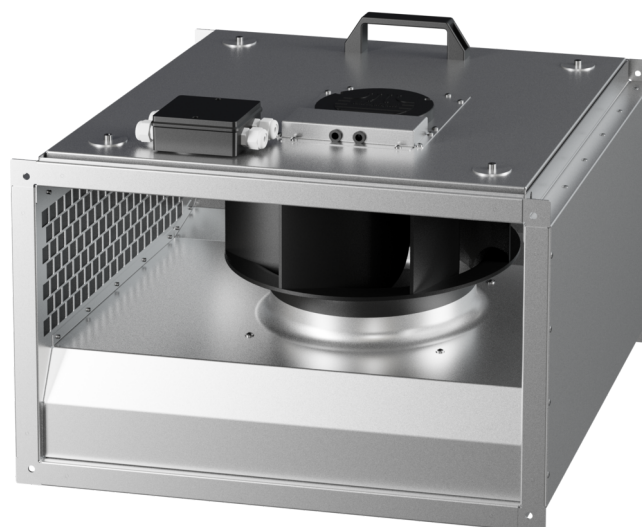


# KVRI 10050 EC 30

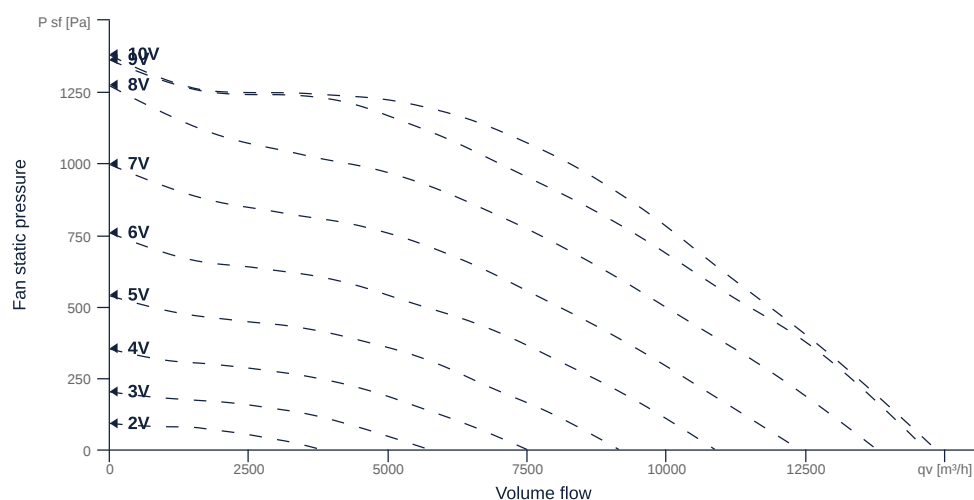
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- Backward curved centrifugal impeller
- Swing out fan unit
- Galvanized sheet steel housing, double-walled, 25 mm mineral wool
- High efficiency EC motor, steplessly controllable
- Conveyed medium temperature up to 60 °C in continuous operation



## 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                                 | 1000x500         |      | WxH <sub>duct</sub>     |
| Pipe connection size (DN)                 | -                |      | DN                      |
| Rated voltage (entire device)             | 400              | v    | U <sub>rated</sub>      |
| Phases (entire device)                    | 3~               |      | phase                   |
| Electrical protection (entire device)     | 6 A              |      | fuse                    |
| Housing material                          | Galvanized steel |      | mat <sub>casing</sub>   |
| Impeller material                         | Plastic          |      | mat <sub>impeller</sub> |
| Weight                                    | 87               | kg   | m                       |
| Nominal air flow rate, nominal point m³/h | 8672.4           | CmH  | q <sub>v,nom</sub>      |
| Nominal external pressure, static         | 949.7            | 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       | 2.41                      | CmS  | q <sub>v,nom</sub>  |
| Actual electrical input power, nominal point    | 3.45                      | kw   | P <sub>e,nom</sub>  |
| Face velocity, nominal point                    | 4.8                       | mps  | v <sub>nom</sub>    |
| Nominal external pressure, static               | 949.7                     | Pa   | p <sub>s,nom</sub>  |
| supply air fan static efficiency, nominal point | 65.5                      | p    | η <sub>es,SUP</sub> |
| Enclosure sound level, nominal point            | 80                        | db   | LWA2                |
| Rating                                          | Product is compliant 2018 |      |                     |

