         | 1664                      | -    | 546          | 167 | -               | 1360 | 542          | 414 | 400 | G1 $\frac{1}{4}$   |
| GSF 040.3H/24 - AN...50 | 8.8                        | 66                         | 1664                      | -    | 546          | 167 | -               | 1360 | 542          | 414 | 400 | G1 $\frac{1}{4}$   |
| GSF 050.3D/24 - AN...50 | 13.4                       | 101                        | 2352                      | -    | 635          | 222 | -               | 2000 | 742          | 494 | 550 | G1 $\frac{1}{4}$   |
| GSF 050.3F/24 - AN...50 | 20.8                       | 118                        | 2352                      | -    | 635          | 222 | -               | 2000 | 742          | 494 | 550 | G1 $\frac{1}{4}$   |
| GSF 050.3H/24 - AN...50 | 26.6                       | 136                        | 2352                      | -    | 635          | 222 | -               | 2000 | 742          | 494 | 550 | G1 $\frac{1}{4}$   |
| GSF 031.3D/26 - AN...50 | 2.5                        | 33                         | 1194                      | 1274 | 448          | 147 | 227             | 920  | 442          | 339 | 300 | G $\frac{3}{4}$  |
| GSF 031.3F/26 - AN...50 | 3.7                        | 36                         | 1194                      | 1274 | 448          | 147 | 227             | 920  | 442          | 339 | 300 | G $\frac{3}{4}$  |
| GSF 031.3H/26 - AN...50 | 5                          | 40                         | 1194                      | 1274 | 448          | 147 | 227             | 920  | 442          | 339 | 300 | G $\frac{3}{4}$  |
| GSF 040.3F/26 - AN...50 | 6.6                        | 59                         | 1664                      | 1764 | 546          | 167 | 267             | 1360 | 542          | 414 | 400 | G1 $\frac{1}{4}$   |
| GSF 040.3H/26 - AN...50 | 8.8                        | 67                         | 1664                      | 1764 | 546          | 167 | 267             | 1360 | 542          | 414 | 400 | G1 $\frac{1}{4}$   |
| GSF 050.3F/26 - AN...50 | 20.6                       | 121                        | 2352                      | 2472 | 635          | 222 | 342             | 2000 | 742          | 494 | 550 | G1 $\frac{1}{4}$   |
| GSF 050.3H/26 - AN...50 | 26.6                       | 139                        | 2352                      | 2472 | 635          | 222 | 342             | 2000 | 742          | 494 | 550 | G1 $\frac{1}{4}$   |
| GSF 050.3J/26 - AN...50 | 33.8                       | 157                        | 2352                      | 2472 | 635          | 222 | 342             | 2000 | 742          | 494 | 550 | G1 $\frac{1}{4}$   |
| GSF 031.3D/27 - AN...50 | 3.8                        | 33                         | 1194                      | 1274 | 448          | 147 | 227             | 920  | 442          | 339 | 300 | G $\frac{3}{4}$  |
| GSF 031.3F/27 - AN...50 | 5.7                        | 37                         | 1194                      | 1274 | 448          | 147 | 227             | 920  | 442          | 339 | 300 | G $\frac{3}{4}$  |
| GSF 031.3H/27 - AN...50 | 7.5                        | 44                         | 1194                      | 1274 | 448          | 147 | 227             | 920  | 442          | 339 | 300 | G $\frac{3}{4}$  |
| GSF 040.3F/27 - AN...50 | 10.1                       | 62                         | 1664                      | 1764 | 546          | 167 | 267             | 1360 | 542          | 414 | 400 | G1 $\frac{1}{4}$   |
| GSF 040.3H/27 - AN...50 | 13.5                       | 75                         | 1664                      | 1764 | 546          | 167 | 267             | 1360 | 542          | 414 | 400 | G1 $\frac{1}{4}$   |
| GSF 050.3F/27 - AN...50 | 20.3                       | 118                        | 2352                      | 2472 | 635          | 222 | 342             | 2000 | 742          | 494 | 550 | G1 $\frac{1}{4}$   |
| GSF 050.3H/27 - AN...50 | 26.1                       | 135                        | 2352                      | 2472 | 635          | 222 | 342             | 2000 | 742          | 494 | 550 | G1 $\frac{1}{4}$   |
| GSF 050.3J/27 - AN...50 | 33.2                       | 151                        | 2352                      | 2472 | 635          | 222 | 342             | 2000 | 742          | 494 | 550 | G1 $\frac{1}{4}$   |

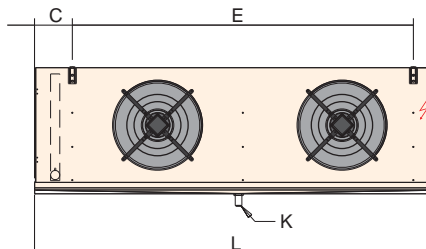
Typ / Type GSF031.3...



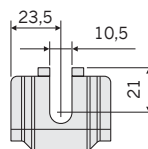
Typ / Type GSF040.3...



GSF050.3...



Deckenaufhänger für Baugrößen 031 – 050:  
 Ceiling hangers for sizes 031 – 050:



## GSF.3 50 Hz 3 Ventilatoren Leistungstabellen

## GSF.3 50 Hz 3 Fans Capacity tables

| Lamellentteilung<br>Fin Spacing | Typ<br>Type           | Nennleistung<br>Nominal Capacity<br>R404A |      | Fläche<br>Surface | Luftvolumenstrom<br>Air volume flow | Wurfweite ohne Streamer<br>Air throw without Streamer | Wurfweite mit Streamer<br>Air throw with Streamer | Schalldruck<br>Sound pressure | Anschlüsse<br>Connections  |               |   |  | El. Abtauheizung<br>El. Defrost                        |      |               |                         |                 |                                      |
|---------------------------------|-----------------------|---|------|-------------------|-------------------------------------|---|---|-------------------------------|----------------------------|---------------|---|--|--|------|---------------|-------------------------|-----------------|--------------------------------------|
|                                 |                       | SC2                                       | SC3  |                   |                                     |   |   |                               | Kältemittel<br>Refrigerant |               | Heißgas Block ein<br>Hot gas coil inlet |  | Heißgas Wanne ein / aus<br>Hot gas tray inlet / outlet |      | Block<br>Coil | Tropfwanne<br>Drip tray | Gesamt<br>Total | Anschlusschema<br>Connection diagram |
|                                 |                       |   |      |                   |                                     |   |   |                               | Ein<br>Inlet               | Aus<br>Outlet | Heißgas Block ein<br>Hot gas coil inlet | Heißgas Wanne ein / aus<br>Hot gas tray inlet / outlet |  |      |               |                         |                 |                                      |
| mm                              |                       | kW  | kW   | m <sup>2</sup>    | m <sup>3</sup> /h                   | m   | m   | dB(A)3m                       | mm Ø                       | mm Ø          | mm Ø                                    | mm Ø   | W  | W    | kW            | ◆                       |                 |                                      |
| 4                               | GSF 031.3F/34 - ANW50 | 8.4                                       | 6.3  | 40.8              | 4600                                | 10  | 20  | 49                            | 16                         | 28            | -                                       | -  | 2900   | 1200 | 4.1           | A                       |                 |                                      |
|                                 | GSF 031.3H/34 - ANW50 | 9.6                                       | 6.9  | 54.4              | 4150                                | 9   | 18  | 49                            | 16                         | 28            | -                                       | -  | 4350   | 1200 | 5.55          | A                       |                 |                                      |
|                                 | GSF 040.3F/34 - ANW50 | 16.2                                      | 12.2 | 75.4              | 9240                                | 13  | 26  | 57                            | 22                         | 35            | -                                       | -  | 4800   | 1200 | 6             | A                       |                 |                                      |
|                                 | GSF 040.3H/34 - ANW50 | 19.2                                      | 14.7 | 100.5             | 8790                                | 12  | 24  | 57                            | 22                         | 35            | -                                       | -  | 6400   | 1200 | 7.6           | A                       |                 |                                      |
|                                 | GSF 050.3F/34 - AND50 | 34.8                                      | 26.2 | 151.6             | 19140                               | 19  | 38  | 61                            | 28                         | 54            | -                                       | -  | 9600   | 3200 | 12.8          | B                       |                 |                                      |
|                                 | GSF 050.3H/34 - AND50 | 41.7                                      | 31.7 | 202.1             | 18380                               | 18  | 36  | 61                            | 35                         | 54            | -                                       | -  | 12000  | 3200 | 15.2          | B                       |                 |                                      |

