

LPKBI, IRE, RKBI IFA, CAU, IFK

Insulated in-line duct fans



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QUIETER VENTILATION



Insulated in-line duct fans from AB C.A. Östberg

Insulated in-line duct fans from AB C.A. Östberg are designed and manufactured for high pressure ventilation systems with the benefit of a low operating sound level.

The low sound level is thanks to our design which has the advantage of high quality acoustic insulation which has an easy to clean facing applied to it during it's manufacturing process.

All our insulated duct fans are compact but delivering high volumes. Our casings are manufactured from galvanised steel sheets. Our duct fans are fitted with our forward or backward curved centrifugal fans; these are driven by maintenance free, ball bearinged, external rotor motors. All our motors have approved in-built overheat protection.

In our wide range there are insulated duct fans for both circular and rectangular duct connection available, and the duct fans can be installed in cold environments.

AB C.A. Östberg strives to give everybody the possibility of a better indoor air quality. We do this through innovation ensuring our products take out the stale air and bring fresh air.



A PERFECT CHOICE IN HIGH RISE BUILDINGS



LPKBI, low profile duct fans

LPKBI is a very low profile acoustic in-line duct fan with connections for circular ducts. It incorporates our backward curved centrifugal fans for high capacity and efficiency. The LPKBI is manufactured from galvanised steel sheet and assembled with the latest non-rivet fastening system for very low air leakage.

With a swing-out design as standard our fans are very easy to clean safely.

A PERFECT LOW INSTALLED HEIGHT CHOICE

LPKBI is a small and very useful duct fan as its total height is only two centimetres more than its connection

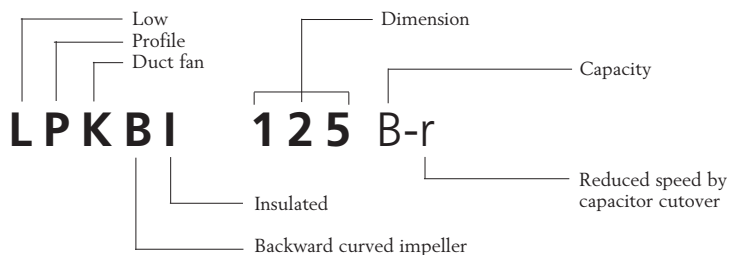
duct. This makes this fan a very important addition to our range of duct fans.

The LPKBI has the benefit of a built-in silencer section which adds a little to its length in return for an even lower sound level.

The fan is driven by a high quality external rotor motor with approved overheat protection.



KEY TO MODEL TYPES

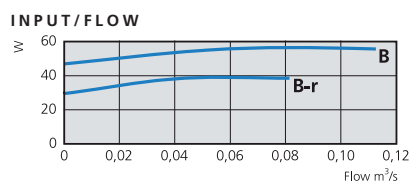
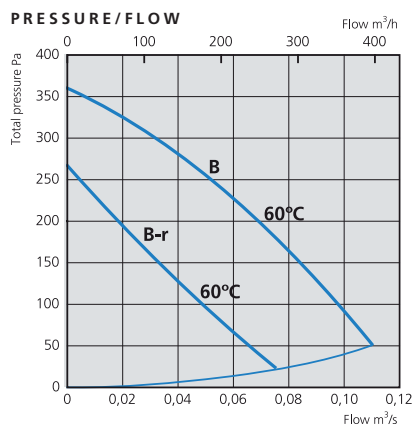




LPKBI 125 B/B-r LPKBI 160 K/K-r

Insulated low profile duct fan with backward curved impeller and swing-out design

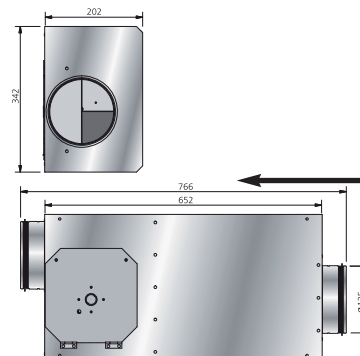
LPKBI 125 B/B-r*



TECHNICAL DATA

LPKBI	125 B	125 B-r
Voltage, V/Hz	230/50	230/50
Current, A	0,25	0,18
Input, W	58	40
Speed, rpm	2550	1810
Weight, kg	8,5	8,5
Wiring diagram	4040001	4040002
Capacitor, μ F	2	2
Insulation class, motor	F	F
Motor protection	IP 44	IP 44

DIMENSIONS (mm)

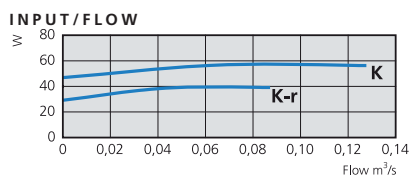
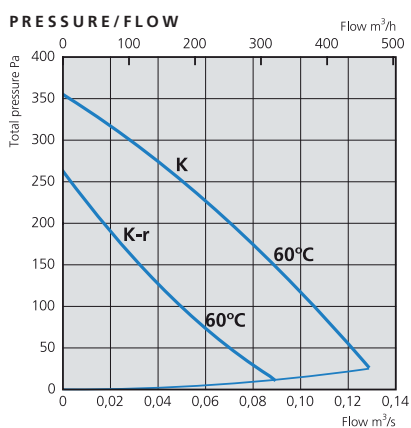


SOUND DATA

LPKBI 125 B, 75 l/s 180 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	47	54	27	34	52	50	43	41	33	27
Inlet		54	43	51	49	39	27	23	23	25
Outlet		71	53	60	67	67	63	58	55	48
LPKBI 125 B-r, 50 l/s 90 Pa										
Environment	38	45	22	28	41	41	34	31	26	25
Inlet		49	36	45	46	32	19	13	12	13
Outlet		66	47	54	64	58	54	49	45	35

*r = Reduced speed by capacitor cutover.

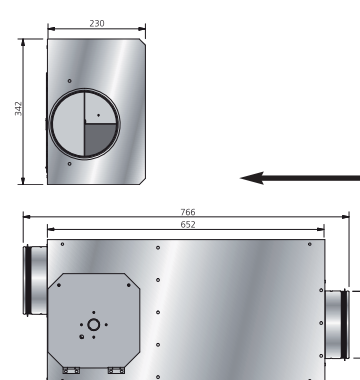
LPKBI 160 K/K-r*



TECHNICAL DATA

LPKBI	160 K	160 K-r
Voltage, V/Hz	230/50	230/50
Current, A	0,25	0,18
Input, W	58	40
Speed, rpm	2520	1730
Weight, kg	9,0	9,0
Wiring diagram	4040001	4040002
Capacitor, μ F	2	2
Insulation class, motor	F	F
Motor protection	IP 44	IP 44

DIMENSIONS (mm)



SOUND DATA

LPKBI 160 K, 75 l/s 175 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	45	52	26	24	49	48	41	38	32	27
Inlet		57	44	56	51	38	24	25	28	28
Outlet		71	55	62	67	67	62	58	55	48
LPKBI 160 K-r, 55 l/s 80 Pa										
Environment	37	44	23	28	41	39	33	30	26	25
Inlet		50	37	47	47	30	17	16	16	14
Outlet		64	48	53	61	57	52	49	44	34

*r = Reduced speed by capacitor cutover.