## MAXIMAL DATA

| Name                            | Value |       | Unit | Formula symbol        |
|---------------------------------|-------|-------|------|-----------------------|
|                                 | 50 Hz | 60 Hz |      |                       |
| Max. power consumption (device) | 3455  | 3455  | w    | P <sub>ed, max</sub>  |
| Max. operating current (device) | 5.33  | 5.33  | A    | I <sub>ed, max</sub>  |
| Max. speed                      | 1800  | 1800  | rpm  | n <sub>max</sub>      |
| Max. stat. efficiency           | 61.9  | 61.9  | p    | η <sub>es</sub>       |
| Max. fan efficiency             | 62.8  | 62.8  | p    | η <sub>e</sub>        |
| Max. flowrate                   | 14830 | 14830 | CmH  | q <sub>v, max</sub>   |
| Max. stat pressure              | 1380  | 1380  | 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> |



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## 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                 |      | protectmotor   |
| Protection class         |       | IP55                |      | IPmotor        |
| Is pole-changeable       |       | No                  |      | polexch        |
| Type of power supply     |       | AC 3~               |      | pwrsupmotor    |
| Rated voltage            | 400   | 400                 | v    | Urated, f1     |
| Rated current            | 5.4   | 5.4                 | A    | Irated, f1     |
| Nominal power            | 3500  | 3500                | w    | Pa             |
| Speed                    | 1750  | 1750                | rpm  | nf1            |
| Min. temperature         | -40   | -40                 | °C   | Tmotor, min    |
| UL-Certification motor   |       | UL recognized       |      | ULcert         |

## SMOKE EXTRACT DATA

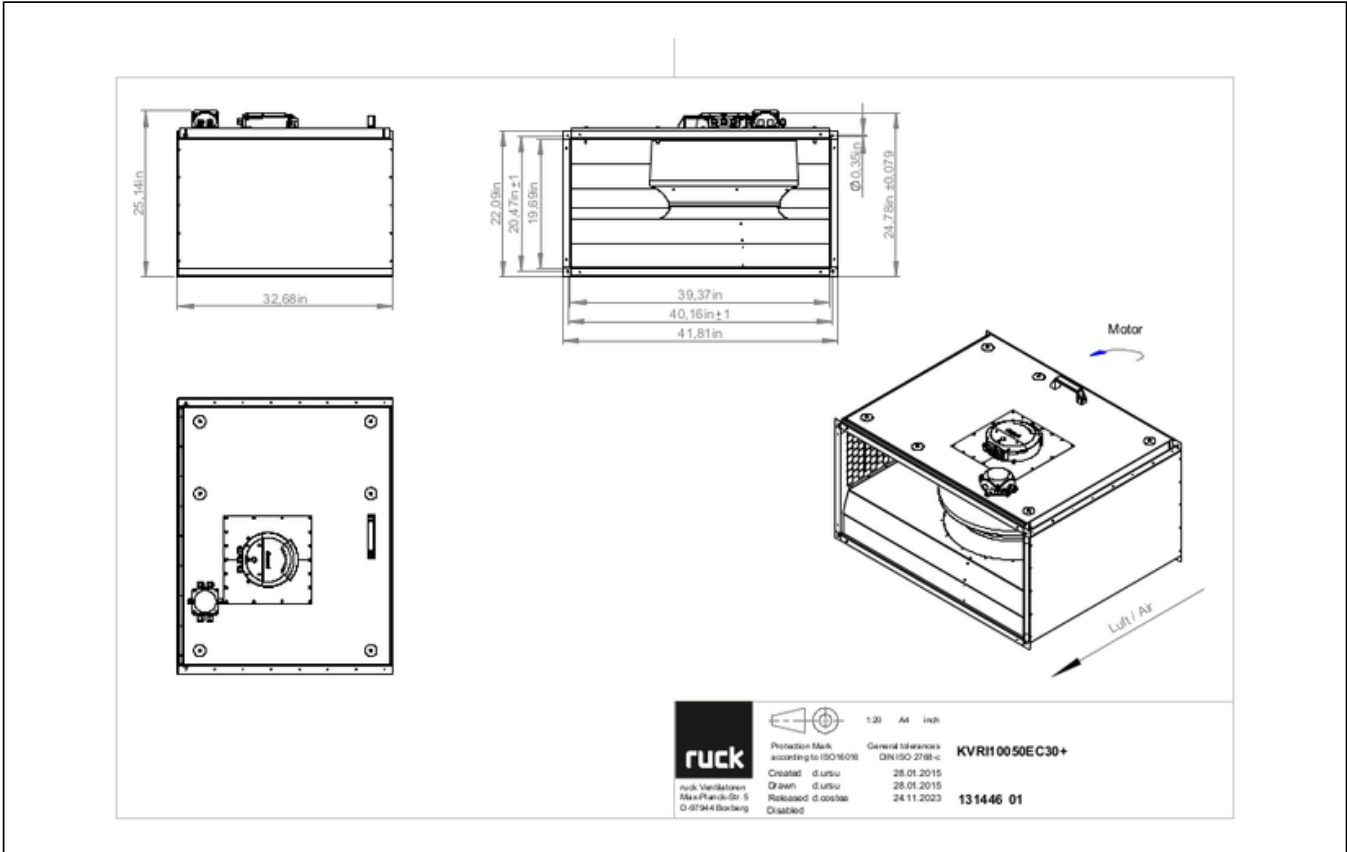
| Name                  | Value | Unit | Formula symbol |
|-----------------------|-------|------|----------------|
| Fire resistance class | None  |      | Fclass         |