|   |                       |      |      |       |       |    |    |    |    |    |    |    |       |      |      |   |
|---|-----------------------|------|------|-------|-------|----|----|----|----|----|----|----|-------|------|------|---|
| 6 | GSF 031.3F/36 - ANW50 | 7.3  | 5.7  | 27.9  | 4890  | 10 | 20 | 49 | 16 | 22 | 16 | 12 | 2900  | 1200 | 4.1  | A |
|   | GSF 031.3H/36 - ANW50 | 8.7  | 6.9  | 37.1  | 4650  | 9  | 18 | 49 | 22 | 28 | 22 | 12 | 4350  | 1200 | 5.55 | A |
|   | GSF 040.3F/36 - ANW50 | 13.8 | 10.8 | 51.5  | 9660  | 15 | 30 | 57 | 22 | 35 | 22 | 12 | 4800  | 1200 | 6    | A |
|   | GSF 040.3H/36 - ANW50 | 16.7 | 13.1 | 68.6  | 9330  | 14 | 28 | 57 | 22 | 35 | 22 | 12 | 6400  | 1200 | 7.6  | A |
|   | GSF 050.3H/36 - AND50 | 35.2 | 27.6 | 138.9 | 18870 | 21 | 42 | 61 | 35 | 54 | 35 | 22 | 12000 | 3200 | 15.2 | B |
|   | GSF 050.3J/36 - AND50 | 40.5 | 31.9 | 173.6 | 18260 | 20 | 40 | 61 | 35 | 54 | 35 | 22 | 14400 | 3200 | 17.6 | B |

|   |                       |      |      |       |       |    |    |    |    |    |    |    |       |      |      |   |
|---|-----------------------|------|------|-------|-------|----|----|----|----|----|----|----|-------|------|------|---|
| 7 | GSF 031.3F/37 - ANW50 | 6.6  | 4.9  | 23.8  | 4995  | 11 | 22 | 49 | 16 | 22 | 16 | 12 | 2900  | 1200 | 4.1  | A |
|   | GSF 031.3H/37 - ANW50 | 8.3  | 6.7  | 31.8  | 4722  | 10 | 20 | 49 | 16 | 35 | 22 | 12 | 4350  | 1200 | 5.55 | A |
|   | GSF 040.3F/37 - ANW50 | 12.3 | 9.9  | 44.1  | 9822  | 16 | 32 | 57 | 22 | 35 | 22 | 12 | 4800  | 1200 | 6    | A |
|   | GSF 040.3H/37 - ANW50 | 15.6 | 11.9 | 58.7  | 9435  | 15 | 30 | 57 | 22 | 35 | 22 | 12 | 6400  | 1200 | 7.6  | A |
|   | GSF 050.3H/37 - AND50 | 31.4 | 25.5 | 120.9 | 19200 | 22 | 44 | 61 | 35 | 54 | 35 | 22 | 12000 | 3200 | 15.2 | B |
|   | GSF 050.3J/37 - AND50 | 36.8 | 29.7 | 151.2 | 18630 | 21 | 42 | 61 | 42 | 54 | 42 | 22 | 14400 | 3200 | 17.6 | B |

\* Mehrfacheinspritzung  
\* Multiple injection



◆ siehe Seite 17  
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➤ Die Wurfweitenangabe stellt die Entfernung vom Gerät dar, bei der isotherm in einem idealen Raum noch eine Luftgeschwindigkeit von 0,5 m/s messbar ist. Die Eindringtiefe des Luftstroms in den Kühlraum ist von den örtlichen Gegebenheiten (Raumgeometrie, Einbauten, Luftabkühlung, Platzierung und Bereifung der Luftkühler, Beladung des Kühlraums) abhängig.

➤ The indicated air throw represents the distance from the unit to a point where an air velocity of 0.5 m/s can still be measured isothermally in an ideal space. The penetration depth of the air flow in the cold room depends on the surrounding conditions (spatial geometry, installed equipment, air cooling, positioning of air coolers frost formation and load in cold room).

## GSF.3 60 Hz 3 Ventilatoren Leistungstabellen

## GSF.3 60 Hz 3 Fans Capacity tables

| Lamellentteilung<br>Fin Spacing | Typ<br><br>Type       | Nennleistung<br>Nominal Capacity<br>R404A |                                   | Fläche<br>Surface | Luftvolumenstrom<br>Air volume flow | Wurfweite ohne Streamer<br>Air throw without Streamer | Wurfweite mit Streamer<br>Air throw with Streamer | Schalldruck<br>Sound pressure | Anschlüsse<br>Connections  |               |   |  | El. Abtauheizung<br>El. Defrost |                         |                 |                                       |
|---------------------------------|-----------------------|---|-----------------------------------|-------------------|-------------------------------------|---|---|-------------------------------|----------------------------|---------------|---|--|---------------------------------|-------------------------|-----------------|---------------------------------------|
|                                 |                       | SC2<br><br>DT1 = 8K<br>to = -8°C          | SC3<br><br>DT1 = 7K<br>to = -25°C |                   |                                     |   |   |                               | Kältemittel<br>Refrigerant |               | Heißgas Block ein<br>Hot gas coil inlet | Heißgas Wanne ein / aus<br>Hot gas tray inlet / outlet | Block<br>Coil                   | Tropfwanne<br>Drip tray | Gesamt<br>Total | Anschlussschema<br>Connection diagram |
|                                 |                       |   |                                   |                   |                                     |   |   |                               | Ein<br>Inlet               | Aus<br>Outlet |   |  |                                 |                         |                 |                                       |
| mm                              |                       | kW  | kW                                | m <sup>2</sup>    | m <sup>3</sup> /h                   | m   | m   | dB(A)3m                       | mm Ø                       | mm Ø          | mm Ø                                    | mm Ø   | W                               | W                       | kW              | ◆                                     |
| 4                               | GSF 031.3F/34 - ANX50 | 8.7                                       | 6.5                               | 40.8              | 4890                                | 11  | 22  | 50                            | 16                         | 28            | -                                       | -  | 2900                            | 1200                    | 4.1             | A                                     |
|                                 | GSF 031.3H/34 - ANX50 | 10  | 7.1                               | 54.4              | 4450                                | 10  | 20  | 50                            | 16                         | 28            | -                                       | -  | 4350                            | 1200                    | 5.55            | B                                     |
|                                 | GSF 040.3F/34 - ANX50 | 17.7                                      | 13.2                              | 75.4              | 11160                               | 14  | 28  | 58                            | 22                         | 35            | -                                       | -  | 4800                            | 1200                    | 6               | B                                     |
|                                 | GSF 040.3H/34 - ANX50 | 21.2                                      | 16.1                              | 100.5             | 10560                               | 13  | 26  | 58                            | 22                         | 35            | -                                       | -  | 6400                            | 1200                    | 7.6             | B                                     |
|                                 | GSF 050.3F/34 - ANI50 | 36.6                                      | 27.5                              | 151.6             | 21400                               | 20  | 40  | 62                            | 28                         | 54            | -                                       | -  | 9600                            | 3200                    | 12.8            | B                                     |
|                                 | GSF 050.3H/34 - ANI50 | 44.2                                      | 33.5                              | 202.1             | 20510                               | 19  | 38  | 62                            | 35                         | 54            | -                                       | -  | 12000                           | 3200                    | 15.2            | B                                     |

