

COMPACT DUCT TYPE FAN

Rev.01
27-05-2015



GMC DCF-502:

3 speed mixed flow duct fan with high efficiency

Application

especially built for use with round ducts. Thanks to the special design of the three dimensional blades of the rotor and the stator, these blades are driven correctly, thanks to which the pressure profile on the surface of the blades is realised more efficiently and with considerably less losses. The efficient stator will convert the energy losses (dynamic pressure) into useable energy (static pressure). This combination results in a duct fan with the highest efficiency in its category, whereby these fans cut operational costs enormously.

Thanks to the fact that the motor is integrated in the stator's hub, out of the air stream, the fans can be used for slightly polluted air. The fans are used for ventilation in offices, schools and small spaces.

Composition

- Compact fan housing with mounting bracket included.
- The fan housing is made out of polyamid. The impeller balanced according to the quality of G6.3 according to DIN ISO 1940 on two Levels.
- The motor is equipped with maintenance-free, long-life ball bearings.
- Supply: 230Vac 1ph
- Insulation class F – protection class IP44
- Motor with overheat protection

Accessories

- Fitting clamp type **BMK**
- Protection grill type **BSV**
- 3-speed switch type **MSS**

Text for tender

Fans are of the mixed flow type and are equipped with a 3-speed motor 230Vac 1ph. Can be fitted in any position. Air volume up to 1500 m³/h. Including mounting brackets. Housing from polyamid. 3-speed motor with integrated thermal switch.



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Air Performance Data

| Model | | Qv [m ³ /h] | | | | | |
|-------|------------|------------------------|-------|-------|-------|-------|-------|
| | | 50Pa | 100Pa | 150Pa | 200Pa | 250Pa | 300Pa |
| Mk. | 125 3N 01 | 330 | 295 | 250 | 180 | 10 | - |
| | 150 3N 01 | 390 | 350 | 310 | 270 | 70 | - |
| | 150L 3N 01 | 730 | 680 | 630 | 570 | 510 | 160 |
| | 160 3N 01 | 400 | 360 | 320 | 270 | 50 | - |
| | 160L 3N 01 | 770 | 710 | 660 | 600 | 540 | 440 |
| | 200 3N 01 | 860 | 790 | 680 | 500 | 140 | - |
| | 200L 3N 01 | 850 | 800 | 740 | 680 | 610 | 530 |
| | 250 3N 01 | 1640 | 1560 | 1480 | 1380 | 1260 | 570 |

η_t = maximum total efficiency
 t_m = maximum air temperature
 t_u = maximum ambient temperature
 t_o = minimum operating temperature
 Lwa 2 = Casing sound power level
 Lwa 5 = Sound power level @inlet
 Lwa 6 = Sound power level @outlet
 The sound power levels are measured according to DIN 45635 part 2 & 38

