

# RS 125L 20

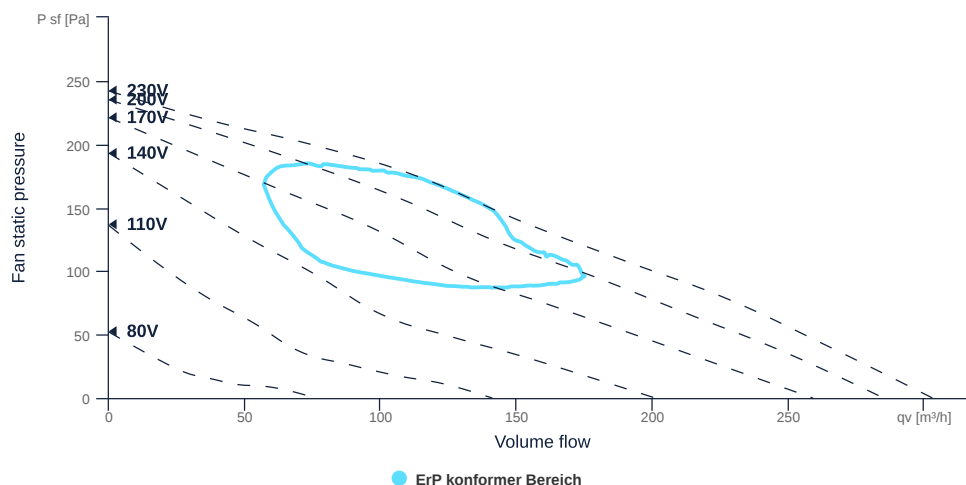
143353

- 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)                 | DN125    |      | 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                                    | 2.68     | kg   | m                       |
| Nominal air flow rate, nominal point m³/h | 176.4    | m³/h | q <sub>v,nom</sub>      |
| Nominal external pressure, static         | 96       | 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           | 0.05                      | m³/s | q <sub>v,nom</sub>  |
| Actual electrical input power, nominal point        | 0.03                      | kW   | P <sub>e,nom</sub>  |
| Face velocity, nominal point                        | 3.96                      | m/s  | V <sub>nom</sub>    |
| Nominal external pressure, static                   | 96                        | Pa   | p <sub>s,nom</sub>  |
| static efficiency of the extract fan, nominal point | 19.02                     | %    | η <sub>es,EHA</sub> |
| Highest external air leakage rate                   | 0.93                      | %    |                     |
| Enclosure sound level, nominal point                | 43.49                     | dba  | 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) | 28    | 34    | W     | P <sub>ed, max</sub>  |
| Max. operating current (device) | 0.23  | 0.26  | A     | I <sub>ed, max</sub>  |
| Max. speed                      | 2730  | 3180  | 1/min | n <sub>max</sub>      |
| Max. stat. efficiency           | 20.3  | 21.6  | %     | η <sub>es</sub>       |
| Max. fan efficiency             | 21.3  | 22.8  | %     | η <sub>e</sub>        |
| Max. flowrate                   | 300   | 340   | m³/h  | Q <sub>v, max</sub>   |
| Max. stat pressure              | 240   | 330   | 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    | -25   | -25   | °C    | T <sub>amb, min</sub> |
| Min. voltage                    | 80    | 80    | V     | U <sub>min</sub>      |
| Stall current                   | 0.27  | 0.27  | 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               |       | ISO <sub>class</sub>               |
| 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~               |       | p <sub>wsup</sub> <sub>motor</sub> |
| Capacity capacitor       |          | 1.5                 | μF    | C <sub>cond</sub>                  |
| Voltage capacitor        |          | 400                 | V     | V <sub>Ucond</sub>                 |
| Number of poles (1)      |          | 2.000000            |       | num poles <sub>w1</sub>            |
| Rated voltage            | 230      |                     | V     | U <sub>rated, f1</sub>             |
| Rated current            | 0.17     |                     | A     | I <sub>rated, f1</sub>             |
| Shaft power              | 30       |                     | W     | P <sub>out, f1</sub>               |
| Speed                    | 2673     |                     | 1/min | n <sub>f1</sub>                    |
| Min. temperature         | -30      |                     | °C    | T <sub>motor, min</sub>            |
| Cos Phi                  | 0.870000 | 0.000000            |       | cos φ                              |
| UL-Certification motor   |          | None                |       | UL <sub>cert</sub>                 |