|   |                       |      |      |       |       |    |    |    |    |    |    |    |       |      |      |   |
|---|-----------------------|------|------|-------|-------|----|----|----|----|----|----|----|-------|------|------|---|
| 6 | GSF 031.3F/36 - ANX50 | 7.5  | 5.8  | 27.9  | 5220  | 10 | 20 | 50 | 16 | 22 | 16 | 12 | 2900  | 1200 | 4.1  | A |
|   | GSF 031.3H/36 - ANX50 | 9    | 7.1  | 37.1  | 4920  | 9  | 18 | 50 | 22 | 28 | 22 | 12 | 4350  | 1200 | 5.55 | B |
|   | GSF 040.3F/36 - ANX50 | 14.8 | 11.6 | 51.5  | 11670 | 15 | 30 | 58 | 22 | 35 | 22 | 12 | 4800  | 1200 | 6    | B |
|   | GSF 040.3H/36 - ANX50 | 18.2 | 14.3 | 68.6  | 11220 | 14 | 28 | 58 | 22 | 35 | 22 | 12 | 6400  | 1200 | 7.6  | B |
|   | GSF 050.3H/36 - ANI50 | 36.9 | 29   | 138.9 | 21080 | 21 | 42 | 62 | 35 | 54 | 35 | 22 | 12000 | 3200 | 15.2 | B |
|   | GSF 050.3J/36 - ANI50 | 42.7 | 33.7 | 173.6 | 20360 | 20 | 40 | 62 | 35 | 54 | 35 | 22 | 14400 | 3200 | 17.6 | B |

|   |                       |      |      |       |       |    |    |    |    |    |    |    |       |      |      |   |
|---|-----------------------|------|------|-------|-------|----|----|----|----|----|----|----|-------|------|------|---|
| 7 | GSF 031.3F/37 - ANX50 | 6.7  | 5.1  | 23.8  | 5381  | 11 | 22 | 50 | 16 | 22 | 16 | 12 | 2900  | 1200 | 4.1  | A |
|   | GSF 031.3H/37 - ANX50 | 8    | 6.5  | 31.8  | 5032  | 10 | 20 | 50 | 16 | 35 | 22 | 12 | 4350  | 1200 | 5.55 | B |
|   | GSF 040.3F/37 - ANX50 | 13.2 | 10.6 | 44.1  | 11922 | 16 | 32 | 58 | 22 | 35 | 22 | 12 | 4800  | 1200 | 6    | B |
|   | GSF 040.3H/37 - ANX50 | 16.7 | 12.6 | 58.7  | 11388 | 15 | 31 | 58 | 22 | 35 | 22 | 12 | 6400  | 1200 | 7.6  | B |
|   | GSF 050.3H/37 - ANI50 | 33   | 26.7 | 120.9 | 21460 | 22 | 44 | 62 | 35 | 54 | 35 | 22 | 12000 | 3200 | 15.2 | B |
|   | GSF 050.3J/37 - ANI50 | 38.7 | 31.4 | 151.2 | 20780 | 21 | 42 | 62 | 42 | 54 | 42 | 22 | 14400 | 3200 | 17.6 | B |

\* Mehrfacheinspritzung  
\* Multiple injection



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➤ Die Wurfweitenangabe stellt die Entfernung vom Gerät dar, bei der isotherm in einem idealen Raum noch eine Luftgeschwindigkeit von 0,5 m/s messbar ist. Die Eindringtiefe des Luftstroms in den Kühlraum ist von den örtlichen Gegebenheiten (Raumgeometrie, Einbauten, Luftabkühlung, Platzierung und Bereifung der Geräte, Beladung des Kühlraums) abhängig.

➤ The indicated air throw represents the distance from the unit to a point where an air velocity of 0.5 m/s can still be measured isothermally in an ideal space. The penetration depth of the air flow in the cold room depends on the surrounding conditions (spatial geometry, installed equipment, air cooling, positioning of units frost formation and load in cold room).

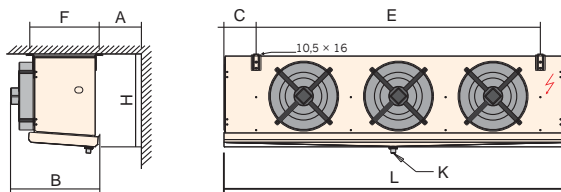
**GSF.3 50 Hz / 60 Hz**  
**3 Ventilatoren**  
**Gewicht und Maße**

**GSF.3 50 Hz / 60 Hz**  
**3 Fans**  
**Weights and Measures**

| Typ<br>Type                  | Rohrvolumen<br>Tube volume | Nettogewicht<br>Net weight | Abmessungen<br>Dimensions |              |     |                 |              |     |     |     |     | K<br>Ablauf<br>G-Gewinde<br>flachdichtend<br>Drain<br>G-thread flat<br>sealing<br>DIN-ISO<br>228-1<br>NW " |  |
|------------------------------|----------------------------|----------------------------|---------------------------|--------------|-----|-----------------|--------------|-----|-----|-----|-----|--|--|
|                              |                            |                            | Without hot gas           | With hot gas |     | Without hot gas | With hot gas |     |     |     |     |  |  |
|                              |                            |                            | L                         | L            | B   | C               | C            | E   | H   | F   | A   |  |  |
|                              | l                          | kg                         | mm                        | mm           | mm  | mm              | mm           | mm  | mm  | mm  | mm  | mm   |  |
| <b>GSF 031.3F/34 - ANW50</b> | 5.4                        | 50                         | 1654                      | -            | 448 | 147             | -            | 442 | 442 | 339 | 300 | G $\frac{3}{4}$  |  |
| <b>GSF 031.3H/34 - ANW50</b> | 7.1                        | 56                         | 1654                      | -            | 448 | 147             | -            | 442 | 442 | 339 | 300 | G $\frac{3}{4}$  |  |
| <b>GSF 040.3F/34 - ANW50</b> | 9.6                        | 85                         | 2344                      | -            | 546 | 167             | -            | 542 | 542 | 414 | 400 | G1 $\frac{1}{4}$   |  |
| <b>GSF 040.3H/34 - ANW50</b> | 12.7                       | 95                         | 2344                      | -            | 546 | 167             | -            | 542 | 542 | 414 | 400 | G1 $\frac{1}{4}$   |  |
| <b>GSF 050.3F/34 - AND50</b> | 30.5                       | 170                        | 3352                      | -            | 635 | 222             | -            | 742 | 742 | 494 | 550 | G1 $\frac{1}{4}$   |  |
| <b>GSF 050.3H/34 - AND50</b> | 40.4                       | 197                        | 3352                      | -            | 635 | 222             | -            | 742 | 742 | 494 | 550 | G1 $\frac{1}{4}$   |  |
| <b>GSF 031.3F/36 - ANW50</b> | 5.3                        | 51                         | 1654                      | 1734         | 448 | 147             | 227          | 442 | 442 | 339 | 300 | G $\frac{3}{4}$  |  |
| <b>GSF 031.3H/36 - ANW50</b> | 7.1                        | 57                         | 1654                      | 1734         | 448 | 147             | 227          | 442 | 442 | 339 | 300 | G $\frac{3}{4}$  |  |
| <b>GSF 040.3F/36 - ANW50</b> | 9.6                        | 86                         | 2344                      | 2444         | 546 | 167             | 267          | 542 | 542 | 414 | 400 | G1 $\frac{1}{4}$   |  |
| <b>GSF 040.3H/36 - ANW50</b> | 12.7                       | 97                         | 2344                      | 2444         | 546 | 167             | 267          | 542 | 542 | 414 | 400 | G1 $\frac{1}{4}$   |  |
| <b>GSF 050.3H/36 - AND50</b> | 40.3                       | 200                        | 3352                      | 3472         | 635 | 222             | 342          | 742 | 742 | 494 | 550 | G1 $\frac{1}{4}$   |  |
| <b>GSF 050.3J/36 - AND50</b> | 50.2                       | 228                        | 3352                      | 3472         | 635 | 222             | 342          | 742 | 742 | 494 | 550 | G1 $\frac{1}{4}$   |  |
| <b>GSF 031.3F/37 - ANW50</b> | 8.1                        | 53                         | 1654                      | 1734         | 448 | 147             | 227          | 442 | 442 | 339 | 300 | G $\frac{3}{4}$  |  |
| <b>GSF 031.3H/37 - ANW50</b> | 11                         | 64                         | 1654                      | 1734         | 448 | 147             | 227          | 442 | 442 | 339 | 300 | G $\frac{3}{4}$  |  |
| <b>GSF 040.3F/37 - ANW50</b> | 14.8                       | 89                         | 2344                      | 2444         | 546 | 167             | 267          | 542 | 542 | 414 | 400 | G1 $\frac{1}{4}$   |  |
| <b>GSF 040.3H/37 - ANW50</b> | 19.6                       | 107                        | 2344                      | 2444         | 546 | 167             | 267          | 542 | 542 | 414 | 400 | G1 $\frac{1}{4}$   |  |
| <b>GSF 050.3H/37 - AND50</b> | 39.9                       | 193                        | 3352                      | 3472         | 635 | 222             | 342          | 742 | 742 | 494 | 550 | G1 $\frac{1}{4}$   |  |
| <b>GSF 050.3J/37 - AND50</b> | 49.8                       | 220                        | 3352                      | 3472         | 635 | 222             | 342          | 742 | 742 | 494 | 550 | G1 $\frac{1}{4}$   |  |