LPKBI 200 B/B-r

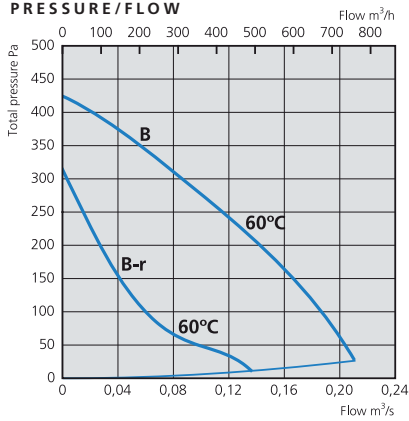
LPKBI 200 K/K-r

Insulated low profile duct fan with backward curved impeller and swing-out design

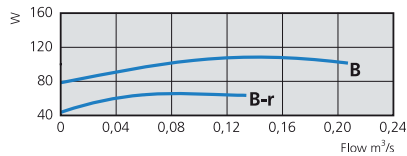


LPKBI 200 B/B-r*

PRESSURE/FLOW



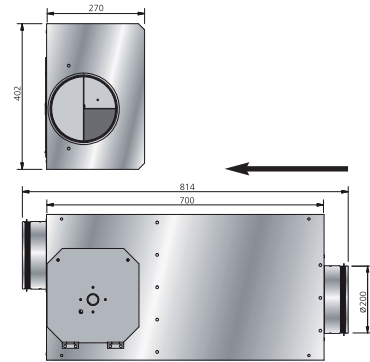
INPUT/FLOW



TECHNICAL DATA

LPKBI	200 B	200 B-r
Voltage, V/Hz	230/50	230/50
Current, A	0,47	0,29
Input, W	108	65
Speed, rpm	2460	1420
Weight, kg	11,0	11,0
Wiring diagram	4040001	4040002
Capacitor, µF	3	3
Insulation class, motor	F	F
Motor protection	IP 44	IP 44

DIMENSIONS (mm)



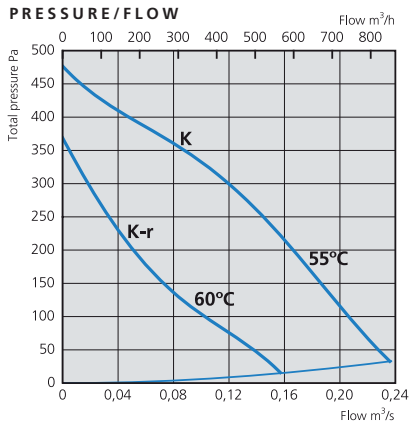
SOUND DATA

LPKBI 200 B, 120 l/s 250 Pa	L _{pA}	L _{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	49	56	26	38	51	52	45	45	39	29
Inlet		61	49	57	57	46	32	32	37	29
Outlet		75	56	62	67	71	64	66	62	51
LPKBI 200 B-r, 60 l/s 100 Pa										
Environment	36	43	23	32	39	38	30	30	26	26
Inlet		52	42	50	47	33	18	17	19	11
Outlet		62	48	54	57	57	50	51	43	30

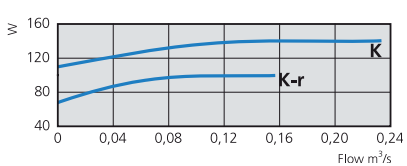
*r = Reduced speed by capacitor cutover.

LPKBI 200 K/K-r*

PRESSURE/FLOW



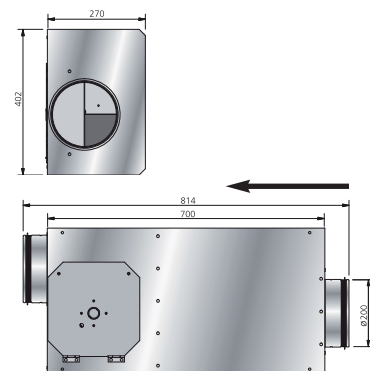
INPUT/FLOW



TECHNICAL DATA

LPKBI	200 K	200 K-r
Voltage, V/Hz	230/50	230/50
Current, A	0,60	0,45
Input, W	140	100
Speed, rpm	2410	1600
Weight, kg	11,0	11,0
Wiring diagram	4040001	4040002
Capacitor, µF	5	5
Insulation class, motor	F	F
Motor protection	IP 44	IP 44

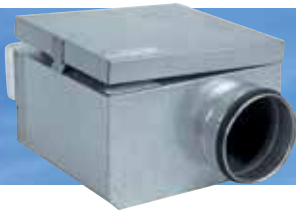
DIMENSIONS (mm)



SOUND DATA

LPKBI 200 K, 135 l/s 250 Pa	L _{pA}	L _{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	52	59	30	40	51	56	48	46	40	34
Inlet		63	50	61	58	50	37	34	41	36
Outlet		78	59	65	67	75	68	67	64	58
LPKBI 200 K-r, 100 l/s 100 Pa										
Environment	43	50	27	40	46	44	36	35	30	27
Inlet		57	47	55	50	38	22	23	29	21
Outlet		68	53	59	62	64	57	57	53	45

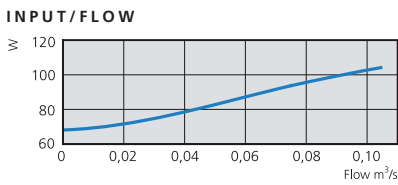
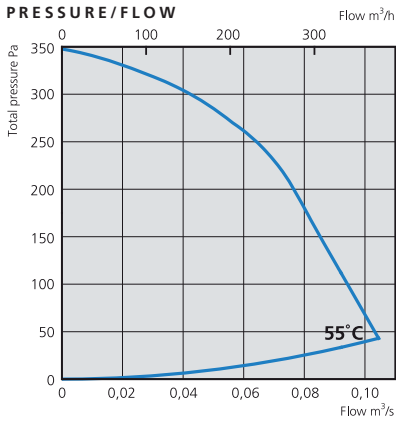
*r = Reduced speed by capacitor cutover.



LPKI 125 B

Insulated low profile duct fan with forward curved impeller and swing-out design

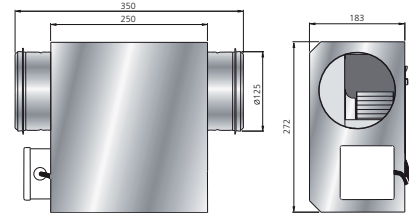
LPKI 125 B



TECHNICAL DATA

LPKI	125 B
Voltage, V/Hz	230/50
Current, A	0,46
Input, W	104
Speed, rpm	1450
Weight, kg	3,9
Wiring diagram	4040001
Capacitor, µF	2
Insulation class, motor	F
Motor protection	IP 44

DIMENSIONS (mm)



SOUND DATA

LPKI 125 B, 70 l/s 240 Pa	L _{pA}	L _{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	45	52	28	42	44	45	46	44	39	40
Inlet		66	58	59	62	59	55	52	43	38
Outlet		71	61	59	64	65	65	62	61	59
Silencing cover										
Environment	43	50	27	41	44	42	44	41	38	39

FUNCTIONAL, DURABLE DESIGNED FOR A LONG LIFE



IRE with circular or rectangular duct connections

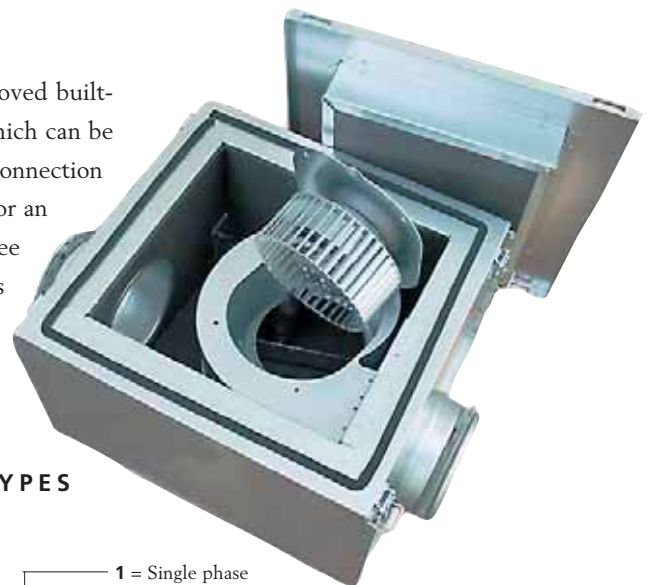
The IRE fan incorporates our double or single inlet centrifugal fans with backward or forward curved impellers. The IRE copes well with high pressures but with low sound levels.

50 mm of thermal and acoustic insulation makes them ideal for handling cold air. Our swing-out design makes cleaning the fan assembly easy. Our design priorities functionality, durability and longevity.

