

# EL 250 E2M 01

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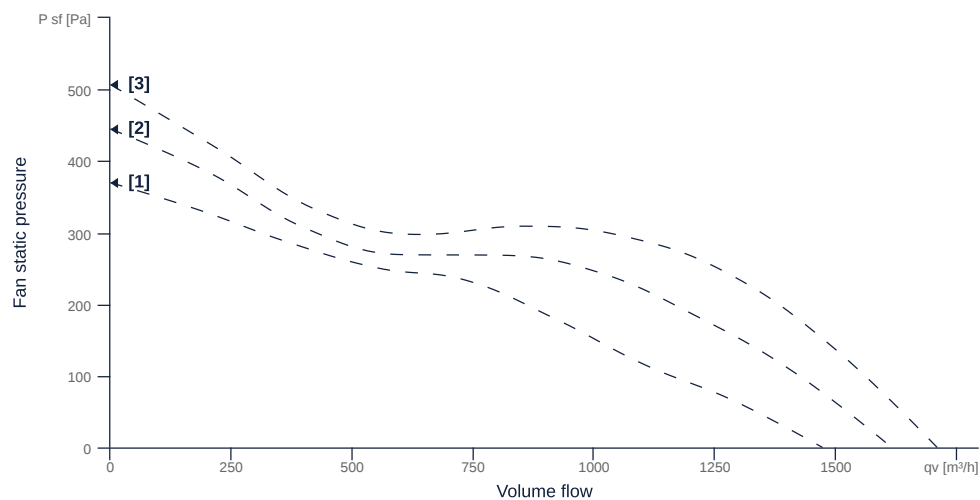
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- Innovative, high-efficiency diagonal fan
- Optimally tuned, CFD-optimized aerodynamics
- The benchmark for efficiency since 2007
- Robust AC motor, 3-steps controllable
- Conveyed medium temperature up to 50 °C in continuous operation
- Housing made of galvanized steel sheet



## 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)             | DN250            |      | 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                      | Galvanized steel |      | mat <sub>casing</sub>   |
| Impeller material                     | Plastic          |      | mat <sub>impeller</sub> |
| IP-protection class (entire device)   | IPX4             |      | IP <sub>compl</sub>     |
| Weight                                | 7.2              | kg   | m                       |
| Fan type                              | Diagonal         |      | Fan <sub>type</sub>     |
| Category / Installation situation     | A                |      | cat                     |

## MAXIMAL DATA

| Name                            | Value | Unit  | Formula symbol        |
|---------------------------------|-------|-------|-----------------------|
| Max. power consumption (device) | 180   | W     | P <sub>ed, max</sub>  |
| Max. operating current (device) | 0.82  | A     | I <sub>ed, max</sub>  |
| Max. speed                      | 2930  | 1/min | n <sub>max</sub>      |
| Max. stat. efficiency           | 49    | %     | η <sub>es</sub>       |
| Max. fan efficiency             | 53    | %     | η <sub>e</sub>        |
| Max. flowrate                   | 1710  | m³/h  | Q <sub>v, max</sub>   |
| Max. stat pressure              | 510   | Pa    | p <sub>sf, max</sub>  |
| Max. medium temperature         | 50    | °C    | T <sub>m, max</sub>   |
| Max. environment temperature    | 50    | °C    | T <sub>amb, max</sub> |
| Min. environment temperature    | -25   | °C    | T <sub>amb, min</sub> |
| Min. voltage                    | 230   | V     | U <sub>min</sub>      |



## MOTOR DATA

| Name                     | Value |                 | Unit | Formula symbol |
|--------------------------|-------|-----------------|------|----------------|
|                          | 50 Hz | 60 Hz           |      |                |
| Rated frequency (device) |       | 50              |      | f              |
| Motor type               |       | AC 1~           |      | phase          |
| Control type             |       | step-controlled |      | ctrltype       |
| Installation type        |       | IRM (In)        |      | install        |
| Rotation direction       |       | right           |      | rotation       |
| Isolation class          |       | ISO F           |      | ISOclass       |
| Motor-protection         |       | TAI             |      | protectmotor   |
| Protection class         |       | IP00            |      | IPmotor        |
| Is pole-changeable       |       | No              |      | polexch        |
| Type of power supply     |       | AC 1~           |      | pwrsupmotor    |
| Capacity capacitor       |       | 6               | μF   | Ccond          |
| Voltage capacitor        |       | 450             | V    | VUcond         |
| Number of poles (1)      |       | 2.000000        |      | num polesw1    |
| Rated voltage            | 230   |                 | V    | Urated, f1     |
| Rated current            | 1.05  |                 | A    | Irated, f1     |
| UL-Certification motor   |       | None            |      | ULcert         |