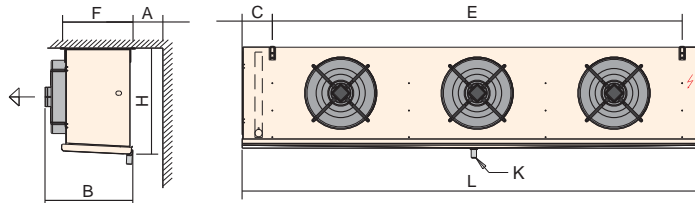
Typ / Type

GSF031.3...



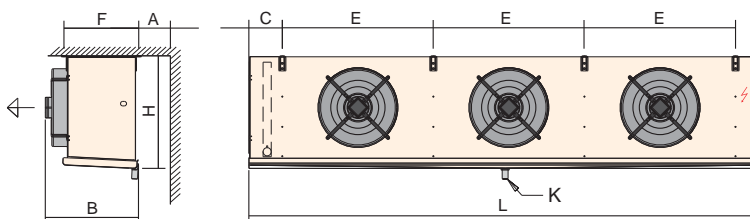
Typ / Type

GSF040.3...

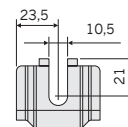


Typ / Type

GSF050.3...



Deckenaufhänger für Baugrößen 031 – 050:  
 Ceiling hangers for sizes 031 – 050:



## GSF.3 50 Hz 4 Ventilatoren Leistungstabellen

## GSF.3 50 Hz 4 Fans Capacity tables

| Lamellenteilung<br>Fin Spacing | Typ<br>Type           | Nennleistung<br>Nominal Capacity<br>R404A |                               | Fläche<br>Surface | Luftvolumenstrom<br>Air volume flow | Wurfweite ohne Streamer<br>Air throw without Streamer | Wurfweite mit Streamer<br>Air throw with Streamer | Schalldruck<br>Sound pressure | Anschlüsse<br>Connections  |               |   |  | El. Abtauheizung<br>El. Defrost |                         |                 |                                       |
|--------------------------------|-----------------------|---|-------------------------------|-------------------|-------------------------------------|---|---|-------------------------------|----------------------------|---------------|---|--|---------------------------------|-------------------------|-----------------|---------------------------------------|
|                                |                       | SC2<br>DT1 = 8K<br>to = -8°C              | SC3<br>DT1 = 7K<br>to = -25°C |                   |                                     |   |   |                               | Kältemittel<br>Refrigerant |               | Heißgas Block ein<br>Hot gas coil inlet | Heißgas Wanne ein / aus<br>Hot gas tray inlet / outlet | Block<br>Coil                   | Tropfwanne<br>Drip tray | Gesamt<br>Total | Anschlussschema<br>Connection diagram |
|                                |                       |   |                               |                   |                                     |   |   |                               | Ein<br>Inlet               | Aus<br>Outlet |   |  |                                 |                         |                 |                                       |
| mm                             |                       | kW  | kW                            | m <sup>2</sup>    | m <sup>3</sup> /h                   | m   | m   | dB(A)3m                       | mm Ø                       | mm Ø          | mm Ø                                    | mm Ø   | W                               | W                       | kW              | ◆                                     |
| 4                              | GSF 031.3F/44 - ANW50 | 11.2                                      | 8.6                           | 54.4              | 6130                                | 11  | 22  | 51                            | 22                         | 35            | -                                       | -  | 4000                            | 1150                    | 5.15            | B                                     |
|                                | GSF 031.3H/44 - ANW50 | 12.8                                      | 9.9                           | 72.5              | 5530                                | 10  | 20  | 51                            | 22                         | 35            | -                                       | -  | 6000                            | 1150                    | 7.15            | B                                     |
|                                | GSF 040.3F/44 - ANW50 | 21.3                                      | 14.9                          | 100.5             | 12320                               | 14  | 28  | 59                            | 28                         | 42            | -                                       | -  | 6900                            | 2200                    | 9.1             | B                                     |
|                                | GSF 040.3H/44 - ANW50 | 25.6                                      | 18.3                          | 134               | 11720                               | 13  | 26  | 59                            | 28                         | 42            | -                                       | -  | 9200                            | 2200                    | 11.4            | B                                     |
|                                | GSF 050.3F/44 - AND50 | 45.4                                      | 31.8                          | 202.1             | 25520                               | 20  | 40  | 63                            | 28                         | 54            | -                                       | -  | 14000                           | 3600                    | 17.6            | B                                     |
|                                | GSF 050.3H/44 - AND50 | 55  | 39.2                          | 269.4             | 24510                               | 20  | 40  | 63                            | 35                         | 54            | -                                       | -  | 17500                           | 3600                    | 21.1            | B                                     |

|   |                       |      |      |       |       |    |    |    |    |    |    |    |       |      |      |   |
|---|-----------------------|------|------|-------|-------|----|----|----|----|----|----|----|-------|------|------|---|
| 6 | GSF 031.3F/46 - ANW50 | 9.7  | 7.6  | 37.1  | 6520  | 10 | 20 | 51 | 22 | 28 | 22 | 12 | 4000  | 1150 | 5.15 | B |
|   | GSF 031.3H/46 - ANW50 | 11.6 | 9.1  | 49.5  | 6200  | 9  | 18 | 51 | 22 | 28 | 22 | 12 | 6000  | 1150 | 7.15 | B |
|   | GSF 040.3F/46 - ANW50 | 18.3 | 13.5 | 68.6  | 12880 | 15 | 30 | 59 | 22 | 42 | 22 | 12 | 6900  | 2200 | 9.1  | B |
|   | GSF 040.3H/46 - ANW50 | 22.4 | 16.7 | 91.5  | 12440 | 14 | 28 | 59 | 22 | 42 | 22 | 12 | 9200  | 2200 | 11.4 | B |
|   | GSF 050.3H/46 - AND50 | 47   | 35.1 | 185.2 | 25160 | 21 | 42 | 63 | 42 | 54 | 42 | 22 | 17500 | 3600 | 21.1 | B |
|   | GSF 050.3J/46 - AND50 | 54.3 | 40.8 | 231.5 | 24350 | 20 | 40 | 63 | 42 | 64 | 42 | 22 | 21000 | 3600 | 24.6 | B |