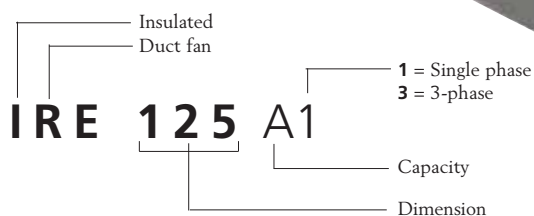
The rigid casing is manufactured from galvanised steel sheet.

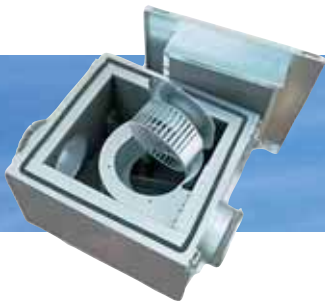
All of our IRE's are equipped with reliable, maintenance free high quality external rotor motors which are speed controllable from 0-100%.

All our motors have approved built-in overheat protection, which can be supplied with external connection leads that could be used for an alarm function. (All three phase motors have this as standard).



KEY TO MODEL TYPES





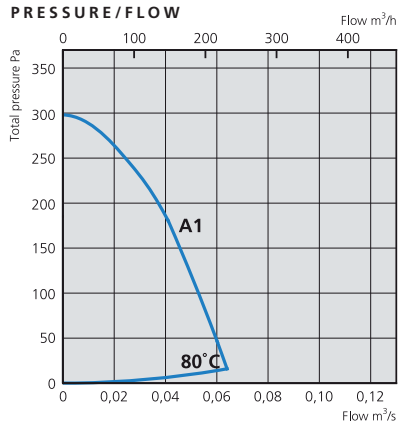
IRE 125 A1

Circular single inlet radial fan with forward curved impeller and swing-out design

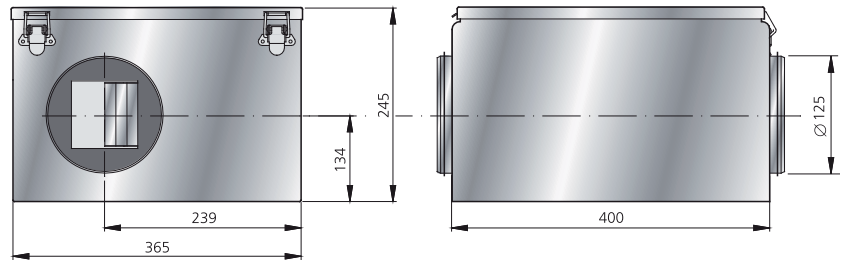
IRE 125 B1

Circular single inlet radial fan with forward curved impeller and swing-out design

IRE 125 A1

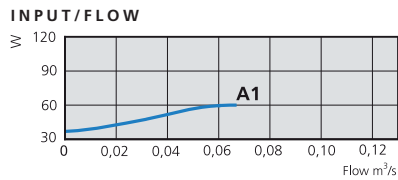


DIMENSIONS (mm)



TECHNICAL DATA

Voltage V/Hz	Current A	Input W	Speed rpm	Weight kg	Wiring diagram	Capacitor μ F	Insulation class motor	Motor protection
230/50	0,27	61	1130	12,0	4040002	4	F	IP 44

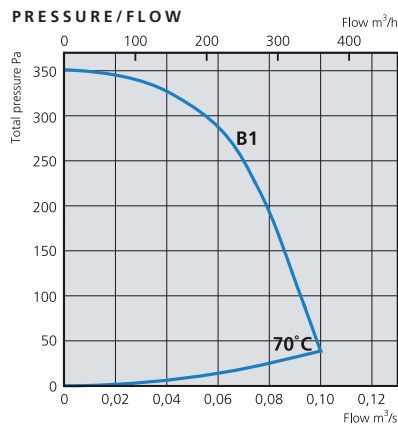


SOUND DATA

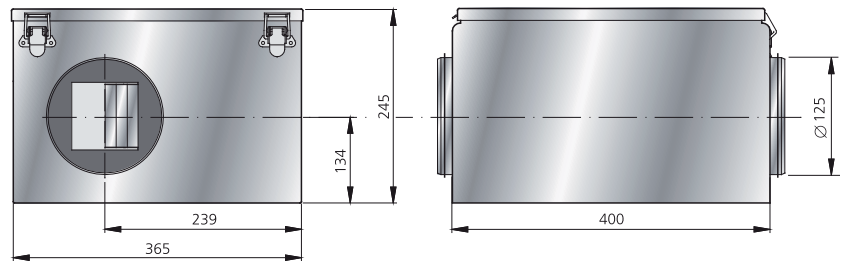
IRE 125 A1, 45 l/s 150 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	28	35	26	28	28	27	27	25	26	27
Inlet		53	36	51	48	43	38	33	29	17
Outlet		61	48	53	54	55	56	50	43	30

All sound data are measured with INTENSITY except IRE 315 A, B OCH C and IRE 500 C

IRE 125 B1

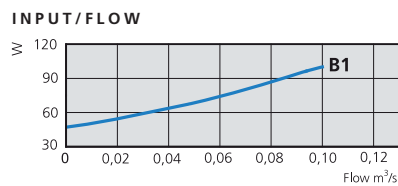


DIMENSIONS (mm)



TECHNICAL DATA

Voltage V/Hz	Current A	Input W	Speed rpm	Weight kg	Wiring diagram	Capacitor μ F	Insulation class motor	Motor protection
230/50	0,42	99	1650	12,0	4040001	2	F	IP 44



SOUND DATA

IRE 125 B1, 65 l/s 280 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	35	42	34	34	39	34	32	28	27	28
Inlet		59	42	56	55	51	44	40	37	27
Outlet		68	55	60	61	64	62	60	53	43

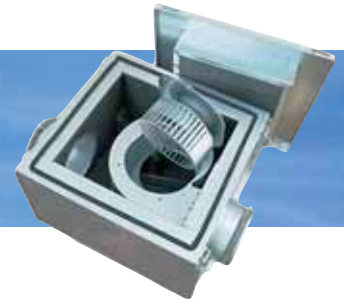
All sound data are measured with INTENSITY except IRE 315 A, B OCH C and IRE 500 C

IRE 125 C1

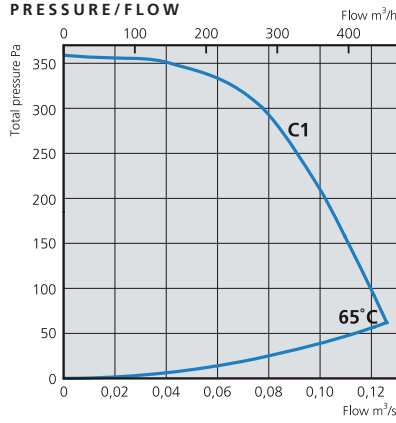
Circular single inlet radial fan with forward curved impeller and swing-out design

IRE 160 B1

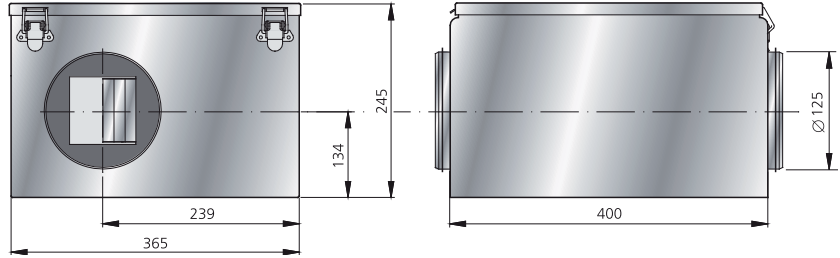
Circular single inlet radial fan with forward curved impeller and swing-out design



IRE 125 C1



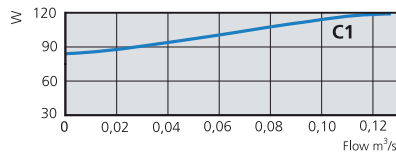
DIMENSIONS (mm)



