

# RS 250

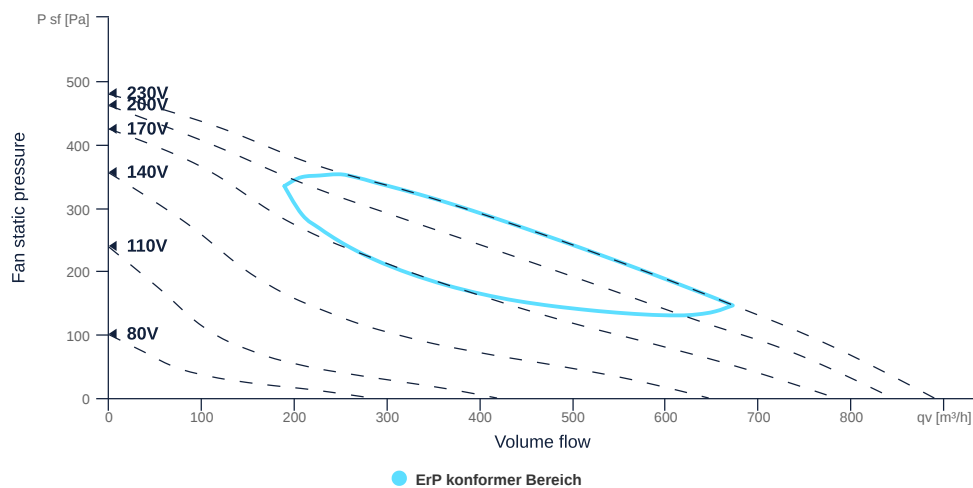
104213

- Compact centrifugal fan
- Backward curved impeller
- Sheet steel housing, RAL 7035, powder coated
- Robust single phase AC motor, steplessly controllable
- Conveyed medium temperature up to 60 °C in continuous operation
- Integrated thermal switch



## FAN CURVES

| Name        | Value | Unit |
|-------------|-------|------|
| Volume flow | 0     | m³/h |
| Pressure    | 0     | Pa   |



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## GENERAL DATA

| Name                                                   | Value    | Unit | Formula symbol          |
|--------------------------------------------------------|----------|------|-------------------------|
| Labeling                                               | CE, UKCA |      |                         |
| Duct size                                              | -        |      | WxH <sub>duct</sub>     |
| Pipe connection size (DN)                              | DN250    |      | DN                      |
| Rated voltage (entire device)                          | 230      | v    | U <sub>rated</sub>      |
| Phases (entire device)                                 | 1~       |      | phase                   |
| Electrical protection (entire device)                  | 6 A      |      | fuse                    |
| Housing material                                       | Steel    |      | mat <sub>casing</sub>   |
| Impeller material                                      | Plastic  |      | mat <sub>impeller</sub> |
| IP-protection class (casing)                           | IPX4     |      | IP <sub>casing</sub>    |
| IP-protection class (entire device)                    | IPX4     |      | IP <sub>compl</sub>     |
| IP-Protection class (terminal box)                     | IP44     |      | IP <sub>ebox</sub>      |
| Weight                                                 | 4.08     | kg   | m                       |
| Nominal air flow rate, nominal point m <sup>3</sup> /h | 608.4    | CmH  | qV <sub>nom</sub>       |
| Nominal external pressure, static                      | 181      | Pa   | p <sub>s, nom</sub>     |
| Fan type                                               | Radial   |      | Fan <sub>type</sub>     |
| Category / Installation situation                      | A        |      | cat                     |

## ERP DATA (LOT 6)

| Name                                                   | Value                     | Unit | Formula symbol       |
|--------------------------------------------------------|---------------------------|------|----------------------|
| Nominal air flow rate, nominal point m <sup>3</sup> /s | 0.17                      | CmS  | QV <sub>nom</sub>    |
| Actual electrical input power, nominal point           | 0.1                       | kw   | Pe <sub>nom</sub>    |
| Face velocity, nominal point                           | 3.44                      | mps  | V <sub>nom</sub>     |
| Nominal external pressure, static                      | 181                       | Pa   | p <sub>s, nom</sub>  |
| supply air fan static efficiency, nominal point        | 30.3                      | p    | η <sub>es, SUP</sub> |
| Highest external air leakage rate                      | 0.31                      | p    |                      |
| Enclosure sound level, nominal point                   | 62                        | db   | LWA2                 |
| Rating                                                 | Product is compliant 2018 |      |                      |



