INLINE DUCT FAN

Rev.01
27-05-2015

GMC DCF-503:

Very compact mixed flow duct fan with high efficiency

Application

- These fans are especially built for use with round ducts. The diameter of the duct is not exceeded by the fan housing, can be used in small spaces.
- 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, can be used for slightly polluted air.
- used for ventilation in offices, schools, parkings, industrial applications,...

Composition

- Compact fan housing with mounting bracket included.
- The fan housing is made out of synthetic fibre for diameter 200mm, galvanised steel for diameters from 250mm to 355mm and seawater proof aluminium for diameters from 400mm to 630mm.
- The mixed flow turbine and stator are made out of synthetic fibre for the diameters from 200mm to 355mm and of seawater proof aluminium for diameters from 400mm to 630mm.
- The motor is equipped with maintenance-free, long-life ball bearings.
- Insulation class F
- Junction box IP44 with cable gland

Accessories

- Fitting clamp type **BMK**
- Protection grill type **BSV**
- Speed controller type **BTRN (TK)**

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Text for tender

Fans are of the mixed flow type and are equipped with a 230V 1ph speed controllable motor. Can be fitted in any position. Air volume up to 14.000 m3/h. Including mounting brackets. Housing from plastic (dia 200), galvanised steel (dia 250-355) or aluminium (dia 400-710). Motor with integrated thermal switch.

Order example

DCF-503: Mk.250 E2 01

250: diameter
E: 230V
2: bipolar motor (2890t/min)

Air Performance Data

Model		Qv [m³/h]								
		50Pa	100Pa	150Pa	200Pa	250Pa	300Pa	400Pa	500Pa	600Pa
Mk.	200 E2 01	860	800	720	535	165	75	-	-	-
	250 E2 01	1640	1560	1470	1350	1200	570	170	-	-
	280 E2 02	2268	2178	2085	1960	1820	1640	540	200	-
	315 E2 01	3391	3291	3186	3065	2920	2750	2450	800	425
	355 E2 01	4850	4740	4637	4500	4400	4270	3900	3500	2900
	400 E4 01	3240	2970	2550	900	560	200	-	-	-
	450 E4 01	4954	4700	4428	4030	3420	1000	-	-	-

SC_T = transformer speed controller
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