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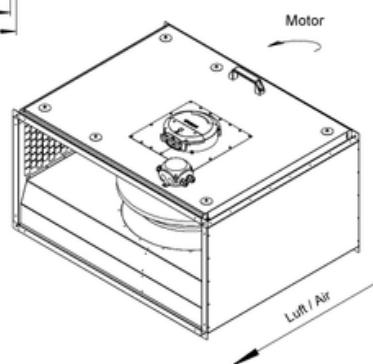
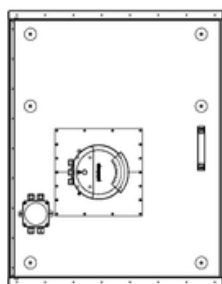
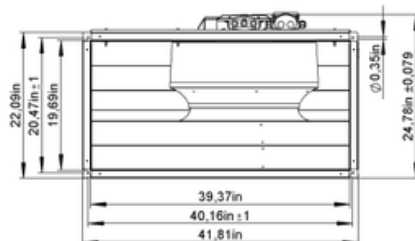
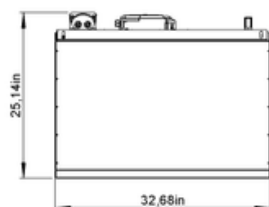
## CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



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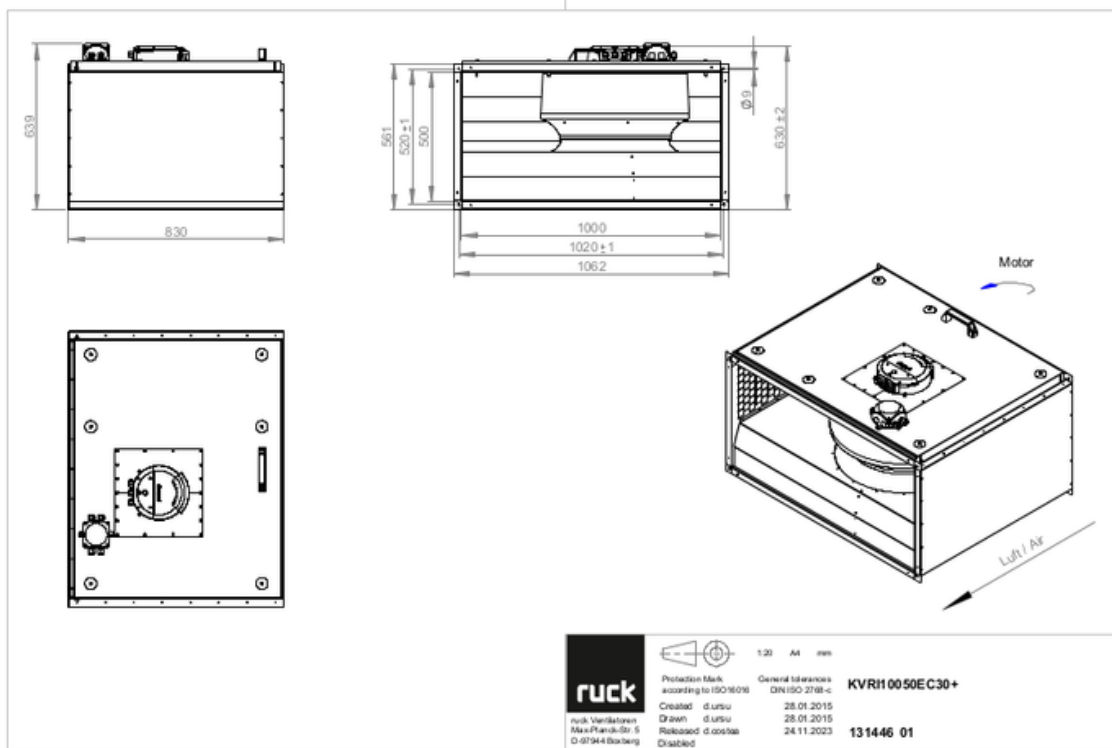