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## MAXIMAL DATA

| Name                            | Value |       | Unit | Formula symbol        |
|---------------------------------|-------|-------|------|-----------------------|
|                                 | 50 Hz | 60 Hz |      |                       |
| Max. power consumption (device) | 100   | 132   | w    | P <sub>ed, max</sub>  |
| Max. operating current (device) | 0.46  | 0.6   | A    | I <sub>ed, max</sub>  |
| Max. speed                      | 2720  | 3120  | rpm  | n <sub>max</sub>      |
| Max. stat. efficiency           | 30.3  | 25.7  | p    | η <sub>es</sub>       |
| Max. fan efficiency             | 30.9  | 26.1  | p    | η <sub>e</sub>        |
| Max. flowrate                   | 890   | 970   | CmH  | q <sub>v, max</sub>   |
| Max. stat pressure              | 480   | 620   | Pa   | p <sub>sf, max</sub>  |
| Max. medium temperature         | 60    | 80    | °C   | T <sub>m, max</sub>   |
| Max. environment temperature    | 60    | 80    | °C   | T <sub>amb, max</sub> |
| Min. environment temperature    | -25   | -25   | °C   | T <sub>amb, min</sub> |
| Min. voltage                    | 80    | 80    | v    | U <sub>min</sub>      |
| Stall current                   | 0.77  | 0.77  | A    | I <sub>LRA</sub>      |

## MOTOR DATA

| Name                     | Value    |                     | Unit | Formula symbol                      |
|--------------------------|----------|---------------------|------|-------------------------------------|
|                          | 50 Hz    | 60 Hz               |      |                                     |
| Rated frequency (device) |          | 50                  |      | f                                   |
| Motor type               |          | AC 1~               |      | phase                               |
| Control type             |          | stepless-controlled |      | ctrltype                            |
| Installation type        |          | ORM (Out)           |      | install                             |
| Rotation direction       |          | right               |      | rotation                            |
| Isolation class          |          | ISO F               |      | ISOclass                            |
| Motor-protection         |          | TAI                 |      | protect <sub>motor</sub>            |
| Protection class         |          | IP33                |      | IP <sub>motor</sub>                 |
| Is pole-changeable       |          | No                  |      | polexch                             |
| Type of power supply     |          | AC 1~               |      | pwr <sub>sup</sub> <sub>motor</sub> |
| Capacity capacitor       |          | 2.5                 | μF   | C <sub>cond</sub>                   |
| Voltage capacitor        |          | 450                 | v    | VU <sub>cond</sub>                  |
| Number of poles (1)      |          | 2.000000            |      | num poles <sub>w1</sub>             |
| Rated voltage            | 230      | 230                 | v    | U <sub>rated, f1</sub>              |
| Rated current            | 0.43     | 0.55                | A    | I <sub>rated, f1</sub>              |
| Speed                    | 2390     | 2460                | rpm  | n <sub>f1</sub>                     |
| Starting current         | 0.73     | 0.72                | A    | I <sub>start, f1</sub>              |
| Efficiency               | 47.3     | 21.5                | p    | η <sub>m, f1</sub>                  |
| Min. temperature         | -30      | -30                 | °C   | T <sub>motor, min</sub>             |
| Cos Phi                  | 0.980000 | 0.980000            |      | cos φ                               |
| UL-Certification motor   |          | None                |      | ULcert                              |



