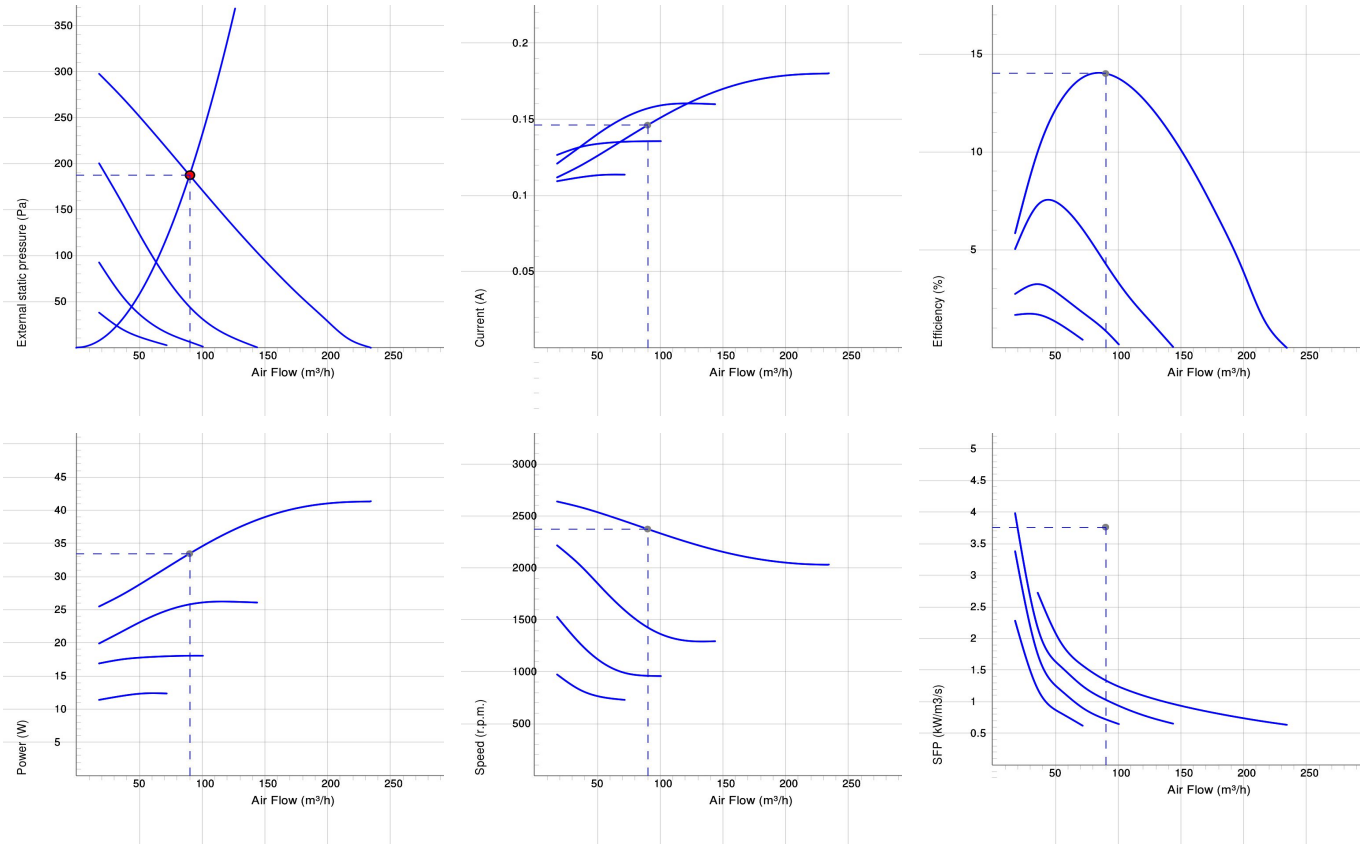
CK 100 A

CK

- Duct fan with circular connections.
- Proven performance and reliability.
- Compact with high capacity and efficiency.
- Low sound levels.
- Operational in both 50 and 60 Hz.
- Impeller with backward curved blades.
- The external rotor motor has maintenance-free sealed ball-bearings and is very energy efficient.
- For speed control a transformer or electronic speed controller can be connected.
- Integrated motor protection.
- Junction box has enclosure class IP 54.
- Fan housing is manufactured from galvanized sheet steel.
- The fan is intended to be installed in a duct system.
- A duct connected fan can be installed outside or in damp environments.
- Easy installation in any position.
- To comply with the ErP 2018 regulation, a local demand controller must be used.

