

MPC 500 EC 40

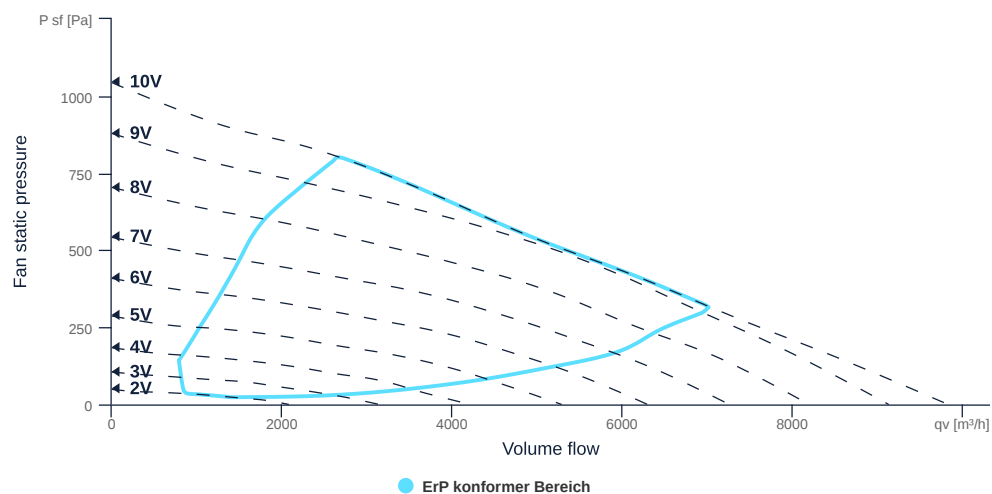
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- Centrifugal fan with backward curved impeller
- Variable discharge direction right / left / linear
- Double wall housing made of galvanized steel sheet, insulated
- Highly efficient EC motor, steplessly controllable
- Internal electronic temperature monitoring
- With bottom tray



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 _{duct} |
| Pipe connection size (DN) | DN500 | | DN |
| Rated voltage (entire device) | 400 | V | U _{rated} |
| Phases (entire device) | 3~ | | phase |
| Electrical protection (entire device) | 6 A | | fuse |
| Housing material | Galvanized steel | | mat _{casing} |
| Impeller material | Plastic | | mat _{impeller} |
| Weight | 56.2 | kg | m |
| Nominal air flow rate, nominal point m ³ /h | 4878 | m ³ /h | q _{v,nom} |
| Nominal external pressure, static | 515 | Pa | p _{s,nom} |
| Fan type | Radial | | Fan _{type} |
| Category / Installation situation | A | | cat |

ERP DATA (LOT 6)

| Name | Value | Unit | Formula symbol |
|--|---------------------------|-------------------|---------------------|
| Nominal air flow rate, nominal point m ³ /s | 1.36 | m ³ /s | q _{v,nom} |
| Actual electrical input power, nominal point | 1.23 | kW | P _{e,nom} |
| Face velocity, nominal point | 2.3 | m/s | v _{nom} |
| Nominal external pressure, static | 515 | Pa | p _{s,nom} |
| supply air fan static efficiency, nominal point | 65.8 | % | η _{es,SUP} |
| Highest external air leakage rate | 0.4 | % | |
| Enclosure sound level, nominal point | 68 | dB(A) | L _{WA2} |
| Rating | Product is compliant 2018 | | |



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MAXIMAL DATA

| Name | Value | | Unit | Formula symbol |
|---------------------------------|-------|-------|-------------------|-----------------------|
| | 50 Hz | 60 Hz | | |
| Max. power consumption (device) | 1343 | 1343 | W | P _{ed, max} |
| Max. operating current (device) | 2.1 | 2.1 | A | I _{ed, max} |
| Max. speed | 1600 | 1600 | 1/min | n _{max} |
| Max. stat. efficiency | 53 | 53 | % | η _{es} |
| Max. fan efficiency | 54.6 | 54.6 | % | η _e |
| Max. flowrate | 9830 | 9830 | m ³ /h | q _{v, max} |
| Max. stat pressure | 1040 | 1040 | Pa | p _{sf, max} |
| Max. medium temperature | 50 | 50 | °C | T _{m, max} |
| Max. environment temperature | 50 | 50 | °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 F | | ISOclass |
| Motor-protection | | TEC | | protectmotor |
| Protection class | | IP55 | | IP _{motor} |
| Is pole-changeable | | No | | polexch |
| Type of power supply | | AC 3~ | | p _{wsup} motor |
| Rated voltage | 400 | | V | U _{rated, f1} |
| Rated current | 2.1 | | A | I _{rated, f1} |
| Shaft power | 1320 | | W | P _{out, f1} |
| Speed | 1350 | | 1/min | n _{f1} |
| Min. temperature | -25 | | °C | T _{motor, min} |
| UL-Certification motor | | UL recognized | | ULcert |



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