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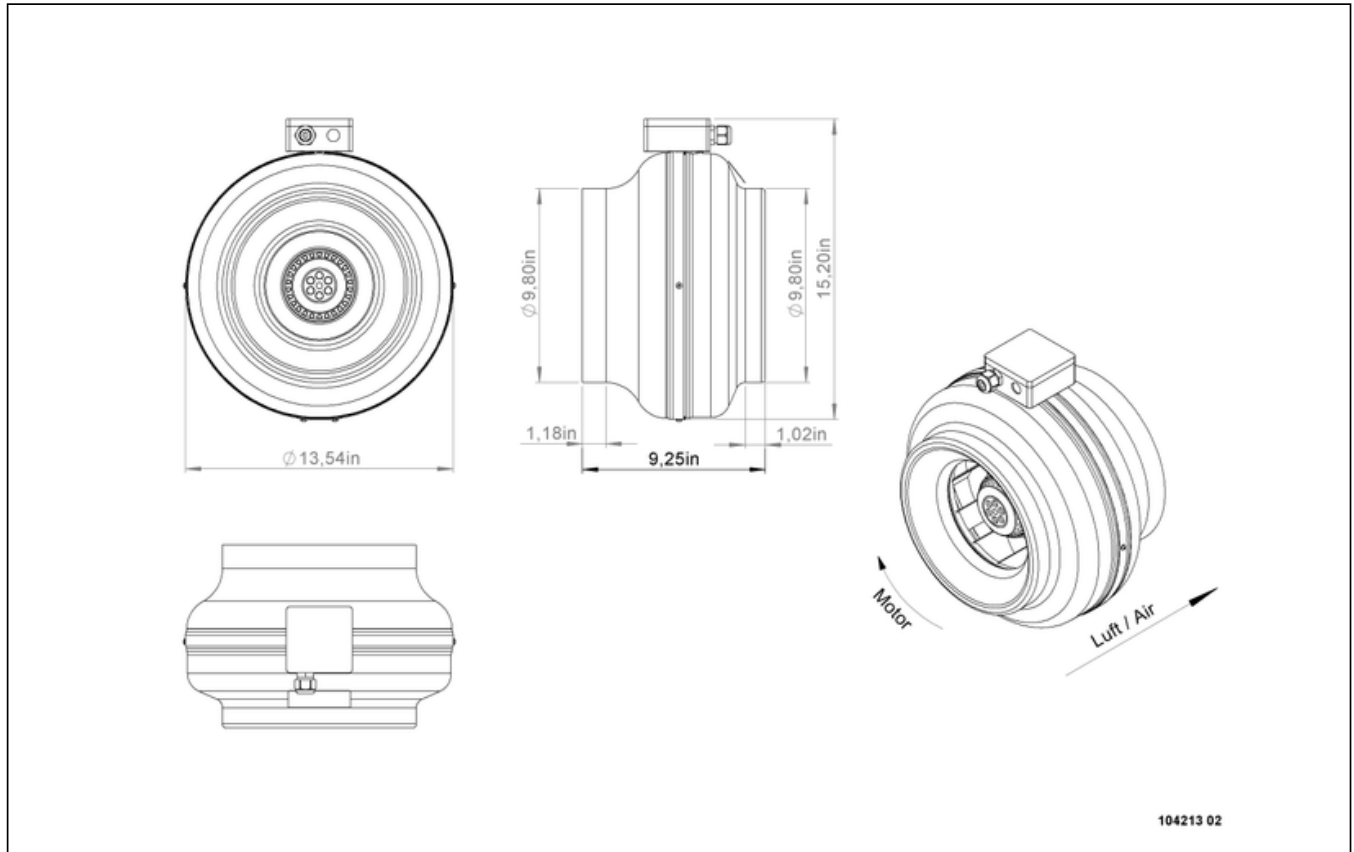
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SMOKE EXTRACT DATA

| Name                  | Value | Unit | Formula symbol |
|-----------------------|-------|------|----------------|
| Fire resistance class | None  |      | Fclass         |

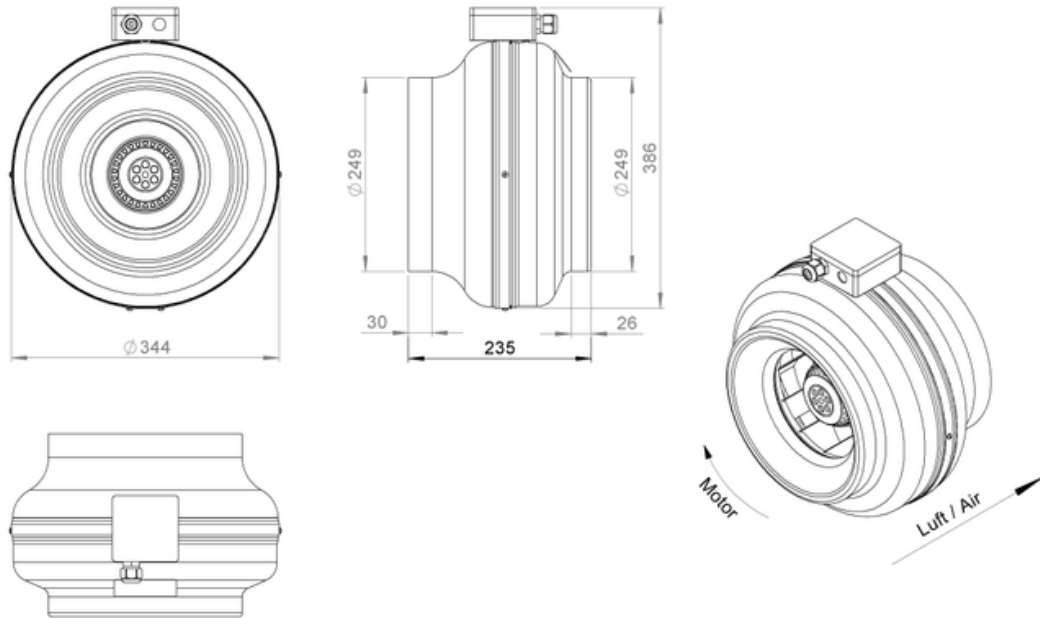
## CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