TECHNICAL DATA

Voltage V/Hz	Current A	Input W	Speed rpm	Weight kg	Wiring diagram	Capacitor µF	Insulation class motor	Motor protection
230/50	0,53	122	1850	12,0	4040001	4	F	IP 44

INPUT/FLOW

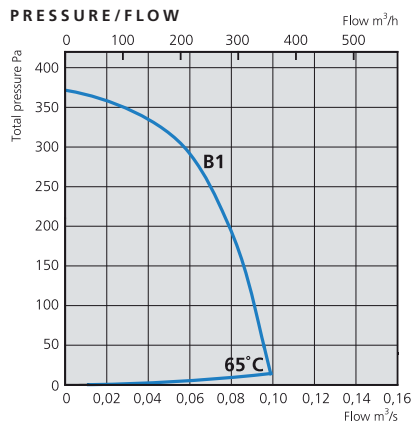


SOUND DATA

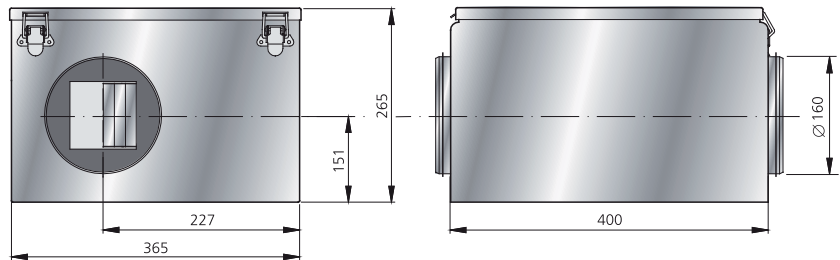
IRE 125 C1, 75 l/s 300 Pa	L _{pA}	L _{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	37	44	28	35	42	36	33	29	28	28
Inlet		62	43	59	57	54	46	44	40	30
Outlet		70	56	62	63	65	64	62	55	46

All sound data are measured with INTENSITY except IRE 315 A, B OCH C and IRE 500 C

IRE 160 B1



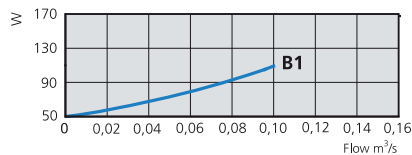
DIMENSIONS (mm)



TECHNICAL DATA

Voltage V/Hz	Current A	Input W	Speed rpm	Weight kg	Wiring diagram	Capacitor µF	Insulation class motor	Motor protection
230/50	0,46	105	1650	13,0	4040001	2	F	IP 44

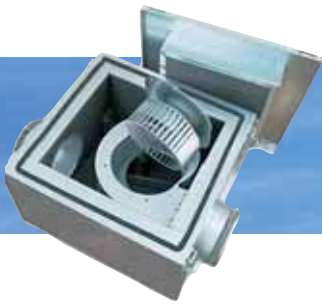
INPUT/FLOW



SOUND DATA

IRE 160 B1, 75 l/s 215 Pa	L _{pA}	L _{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	36	43	29	40	39	34	32	28	27	27
Inlet		61	44	59	56	50	44	39	35	26
Outlet		68	56	61	61	62	61	58	53	44

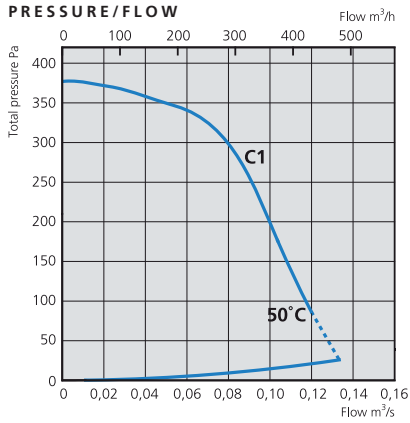
All sound data are measured with INTENSITY except IRE 315 A, B OCH C and IRE 500 C



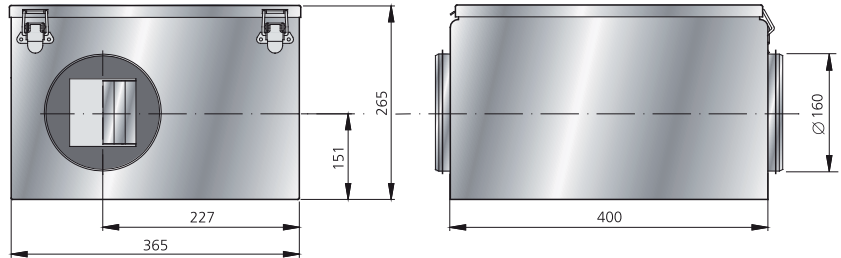
IRE 160 C1
Circular single inlet radial fan with forward curved impeller and swing-out design

IRE 160 D1
Circular single inlet radial fan with forward curved impeller and swing-out design

IRE 160 C1



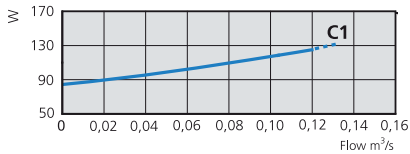
DIMENSIONS (mm)



TECHNICAL DATA

Voltage V/Hz	Current A	Input W	Speed rpm	Weight kg	Wiring diagram	Capacitor μF	Insulation class motor	Motor protection
230/50	0,55	127	1850	13,0	4040001	4	F	IP 44

INPUT/FLOW

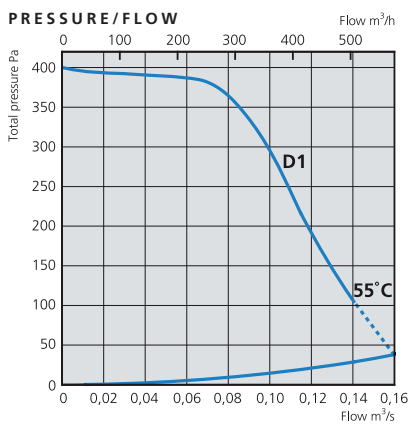


SOUND DATA

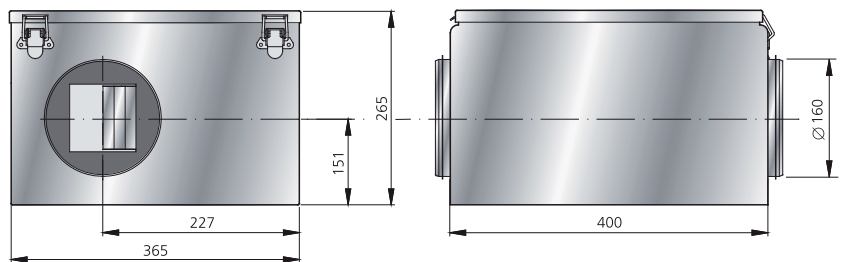
IRE 160 C1, 80 l/s 300 Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	37	44	29	37	41	36	34	30	28	28
Inlet		62	46	60	57	53	46	42	38	29
Outlet		71	58	63	64	65	63	62	56	47

All sound data are measured with INTENSITY except IRE 315 A, B OCH C and IRE 500 C

IRE 160 D1



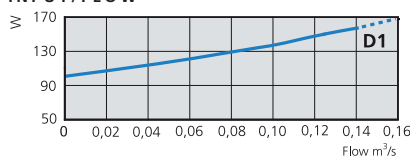
DIMENSIONS (mm)



TECHNICAL DATA

Voltage V/Hz	Current A	Input W	Speed rpm	Weight kg	Wiring diagram	Capacitor μF	Insulation class motor	Motor protection
230/50	0,53	157	2200	13,0	4040001	4	F	IP 44

INPUT/FLOW



SOUND DATA

IRE 160 D1, 90 l/s 340 Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	39	46	33	40	42	41	36	34	30	28
Inlet		65	47	63	61	57	50	48	45	37
Outlet		72	59	64	65	67	65	64	57	51

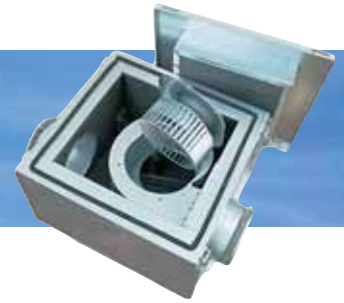
All sound data are measured with INTENSITY except IRE 315 A, B OCH C and IRE 500 C

