

# RS 200 EC K 01

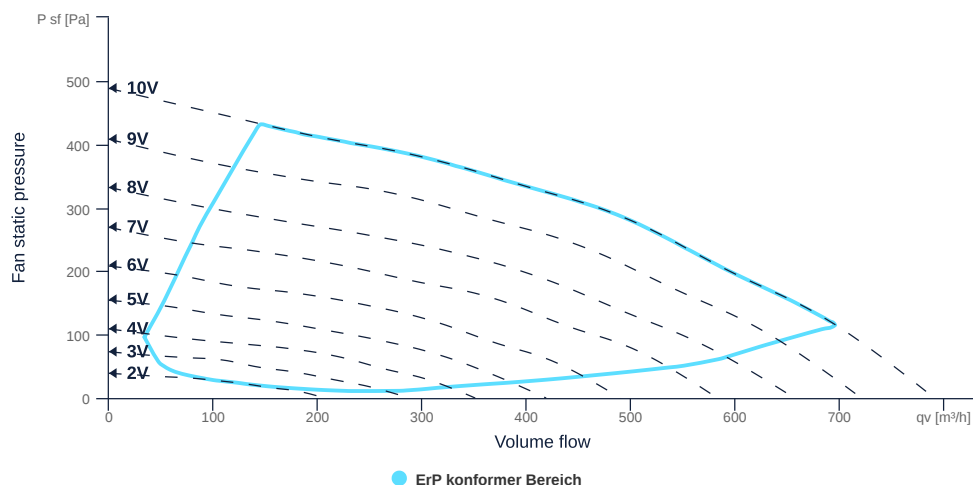
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- Compact centrifugal fan
- Backward curved impeller
- Sheet steel housing, RAL 7035, powder coated
- High efficiency EC motor, steplessly controllable
- Internal electronic temperature monitoring
- Incl. 1x potentiometer for connection in terminal box



## 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)                 | DN200    |      | 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                                    | 3.84     | kg   | m                       |
| Nominal air flow rate, nominal point m³/h | 694.8    | CmH  | q <sub>v,nom</sub>      |
| Nominal external pressure, static         | 115      | 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           | 0.19                      | CmS  | q <sub>v,nom</sub>  |
| Actual electrical input power, nominal point        | 0.08                      | kw   | P <sub>e,nom</sub>  |
| Face velocity, nominal point                        | 6.15                      | mps  | v <sub>nom</sub>    |
| Nominal external pressure, static                   | 115                       | Pa   | p <sub>s,nom</sub>  |
| static efficiency of the extract fan, nominal point | 26.71                     | p    | η <sub>es,EHA</sub> |
| Highest external air leakage rate                   | 0.13                      | p    |                     |
| Enclosure sound level, nominal point                | 58.46                     | 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) | 93    | 93    | w    | P <sub>ed, max</sub>  |
| Max. operating current (device) | 0.78  | 0.78  | A    | I <sub>ed, max</sub>  |
| Max. speed                      | 2900  | 2900  | rpm  | n <sub>max</sub>      |
| Max. stat. efficiency           | 39.6  | 39.6  | p    | η <sub>es</sub>       |
| Max. fan efficiency             | 41    | 41    | p    | η <sub>e</sub>        |
| Max. flowrate                   | 790   | 790   | CmH  | Q <sub>v, max</sub>   |
| Max. stat pressure              | 490   | 490   | Pa   | p <sub>sf, max</sub>  |
| Max. medium temperature         | 60    | 60    | °C   | T <sub>m, max</sub>   |
| Max. environment temperature    | 60    | 60    | °C   | T <sub>amb, max</sub> |
| Min. environment temperature    | -30   | -30   | °C   | T <sub>amb, min</sub> |

