

# RS 250L 10

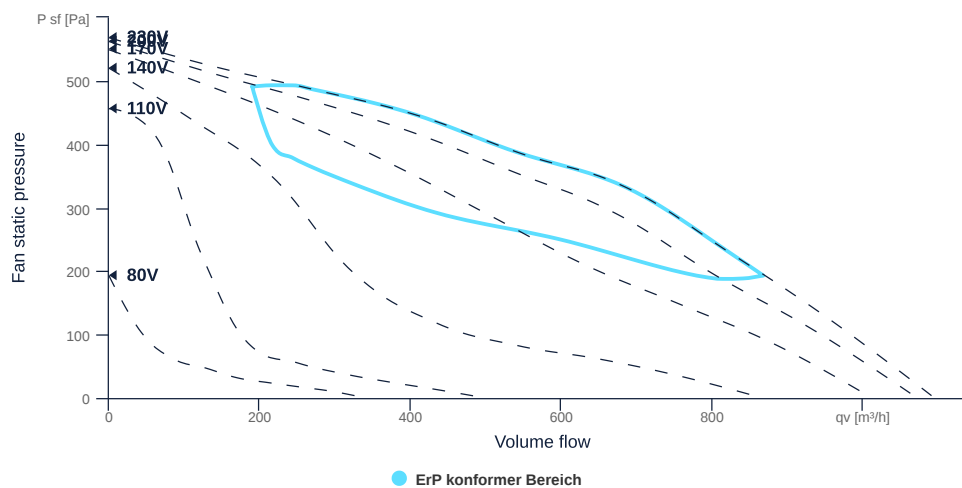
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- Compact centrifugal fan
- Backward curved impeller
- Sheet steel housing, RAL 7035, powder coated
- Robust single phase AC motor, steplessly controllable
- Conveyed medium temperature up to 70 °C in continuous operation
- Integrated thermal switch



## FAN CURVES

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



to the product detail page

# RS 250L 10

136398

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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                                    | 5.1      | kg   | m                       |
| Nominal air flow rate, nominal point m³/h | 831.6    | m³/h | q <sub>v,nom</sub>      |
| Nominal external pressure, static         | 221      | 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 m³/s       | 0.23                      | m³/s | q <sub>v,nom</sub>  |
| Actual electrical input power, nominal point    | 0.16                      | kW   | P <sub>e,nom</sub>  |
| Face velocity, nominal point                    | 4.7                       | m/s  | v <sub>nom</sub>    |
| Nominal external pressure, static               | 221                       | Pa   | p <sub>s,nom</sub>  |
| supply air fan static efficiency, nominal point | 43.3                      | %    | η <sub>es,SUP</sub> |
| Highest external air leakage rate               | 0.29                      | %    |                     |
| Enclosure sound level, nominal point            | 62                        | dba  | L <sub>WA2</sub>    |
| Rating                                          | Product is compliant 2018 |      |                     |



to the product detail page

# RS 250L 10

136398

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## MAXIMAL DATA

| Name                            | Value |       | Unit  | Formula symbol |
|---------------------------------|-------|-------|-------|----------------|
|                                 | 50 Hz | 60 Hz |       |                |
| Max. power consumption (device) | 161   | 239   | W     | $P_{ed, max}$  |
| Max. operating current (device) | 0.88  | 1.11  | A     | $I_{ed, max}$  |
| Max. speed                      | 2910  | 3440  | 1/min | $n_{max}$      |
| Max. stat. efficiency           | 37.5  | 34.2  | %     | $\eta_{es}$    |
| Max. fan efficiency             | 38.3  | 34.7  | %     | $\eta_e$       |
| Max. flowrate                   | 1090  | 1260  | m³/h  | $Q_{v, max}$   |
| Max. stat pressure              | 570   | 790   | Pa    | $p_{sf, max}$  |
| Max. medium temperature         | 70    | 45    | °C    | $T_{m, max}$   |
| Max. environment temperature    | 70    | 45    | °C    | $T_{amb, max}$ |
| Min. environment temperature    | -25   | -25   | °C    | $T_{amb, min}$ |
| Min. voltage                    | 80    | 80    | V     | $U_{min}$      |