IRE 200 B1

Circular single inlet radial fan with backward curved impeller and swing-out design

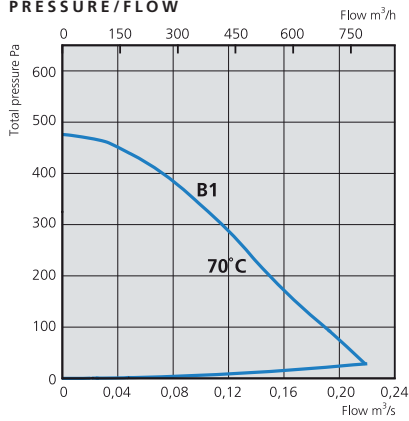
IRE 200 C1

Circular double inlet radial fan with forward curved impeller and swing-out design

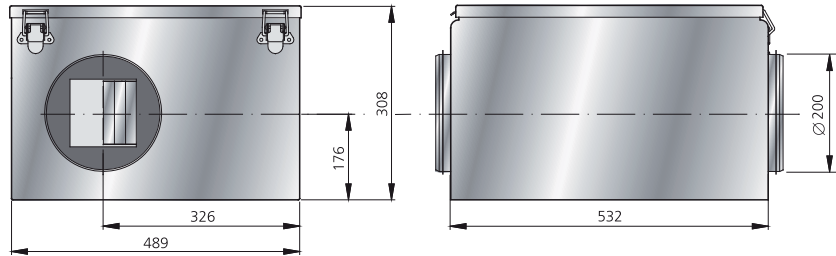


IRE 200 B1

PRESSURE/FLOW



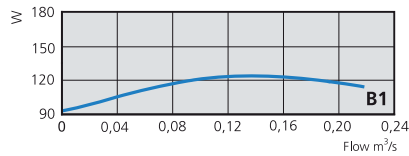
DIMENSIONS (mm)



TECHNICAL DATA

Voltage V/Hz	Current A	Input W	Speed rpm	Weight kg	Wiring diagram	Capacitor µF	Insulation class motor	Motor protection
230/50	0,55	124	2540	22,0	4040001	4	F	IP 44

INPUT/FLOW



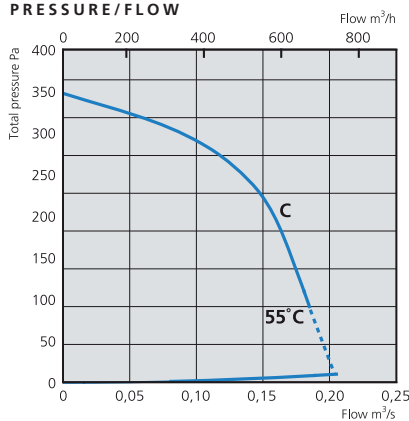
SOUND DATA

IRE 200 B1, 120 l/s 290 Pa	L _{pA}	L _{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	42	49	37	36	44	46	37	37	38	40
Inlet		61	46	52	57	57	51	45	38	27
Outlet		73	56	60	65	70	67	64	57	44

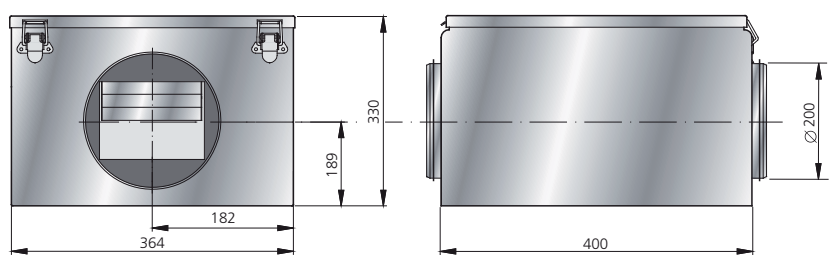
All sound data are measured with INTENSITY except IRE 315 A, B OCH C and IRE 500 C

IRE 200 C1

PRESSURE/FLOW



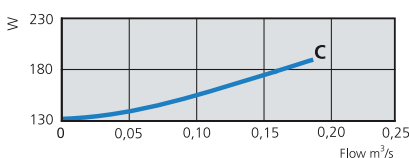
DIMENSIONS (mm)



TECHNICAL DATA

Voltage V/Hz	Current A	Input W	Speed rpm	Weight kg	Wiring diagram	Capacitor µF	Insulation class motor	Motor protection
230/50	0,55	188	1800	14,0	4040001	5	F	IP 44

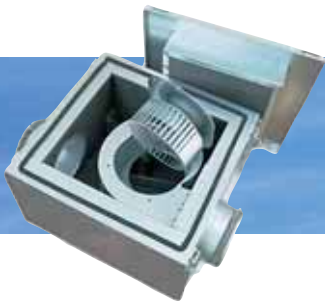
INPUT/FLOW



SOUND DATA

IRE 200 C1, 130 l/s 240 Pa	L _{pA}	L _{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	41	45	36	42	39	40	34	32	30	27
Inlet		63	51	58	58	58	53	54	50	39
Outlet		71	57	62	62	63	66	66	60	52

All sound data are measured with INTENSITY except IRE 315 A, B OCH C and IRE 500 C



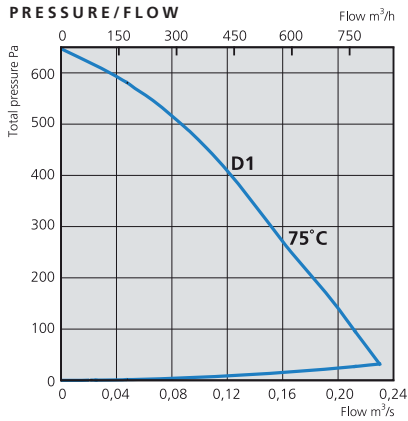
IRE 200 D1

Circular single inlet radial fan with backward curved impeller and swing-out design

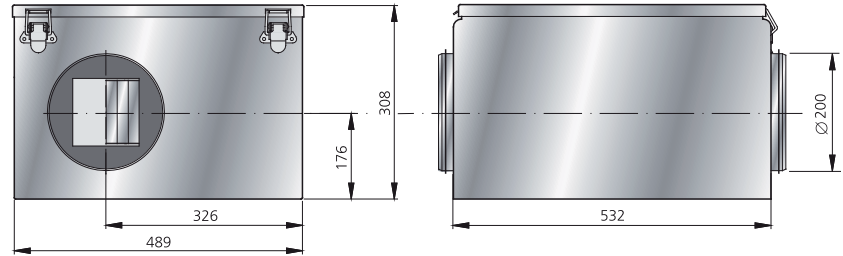
IRE 250 A1

Circular single inlet radial fan with backward curved impeller and swing-out design

IRE 200 D1



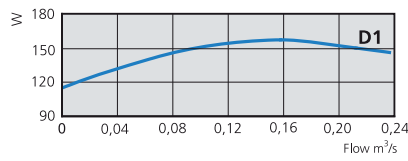
DIMENSIONS (mm)



TECHNICAL DATA

Voltage V/Hz	Current A	Input W	Speed rpm	Weight kg	Wiring diagram	Capacitor μ F	Insulation class motor	Motor protection
230/50	0,69	157	2600	22,0	4040001	4	F	IP 44

