

QUIET TYPE SINGLE INLET INSULATED CASING FAN

Rev.01
27-05-2015



GMC ICF-522:

Acoustically insulated (40mm / 88kg/m³) centrifugal fan box and EC engine

Application

- used for ventilation in many applications where low noise levels have to be respected, such as offices, restaurants, technical rooms or other.
- range consists of 8 sizes and air flow range up to 6000 m³/h.

Specification RE1, RE2, RE3-type

- Backward curved impeller.
- Single inlet impeller, except 250-RE1 with double inlet impeller.
- Inlet impeller made of galvanized sheet steel, except 125-RE1 and 160-RE1, with steel plate and plastic blades.
- External rotor motor 230 Vac 1ph, IP44.

Specification RD4-type

- Backward curved impeller
- Single inlet impeller made of aluminium AlMg3
- External rotor motor 400Vac 3ph, IP44
- Junction box inside

Specification TE5-type

- Forward curved impeller
- Dia 125, 160, 355, 400 : single inlet impeller, made of galvanized sheet steel
- Dia 200, 250, 315, 500 : double inlet impeller, made of galvanized sheet steel
- External rotor motor 230Vac 1ph, IP44

Accessories

- Electronic speed controller **MTY**
- Auto transformer type **BTRN**
- Flexible connection type **BMK**
- Filter box type **FLK-B** (G4 filter) or **FLF-B** (F7 filter)
- Silencer type **SAR**
- Duct battery type **CVA, CWA, CWK**



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Text for tender

- The centrifugal fan box shall be acoustically insulated with 40 mm rock wool fibrewith a density of minimum 88kg/m³. The closed motor shall be of the direct driven type, IP44, insulation class B, with thermal protection and voltage controllable with auto transformer

Order example

ICF-522:Mk.200-TE5 + MTY1

Mk.200-TE5= fan type
MTY1= speed controller

Air Performance Data

Model	Qv (m ³ /h)								
	50Pa	100Pa	150Pa	200Pa	250Pa	300Pa	400Pa	500Pa	
Mk.	125 RE1	283	259	235	209	183	159	129	100
	125 TE5	343	322	302	280	257	232	194	155
	160 TE5	357	334	313	219	268	243	207	165
	160 RE1	605	568	526	483	442	401	346	289
	160 RE3	751	714	679	646	615	584	533	474
	200 TE5	568	560	528	488	442	394	331	264
	200 RE1	888	837	784	740	700	658	593	522
	250 TE5	1010	964	916	862	801	734	629	507
	250 RE1	1175	1111	1045	980	915	853	768	681
	250 RE2	1002	946	887	827	756	708	631	552
	315 TE5	-	1696	1638	1573	1479	1364	1182	974
	315 RE1	1436	1346	1254	1161	1069	977	852	729
	355 TE5	2568	2484	2406	2330	2236	2122	1922	1675
	355 RD4	2712	2549	2387	2234	2087	1946	1745	1528
	400 TE5	2627	2539	2446	2347	2238	2119	1922	1689
	400 RD4	3043	2918	2789	2650	2488	2304	2030	1744
	450 RD4	4235	4054	3865	3681	3502	3324	3029	2668
	500 TE5	5867	5567	5295	5032	4745	4409	3814	3113

SC_T = transformer speed controller

SC_E = electronic speed controller

***Caution: an electronic controller can produce a magnetic noise**

η_t = maximum total efficiency

t_m = maximum air temperature

t_u = maximum ambient temperature

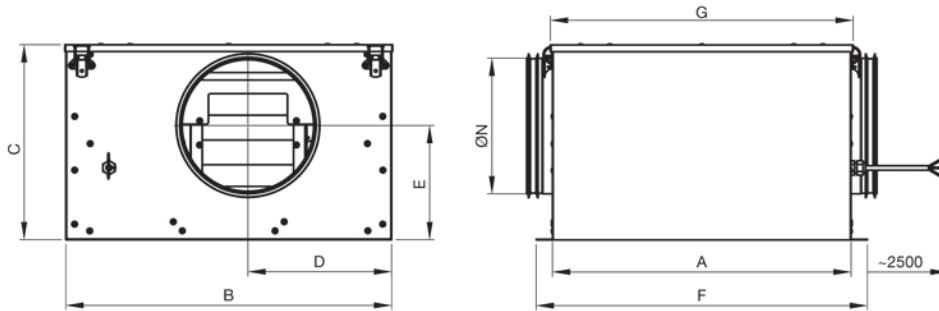
t_o = minimum operating temperature

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



Dimensions

Model	Ø N (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	(kg)	
Mk.	125 RE1	124	378	380	232	119	136	459.50	384	11.30
	125 TE5	124	378	380	232	119	136	423	384	10.80
	160 RE1	159	460	480	287	145	171	541.50	466	17.60
	160 TE5	159	378	380	232	136.50	133	423	384	10.80
	200 TE5	199	380	380	286	190	168	426	384	13.10
	200 RE3	199	460	480	287	165	168	541.50	466	17.60
	250 TE5	249	460	480	287	240	148	505	465.80	16.40
	315 TE5	314	510	540	387	270	208	555	515.80	24.30
	355 TE5	354	650	680	492	233.50	273	695	655.80	43
	400 TE5	399	650	680	491	256	263	695	655.80	43.10
500 TE5	499	661	680	587	440	292	-	666.20	67.80	