## 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         |          | TMI                 |       | protectmotor     |
| Protection class         |          | IP33                |       | IPmotor          |
| Is pole-changeable       |          | No                  |       | polexch          |
| Type of power supply     |          | AC 1~               |       | pwrsupmotor      |
| Capacity capacitor       |          | 5                   | µF    | Ccond            |
| Voltage capacitor        |          | 400                 | V     | VUcond           |
| Number of poles (1)      |          | 2.000000            |       | num polesw1      |
| Rated voltage            | 230      | 230                 | V     | $U_{rated, f1}$  |
| Rated current            | 0.7      | 1.01                | A     | $I_{rated, f1}$  |
| Speed                    | 2685     | 2896                | 1/min | $n_{f1}$         |
| Starting current         | 1.67     | 1.55                | A     | $I_{start, f1}$  |
| Efficiency               | 43.2     | 36.3                | %     | $\eta_m, f1$     |
| Min. temperature         | -30      | -30                 | °C    | $T_{motor, min}$ |
| Cos Phi                  | 0.990000 | 0.990000            |       | $\cos \varphi$   |
| UL-Certification motor   |          | None                |       | ULcert           |



RS 250L 10

136398



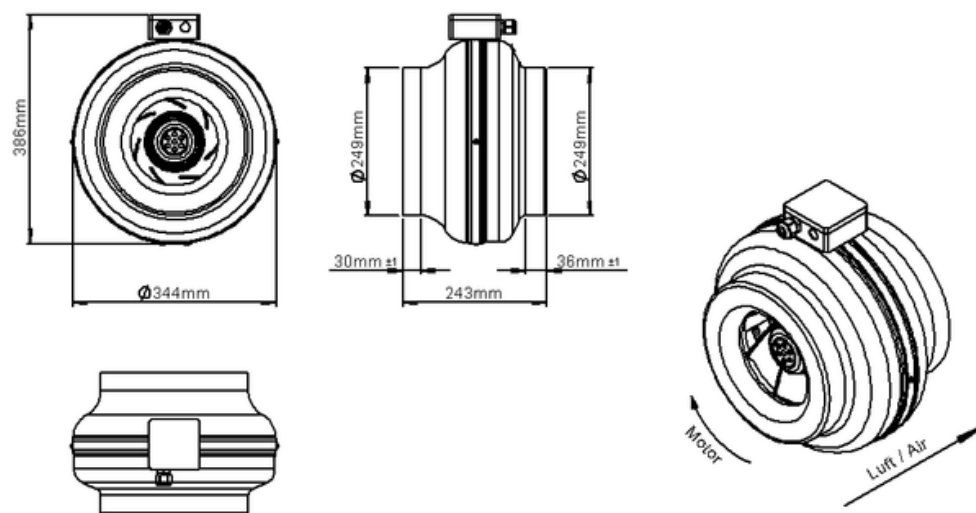
SMOKE EXTRACT DATA

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

# RS 250L 10

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## CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



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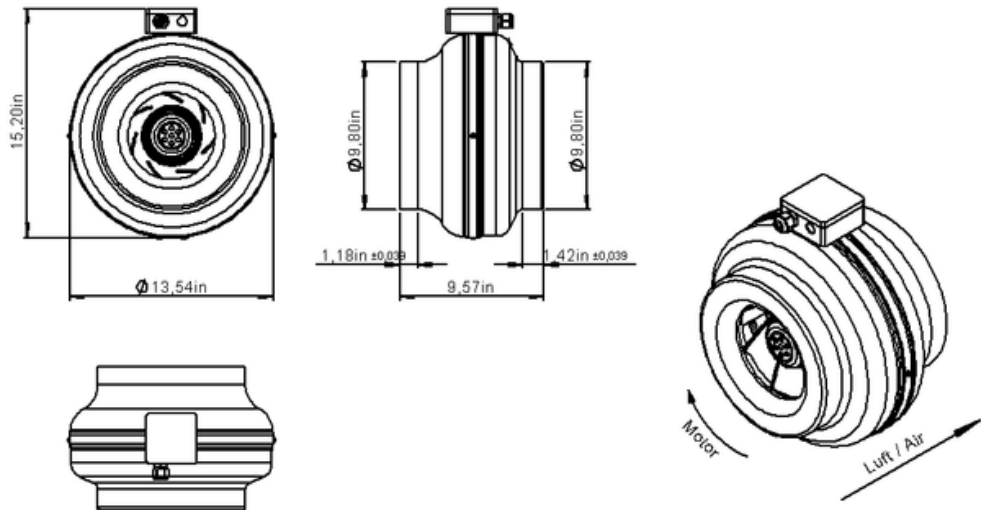