|   |                       |      |      |       |       |    |    |    |    |    |    |    |       |      |      |   |
|---|-----------------------|------|------|-------|-------|----|----|----|----|----|----|----|-------|------|------|---|
| 7 | GSF 031.3F/47 - ANW50 | 8.8  | 6.8  | 31.8  | 6660  | 11 | 22 | 51 | 16 | 28 | 22 | 12 | 4000  | 1150 | 5.15 | B |
|   | GSF 031.3H/47 - ANW50 | 10.9 | 8.5  | 42.4  | 6297  | 10 | 20 | 51 | 16 | 35 | 22 | 12 | 6000  | 1150 | 7.15 | B |
|   | GSF 040.3F/47 - ANW50 | 16.3 | 13.2 | 58.7  | 13097 | 16 | 32 | 59 | 22 | 42 | 22 | 12 | 6900  | 2200 | 9.1  | B |
|   | GSF 040.3H/47 - ANW50 | 20.5 | 16.5 | 78.3  | 12580 | 15 | 30 | 59 | 22 | 54 | 22 | 12 | 9200  | 2200 | 11.4 | B |
|   | GSF 050.3H/47 - AND50 | 42.7 | 32.8 | 161.3 | 25603 | 22 | 44 | 63 | 35 | 54 | 42 | 22 | 17500 | 3600 | 21.1 | B |
|   | GSF 050.3J/47 - AND50 | 50   | 38.4 | 201.6 | 24849 | 21 | 42 | 63 | 42 | 64 | 42 | 22 | 21000 | 3600 | 24.6 | B |

\* Mehrfacheinspritzung  
\* Multiple injection



◆ siehe Seite 17  
◆ see page 17

➤ Die Wurfweitenangabe stellt die Entfernung vom Gerät dar, bei der isotherm in einem idealen Raum noch eine Luftgeschwindigkeit von 0,5 m/s messbar ist. Die Eindringtiefe des Luftstroms in den Kühlraum ist von den örtlichen Gegebenheiten (Raumgeometrie, Einbauten, Luftabkühlung, Platzierung und Bereifung der Luftkühler, Beladung des Kühlraums) abhängig.

➤ The indicated air throw represents the distance from the unit to a point where an air velocity of 0.5 m/s can still be measured isothermally in an ideal space. The penetration depth of the air flow in the cold room depends on the surrounding conditions (spatial geometry, installed equipment, air cooling, positioning of air coolers frost formation and load in cold room).

## GSF.3 60 Hz 4 Ventilatoren Leistungstabellen

## GSF.3 60 Hz 4 Fans Capacity tables

| Lamellentteilung<br>Fin Spacing | Typ<br><br>Type       | Nennleistung<br>Nominal Capacity<br>R404A |      | Fläche<br>Surface | Luftvolumenstrom<br>Air volume flow | Wurfweite ohne Streamer<br>Air throw without Streamer | Wurfweite mit Streamer<br>Air throw with Streamer | Schalldruck<br>Sound pressure | Anschlüsse<br>Connections  |               |   |  | El. Abtauheizung<br>El. Defrost |                         |                 |                                      |
|---------------------------------|-----------------------|---|------|-------------------|-------------------------------------|---|---|-------------------------------|----------------------------|---------------|---|--|---------------------------------|-------------------------|-----------------|--------------------------------------|
|                                 |                       | SC2                                       | SC3  |                   |                                     |   |   |                               | Kältemittel<br>Refrigerant |               | El. Defrost                             |  |                                 |                         |                 |                                      |
|                                 |                       |   |      |                   |                                     |   |   |                               | Ein<br>Inlet               | Aus<br>Outlet | Heißgas Block ein<br>Hot gas coil inlet | Heißgas Wanne ein / aus<br>Hot gas tray inlet / outlet | Block<br>Coil                   | Tropfwanne<br>Drip tray | Gesamt<br>Total | Anschlusschema<br>Connection diagram |
| mm                              |                       | kW  | kW   | m <sup>2</sup>    | m <sup>3</sup> /h                   | m   | m   | dB(A)3m                       | mm Ø                       | mm Ø          | mm Ø                                    | mm Ø   | W                               | W                       | kW              | ◆                                    |
| 4                               | GSF 031.3F/44 - ANX50 | 11.5                                      | 8.8  | 54.4              | 6520                                | 11  | 23  | 52                            | 22                         | 35            | -                                       | -  | 4000                            | 1150                    | 5.15            | B                                    |
|                                 | GSF 031.3H/44 - ANX50 | 13.3                                      | 10.3 | 72.5              | 5940                                | 10  | 21  | 52                            | 22                         | 35            | -                                       | -  | 6000                            | 1150                    | 7.15            | B                                    |
|                                 | GSF 040.3F/44 - ANX50 | 22.8                                      | 15.7 | 100.5             | 14880                               | 15  | 30  | 60                            | 22                         | 42            | -                                       | -  | 6900                            | 2200                    | 9.1             | B                                    |
|                                 | GSF 040.3H/44 - ANX50 | 27.8                                      | 19.6 | 134               | 14080                               | 14  | 28  | 60                            | 22                         | 42            | -                                       | -  | 9200                            | 2200                    | 11.4            | B                                    |
|                                 | GSF 050.3F/44 - ANI50 | 47.3                                      | 32.9 | 202.1             | 28540                               | 21  | 42  | 64                            | 28                         | 54            | -                                       | -  | 14000                           | 3600                    | 17.6            | B                                    |
|                                 | GSF 050.3H/44 - ANI50 | 57.8                                      | 40.9 | 269.4             | 27340                               | 20  | 41  | 64                            | 35                         | 54            | -                                       | -  | 17500                           | 3600                    | 21.1            | B                                    |

|   |                       |      |      |       |       |    |    |    |    |    |    |    |       |      |      |   |
|---|-----------------------|------|------|-------|-------|----|----|----|----|----|----|----|-------|------|------|---|
| 6 | GSF 031.3F/46 - ANX50 | 9.9  | 7.8  | 37.1  | 6960  | 10 | 20 | 52 | 22 | 28 | 22 | 12 | 4000  | 1150 | 5.15 | B |
|   | GSF 031.3H/46 - ANX50 | 11.6 | 9.1  | 49.5  | 6200  | 9  | 18 | 52 | 22 | 28 | 22 | 12 | 6000  | 1150 | 7.15 | B |
|   | GSF 040.3F/46 - ANX50 | 19.4 | 14.2 | 68.6  | 15560 | 15 | 30 | 60 | 22 | 42 | 22 | 12 | 6900  | 2200 | 9.1  | B |
|   | GSF 040.3H/46 - ANX50 | 24.1 | 17.8 | 91.5  | 14960 | 14 | 28 | 60 | 22 | 42 | 22 | 12 | 9200  | 2200 | 11.4 | B |
|   | GSF 050.3H/46 - ANI50 | 49   | 36.4 | 185.2 | 28110 | 21 | 42 | 64 | 35 | 54 | 35 | 22 | 17500 | 3600 | 21.1 | B |
|   | GSF 050.3J/46 - ANI50 | 57   | 42.6 | 231.5 | 27150 | 20 | 40 | 64 | 42 | 54 | 42 | 22 | 21000 | 3600 | 24.6 | B |