## MOTOR DATA

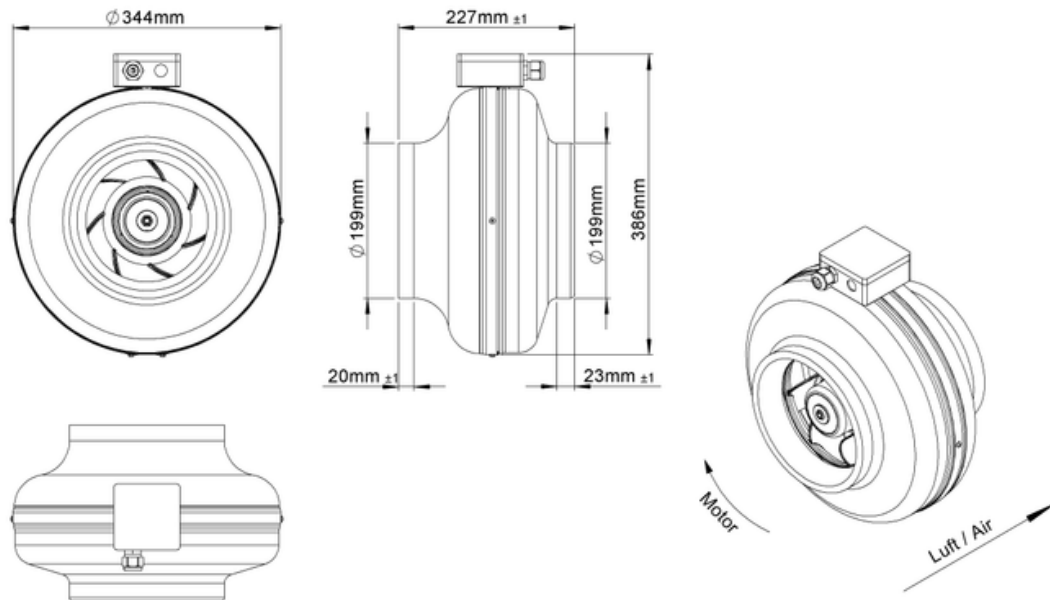
| Name                     | Value    |                     | Unit | Formula symbol                      |
|--------------------------|----------|---------------------|------|-------------------------------------|
|                          | 50 Hz    | 60 Hz               |      |                                     |
| Rated frequency (device) |          | 50                  |      | f                                   |
| Motor type               |          | EC                  |      | phase                               |
| Control type             |          | stepless-controlled |      | ctrltype                            |
| Installation type        |          | ORM (Out)           |      | install                             |
| Rotation direction       |          | right               |      | rotation                            |
| Isolation class          |          | ISO F               |      | ISOclass                            |
| Motor-protection         |          | TEC                 |      | protect <sub>motor</sub>            |
| Protection class         |          | IP54                |      | IP <sub>motor</sub>                 |
| Is pole-changeable       |          | No                  |      | polexch                             |
| Type of power supply     |          | AC 1~               |      | pwr <sub>sup</sub> <sub>motor</sub> |
| Rated voltage            | 230      | 230                 | v    | U <sub>rated, f1</sub>              |
| Rated current            | 0.89     | 0.89                | A    | I <sub>rated, f1</sub>              |
| Speed                    | 2908     | 2908                | rpm  | n <sub>f1</sub>                     |
| Efficiency               | 48.7     | 48.7                | p    | η <sub>m, f1</sub>                  |
| Min. temperature         | -30      | -30                 | °C   | T <sub>motor, min</sub>             |
| Cos Phi                  | 0.550000 | 0.550000            |      | cos φ                               |
| UL-Certification motor   |          | None                |      | UL <sub>cert</sub>                  |

## SMOKE EXTRACT DATA

| Name                  | Value | Unit | Formula symbol     |
|-----------------------|-------|------|--------------------|
| Fire resistance class | None  |      | F <sub>class</sub> |



## CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS

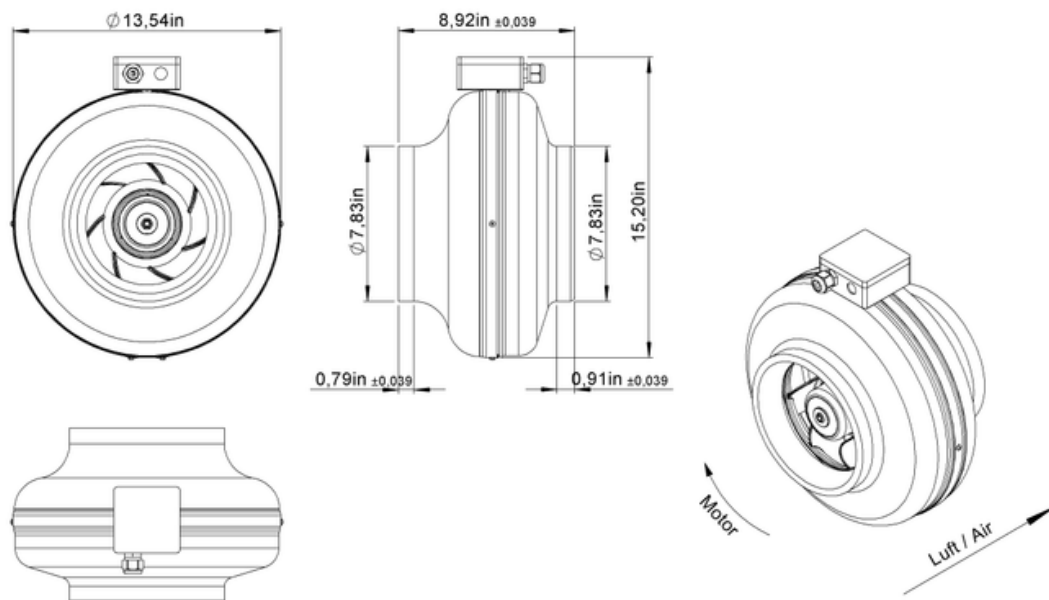


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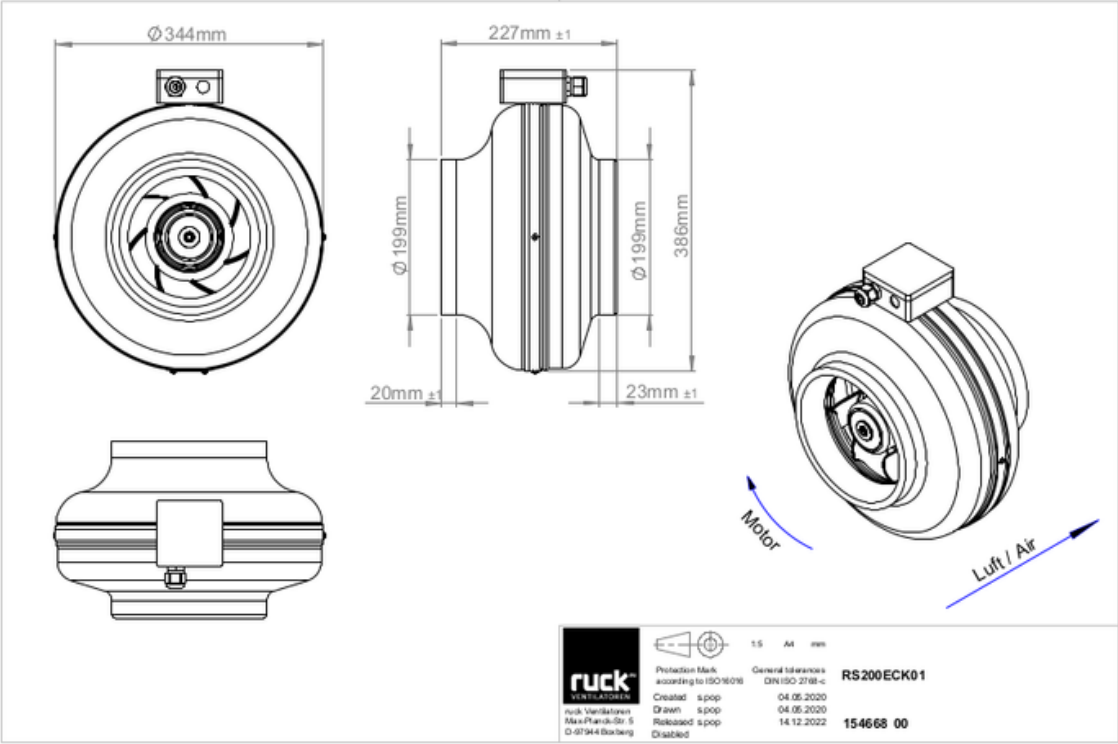
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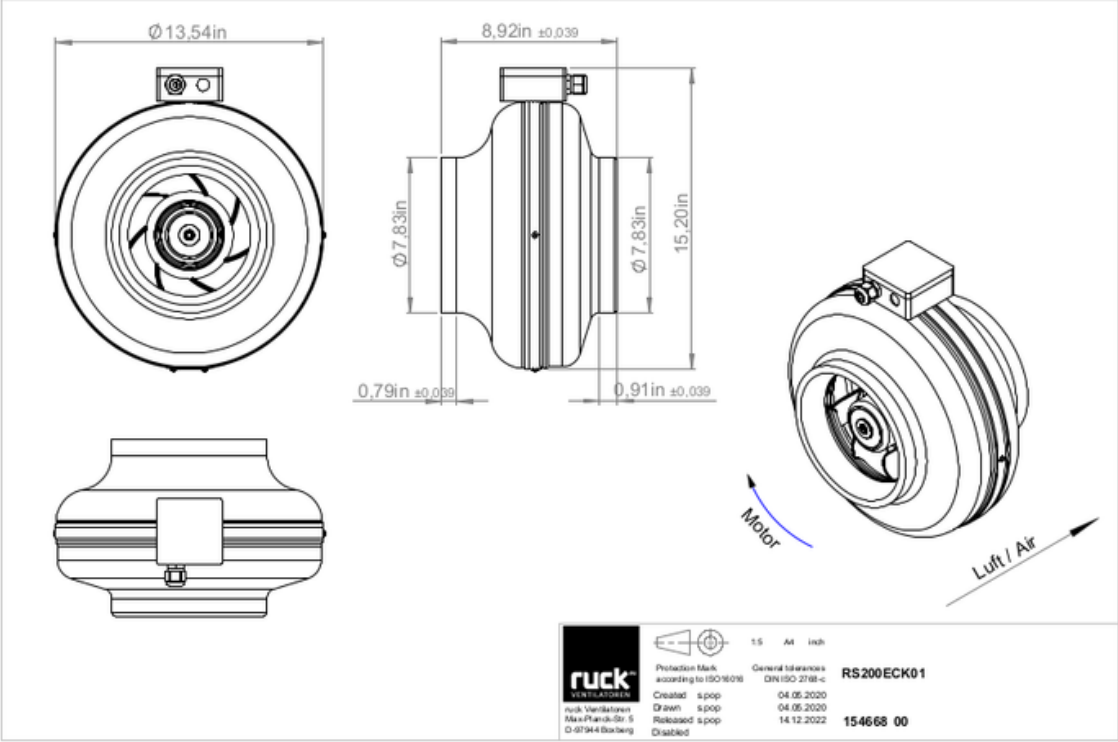
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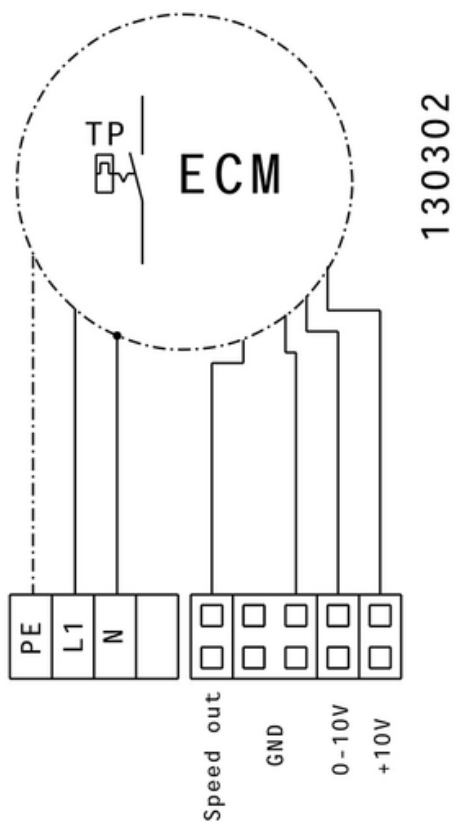
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## MECHANICAL ACCESSORIES