INPUT/FLOW

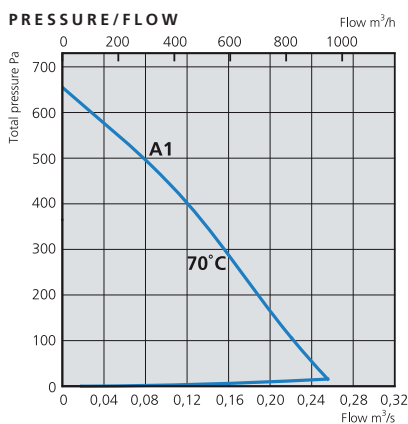


SOUND DATA

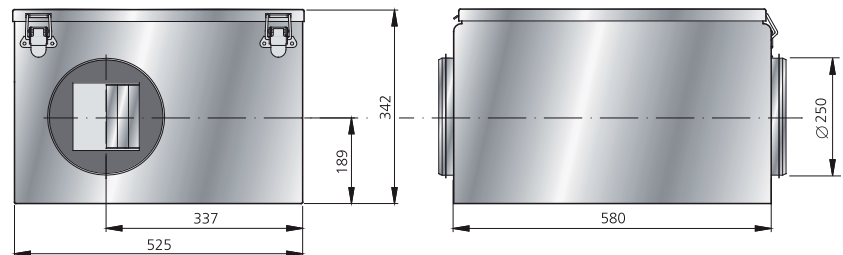
IRE 200 D1, 160 l/s 280 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	42	49	40	38	44	47	38	36	30	27
Inlet		62	46	54	59	57	51	45	42	33
Outlet		74	55	63	67	71	68	65	58	47

All sound data are measured with INTENSITY except IRE 315 A, B OCH C and IRE 500 C

IRE 250 A1



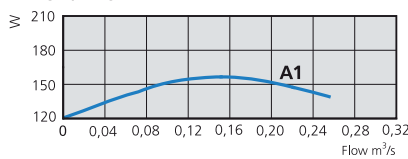
DIMENSIONS (mm)



TECHNICAL DATA

Voltage V/Hz	Current A	Input W	Speed rpm	Weight kg	Wiring diagram	Capacitor μ F	Insulation class motor	Motor protection
230/50	0,67	154	2540	27,0	4040001	4	F	IP 44

INPUT/FLOW



SOUND DATA

IRE 250 A1, 120 l/s 400 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	43	50	37	39	44	46	39	39	38	40
Inlet		60	47	54	54	57	50	46	44	37
Outlet		73	51	59	62	71	67	63	58	49

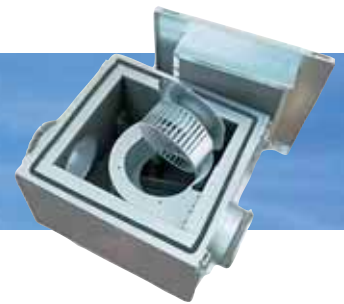
All sound data are measured with INTENSITY except IRE 315 A, B OCH C and IRE 500 C

IRE 250 B1

Circular single inlet radial fan with forward curved impeller and swing-out design

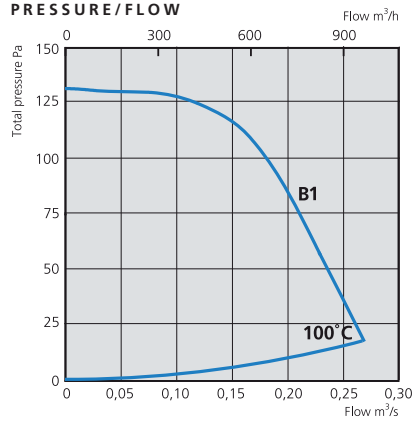
IRE 250 C1

Circular double inlet radial fan with forward curved impeller and swing-out design

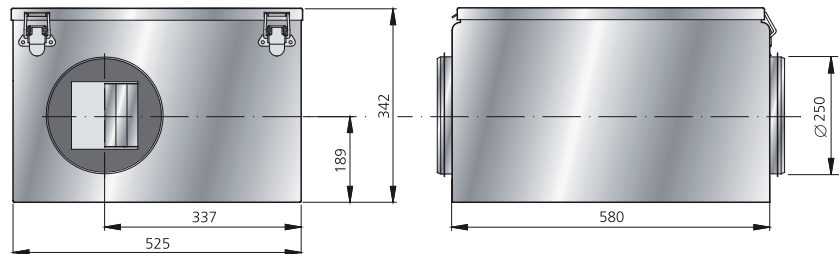


IRE 250 B1

PRESSURE/FLOW



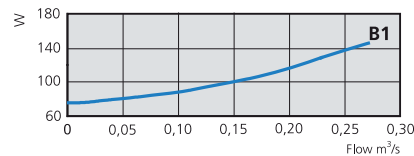
DIMENSIONS (mm)



TECHNICAL DATA

Voltage V/Hz	Current A	Input W	Speed rpm	Weight kg	Wiring diagram	Capacitor µF	Insulation class motor	Motor protection
230/50	0,63	138	900	30,0	4040005	3	F	IP 44

INPUT/FLOW



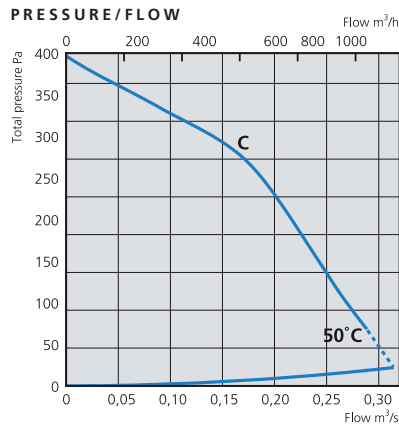
SOUND DATA

IRE 250 B1, 160 l/s 110 Pa	L _{pA}	L _{wA}	tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	37	44	31	39	37	32	31	33	35	39	
Inlet		57	50	55	50	45	40	38	32	24	
Outlet		65	54	55	57	61	59	54	51	40	

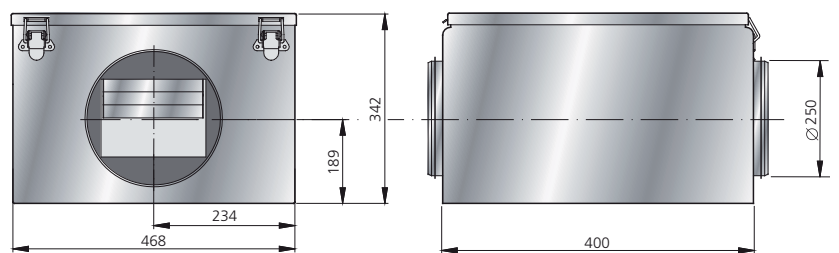
All sound data are measured with INTENSITY except IRE 315 A, B OCH C and IRE 500 C

IRE 250 C1

PRESSURE/FLOW



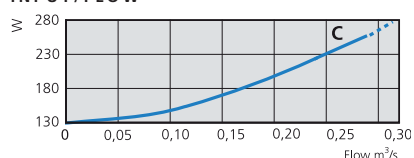
DIMENSIONS (mm)



TECHNICAL DATA

Voltage V/Hz	Current A	Input W	Speed rpm	Weight kg	Wiring diagram	Capacitor µF	Insulation class motor	Motor protection
230/50	1,13	256	2120	18,0	4040001	5	F	IP 44

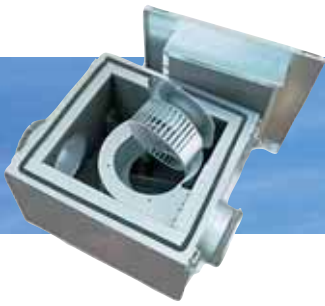
INPUT/FLOW



SOUND DATA

IRE 250 C1, 160 l/s 320 Pa	L _{pA}	L _{wA}	tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	43	47	41	38	45	39	34	36	35	36	
Inlet		63	53	59	58	55	50	47	46	44	
Outlet		70	58	61	60	63	62	63	61	58	

All sound data are measured with INTENSITY except IRE 315 A, B OCH C and IRE 500 C



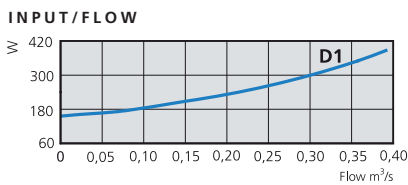
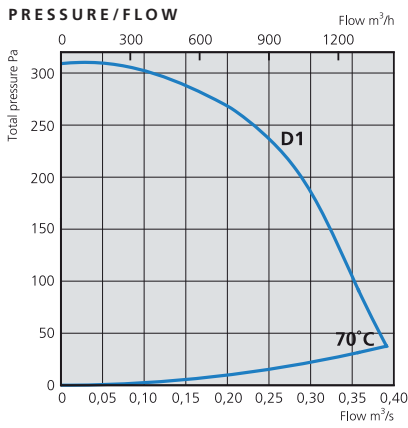
IRE 250 D1

