

EM DUO 150 EC K 01

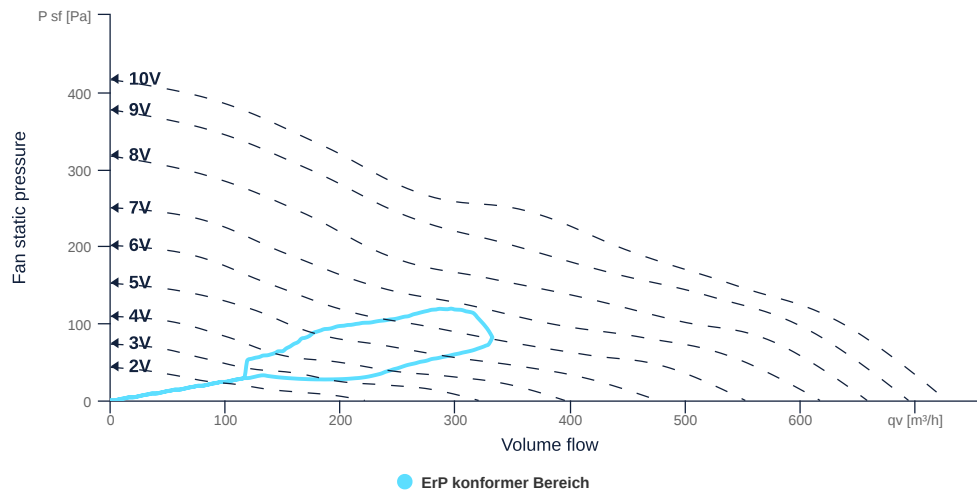
171403

- Efficient diagonal fan, redundant operation
- Optimally tuned and CFD-optimized aerodynamics
- Soundproof housing made of galvanized sheet steel
- High efficiency EC motor, steplessly controllable
- Built-in ETAMASTER with highest efficiency
- 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 | | |
| Duct size | | - | WxHduct | |
| Pipe connection size (DN) | | DN150 | DN | |
| Rated voltage (entire device) | | 230 | V | U _{rated} |
| Phases (entire device) | | 1~ | | phase |
| Electrical protection (entire device) | | 6 A | | fuse |
| Housing material | | Galvanized steel | | matcasing |
| Impeller material | | Plastic | | matimpeller |
| IP-protection class (casing) | | IPX4 | | IP _{casing} |
| IP-protection class (entire device) | | IPX4 | | IP _{compl} |
| IP-Protection class (terminal box) | | IP55 | | IP _{ebox} |
| Weight | | 36.6 | kg | m |
| Nominal air flow rate, nominal point m ³ /h | | 331.2 | m ³ /h | q _{v,nom} |
| Nominal external pressure, static | | 82 | Pa | p _{s,nom} |
| Fan type | | Diagonal | | Fantype |
| Category / Installation situation | | B | | cat |

ERP DATA (LOT 6)

| Name | Value | Unit | Formula symbol | |
|--|-------|---------------------------|-------------------|---------------------|
| Nominal air flow rate, nominal point m ³ /s | | 0.09 | m ³ /s | q _{v,nom} |
| Actual electrical input power, nominal point | | 0.04 | kW | P _{e,nom} |
| Face velocity, nominal point | | 5.22 | m/s | v _{nom} |
| Nominal external pressure, static | | 82 | Pa | p _{s,nom} |
| static efficiency of the extract fan, nominal point | | 21.32 | % | η _{es,EHA} |
| Highest external air leakage rate | | 0.67 | % | |
| Enclosure sound level, nominal point | | 47.04 | 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) | 113 | 113 | W | P _{ed, max} |
| Max. operating current (device) | 0.94 | 0.94 | A | I _{ed, max} |
| Max. speed | 3170 | 3170 | 1/min | n _{max} |
| Max. stat. efficiency | 22.8 | 22.8 | % | η _{es} |
| Max. fan efficiency | 26.2 | 26.2 | % | η _e |
| Max. flowrate | 730 | 730 | m ³ /h | Q _{v, max} |
| Max. stat pressure | 415 | 415 | Pa | p _{sf, max} |
| Max. medium temperature | 45 | 45 | °C | T _{m, max} |
| Max. environment temperature | 45 | 45 | °C | T _{amb, max} |
| Min. environment temperature | -30 | -30 | °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 F | | ISOclass |
| Motor-protection | | TEC | | protectmotor |
| Protection class | | IP54 | | IP _{motor} |
| Is pole-changeable | | No | | polexch |
| Type of power supply | | AC 1~ | | pwsup _{motor} |
| Rated voltage | 230 | 230 | V | U _{rated, f1} |
| Rated current | 0.93 | 0.93 | A | I _{rated, f1} |
| Shaft power | 121 | 121 | W | P _{out, f1} |
| Speed | 2929 | 2929 | 1/min | n _{f1} |
| Min. temperature | -30 | -30 | °C | T _{motor, min} |
| UL-Certification motor | | None | | ULcert |

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