

QUIET TYPE DOUBLE INLET INSULATED CASING FAN

Rev.01
27-05-2015



GMC ICF-521:

Direct driven centrifugal fan box with acoustic insulation. The range consists of 6 sizes and 9 types and covers an air flow range from 900 up to 9600 m³/h.

Application

- used for air supply or exhaust of offices, restaurants or shops

Composition

- manufactured from fabricated galvanized sheet steel and internally lined with high grade acoustic insulation material
- The casing design enables the fan to be accessed from both side panels.
- A wiring entry grommet is provided on the duct outlet panel to facilitate wiring and installation

Fan

- Low pressure centrifugal fan with forward curved impeller manufactured from pressed and formed galvanised sheet steel
- All impellers are factory fitted to the motors and dynamically balanced to minimise vibration

Motor

- Closed motor
- Protection class IP44, insulation class F
- Supply: 230Vac 1ph or 400Vac 3ph
- All models include a Safety Thermal Overload protection device.

NOTE: Must never be used in free inlet configuration. Measure current at start-up and respect minimal pressure values as indicated in the table.

Options

- Fan without casing: type **DA**



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Accessories

- Auto transformer type **BTRN** or **BTRNTK**
- Clamping strip type **BMK**
- Filter box type **FLK-B** (G4 filter) or **FLF-B** (F7 filter)
- Silencer type **SAR**
- Duct battery type **CVA, CWA, CWK**

