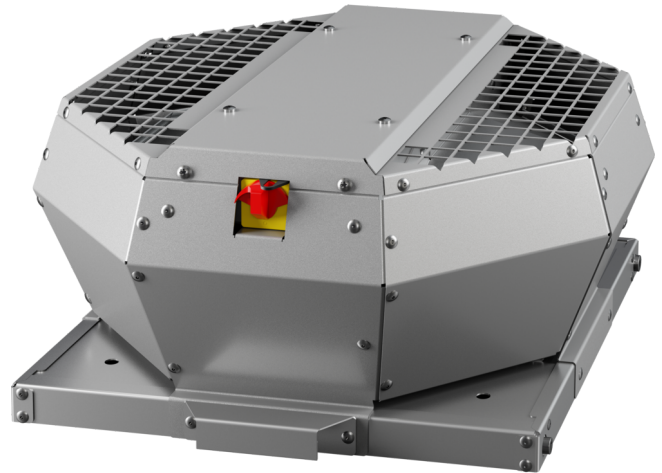


# DVA 250 ECP 41

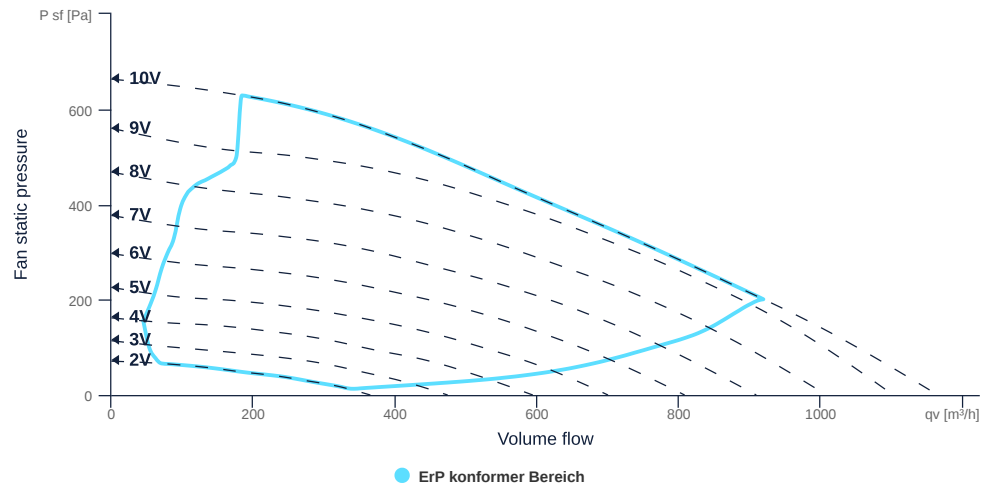
149202

- Backward curved radial impeller
- Vertical discharge
- Housing made of aluminum AlMg3
- High efficiency EC motor, steplessly controllable
- Conveyed medium temperature up to 60 °C in continuous operation
- Integrated device switch



## MAP

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



to the product detail page

# DVA 250 ECP 41

149202

ruck

## GENERAL DATA

| Name                                      | Value     | Unit | Formula symbol          |
|-------------------------------------------|-----------|------|-------------------------|
| Labeling                                  | CE, UKCA  |      |                         |
| Duct size                                 | -         |      | WxH <sub>duct</sub>     |
| Pipe connection size (DN)                 | DN180     |      | 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                          | Aluminium |      | mat <sub>casing</sub>   |
| Impeller material                         | Plastic   |      | mat <sub>impeller</sub> |
| IP-protection class (casing)              | IP44      |      | IP <sub>casing</sub>    |
| IP-protection class (entire device)       | IPX4      |      | IP <sub>compl</sub>     |
| IP-Protection class (terminal box)        | IP54      |      | IP <sub>ebox</sub>      |
| Weight                                    | 6.1       | kg   | m                       |
| Nominal air flow rate, nominal point m³/h | 615.6     | m³/h | q <sub>v,nom</sub>      |
| Nominal external pressure, static         | 407.7     | 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       | 0.17                      | 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                    | 5.1                       | m/s   | v <sub>nom</sub>    |
| Nominal external pressure, static               | 407.7                     | Pa    | p <sub>s,nom</sub>  |
| supply air fan static efficiency, nominal point | 51.5                      | %     | η <sub>es,SUP</sub> |
| Enclosure sound level, nominal point            | 79                        | dB(A) | L <sub>WA2</sub>    |
| Rating                                          | Product is compliant 2018 |       |                     |