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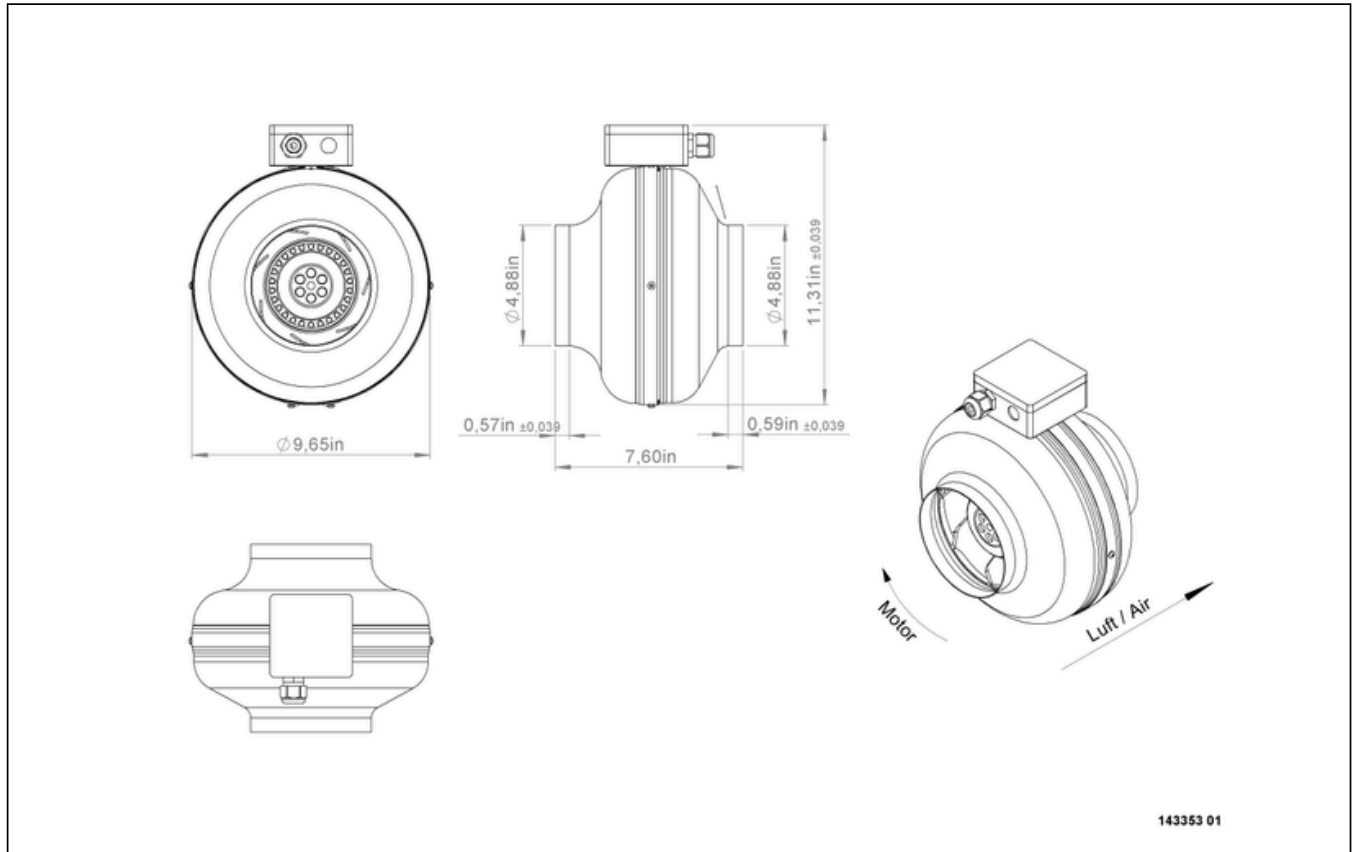
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SMOKE EXTRACT DATA