|   |                       |      |      |       |       |    |    |    |    |    |    |    |       |      |      |   |
|---|-----------------------|------|------|-------|-------|----|----|----|----|----|----|----|-------|------|------|---|
| 7 | GSF 031.3F/47 - ANX50 | 9    | 7    | 31.8  | 7174  | 12 | 24 | 52 | 16 | 28 | 22 | 12 | 4000  | 1150 | 5.15 | B |
|   | GSF 031.3H/47 - ANX50 | 11.2 | 8.7  | 42.4  | 6709  | 11 | 22 | 52 | 16 | 35 | 22 | 12 | 6000  | 1150 | 7.15 | B |
|   | GSF 040.3F/47 - ANX50 | 17.5 | 14.2 | 58.7  | 15896 | 17 | 34 | 60 | 22 | 42 | 22 | 12 | 6900  | 2200 | 9.1  | B |
|   | GSF 040.3H/47 - ANX50 | 22.1 | 18   | 78.3  | 15184 | 16 | 32 | 60 | 22 | 54 | 22 | 12 | 9200  | 2200 | 11.4 | B |
|   | GSF 050.3H/47 - ANI50 | 44.4 | 34.1 | 161.3 | 28610 | 23 | 46 | 64 | 35 | 54 | 35 | 22 | 17500 | 3600 | 21.1 | B |
|   | GSF 050.3J/47 - ANI50 | 52.1 | 40.1 | 201.6 | 27710 | 22 | 44 | 63 | 42 | 64 | 42 | 22 | 21000 | 3600 | 24.6 | B |

\* Mehrfacheinspritzung  
\* Multiple injection



◆ siehe Seite 17  
◆ see page 17

➤ Die Wurfweitenangabe stellt die Entfernung vom Gerät dar, bei der isotherm in einem idealen Raum noch eine Luftgeschwindigkeit von 0,5 m/s messbar ist. Die Eindringtiefe des Luftstroms in den Kühlraum ist von den örtlichen Gegebenheiten (Raumgeometrie, Einbauten, Luftabkühlung, Platzierung und Bereifung der Geräte, Beladung des Kühlraums) abhängig.

➤ The indicated air throw represents the distance from the unit to a point where an air velocity of 0.5 m/s can still be measured isothermally in an ideal space. The penetration depth of the air flow in the cold room depends on the surrounding conditions (spatial geometry, installed equipment, air cooling, positioning of units frost formation and load in cold room).

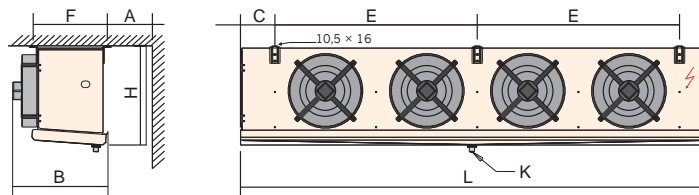


**GSF.3 50 Hz / 60 Hz**  
**4 Ventilatoren**  
**Gewicht und Maße**

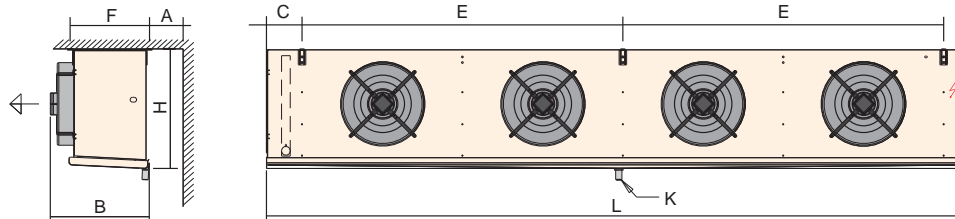
**GSF.3 50 Hz / 60 Hz**  
**4 Fans**  
**Weights and Measures**

| Typ<br>Type                  | Rohrvolumen<br>Tube volume | Nettogewicht<br>Net weight | Abmessungen<br>Dimensions |              |     |                 |              |      |     |     |     |                  | K<br>Ablauf<br>G-Gewinde<br>flachdichtend<br>Drain<br>G-thread flat<br>sealing<br>DIN-ISO<br>228-1<br>NW " |
|------------------------------|----------------------------|----------------------------|---------------------------|--------------|-----|-----------------|--------------|------|-----|-----|-----|------------------|--|
|                              |                            |                            | Without hot gas           | With hot gas |     | Without hot gas | With hot gas |      |     |     |     |                  |  |
|                              |                            |                            | L                         | L            | B   | C               | C            | E    | H   | F   | A   |                  |  |
| <b>GSF 031.3F/44 - ANW50</b> | 7                          | 75                         | 2114                      | -            | 448 | 147             | -            | 920  | 442 | 339 | 339 | G $\frac{3}{4}$  |  |
| <b>GSF 031.3H/44 - ANW50</b> | 9.2                        | 86                         | 2114                      | -            | 448 | 147             | -            | 920  | 442 | 339 | 339 | G $\frac{3}{4}$  |  |
| <b>GSF 040.3F/44 - ANW50</b> | 12.7                       | 122                        | 3024                      | -            | 546 | 167             | -            | 1360 | 542 | 414 | 414 | G1 $\frac{1}{4}$ |  |
| <b>GSF 040.3H/44 - ANW50</b> | 16.8                       | 141                        | 3024                      | -            | 546 | 167             | -            | 1360 | 542 | 414 | 414 | G1 $\frac{1}{4}$ |  |
| <b>GSF 050.3F/44 - AND50</b> | 39.7                       | 224                        | 4352                      | -            | 635 | 222             | -            | 2000 | 742 | 494 | 494 | G1 $\frac{1}{4}$ |  |
| <b>GSF 050.3H/44 - AND50</b> | 52.7                       | 258                        | 4352                      | -            | 635 | 222             | -            | 2000 | 742 | 494 | 494 | G1 $\frac{1}{4}$ |  |
| <b>GSF 031.3F/46 - ANW50</b> | 6.9                        | 68                         | 2114                      | 2194         | 448 | 147             | 227          | 920  | 442 | 339 | 339 | G $\frac{3}{4}$  |  |
| <b>GSF 031.3H/46 - ANW50</b> | 9.2                        | 85                         | 2114                      | 2194         | 448 | 147             | 227          | 920  | 442 | 339 | 339 | G $\frac{3}{4}$  |  |
| <b>GSF 040.3F/46 - ANW50</b> | 12.6                       | 114                        | 3024                      | 3124         | 546 | 167             | 267          | 1360 | 542 | 414 | 414 | G1 $\frac{1}{4}$ |  |
| <b>GSF 040.3H/46 - ANW50</b> | 16.7                       | 138                        | 3024                      | 3124         | 546 | 167             | 267          | 1360 | 542 | 414 | 414 | G1 $\frac{1}{4}$ |  |
| <b>GSF 050.3H/46 - AND50</b> | 52.8                       | 264                        | 4352                      | 4472         | 635 | 222             | 342          | 2000 | 742 | 494 | 494 | G1 $\frac{1}{4}$ |  |
| <b>GSF 050.3J/46 - AND50</b> | 54.3                       | 299                        | 4352                      | 4472         | 635 | 222             | 342          | 2000 | 742 | 494 | 494 | G1 $\frac{1}{4}$ |  |
| <b>GSF 031.3F/47 - ANW50</b> | 10.6                       | 69                         | 2114                      | 2194         | 448 | 147             | 227          | 920  | 442 | 339 | 339 | G $\frac{3}{4}$  |  |
| <b>GSF 031.3H/47 - ANW50</b> | 14.2                       | 83                         | 2114                      | 2194         | 448 | 147             | 227          | 920  | 442 | 339 | 339 | G $\frac{3}{4}$  |  |
| <b>GSF 040.3F/47 - ANW50</b> | 19.5                       | 116                        | 3024                      | 3124         | 546 | 167             | 267          | 1360 | 542 | 414 | 414 | G1 $\frac{1}{4}$ |  |
| <b>GSF 040.3H/47 - ANW50</b> | 26                         | 141                        | 3024                      | 3124         | 546 | 167             | 267          | 1360 | 542 | 414 | 414 | G1 $\frac{1}{4}$ |  |
| <b>GSF 050.3H/47 - AND50</b> | 52.4                       | 255                        | 4352                      | 4472         | 635 | 222             | 342          | 2000 | 742 | 494 | 494 | G1 $\frac{1}{4}$ |  |
| <b>GSF 050.3J/47 - AND50</b> | 52.9                       | 288                        | 4352                      | 4472         | 635 | 222             | 342          | 2000 | 742 | 494 | 494 | G1 $\frac{1}{4}$ |  |

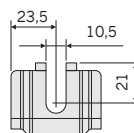
Typ / Type GSF031.3...