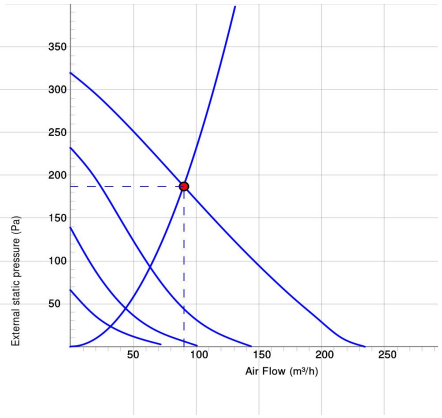
DIAGRAMS



Work Point

Air Flow (m³/h)	External static pressure (Pa)	Power (W)	Speed (r.p.m.)	Current (A)	Efficiency (%)	SFP (kW/m3/s)	Voltage (V)
90	187	33.5	2375	0.146	14	1.34	230

SOUND DATA



	Tot	63	125	250	500	1k	2k	4k	8k
Inlet Lw dB(A)	66	57	57	60	61	58	54	51	45
Outlet Lw dB(A)	66	56	57	60	60	58	56	50	44
Surrounding Lw dB(A)	44	22	30	37	35	38	35	35	32
Surrounding Lp dB (A) 3m	37	15	23	30	28	31	28	28	25

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TECHNICAL DATA

	CK 100 A man tp 7000001		CK 100 A aut tp 7000030	
Parameter	**Value**	**Unit**	**Value**	**Unit**
Voltage	230	V	230	V
Phase	1	~	1	~
Frequency	50	Hz	50	Hz
Optional frequency	60	Hz	60	Hz
Power	41	W	41	W
Current	0.18	A	0.18	A
Speed	2040	r.p.m.	2040	r.p.m.
Max. temperature of transported air	80	°C	80	°C
Max. temperature of transported air when speed controlled	80	°C	80	°C
Sound pressure level at 3 m	37	dB(A)	37	dB(A)
Weight	2.6	kg	2.6	kg
Enclosure class	44	IP	44	IP
Insulation class, motor	F		F	
Capacitor	3	µF	3	µF
Duct connection	100	mm	100	mm
Max. flow	223.20062496175	m³/h	223.20062496175	m³/h
Max. pressure	319	Pa	319	Pa
Voltage range	220-240	V	220-240	V

ECODESIGN

Parameter	Value	Unit
(a) Manufacturer	Östberg	-
(b) Model code	CK 100 A	-
(c) SEC value	-24.6	kWh/m^2
SEC class	C	-
(d) Declared type	RVU / UVU	-
(e) Type of drive	Multi-speed drive (accessory)	-
(f) Type of heat recovery	N/A	-
(g) Thermal efficiency	N/A	%
(h) Max. flow rate (@100Pa)	146	m^3/h
(i) Power at max. flow rate	39	W
(j) Sound power level	44	dB LwA
(k) Reference flow rate	0.051	m^3/s
(l) Reference pressure difference	50	Pa
(m) SPI	0.22	W/(m^3/h)
(n) Type of control	Local demand control (accessory)	-
(o) External (internal) leakage rate	0.92	%
(p) Mixing rate	N/A	-
(q) Visual filter warning	N/A	-
(r) Instruction supply/exhaust grilles	See manual	-
(s) Disassembly instructions	www.ostberg.com	-
(t) Airflow sensitivity	N/A	-
(u) Air tightness	N/A	m/s
(v) AEC	413	kWh
(w) AHS average	3018	kWh
AHS warm	1365	kWh
AHS cold	5904	kWh