# DVA 250 ECP 41

149202

ruck

## MAXIMAL DATA

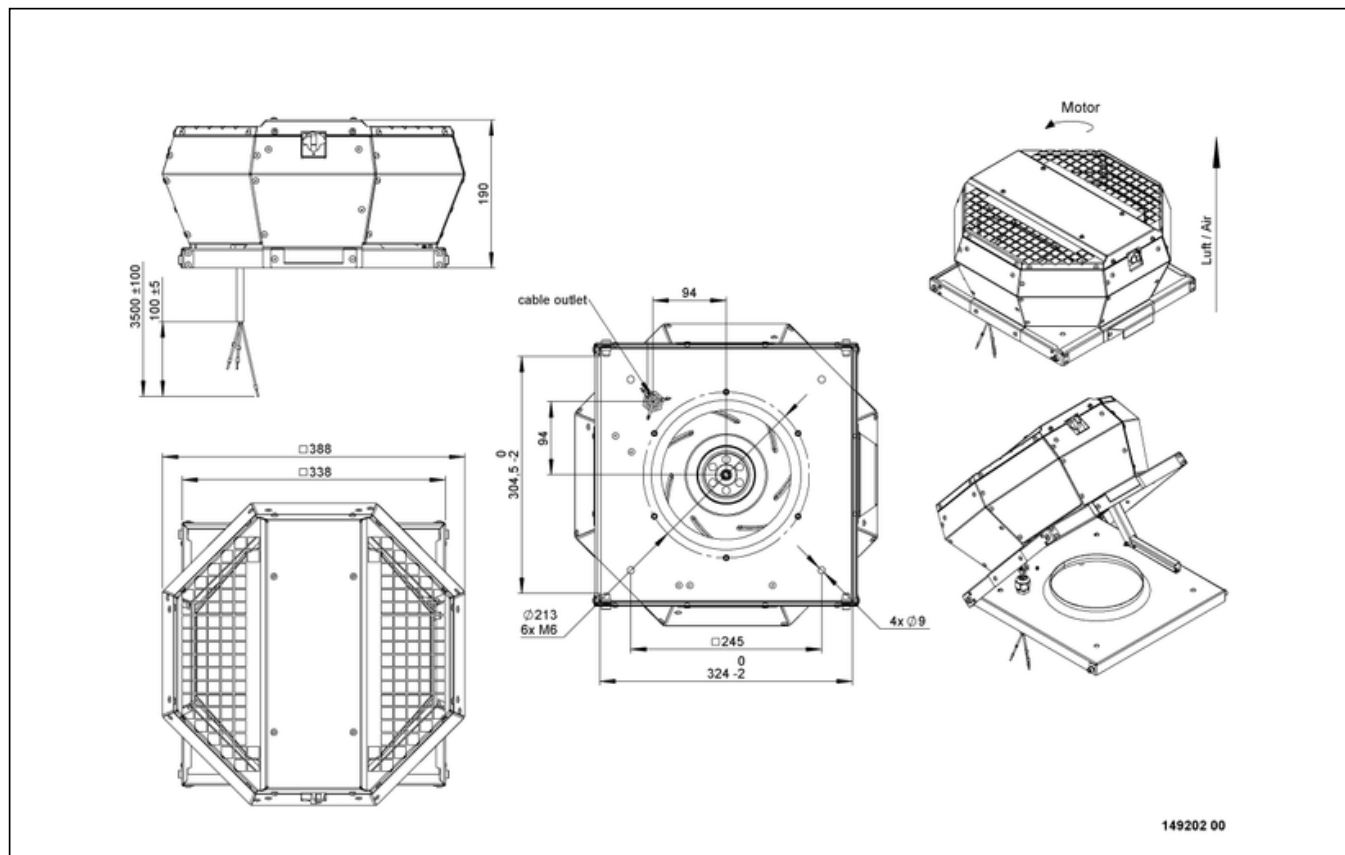
| Name                            | Value |       | Unit  | Formula symbol        |
|---------------------------------|-------|-------|-------|-----------------------|
|                                 | 50 Hz | 60 Hz |       |                       |
| Max. power consumption (device) | 167   | 167   | W     | P <sub>ed, max</sub>  |
| Max. operating current (device) | 1.41  | 1.41  | A     | I <sub>ed, max</sub>  |
| Max. speed                      | 2800  | 2800  | 1/min | n <sub>max</sub>      |
| Max. stat. efficiency           | 41.3  | 41.3  | %     | η <sub>es</sub>       |
| Max. fan efficiency             | 43.1  | 43.1  | %     | η <sub>e</sub>        |
| Max. flowrate                   | 1165  | 1165  | m³/h  | Q <sub>v, max</sub>   |
| Max. stat pressure              | 660   | 660   | 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               |       | ISO <sub>class</sub>                |
| Motor-protection         |          | TEC                 |       | protect <sub>motor</sub>            |
| Protection class         |          | IP54                |       | IP <sub>motor</sub>                 |
| Is pole-changeable       |          | No                  |       | pole <sub>exch</sub>                |
| Type of power supply     |          | AC 1~               |       | pwr <sub>sup</sub> <sub>motor</sub> |
| Rated voltage            | 230      |                     | V     | U <sub>rated, f1</sub>              |
| Rated current            | 1.2      |                     | A     | I <sub>rated, f1</sub>              |
| Shaft power              | 165      |                     | W     | P <sub>out, f1</sub>                |
| Speed                    | 2600     |                     | 1/min | n <sub>f1</sub>                     |
| Efficiency               | 46.9     |                     | %     | η <sub>m, f1</sub>                  |
| Min. temperature         | -30      |                     | °C    | T <sub>motor, min</sub>             |
| Cos Phi                  | 0.600000 | 0.000000            |       | cos φ                               |
| UL-Certification motor   |          | None                |       | UL <sub>cert</sub>                  |