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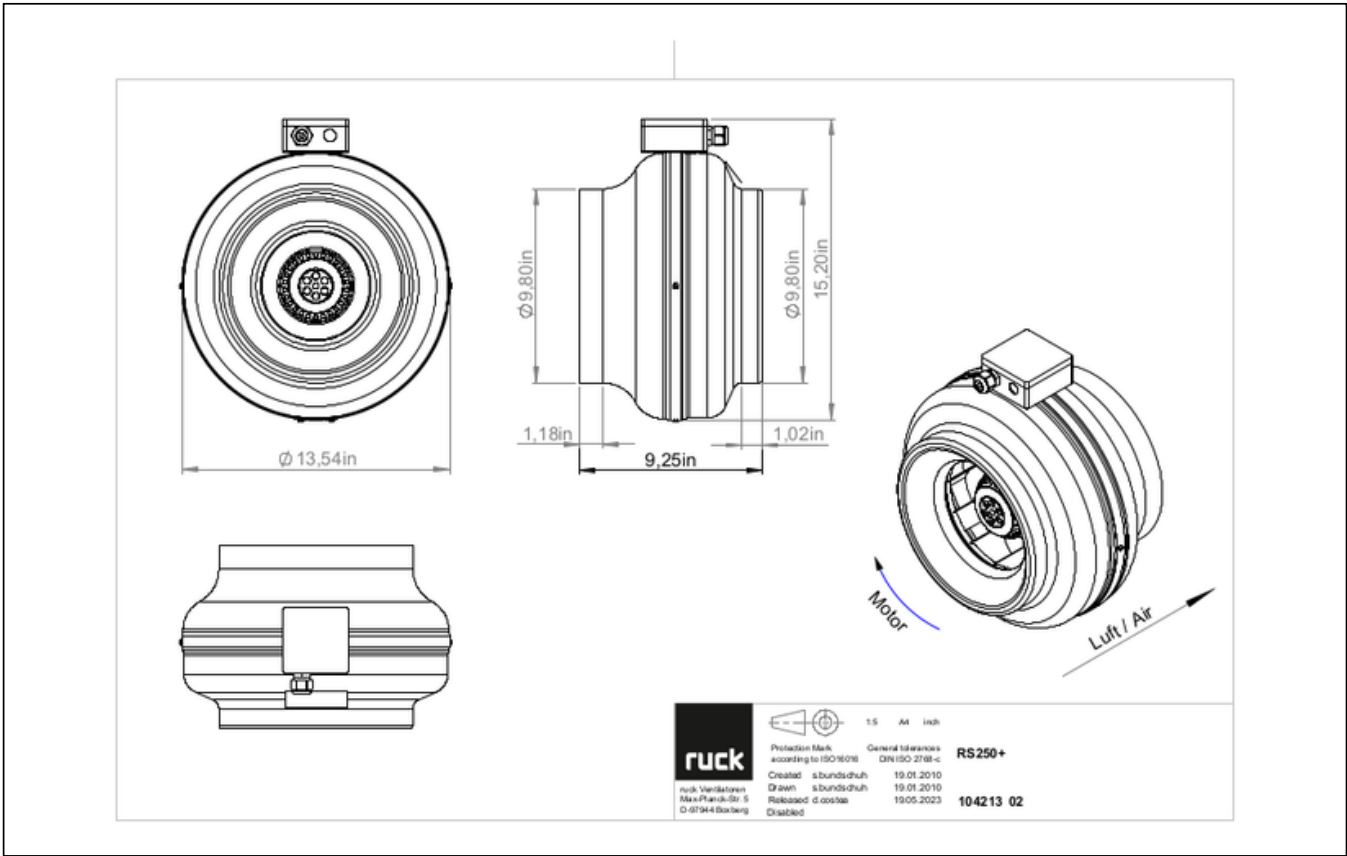
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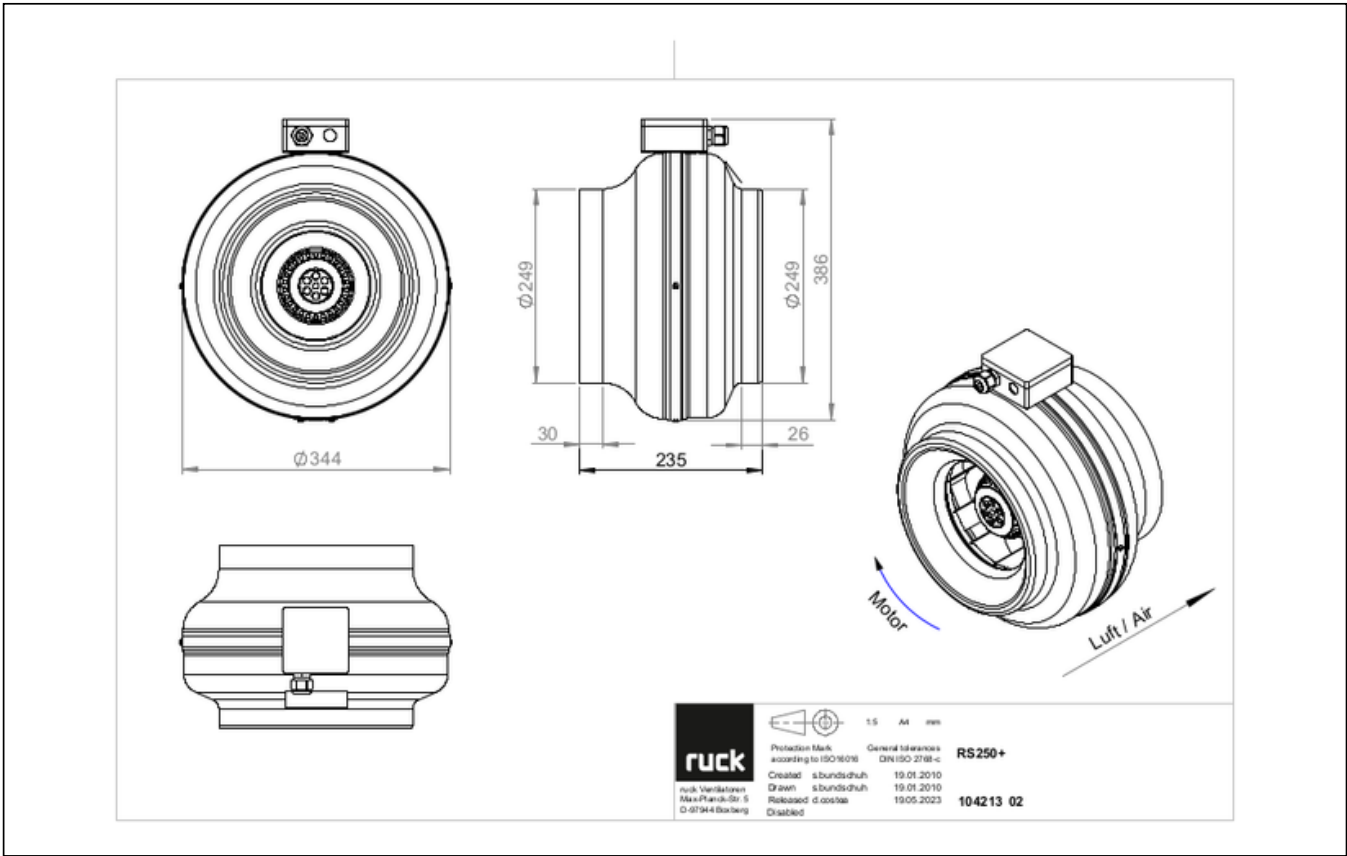
