

# ISOR 400 EC K 01

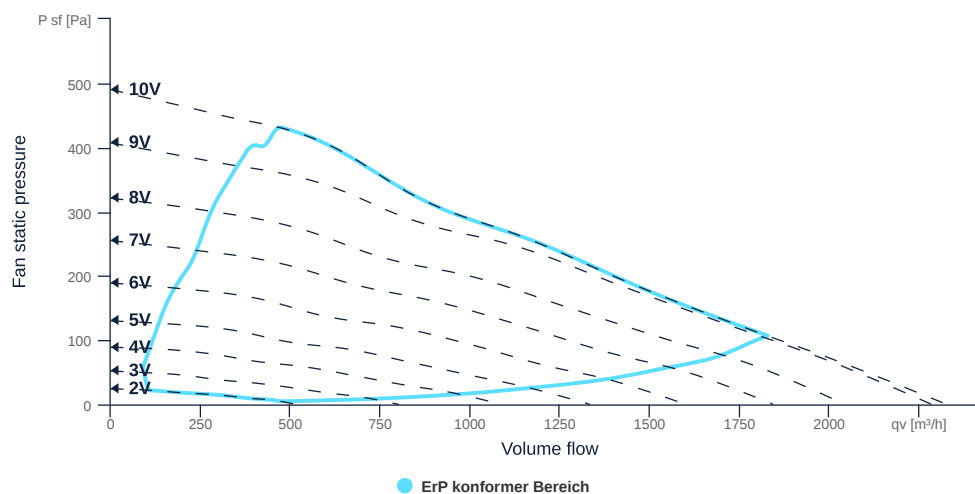
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- Soundproof centrifugal fan with backward curved impeller
- Galvanized sheet steel housing
- Connection spigots with double lip seal
- Swing-out fan unit
- EC motor, external rotor, steplessly controllable
- Internal electronic temperature monitoring
- Suitable for outdoor installation



## 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  | -                |                   | WxHduct             |
| Pipe connection size (DN)                              | DN400            |                   | 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 |                   | matcasing           |
| Impeller material                                      | Plastic          |                   | matimpeller         |
| IP-protection class (entire device)                    | IP54             |                   | IP <sub>compl</sub> |
| IP-Protection class (terminal box)                     | IP66             |                   | IP <sub>ebox</sub>  |
| Weight   | 40               | kg                | m                   |
| Nominal air flow rate, nominal point m <sup>3</sup> /h | 1188             | m <sup>3</sup> /h | q <sub>v,nom</sub>  |
| Nominal external pressure, static                      | 251.5            | 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 m <sup>3</sup> /s | 0.33                      | m <sup>3</sup> /s | q <sub>v,nom</sub>  |
| Actual electrical input power, nominal point           | 0.16                      | kW                | P <sub>e,nom</sub>  |
| Face velocity, nominal point                           | 2.6                       | m/s               | v <sub>nom</sub>    |
| Nominal external pressure, static                      | 251.5                     | Pa                | p <sub>s,nom</sub>  |
| supply air fan static efficiency, nominal point        | 63.4                      | %                 | η <sub>es,SUP</sub> |
| Highest external air leakage rate                      | 1.68                      | %                 |                     |
| Enclosure sound level, nominal point                   | 61                        | dba               | L <sub>WA2</sub>    |
| Rating   | Product is compliant 2018 |                   |                     |



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## MAXIMAL DATA

| Name                            | Value |       | Unit              | Formula symbol |
|---------------------------------|-------|-------|-------------------|----------------|
|                                 | 50 Hz | 60 Hz |                   |                |
| Max. power consumption (device) | 165   | 165   | W                 | $P_{ed, max}$  |
| Max. operating current (device) | 1.4   | 1.4   | A                 | $I_{ed, max}$  |
| Max. speed                      | 1520  | 1520  | 1/min             | $n_{max}$      |
| Max. stat. efficiency           | 47.9  | 47.9  | %                 | $\eta_{es}$    |
| Max. fan efficiency             | 48.7  | 48.7  | %                 | $\eta_e$       |
| Max. flowrate                   | 2325  | 2325  | m <sup>3</sup> /h | $q_{v, max}$   |
| Max. stat pressure              | 490   | 490   | Pa                | $p_{sf, max}$  |
| Max. medium temperature         | 60    | 60    | °C                | $T_{m, max}$   |
| Max. environment temperature    | 60    | 60    | °C                | $T_{amb, max}$ |
| Min. environment temperature    | -25   | -25   | °C                | $T_{amb, min}$ |

## 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 B               |       | ISOclass         |
| Motor-protection         |       | TEC                 |       | protectmotor     |
| Protection class         |       | IP54                |       | IPmotor          |
| Is pole-changeable       |       | No                  |       | polexch          |
| Type of power supply     |       | AC 1~               |       | pwsupmotor       |
| Rated voltage            | 230   |                     | V     | $U_{rated, f1}$  |
| Rated current            | 1.4   |                     | A     | $I_{rated, f1}$  |
| Shaft power              | 168   |                     | W     | $P_{out, f1}$    |
| Speed                    | 1250  |                     | 1/min | $n_{f1}$         |
| Efficiency               | 65.5  |                     | %     | $\eta_m, f1$     |
| Min. temperature         | -25   |                     | °C    | $T_{motor, min}$ |
| UL-Certification motor   |       | UL recognized       |       | ULcert           |



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