Circular single inlet radial fan with forward curved impeller and swing-out design

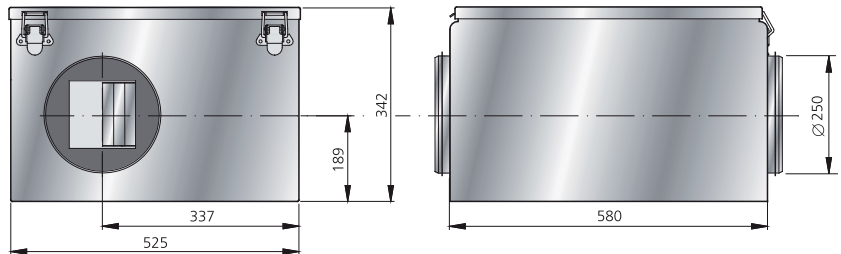
IRE 250 E1

Circular single inlet radial fan with backward curved impeller and swing-out design

IRE 250 D1



DIMENSIONS (mm)



TECHNICAL DATA

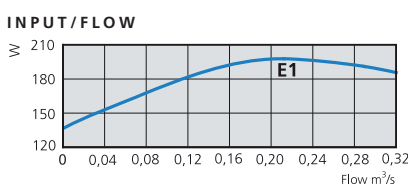
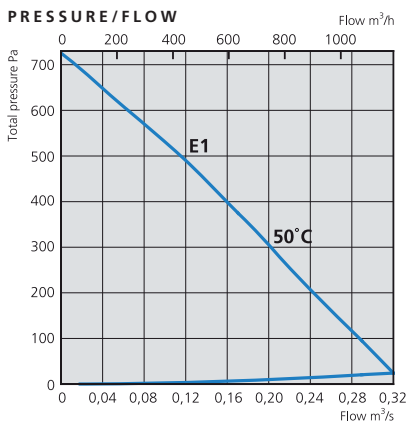
Voltage V/Hz	Current A	Input W	Speed rpm	Weight kg	Wiring diagram	Capacitor μF	Insulation class motor	Motor protection
230/50	0,89	201	2420	27,0	4040001	5	F	IP 44

SOUND DATA

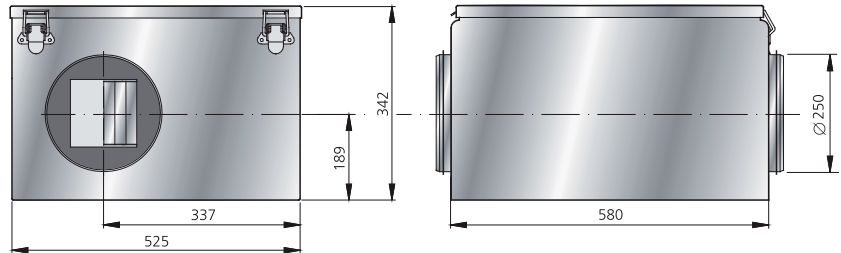
IRE 250 D1, 200 l/s 270 Pa		L _{pA}	L _{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment		45	52	43	48	48	42	38	36	37	39
Inlet			63	55	59	59	52	48	47	42	34
Outlet			73	59	60	64	68	68	64	62	53

All sound data are measured with INTENSITY except IRE 315 A, B OCH C and IRE 500 C

IRE 250 E1



DIMENSIONS (mm)



TECHNICAL DATA

Voltage V/Hz	Current A	Input W	Speed rpm	Weight kg	Wiring diagram	Capacitor μF	Insulation class motor	Motor protection
230/50	0,89	201	2420	27,0	4040001	5	F	IP 44

SOUND DATA

IRE 250 E1, 150 l/s 430 Pa		L _{pA}	L _{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment		44	51	36	41	48	44	36	40	37	39
Inlet			62	48	55	60	56	50	45	43	36
Outlet			74	52	61	67	71	67	63	58	48

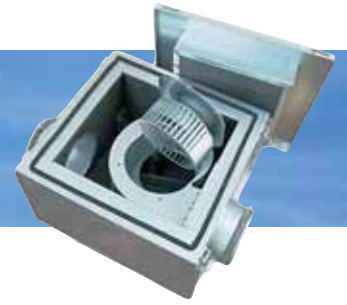
All sound data are measured with INTENSITY except IRE 315 A, B OCH C and IRE 500 C

IRE 315 A1

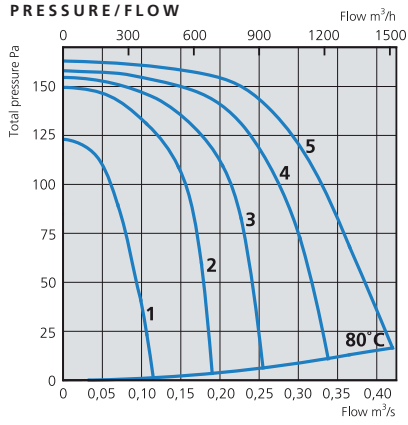
Circular single inlet radial fan with forward curved impeller and swing-out design

IRE 315 B1

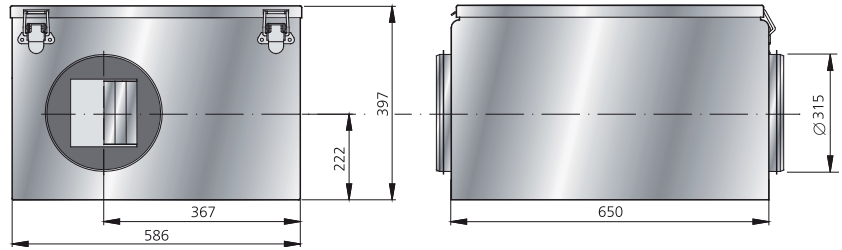
Circular single inlet radial fan with forward curved impeller and swing-out design



IRE 315 A1



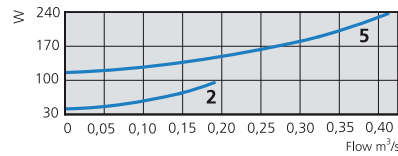
DIMENSIONS (mm)



TECHNICAL DATA

Voltage V/Hz	Current A	Input W	Speed rpm	Weight kg	Wiring diagram	Capacitor μF	Insulation class motor	Motor protection
230/50	1,10	240	880	38,0	4040005	5	F	IP 44

INPUT/FLOW

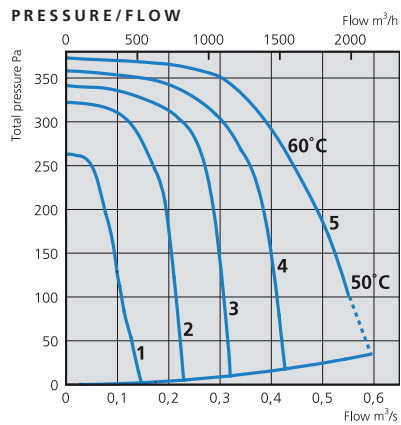


SOUND DATA

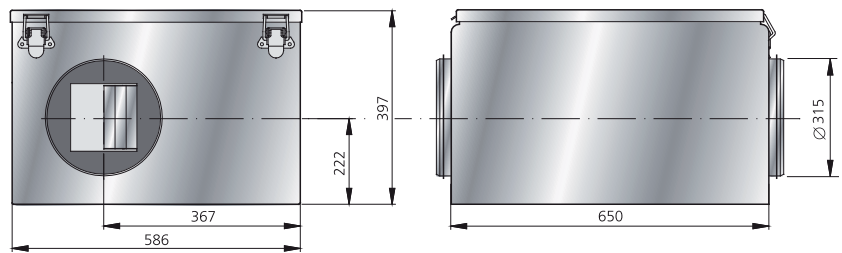
IRE 315 A1, 230 l/s 150 Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	39	46	32	42	39	38	38	32	35	37
Inlet		61	53	56	57	48	49	46	45	39
Outlet		69	56	59	62	63	62	62	61	52

Measured with sound pressure.