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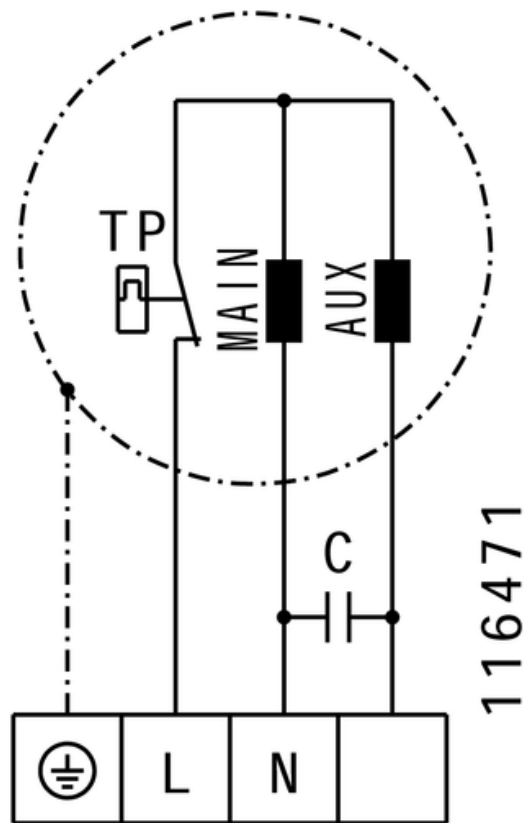
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# RS 250