Order example

ICF-521: Mk.9-9-24 + BTRN 1-3

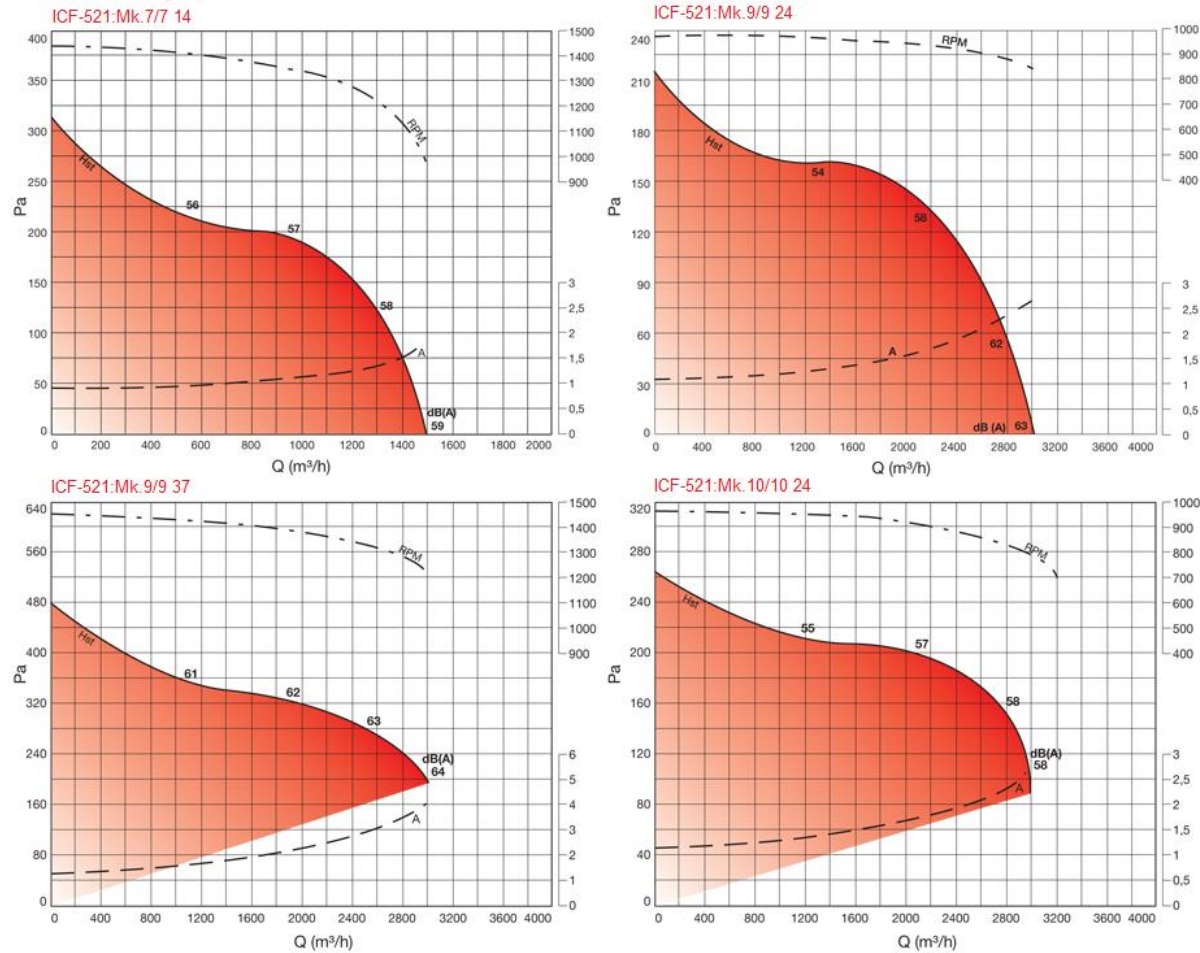
9-9-24= Fan type

BTRN 1-3= speed controller

Air Volume Values

Model		50 Pa	100 Pa	150 Pa	Qv (m³/h)			
Mk.	7-7-14	1430	1350	1200	900	300	-	-
	9-9-24	2500	2050	1800	-	-	-	-
	9-9-37	-	-	-	2800	2600	2300	800
	10-10-24	3200	3000	2500	1200	-	-	-
	10-10-55	-	-	-	-	-	3700	2750
	12-9-55	-	-	3800	3600	3000	2000	-
	12-12-73	-	-	5650	5400	4250	3600	-
	12-12-11	-	7100	6600	5900	5000	3800	-
	15-15-22	-	-	-	-	-	9600	7200

