

## CK 4" C UL

### Description

The CK is an in-line centrifugal duct fan with high capacity and excellent reliability. The straight through radial fan is compact and very easy to install. It can cope with high pressure and long duct runs, whilst still operating at acceptable sound levels.

The CK range of fans have casings manufactured from galvanized steel and are moisture resistant. They are approved for installation in humid or damp environments being rated IP44 when installed in a duct system.

The fan speed can be controlled by voltage variation regulators. Several fans can be connected to the same controller providing the total rating of the controller is not exceeded.

The motors are an external rotor type asynchrony motor. They have maintenance free sealed ball bearings and are protected from over heating by thermo contacts.

The fans must not be used for transporting grinding dust, soot or similar.

UL file-number: E226987

### Technical data

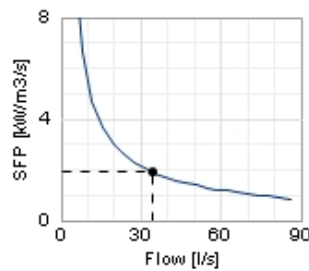
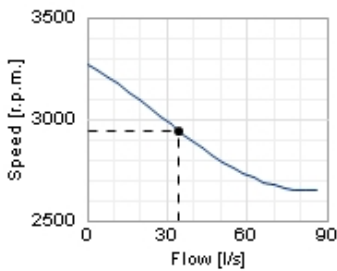
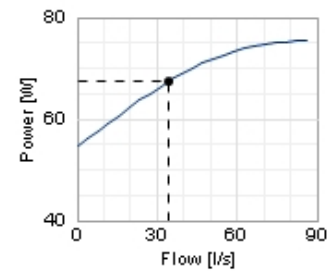
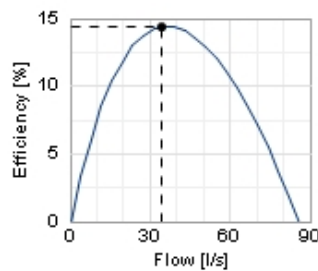
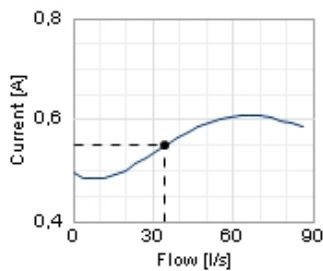
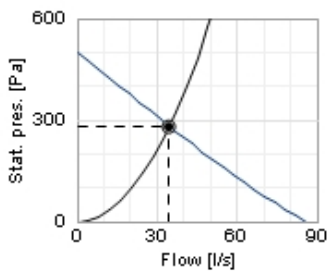
| Parameter   | value | Unit   |
|---|-------|--------|
| Voltage   | 120   | V      |
| Phase   | 1     | ~      |
| Frequency   | 60    | Hz     |
| Power   | 76    | W      |
| Current   | 0,58  | A      |
| R.p.m.  | 2650  | r.p.m. |
| Max. temperature of transported air                       | 80    | °C     |
| Max. temperature of transported air when speed-controlled | 80    | °C     |
| Sound pressure level at 3 m                               | 49    | dB(A)  |
| Length  | 188   | mm     |
| Width   | 242   | mm     |
| Height  | 242   | mm     |
| Weight  | 2,9   | kg     |
| Enclosure class, motor                                    | 44    | IP     |
| Insulation class, motor                                   | F     |        |
| Capacitor   | 8     | µF     |
| Duct connection   | 4 "   |        |



## Diagrams

○ Selected point

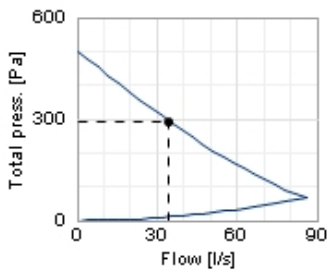
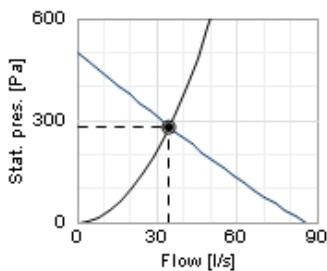
|                            |       |
|----------------------------|-------|
| Flow [l/s]                 | 34,4  |
| Stat. pres. [Pa]           | 283   |
| ● Work point               |       |
| Flow [l/s]                 | 34,4  |
| Stat. pres. [Pa]           | 283   |
| Power [W]                  | 67,4  |
| Current [A]                | 0,549 |
| Speed [r.p.m.]             | 2943  |
| Efficiency [%]             | 14,4  |
| SFP [kW/m <sup>3</sup> /s] | 1,91  |
| Voltage [V]                | 120   |