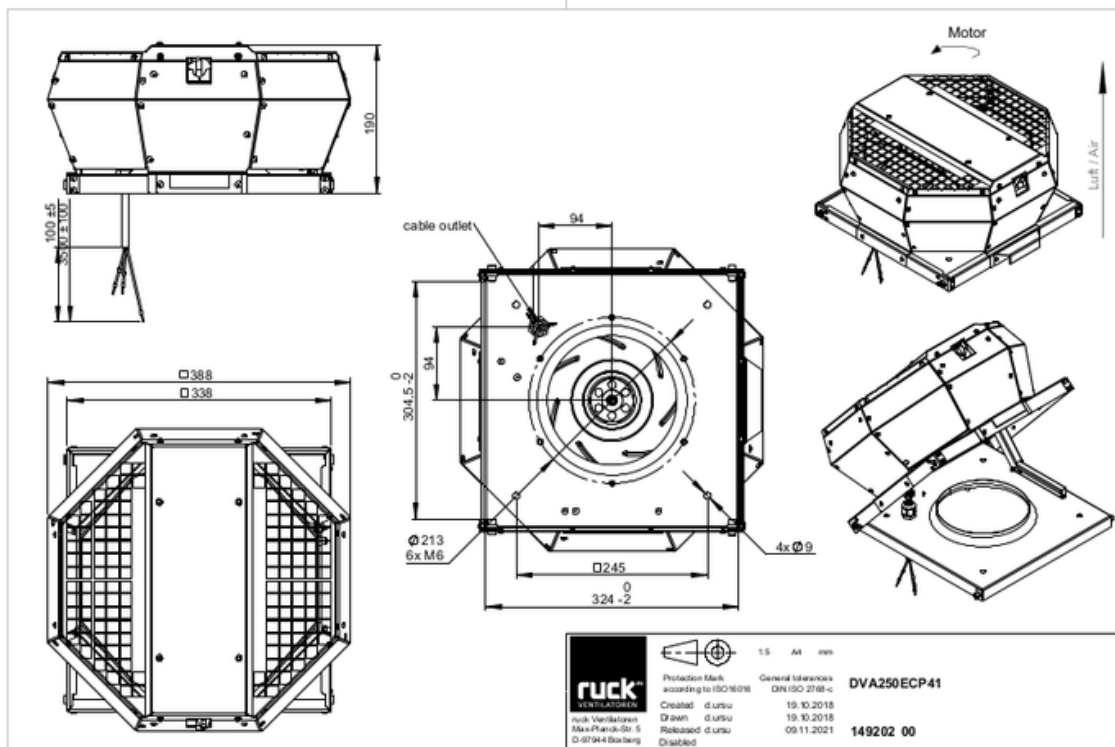
## CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