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

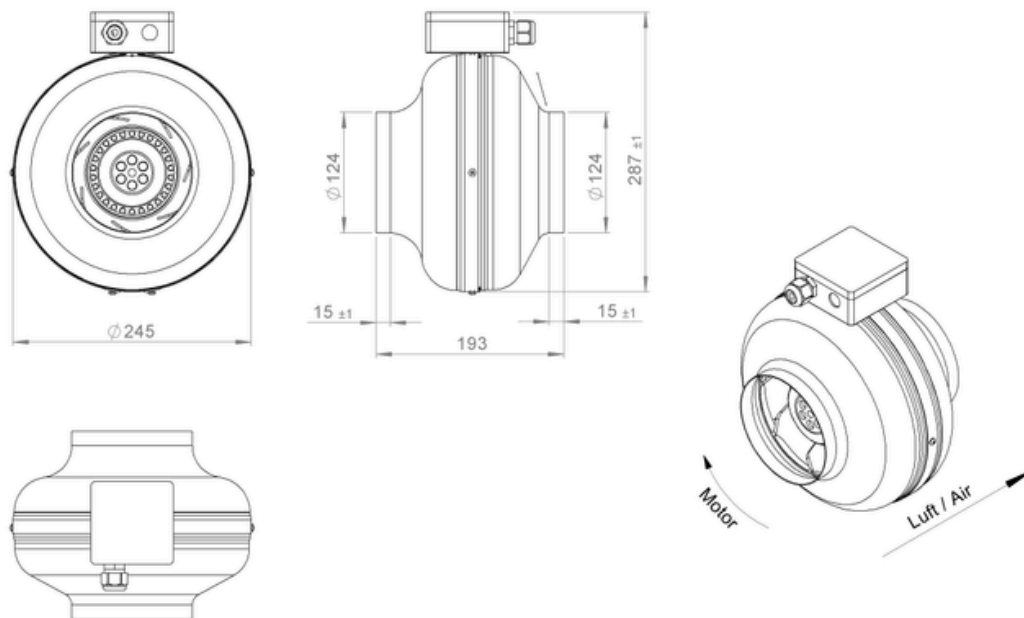
## CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