## ERP DATA (LOT11)

| Name                                                      | Value    | Unit  | Formula symbol      |
|-----------------------------------------------------------|----------|-------|---------------------|
| Speed at the energy efficiency optimum                    | 2865     | 1/min | n <sub>opt</sub>    |
| Efficiency level                                          | 49.9     | %     | N                   |
| Efficiency category                                       | statisch |       | catefficiency       |
| Input power of the motor at the energy efficiency optimum | 0.17     | kW    | P <sub>e, opt</sub> |
| Overall efficiency                                        | 68.5     | %     | η <sub>ges</sub>    |
| Measurement category                                      | A        |       | meas cat            |
| Fan pressure at energy efficiency optimum                 | 295      | Pa    | p <sub>f, opt</sub> |
| Flowrate at energy efficiency optimum                     | 1101     | m³/h  | Q <sub>v, opt</sub> |

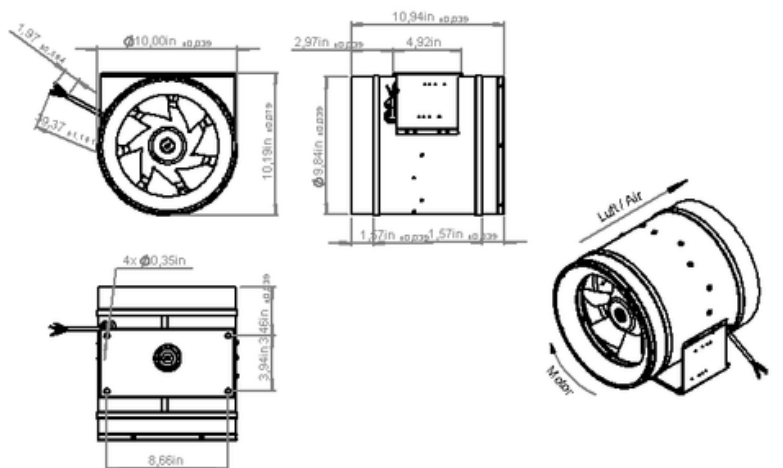
## SMOKE EXTRACT DATA

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



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## CIRCUIT DIAGRAMS / DIMENSIONAL DRAWINGS



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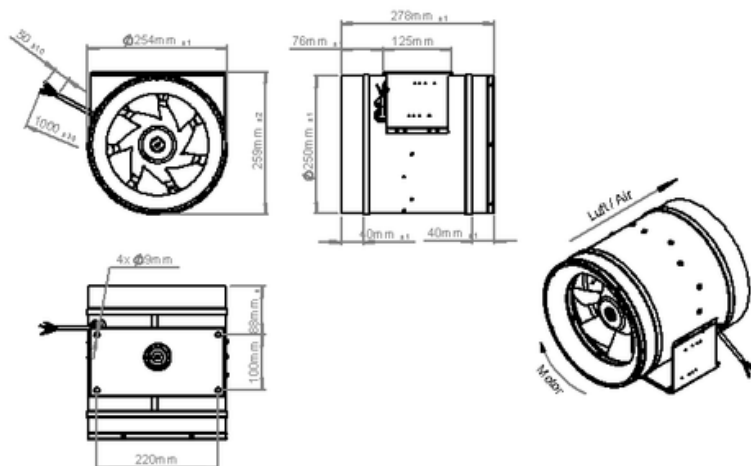