to the product detail page

# RS 250L 10

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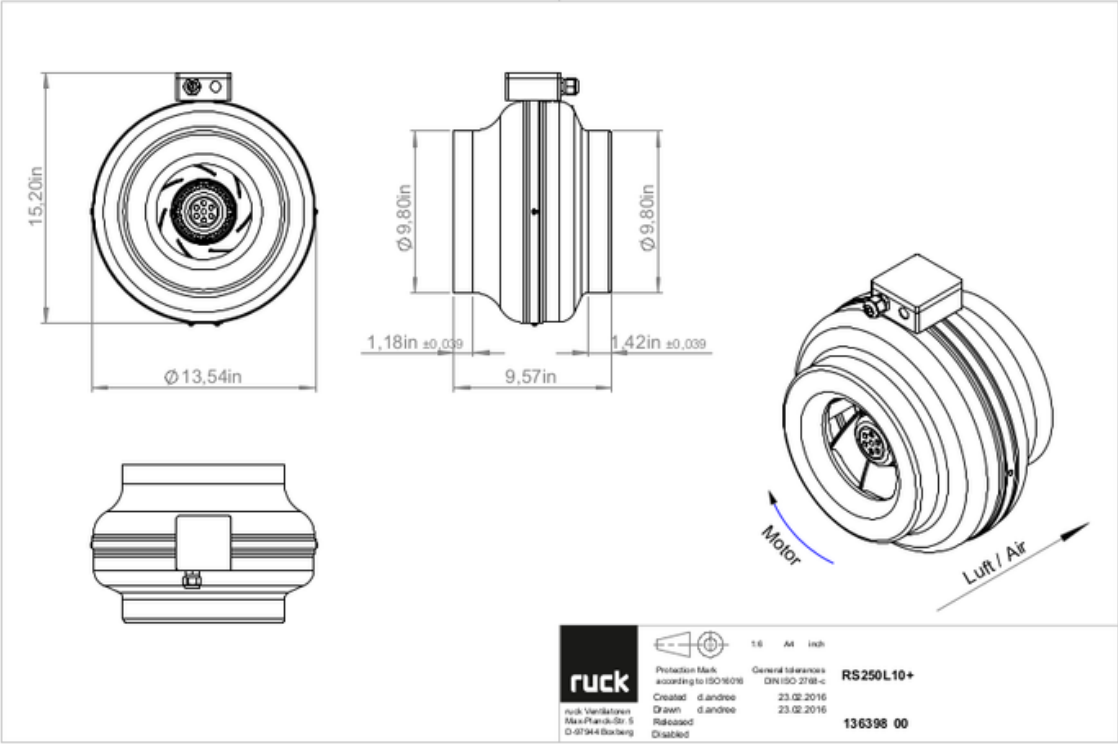
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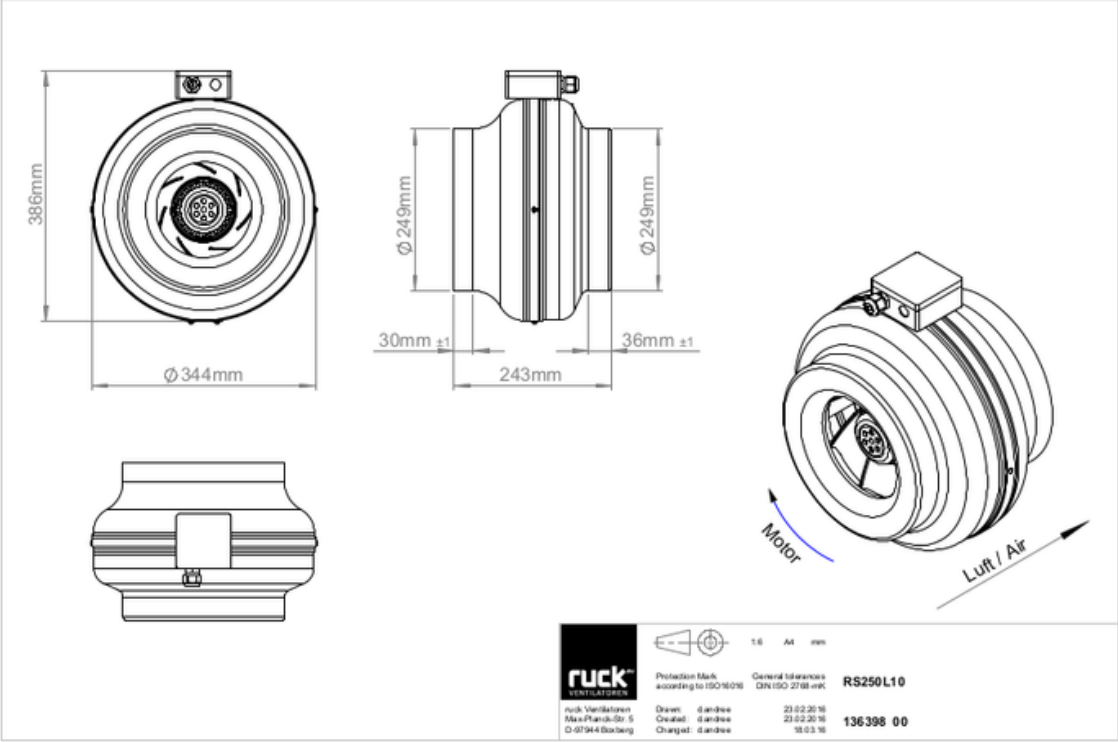
to the product detail page