**VM 200 | 102650**



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

**RSK 200 | 102662**



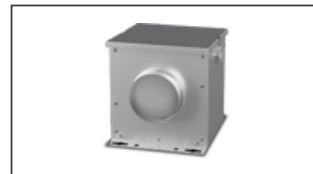
- Back draught shutter for tube fitting
- Galvanized steel sheet housing
- Aluminum flaps

**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 200 | 112832**



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

**FT 200 | 112840**



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

**FTW 200 | 112853**



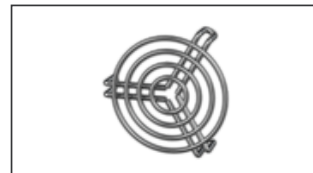
- Air filter box with pocket filter M5
- Integrated warm water heating coil
- Galvanized steel sheet housing
- Toggle-type fastener

**RSK 200D | 113487**



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

**SG 200 01 | 169589**



- Protection grille for tube connection
- Galvanized wire

**SDF 200 | 169643**



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

**SDS 200 | 169606**



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



## ELECTRICAL ACCESSORIES

**GS 03 | 107633**



- Device switch
- $U_{max} = 400\text{ V}$ ,  $I_{max} = 25\text{ A}$
- Switching capacity  $400\text{ V } 3\sim = 7,5\text{ kW}$
- Protection class IP 55

**CON P1000 | 115259**



- Constant pressure control
- Actual value display possible via optional control unit
- Output 0-10 V DC + FC enable + setpoint reached
- Pressure setting by means of decade switch

**MTP 20 | 128146**



- Potentiometer 10 k $\Omega$
- Switching contact 1A/250V AC - 2,5A/12V DC
- Max. ambient temperature 50 °C
- VDE

**MTP 30 | 143289**



- Stepped potentiometer 10 k $\Omega$
- Step 1 + 2 settable 10 % - 100 % Vdc
- Step 3 100 % Vdc
- Supply voltage +10 Vdc

**MTP 40 | 147359**



- Potentiometer 10 k $\Omega$
- Connection in terminal box
- Max. ambient temperature 50 °C
- PU: 20 pieces

**SEN AIR | 148641**



- Airflow and temperature transducer
- Measuring range temperature 0...+50 °C
- With adjustable switching threshold (air speed)
- Measuring range air velocity up to 20 m/s

**MTP 50 | 168752**



- Potentiometer with multifunction output
- 230 VAC  $\pm 10\%$  / 50-60 Hz
- Selectable output: 1-10 VDC / 2-20 mA / 10-100 % PWM
- Min. and max. output value adjustable