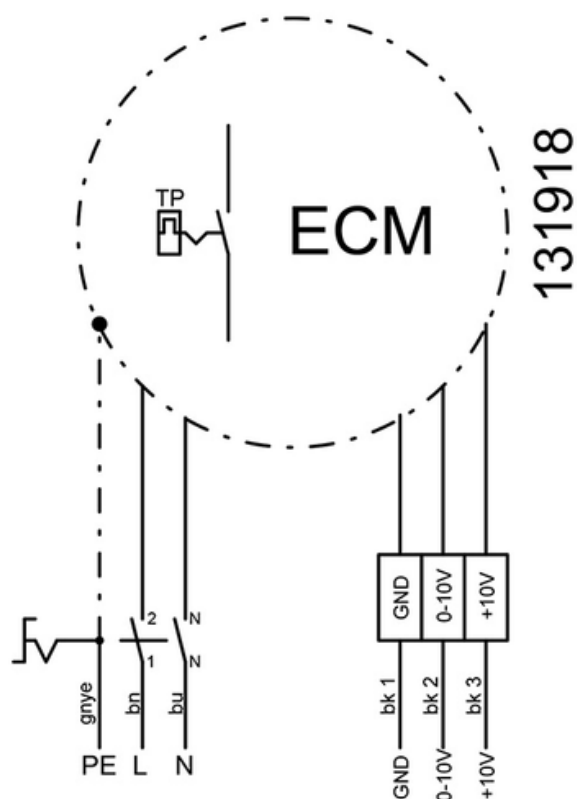
# DVA 250 ECP 41

149202

**ruck**



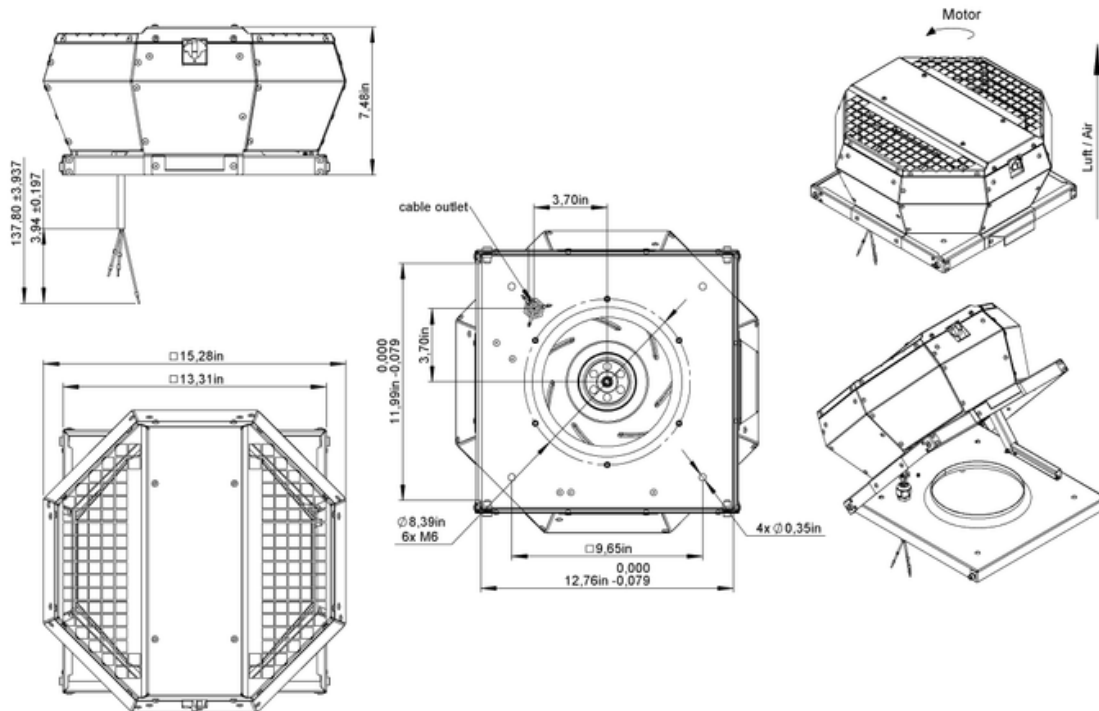
to the product detail page



# DVA 250 ECP 41

149202

ruck



149202 00

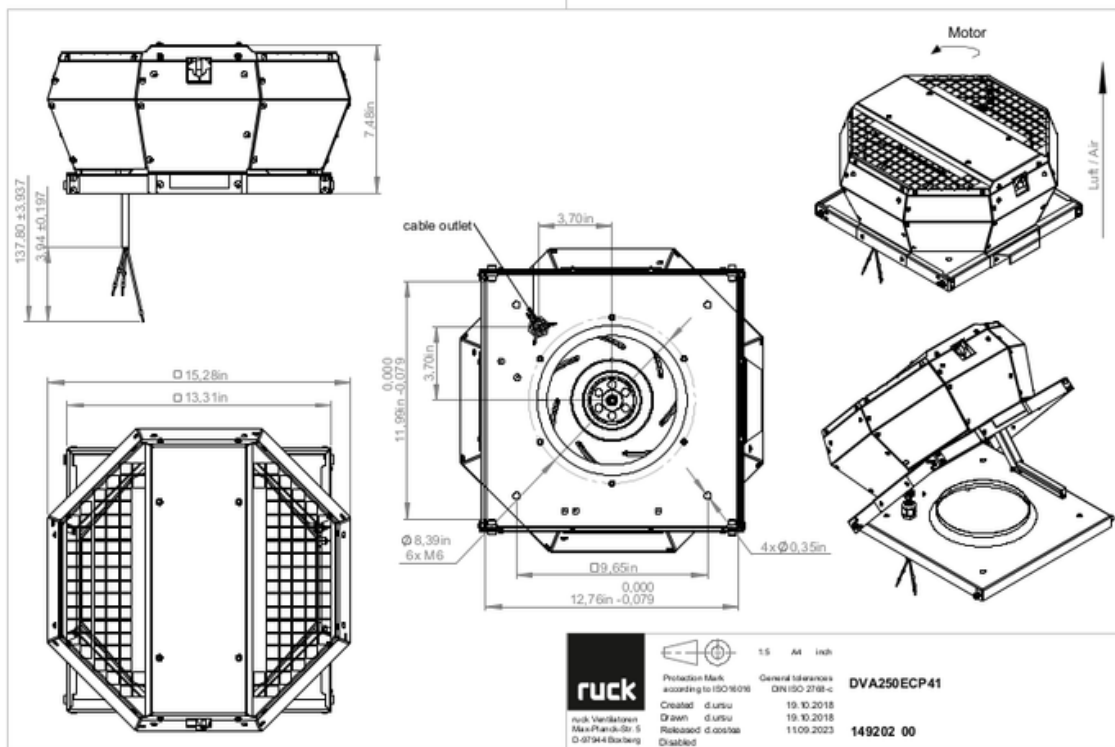


to the product detail page

# DVA 250 ECP 41

149202

**ruck**



## MECHANICAL ACCESSORIES

**DVK 180 10 | 153000**



- Automatic roof shutter
- Galvanized steel sheet

**DAF 150 | 110735**



- Roof inlet flange
- Galvanized steel sheet

**DAF 180 | 110744**



- Roof inlet flange
- Galvanized steel sheet

**DAS 180 | 110745**



- Flexible roof inlet spigot
- Temperature resistant up to 75 °C

**DAF 160 | 137396**



- Roof inlet flange
- Galvanized steel sheet

**DSF 220-10 | 126170**



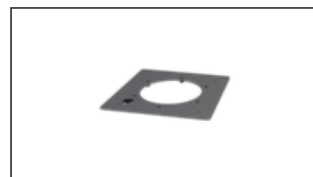
- Flat roof socket
- Made of aluminum AlMg3
- Sound and heat insulation

**DSF 220-12 | 133709**



- Sloped roof socket
- Made of aluminum AlMg3
- Sound and heat insulation
- For roof slope 3°

**DAP 220 | 133946**



- Adapter plate for roof mounting of roof fans
- Galvanized steel sheet

**DSS 220-10 | 126356**



- Flat roof socket silencer
- Made of aluminum AlMg3
- Sound and heat insulation

**DSS 220-12 | 134283**



- Sloped roof socket silencer
- Made of aluminum AlMg3
- Sound and heat insulation
- For roof slope 3°



to the product detail page

## ELECTRICAL ACCESSORIES

### 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

### 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 50 | 153133



- 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



to the product detail page