

# RS 150 10

134984

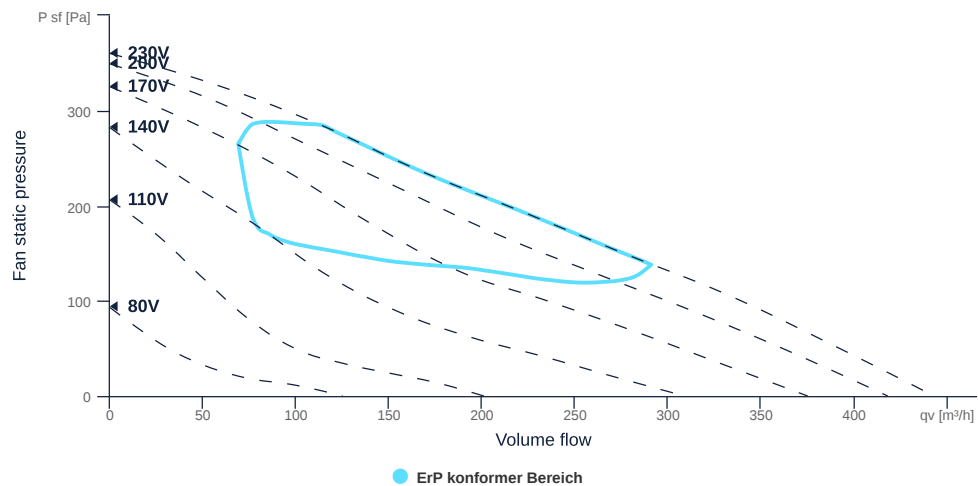
ruck

- 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

## GENERAL DATA

| Name                                      | Value    | Unit | Formula symbol          |
|-------------------------------------------|----------|------|-------------------------|
| Labeling                                  | CE, UKCA |      |                         |
| Duct size                                 | -        |      | WxH <sub>duct</sub>     |
| Pipe connection size (DN)                 | DN150    |      | 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                                    | 3.15     | kg   | m                       |
| Nominal air flow rate, nominal point m³/h | 248.4    | CmH  | qV <sub>nom</sub>       |
| Nominal external pressure, static         | 171      | 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       | 0.07                      | CmS  | QV <sub>nom</sub>    |
| Actual electrical input power, nominal point    | 0.05                      | kw   | Pe <sub>nom</sub>    |
| Face velocity, nominal point                    | 3.9                       | mps  | V <sub>nom</sub>     |
| Nominal external pressure, static               | 171                       | Pa   | p <sub>s, nom</sub>  |
| supply air fan static efficiency, nominal point | 49.9                      | p    | η <sub>es, SUP</sub> |
| Highest external air leakage rate               | 1.27                      | p    |                      |
| Enclosure sound level, nominal point            | 51                        | db   | LWA2                 |
| Rating                                          | Product is compliant 2018 |      |                      |



to the product detail page

## MAXIMAL DATA

| Name                            | Value |       | Unit | Formula symbol        |
|---------------------------------|-------|-------|------|-----------------------|
|                                 | 50 Hz | 60 Hz |      |                       |
| Max. power consumption (device) | 48    | 62    | w    | P <sub>ed, max</sub>  |
| Max. operating current (device) | 0.29  | 0.36  | A    | I <sub>ed, max</sub>  |
| Max. speed                      | 2760  | 3200  | rpm  | n <sub>max</sub>      |
| Max. stat. efficiency           | 24.1  | 22.8  | p    | η <sub>es</sub>       |
| Max. fan efficiency             | 24.8  | 23.4  | p    | η <sub>e</sub>        |
| Max. flowrate                   | 440   | 480   | CmH  | q <sub>v, max</sub>   |
| Max. stat pressure              | 360   | 480   | Pa   | p <sub>sf, max</sub>  |
| Max. medium temperature         | 70    | 70    | °C   | T <sub>m, max</sub>   |
| Max. environment temperature    | 70    | 70    | °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                   | 0.37  | 0.37  | 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         |          | TMI                 |      | 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                   | μF   | C <sub>cond</sub>                   |
| Voltage capacitor        |          | 400                 | 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            | 0.23     | 0.3                 | A    | I <sub>rated, f1</sub>              |
| Speed                    | 2373     | 2469                | rpm  | n <sub>f1</sub>                     |
| Starting current         | 0.37     | 0.37                | A    | I <sub>start, f1</sub>              |
| Efficiency               | 27.7     | 23.7                | p    | η <sub>m, f1</sub>                  |
| Min. temperature         | -30      | -30                 | °C   | T <sub>motor, min</sub>             |
| Cos Phi                  | 0.990000 | 0.990000            |      | cos φ                               |
| UL-Certification motor   |          | None                |      | ULcert                              |