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## MECHANICAL ACCESSORIES

VM 250 | 102651



- Fast clamps for sound decoupling and sealing
- Galvanized steel sheet, 5 mm Neopren gasket
- 1 Pack = 2 pieces

RSK 250 | 102686



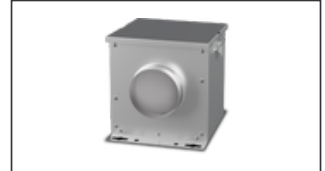
- Back draught shutter for tube fitting
- Galvanized steel sheet housing
- Aluminum flaps

MRS 2 | 110095



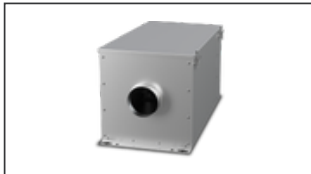
- Mounting bracket
- Galvanized steel sheet
- Includes: Mounting bracket and 2 Phillips screws (6 x 45 mm), 2 dowels (8 x 40 mm)

FV 250 | 112833



- Air filter box with mat filter ISO Coarse 45 % (G3)
- Toggle-type fastener

FT 250 | 112845



- Air filter box for pocket filter
- Toggle-type fastener
- Galvanized steel sheet housing
- Without filter

FTW 250 | 112854



- Air filter box with pocket filter M5
- Integrated warm water heating coil
- Galvanized steel sheet housing
- Toggle-type fastener

RSK 250D | 113488



- Back draught shutter for tube fitting
- Galvanized steel sheet housing
- Aluminum flaps
- Integrated gasket

KWR 250 01 | 124065



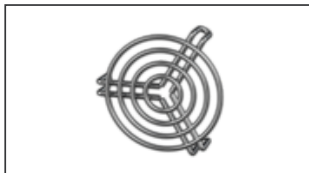
- Cold water cooler, uninsulated
- Version right
- Connection ND 250
- Galvanized steel sheet with condensate tray

KWR 250 02 | 124066



- Cold water cooler, uninsulated
- Version left
- Connection ND 250
- Galvanized steel sheet with condensate tray

SG 250 01 | 169588



- Protection grille for tube connection
- Galvanized wire

SDS 250 | 169607



- Rigid tube silencer
- Galvanized steel sheet
- Sound insulation packing 50 mm (mineral wool)

SDF 250 | 169644



- Flexible tube silencer
- Galvanized steel sheet
- Sound insulation packing 50 mm



## ELECTRICAL ACCESSORIES

**GS 01 | 102787**



- Isolator switch
- $U_{max} = 400\text{ V}$ , 50/60 Hz
- Switching capacity 400 V 3~ = 7,5 kW
- $I_{max} = 25\text{ A}$

**MTY 1 | 103428**



- Electronic controller
- Stepless
- 230 V ~, 50 Hz
- Max. ambient temperature 35 °C
- $I_{max} = 1\text{ A}$
- Surface and flush mounting

**ETY 15 | 115891**



- Electronic controller
- Stepless speed control
- 230 V ~, 50 Hz, 2,5 A
- Max. ambient temperature 35 °C

**TEE 015 | 115893**



- 5-step transformer
- 230 V ~, 50/60 Hz

**TES 0145 | 169581**



- Step transformer
- 230 V ~, 50/60 Hz