# RS 250L 10

136398



**RS 250L 10**  
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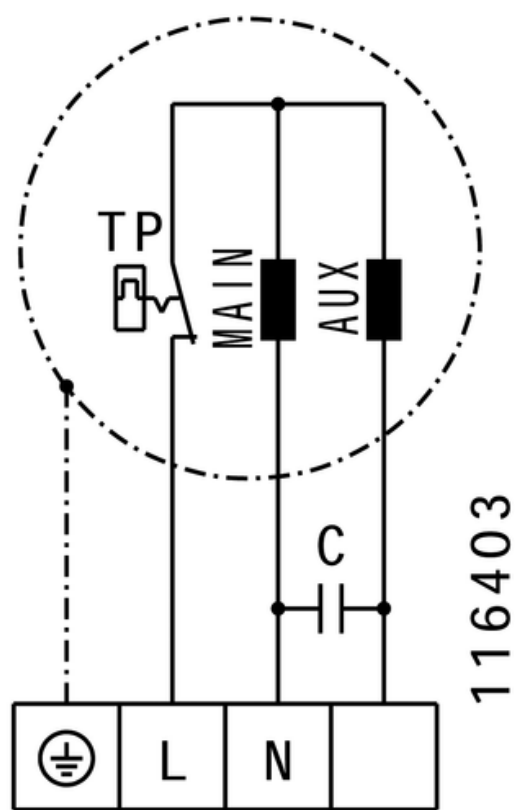


to the product detail page

# RS 250L 10

136398

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to the product detail page

## 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**



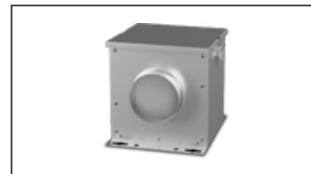
- Back draught shutter for tube fitting
- Galvanized steel sheet housing
- Aluminum flaps

**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**



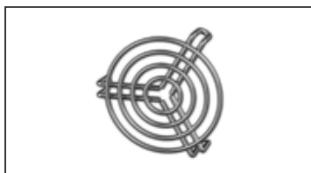
- Cold water cooler, uninsulated
- Version right
- Connection ND 250
- Galvanized steel sheet with condensate tray

**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