Typ / Type GSF040.3... GSF050.3...



Deckenaufhänger für Baugrößen 031 – 050:  
 Ceiling hangers for sizes 031 – 050:



## GSF.3 Daten je Ventilator

| Typ                 | el. Leistungsaufnahme<br>el. power consumption | Stromstärke<br>Electric current | Motor Stromart        | Schallleistungspegel<br>Sound power level | Anschlussschema Ventilator<br>Connection diagram fan |
|---------------------|--|---------------------------------|-----------------------|---|--|
| Type                |  |                                 | Type of motor current |   |  |
|                     | W  | A                               | <b>50 Hz</b>          |   |  |
|                     |  |                                 |                       | dB(A)                                     | ◆  |
| 031.3D/...4 - ANW50 | 90   | 0,41                            | 230V 1~ 50 Hz         | 66  | D1   |
| 031.3F/...4 - ANW50 | 90   | 0,41                            |                       | 66  | D1   |
| 031.3H/...4 - ANW50 | 90   | 0,41                            |                       | 66  | D1   |
| 040.3D/...4 - ANW50 | 225  | 1,05                            |                       | 74  | E1   |
| 040.3F/...4 - ANW50 | 225  | 1,05                            |                       | 74  | E1   |
| 040.3H/...4 - ANW50 | 225  | 1,05                            |                       | 74  | E1   |
| 050.3D/...4 - AND50 | 690  | 1,55                            |                       | 400V 3~ 50 Hz                             | 80   |
| 050.3F/...4 - AND50 | 690  | 1,55                            | 80                    |   | J1   |
| 050.3H/...4 - AND50 | 690  | 1,55                            | 80                    |   | J1   |
| 050.3J/...4 - AND50 | 690  | 1,55                            | 80                    |   | J1   |
| 031.3D/...6 - ANW50 | 90   | 0,41                            | 230V 1~ 50 Hz         | 66  | D1   |
| 031.3F/...6 - ANW50 | 90   | 0,41                            |                       | 66  | D1   |
| 031.3H/...6 - ANW50 | 90   | 0,41                            |                       | 66  | D1   |
| 040.3D/...6 - ANW50 | 225  | 1,05                            |                       | 74  | E1   |
| 040.3F/...6 - ANW50 | 225  | 1,05                            |                       | 74  | E1   |
| 040.3H/...6 - ANW50 | 225  | 1,05                            |                       | 74  | E1   |
| 050.3F/...6 - AND50 | 690  | 1,55                            |                       | 400V 3~ 50 Hz                             | 80   |
| 050.3H/...6 - AND50 | 690  | 1,55                            | 80                    |   | J1   |
| 050.3J/...6 - AND50 | 690  | 1,55                            | 80                    |   | J1   |
| 031.3D/...7 - ANW50 | 90   | 0,41                            | 230V 1~ 50 Hz         | 66  | D1   |
| 031.3F/...7 - ANW50 | 90   | 0,41                            |                       | 66  | D1   |
| 031.3H/...7 - ANW50 | 90   | 0,41                            |                       | 66  | D1   |
| 040.3D/...7 - ANW50 | 225  | 1,05                            |                       | 74  | E1   |
| 040.3F/...7 - ANW50 | 225  | 1,05                            |                       | 74  | E1   |
| 040.3H/...7 - ANW50 | 225  | 1,05                            |                       | 74  | E1   |
| 050.3F/...7 - AND50 | 690  | 1,55                            |                       | 400V 3~ 50 Hz                             | 80   |
| 050.3H/...7 - AND50 | 690  | 1,55                            | 80                    |   | J1   |
| 050.3J/...7 - AND50 | 690  | 1,55                            | 80                    |   | J1   |

- ◆ mögliches Ventilator-Anschlussschema für Verdrahtung durch Kunden siehe Seite 17
- ◆ see page 17

## GSF.3 Data per fan

| Typ                 | el. Leistungsaufnahme<br>el. power consumption | Stromstärke<br>Electric current | Motor Stromart        | Schallleistungspegel<br>Sound power level | Anschlussschema Ventilator<br>Connection diagram fan |
|---------------------|--|---------------------------------|-----------------------|---|--|
| Type                |  |                                 | Type of motor current |   |  |
|                     | W  | A                               | <b>60 Hz</b>          |   |  |
|                     |  |                                 |                       | dB(A)                                     | ◆  |
| 031.3D/...4 - ANX50 | 140  | 0,61                            | 230V 1~ 60 Hz         | 67  | D1   |
| 031.3F/...4 - ANX50 | 140  | 0,61                            |                       | 67  | D1   |
| 031.3H/...4 - ANX50 | 140  | 0,61                            |                       | 67  | D1   |
| 040.3D/...4 - ANX50 | 320  | 1,38                            |                       | 75  | E1   |
| 040.3F/...4 - ANX50 | 320  | 1,38                            |                       | 75  | E1   |
| 040.3H/...4 - ANX50 | 320  | 1,38                            |                       | 75  | E1   |
| 050.3D/...4 - ANI50 | 1000   | 1,85                            |                       | 400V 3~ 60 Hz                             | 83   |
| 050.3F/...4 - ANI50 | 1000   | 1,85                            | 83                    |   | J1   |
| 050.3H/...4 - ANI50 | 1000   | 1,85                            | 83                    |   | J1   |
| 050.3J/...4 - ANI50 | 1000   | 1,85                            | 83                    |   | J1   |
| 031.3D/...6 - ANX50 | 140  | 0,61                            | 230V 1~ 60 Hz         | 67  | D1   |
| 031.3F/...6 - ANX50 | 140  | 0,61                            |                       | 67  | D1   |
| 031.3H/...6 - ANX50 | 140  | 0,61                            |                       | 67  | D1   |
| 040.3D/...6 - ANX50 | 320  | 1,38                            |                       | 75  | E1   |
| 040.3F/...6 - ANX50 | 320  | 1,38                            |                       | 75  | E1   |
| 040.3H/...6 - ANX50 | 320  | 1,38                            |                       | 75  | E1   |
| 050.3F/...6 - ANI50 | 1000   | 1,85                            |                       | 400V 3~ 60 Hz                             | 83   |
| 050.3H/...6 - ANI50 | 1000   | 1,85                            | 83                    |   | J1   |
| 050.3J/...6 - ANI50 | 1000   | 1,85                            | 83                    |   | J1   |
| 031.3D/...7 - ANX50 | 140  | 0,61                            | 230V 1~ 60 Hz         | 67  | D1   |
| 031.3F/...7 - ANX50 | 140  | 0,61                            |                       | 67  | D1   |
| 031.3H/...7 - ANX50 | 140  | 0,61                            |                       | 67  | D1   |
| 040.3D/...7 - ANX50 | 320  | 1,38                            |                       | 75  | E1   |
| 040.3F/...7 - ANX50 | 320  | 1,38                            |                       | 75  | E1   |
| 040.3H/...7 - ANX50 | 320  | 1,38                            |                       | 75  | E1   |
| 050.3F/...7 - ANI50 | 1000   | 1,85                            |                       | 400V 3~ 60 Hz                             | 83   |
| 050.3H/...7 - ANI50 | 1000   | 1,85                            | 83                    |   | J1   |
| 050.3J/...7 - ANI50 | 1000   | 1,85                            | 83                    |   | J1   |