WIRING DIAGRAM

Ⓜ = Fan Motor
Ⓜ1 = Fan Motor
Ⓜ2 = Fan Motor
Ⓜ3 = Rotor Motor
❶ = Yellow/Green
❷ = Black
❸ = Blue
❹ = Brown
❺ = White
❻ = Orange
❼ = Grey
❽ = Red
❾ = Green
❿ = Violet
⓫ = Quick switch
⓬ = Yellow

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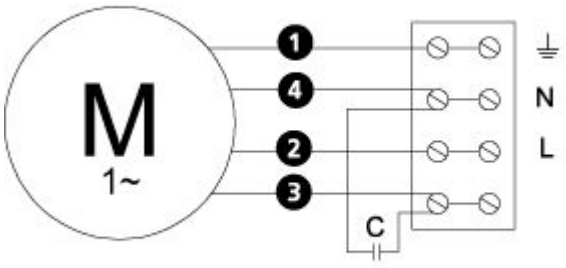
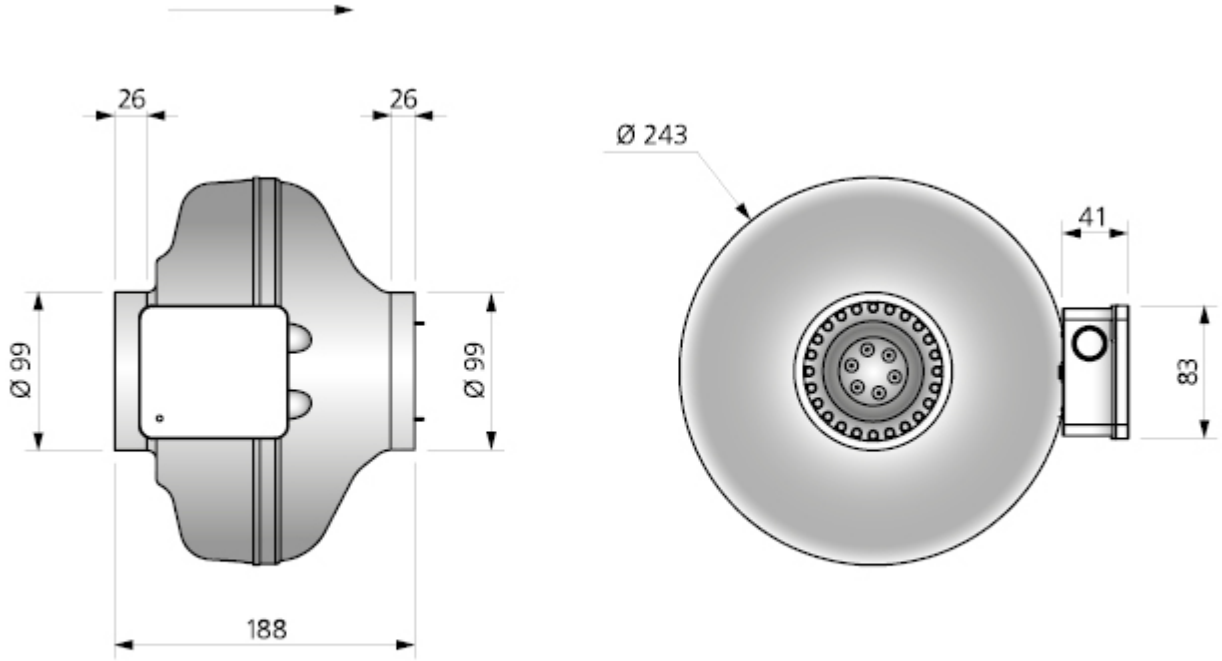


DIMENSIONS



ACCESSORIES

Mechanical accessories

Mounting bracket Kit MB

Mounting clamp MK 100

Safety grille BSV 100

Back draught shutter RSK 100

Louvre YG 100

Louvre shutter VK 100

Filterbox FLK 100

Filterbox FLF 100

Silencer LDC 100

Electrical accessories

Transformer controller VRTE C

Transformer controller VRDE 1.5

Speed controller VRS 0.5

Local Demand Controller Kit