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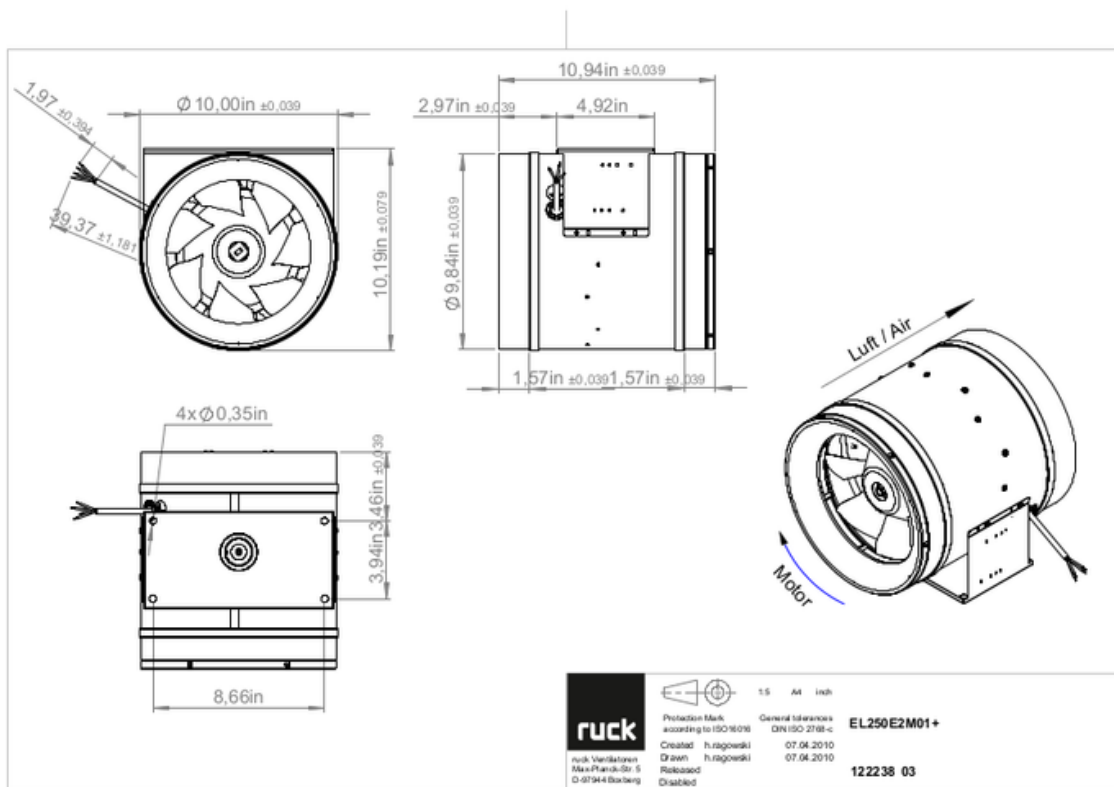