## Sound

○ Selected point

|                            |       |
|----------------------------|-------|
| Flow [l/s]                 | 34,4  |
| Stat. pres. [Pa]           | 283   |
| ● Work point               |       |
| Flow [l/s]                 | 34,4  |
| Stat. pres. [Pa]           | 283   |
| Total press. [Pa]          | 294   |
| Power [W]                  | 67,4  |
| Current [A]                | 0,549 |
| Speed [r.p.m.]             | 2943  |
| Efficiency [%]             | 14,4  |
| SFP [kW/m <sup>3</sup> /s] | 1,91  |
| Voltage [V]                | 120   |

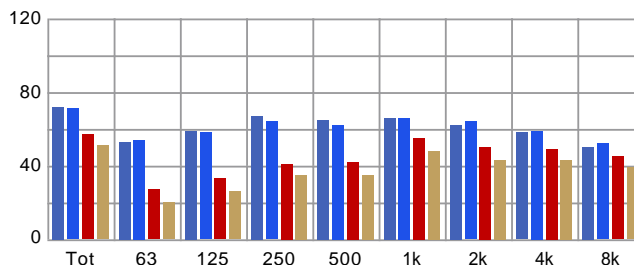


Distance: 3

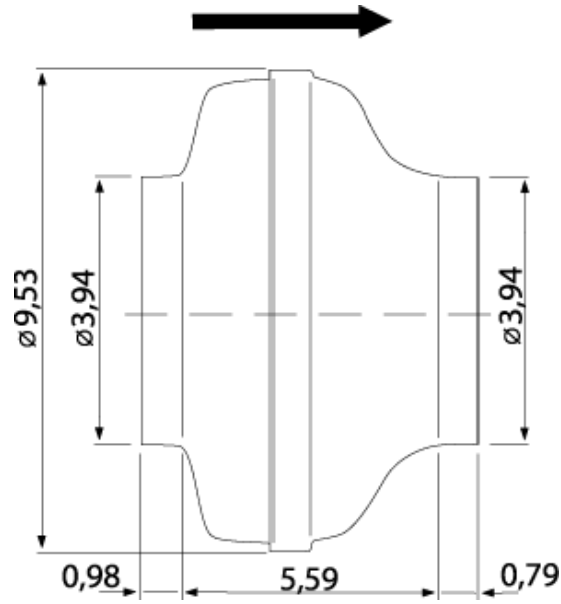
Propagation type: Semi-spherical

Equivalent absorption area: 20

|                      | Tot | 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
|----------------------|-----|----|-----|-----|-----|----|----|----|----|
| Inlet Lw dB(A)       | 72  | 53 | 59  | 67  | 65  | 66 | 62 | 58 | 50 |
| Outlet Lw dB(A)      | 71  | 54 | 58  | 64  | 62  | 66 | 64 | 59 | 52 |
| Surrounding Lw dB(A) | 57  | 27 | 33  | 41  | 42  | 55 | 50 | 49 | 45 |
| Surrounding Lp dB(A) | 51  | 20 | 26  | 35  | 35  | 48 | 43 | 43 | 39 |

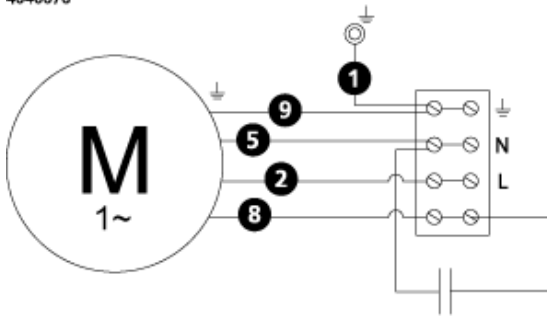


Dimensions



Wiring diagram

4040076



- (M) = Fan Motor
- (M1) = Fan Motor
- (M2) = Fan Motor
- (M3) = Rotor Motor
- 1 = Yellow/Green
- 2 = Black
- 3 = Blue
- 4 = Brown
- 5 = White (TW)
- 6 = Orange
- 7 = Grey
- 8 = Red
- 9 = Green
- 10 = Violet

Accessories

Accessories



MK 100