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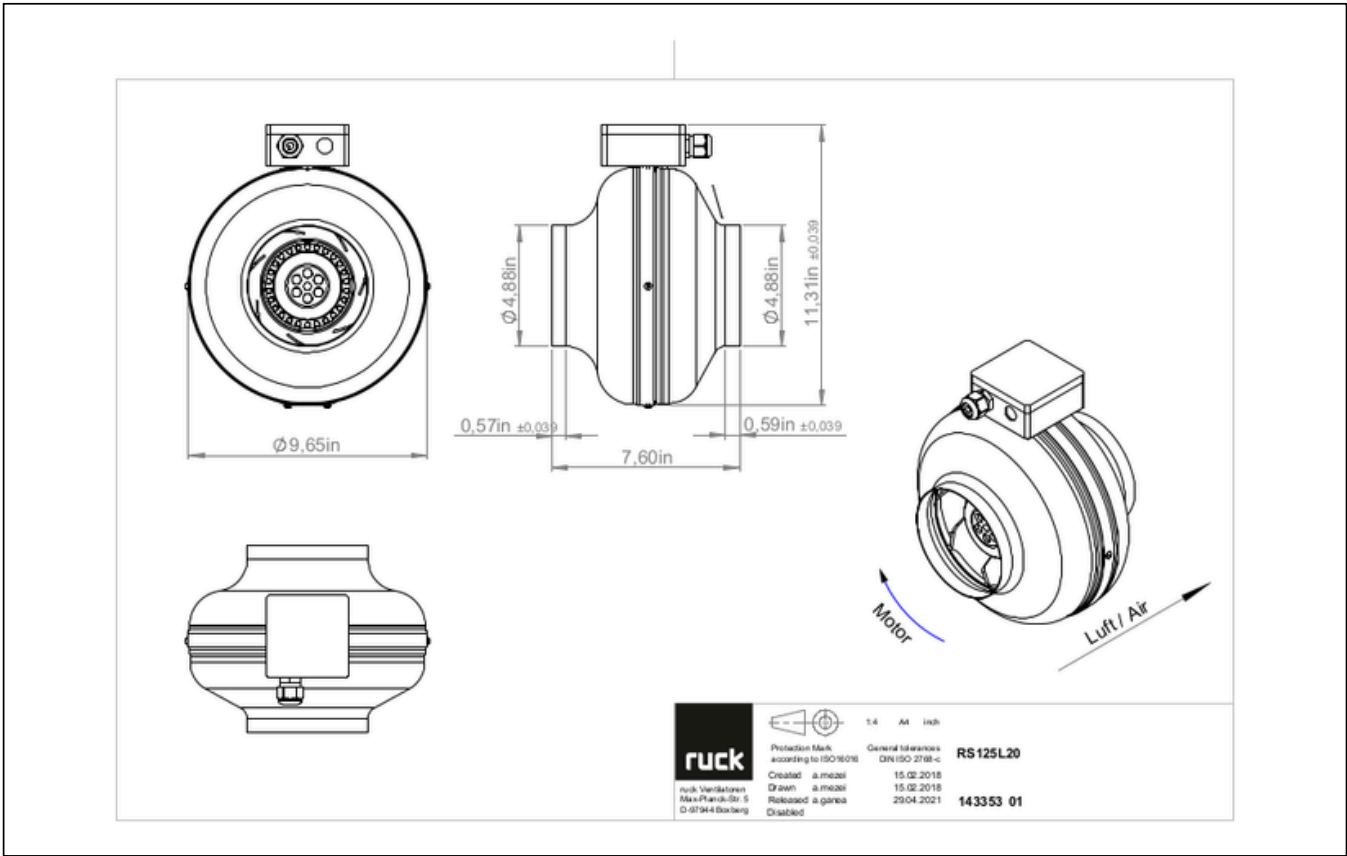