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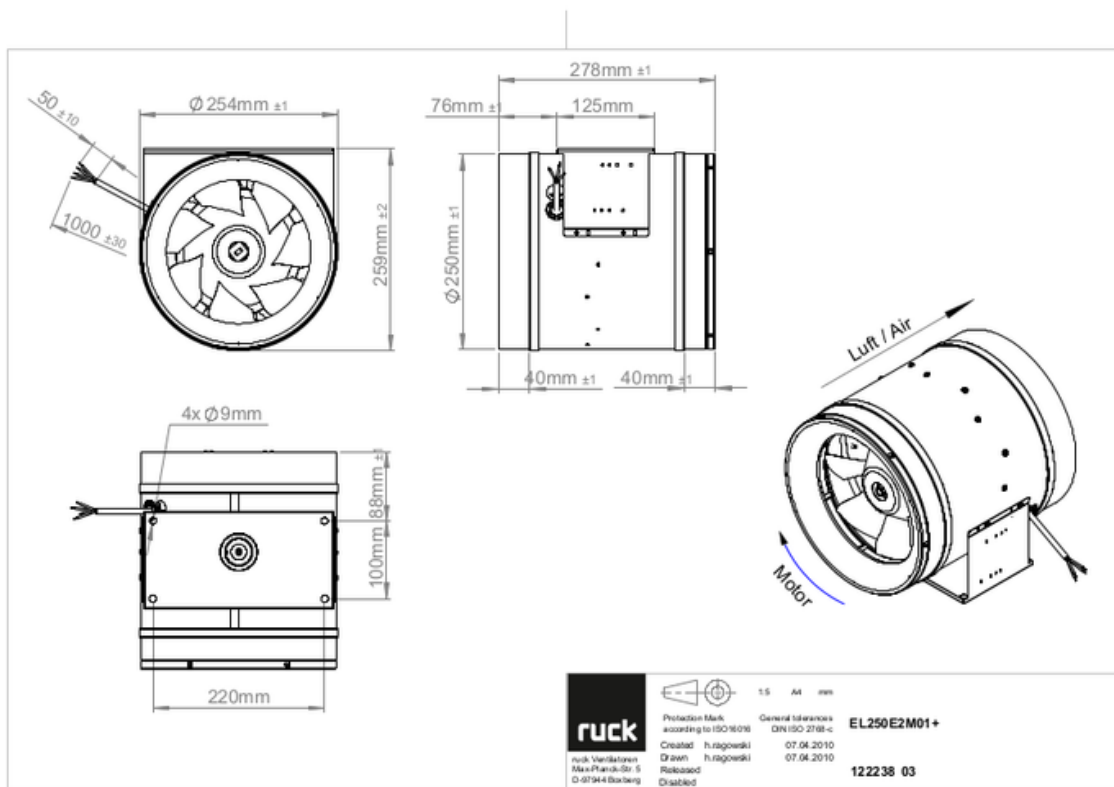
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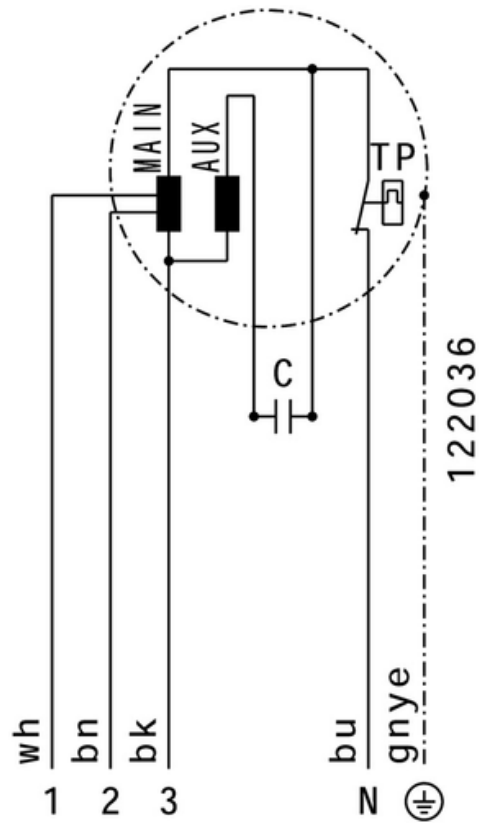
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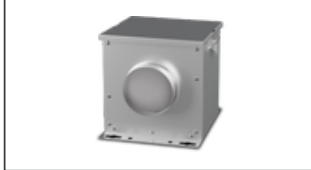
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## MECHANICAL ACCESSORIES

**FV 250 | 112833**



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

**FT 250 | 112845**



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

**FTW 250 | 112854**



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

**RSK 250D | 113488**



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

**VM 250 | 102651**



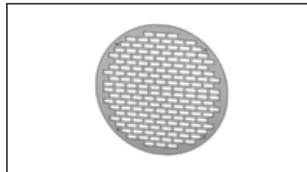
- Fast clamps for sound decoupling and sealing
- Galvanized steel sheet, 5 mm Neopren gasket
- 1 Pack = 2 pieces

**KWR 250 02 | 124066**



- Cold water cooler, uninsulated
- Version left
- Connection ND 250
- Galvanized steel sheet with condensate tray

**SG 250 02 | 112677**



- Inlet protection grille for Etaline
- Galvanized steel sheet

**RSK 250 | 102686**



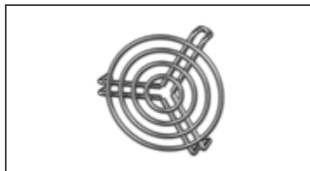
- Back draught shutter for tube fitting
- Galvanized steel sheet housing
- Aluminum flaps

**KWR 250 01 | 124065**



- Cold water cooler, uninsulated
- Version right
- Connection ND 250
- Galvanized steel sheet with condensate tray

**SG 250 01 | 169588**



- Protection grille for tube connection
- Galvanized wire

**SDS 250 | 169607**



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

**SDF 250 | 169644**



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

## ELECTRICAL ACCESSORIES

**GS 03 | 107633**



- Device switch
- U<sub>max</sub> = 400 V, I<sub>max</sub> = 25 A
- Switching capacity 400 V 3~ = 7,5 kW
- Protection class IP 55

**MTS 10 | 128145**



- 3-step switch
- Max. ambient temperature 50 °C
- Surface and flush mounting
- IP 44