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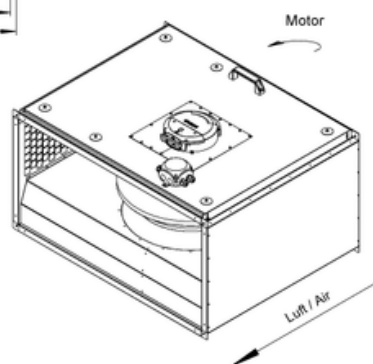
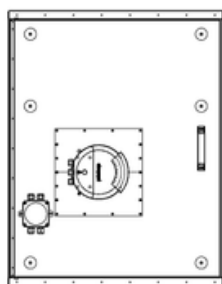
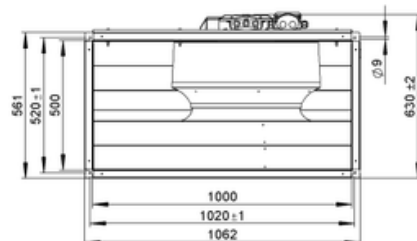
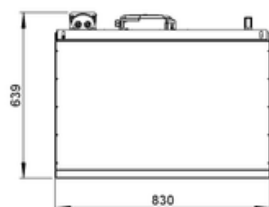
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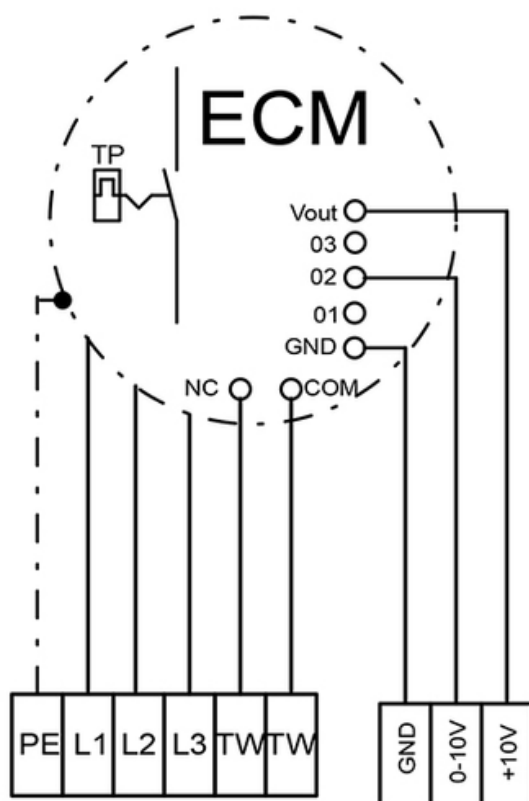
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# KVRI 10050 EC 30

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## MECHANICAL ACCESSORIES

VKK 10050 | 169687



- Automatic shutter
- Plastic, weather resistant
- Temperature resistant up to 70 °C

VS 10050 | 172499



- Duct connector, flexible
- Standard profile flange P30
- Galvanized steel sheet, plastic band (PVC)
- Temperature resistant up to 70 °C



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## 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

### 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