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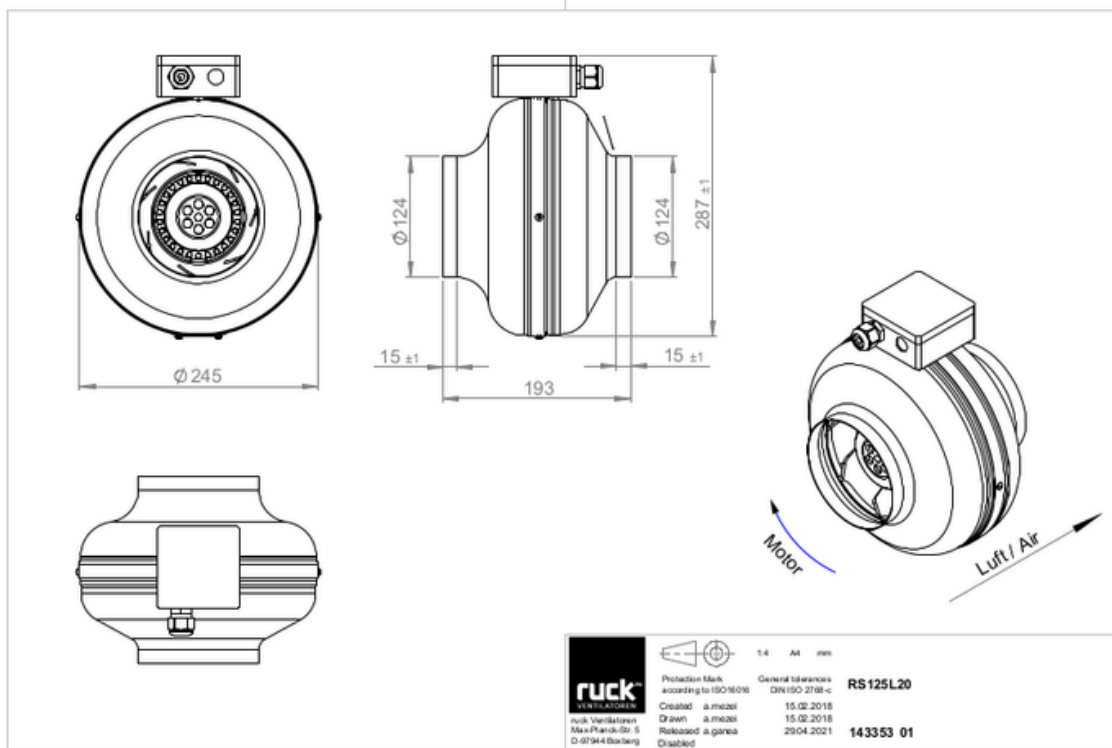
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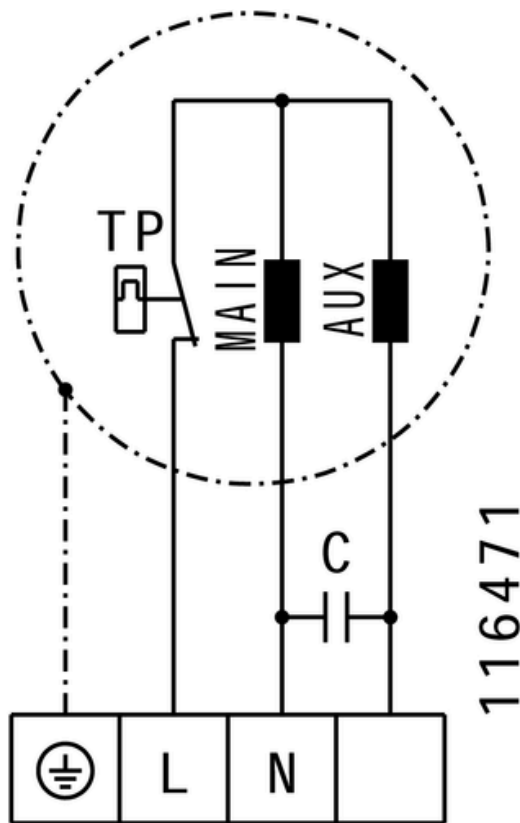
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## MECHANICAL ACCESSORIES

**RSK 125 | 102179**



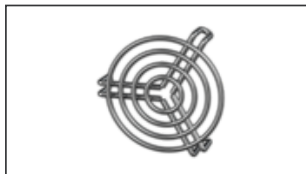
- Back draught shutter for tube fitting
- Galvanized steel sheet housing
- Aluminum flaps

**VM 125 | 102647**



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

**SG 125 01 | 102895**



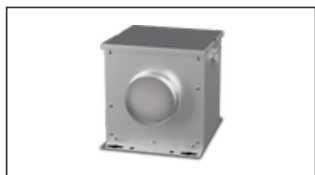
- Protection grille for tube connection
- Galvanized wire

**MRS 1 | 110094**



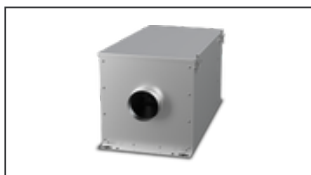
- Mounting bracket
- Galvanized steel sheet
- Includes: Mounting bracket and 2 Phillips screws (6 x 45 mm), 2 dowels (8 x 40 mm)

**FV 125 | 112679**



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

**FT 125 | 112843**



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

**FTW 125 | 112850**



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

**RSK 125D | 113483**



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

**SDS 125 | 169603**



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

**SDF 125 | 169640**



- 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