RS 150 10

134984

---

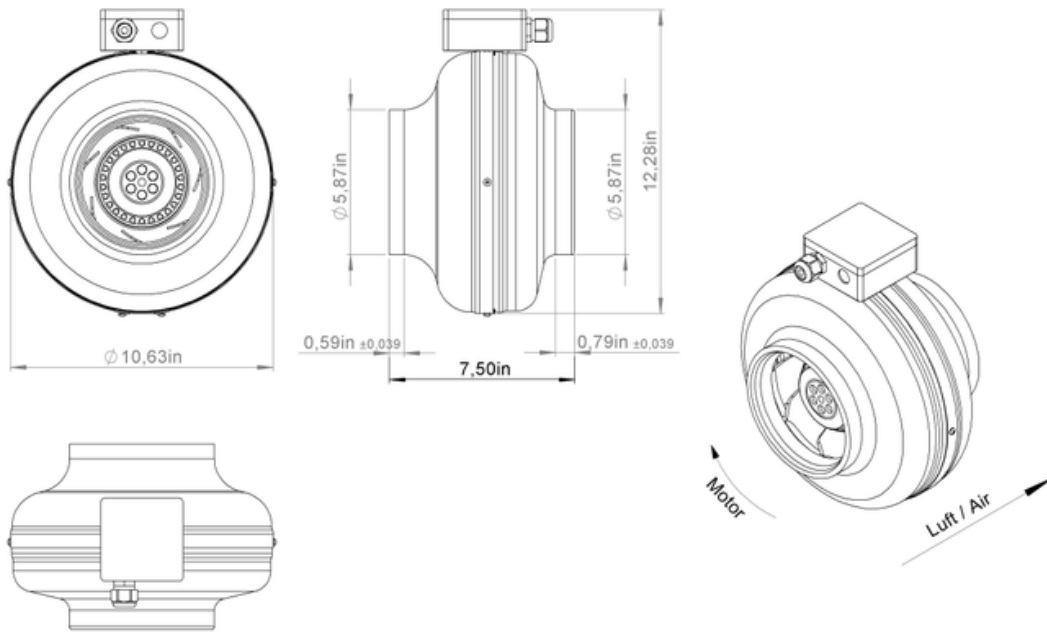


SMOKE EXTRACT DATA

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



## CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



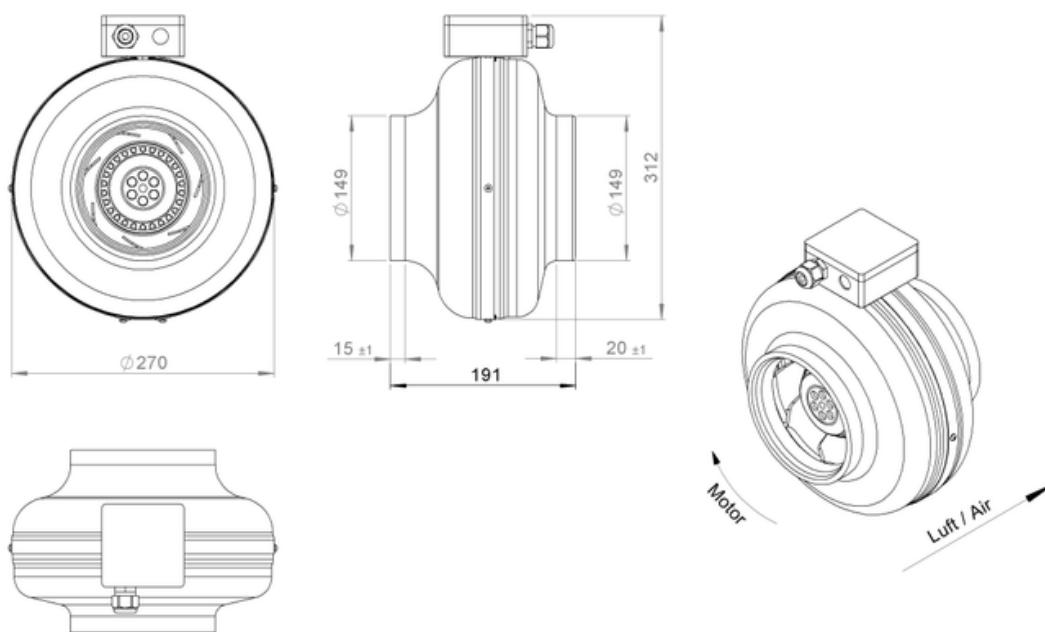
134984 00



# RS 150 10

134984

**ruck**

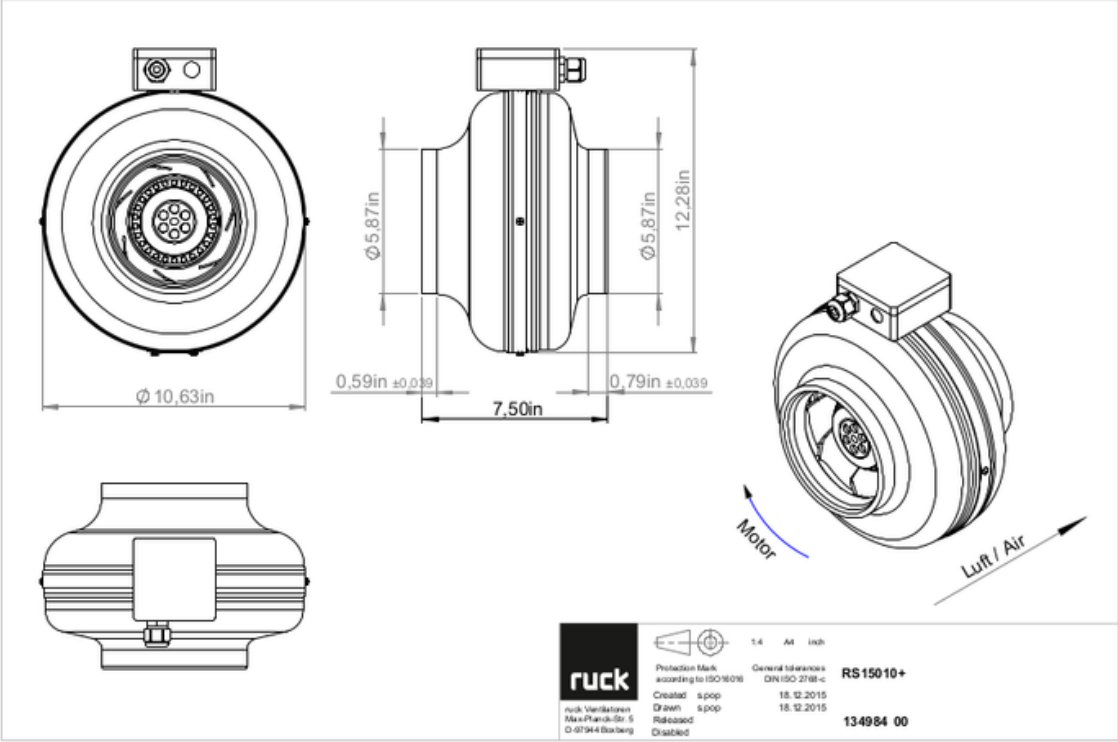


134984 00



# RS 150 10

134984

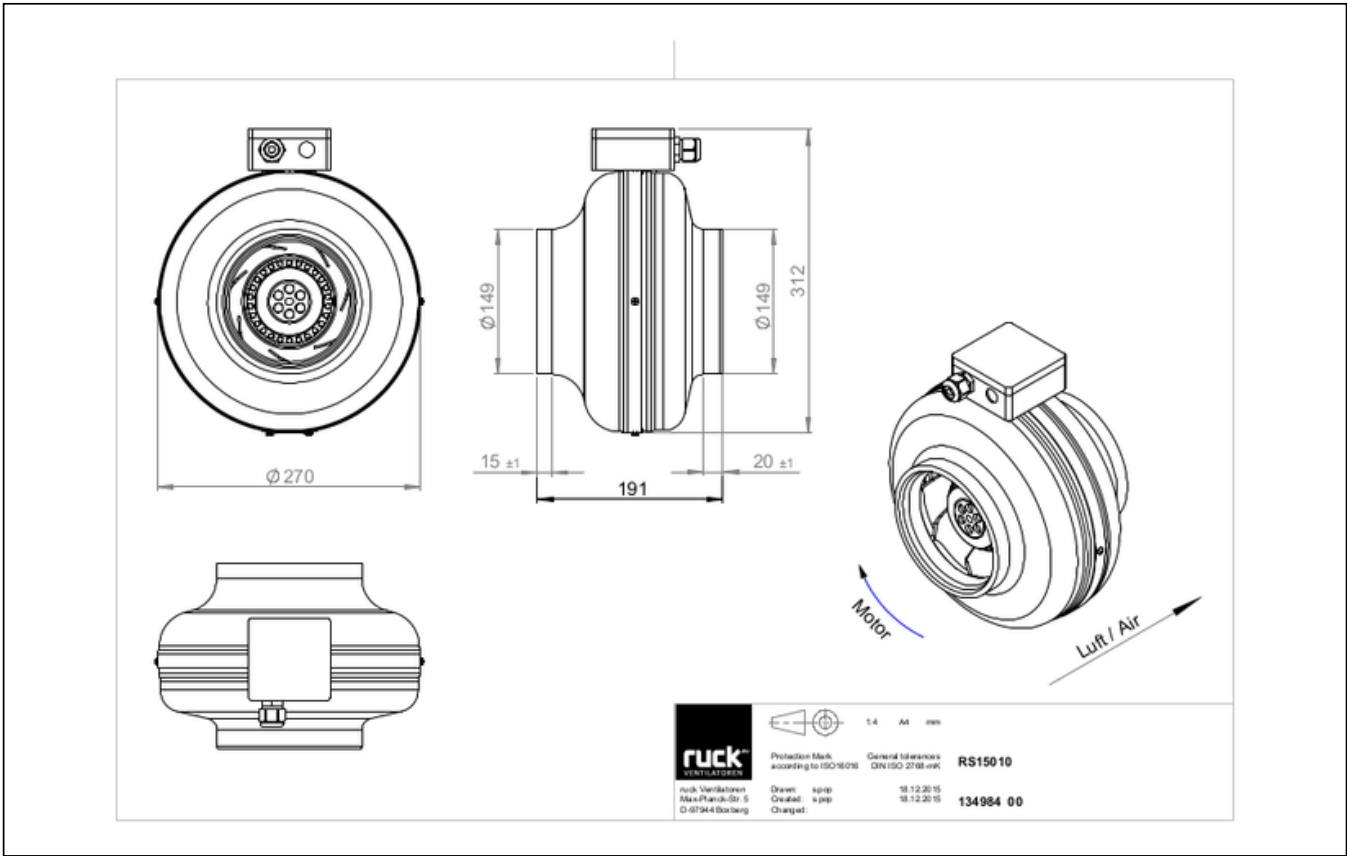


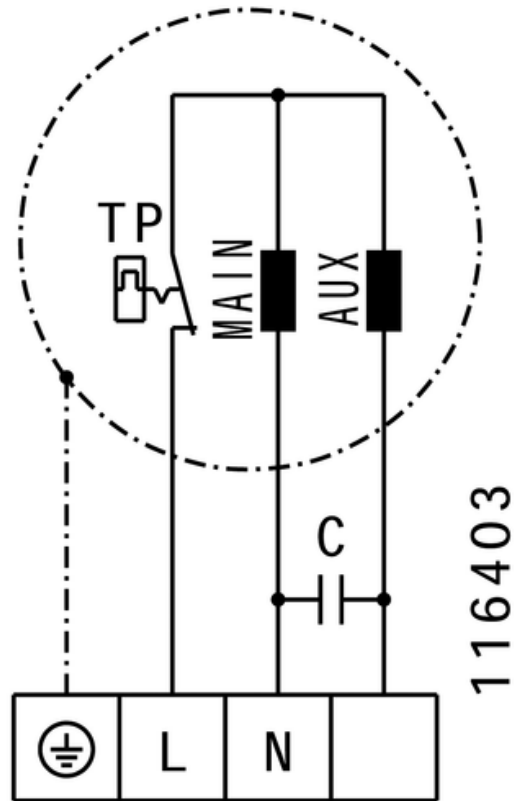
to the product detail page



# RS 150 10

134984





## MECHANICAL ACCESSORIES

**VM 150 | 102648**



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

**RSK 150 | 102660**



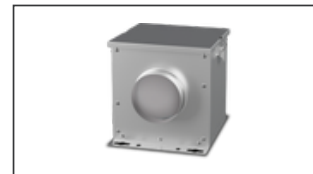
- Back draught shutter for tube fitting
- Galvanized steel sheet housing
- Aluminum flaps

**MRS 1 | 110094**



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

**FV 150 | 112680**



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

**FT 150 | 112842**



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

**FTW 150 | 112851**



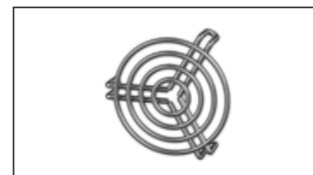
- Air filter box with pocket filter M5
- Integrated warm water heating coil
- Galvanized steel sheet housing
- Toggle-type fastener

**RSK 150D | 113484**



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

**SG 150 01 | 169590**



- Protection grille for tube connection
- Galvanized wire

**SDS 150 | 169604**



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

**SDF 150 | 169641**



- 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