Pressure loss graph

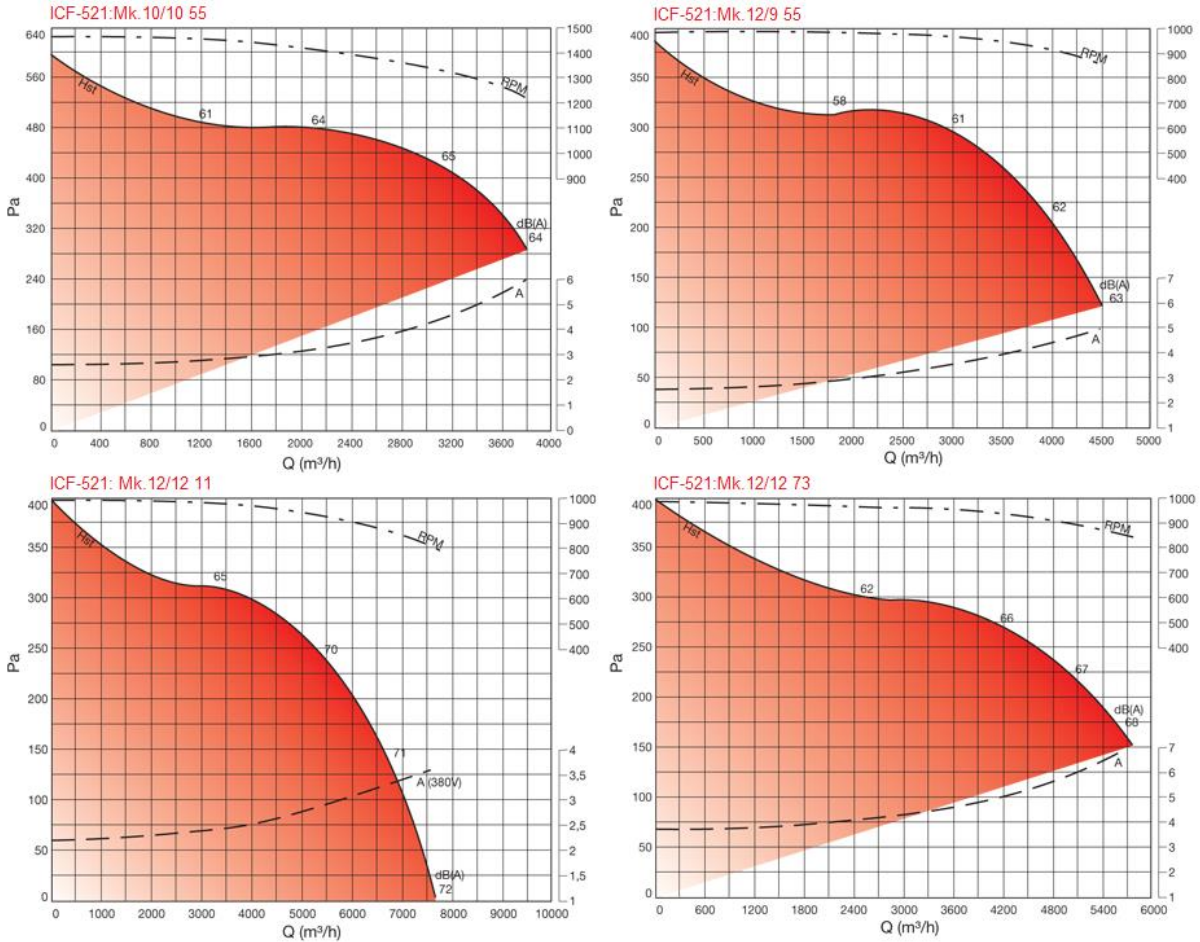


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Pressure loss graph



Note

may never be used with free inlet. There should be a minimal counter-pressure as indicated above. Please measure the current at first starting.

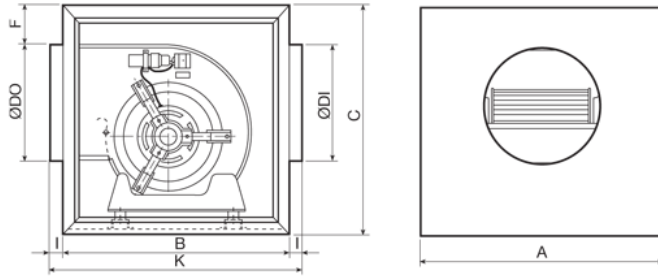
Technical data

Type	Voltage [V]	Speed [rpm]	Power [W]	Current [A]	Transformer controller	Sound level at 3m [dB(A)]	
Mk.	7-7-14	1 x 230	1430	147	1.70	BTRN-1-2	56
	9-9-24	1 x 230	980	245	2.50	BTRN-1-3	55
	9-9-37	1 x 230	1430	373	4.10	BTRN-1-5	60
	10-10-24	1 x 230	980	245	3.20	BTRN-1-5	55
	10-10-55	1 x 230	1470	550	4.60	BTRN-1-7	64
	12-9-55	1 x 230	980	550	4.50	BTRN-1-7	60
	12-12-73	1 x 230	980	736	6	BTRN-1-10	64
	12-12-11	3 x 230 / 380	980	1100	8 / 4,6	BTRN-4-6 / BTRN-3-10 *	67
	15-15-22	3 x 230 / 380	980	2200	13 / 7,2	BTRN-4-11 / BTRN-3-13 **	60
	<small>* BTRN-4-6 for 3 x 400V or BTRN-3-10 for 3 x 230V ** BTRN-4-11 for 3 x 400V or BTRN-3-13 for 3 x 230V</small>						



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Dimensions

		ØDI (mm)	ØDO (mm)	A (mm)	B (mm)	C (mm)	F (mm)	I (mm)	K (mm)	Kg
Mk.	7/7	250	250	455	445	455	75	35	515	32
	9/9	355	355	555	515	535	95	35	585	43
	10/10	400	400	595	565	590	90	35	635	55
	12/9	450	450	675	620	640	55	35	690	72
	12/12	450	450	675	620	640	55	35	690	75