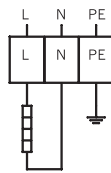
- ◆ possible fan wiring diagram for wired by customer, see page 17
- ◆ see page 17

## GSF.3 Anschlussschemata

## GSF.3 Connection diagrams

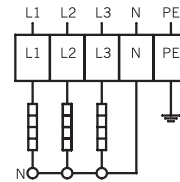
**Abtauheizung – Zuleitung max. Sicherung 25 A**  
**Defrost heating – Mains lead max. fuse 25 A**

### Anschluss Typ A Connection type A



Netz / Line 230 V 1~

### Anschluss Typ B Connection type B



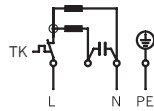
Netz / Line 400 V 3~ N

### Elektrischer Anschluss direkt am Ventilator durch Kunden Connection electrical fan

#### Anschluss Typ D1 Connection type D1

für Baugröße 031.3  
for type 031.3

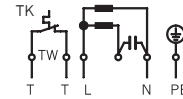
Netz / Line  
230 V 1~ 50 Hz  
230 V 1~ 60 Hz



#### Anschluss Typ E1 Connection type E1

für Baugröße 040.3  
for type 040.3

Netz / Line  
230 V 1~ 50 Hz  
230 V 1~ 60 Hz  
Thermokontakt extern  
external thermal contact

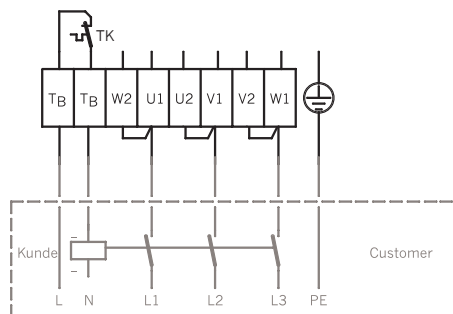


#### Anschluss Typ J1 Connection type J1

für Baugröße 050.3  
for type 050.3

Netz / Line  
400 V 3~ 50 Hz  
400 V 3~ 60 Hz

Thermokontakt extern  
external thermal contact



## Ausführung GSF.3

## Construction GSF.3

### Wärmeaustauscher Heat exchanger

Lamellen aus Aluminium  
Schraderventil am Austritt  
Rohrteilung in Luftrichtung  
versetzt, innenberippte Spezialkupper-  
rohre Ø 9.52 und Ø 12 mm  
Lamellenteilung 4 mm / 6 mm / 7 mm  
max. Betriebsdruck 32 bar

Fins made of aluminium  
Schrader valve at outlet  
Tube pattern staggered in air flow direction,  
special copper tubes Ø 9.52 mm and  
Ø 12 mm, internally grooved  
Fin spacing 4 mm / 6 mm / 7 mm  
max. operating pressure 32 bar

### Gehäuse Casing

Aluminium-Magnesium-Legierung,  
pulverbeschichtet, RAL 9003 (Signalweiß)  
Doppeltes Tropfblech, ab Baugröße 31  
abklappbar  
Tauwasserablauf aus Polyamid  
Aufhänger für Deckenbefestigung aus  
Edelstahl

Aluminium-magnesium alloy,  
powder-coated, RAL 9003 (Signal white)  
Double drip tray, fold down from type 31  
Condensation water drain made of polyamide  
Stainless steel brackets for ceiling mounting

### Ventilatoren Fans

Geräuscharme Axialventilatoren mit  
Außenläufermotoren,

Low noise axial fans with external rotor  
motors,

Motoren 230 V 1~ 50 Hz,  
ab GSF050...:  
Motoren 400 V 3~ 50 Hz

motors 230 V 1~ 50 Hz,  
from GSF050...:  
motors 400 V 3~ 50 Hz

Motoren 230 V 1~ 60 Hz,  
ab GSF050...:  
Motoren 400 V 3~ 60 Hz

motors 230 V 1~ 60 Hz,  
from GSF050...:  
motors 400 V 3~ 60 Hz

Schutzart IP 44 nach DIN 40050  
Einsatzbereich: -30 °C bis +40 °C  
Berührungsschutzgitter nach EN 294

Protection class IP 44 acc. to DIN 40050  
Temperature range: -30 °C up to +40 °C  
Protection guard according to EN 294

### Schallangaben Sound specifications

Nach Standardverfahren zur Berechnung  
des Schalldruckpegels gemäß EN  
13487; Anhang C (normativ).  
Da Kühlräume nur ein sehr geringes  
Absorptionsverhalten aufweisen,  
empfehlen wir, mit einer nur geringen  
Abnahme des Schalldruckpegels bei  
anderen Entfernungen zu rechnen.

In compliance with the standard  
procedure for calculation of sound  
pressure level according to EN 13487;  
annex C (normative).  
As cold rooms have a very low absorbing  
capacity, we recommend to carry out  
calculations only with a slight reduction  
in the sound pressure level for other  
distances.

## Ausführung GSF.3

## Construction GSF.3

### Leistungsangaben Capacity

Die Leistungsangaben gelten für R404A. Die Kühlerleistungen beziehen sich dabei auf eine Lufttemperaturdifferenz, die sich aus der Differenz zwischen Lufttemperatur am Kühler  $t_{L1}$  und Verdampfungstemperatur  $t_o$ ,  $DT1 = t_{L1} - t_o$  ergibt.

The capacity specifications are valid for R404A. The refrigerating capacities refer to an air inlet temperature difference resulting from the difference between air inlet temperature at the cooler  $t_{L1}$  and evaporating temperature  $t_o$ ,  $DT1 = t_{L1} - t_o$ .

Mit unserer kostenlosen Auslegungssoftware **Güntner Product Calculator** erhalten Sie eine genaue thermodynamische Auslegung der gewünschten Gerätevariante mit anderen Betriebsparametern (auch für andere Kältemittel, Luftfeuchte und Epoxidharz-beschichtete Lamellen).

We recommend to use our free software package **Güntner Product Calculator** for an exact thermodynamic calculation of the requested unit in different operating parameters (for other refrigerants, air humidity and epoxy resin coated fins).

### Abtaugung Defrost

Elektrische Block- und Wannenheizung, nach VDE-Bestimmungen auf Klemmdose verdrahtet.  
Typenbezeichnung:  
GSF3...**E**... (= Elektrische Block- und Wannenheizung)  
GSF3...**H**... (= Heißgasabtaugung)  
GSF3...**A**... (= Umluftabtaugung)

Electric coil and drip tray heating, wired to terminal box according to VDE regulations.  
Type:  
GSF3...**E**... (= electric coil and drip tray heating)  
GSF3...**H**... (= hot gas defrost)  
GSF3...**A**... (= air defrost)

### Anmerkung Note

Ab einer Flüssigkeitsunterkühlung > 10 K muss die Kältemittelspritzung angepasst werden.

At a liquid subcooling of > 10 K the refrigerant distributor must be readjusted.

### Zubehör Accessories

- Elektrische Block- und Wannenheizung
- Heißgasabtaugung
- Güntner Streamer

- Electric defrost for coil and drip tray
- Hot gas defrost
- Streamer

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Technische Änderungen vorbehalten.  
Vorangegangene Prospekte verlieren ihre Gültigkeit.  
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