IRE 315 B1



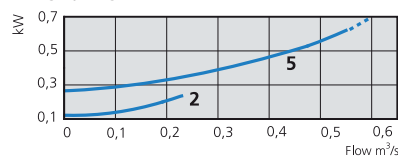
DIMENSIONS (mm)



TECHNICAL DATA

Voltage V/Hz	Current A	Input kW	Speed rpm	Weight kg	Wiring diagram	Capacitor μF	Insulation class motor	Motor protection
230/50	3,00	0,62	1330	40,0	4040005	12	F	IP 44

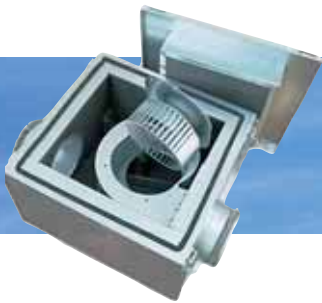
INPUT/FLOW



SOUND DATA

IRE 315 B1, 310 l/s 340 Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	45	52	42	46	48	46	40	38	37	37
Inlet		71	60	67	66	58	55	59	59	54
Outlet		79	65	67	69	72	72	72	73	66

Measured with sound pressure.



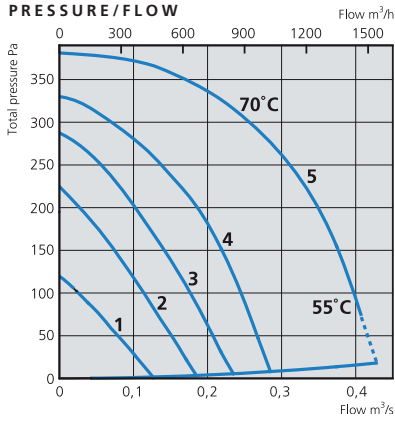
IRE 315 C1

Two circular double inlet radial fans with forward curved impeller and swing-out design

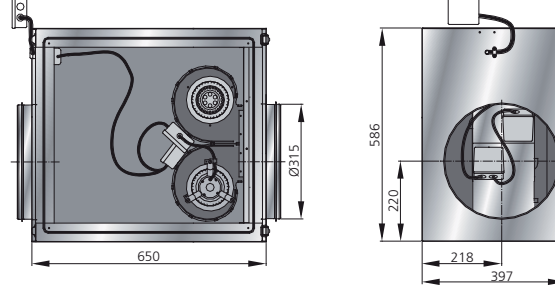
IRE 355 C1

Two circular double inlet radial fans with forward curved impeller and swing-out design

IRE 315 C1



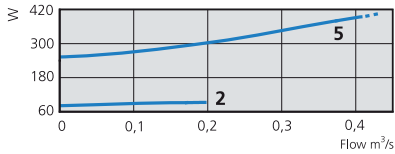
DIMENSIONS (mm)



TECHNICAL DATA

Voltage V/Hz	Current A	Input W	Speed rpm	Weight kg	Wiring diagram	Capacitor μ F	Insulation class motor	Motor protection
230/50	1,70	390	1450	30,0	4040021	5	F	IP 44

INPUT/FLOW

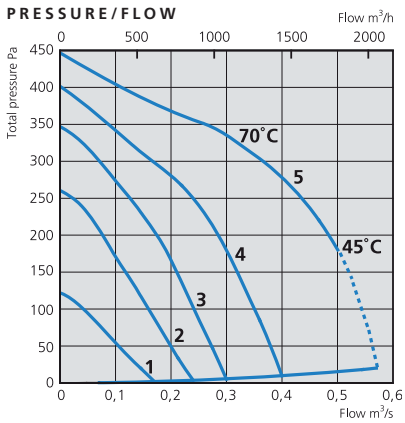


SOUND DATA

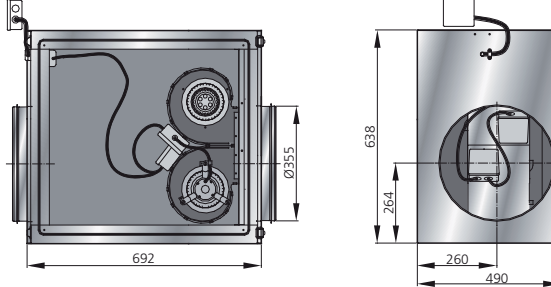
IRE 315 C1, 310 l/s 250 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	37	44	29	36	37	41	35	31	39	36
Inlet		63	46	56	55	54	54	55	52	44
Outlet		72	51	58	59	61	65	69	64	57

Measured with sound pressure.

IRE 355 C1



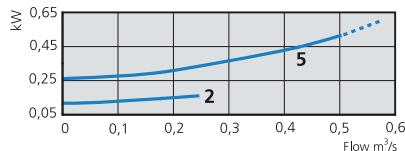
DIMENSIONS (mm)



TECHNICAL DATA

Voltage V/Hz	Current A	Input kW	Speed rpm	Weight kg	Wiring diagram	Capacitor μ F	Insulation class motor	Motor protection
230/50	2,30	0,54	1850	31,0	4040021	5	F	IP 44

INPUT/FLOW



SOUND DATA

IRE 355 C1, 450 l/s 250 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	39	46	32	37	38	42	39	34	33	27
Inlet		67	54	61	61	57	55	58	54	48
Outlet		76	59	64	63	65	69	73	68	60

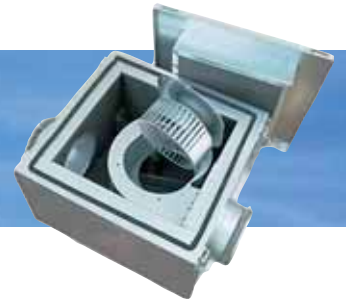
All sound data are measured with INTENSITY except IRE 315 A, B OCH C and IRE 500 C

IRE 400 C 1

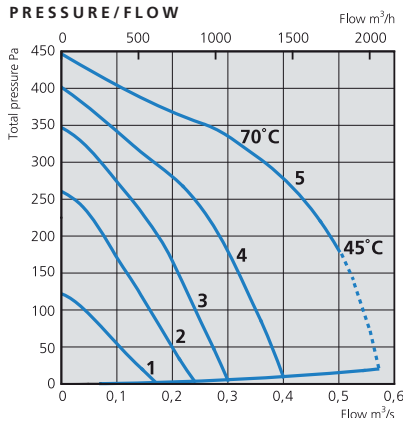
Two circular double inlet radial fans with forward curved impeller and swing-out design

IRE 400 D 1

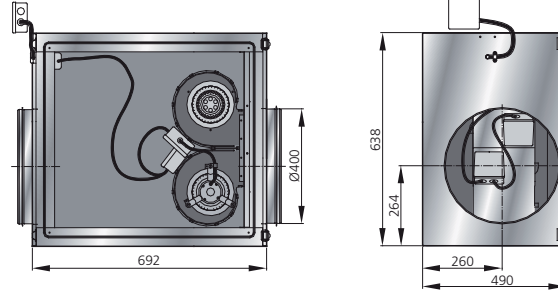
Circular single inlet radial fan with forward curved impeller and swing-out design



IRE 400 C 1

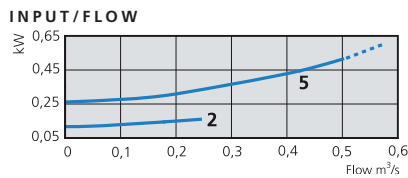


DIMENSIONS (mm)



TECHNICAL DATA

Voltage V/Hz	Current A	Input kW	Speed rpm	Weight kg	Wiring diagram	Capacitor μF	Insulation class motor	Motor protection
230/50	2,30	0,54	1850	31,0	4040021	5	F	IP 44

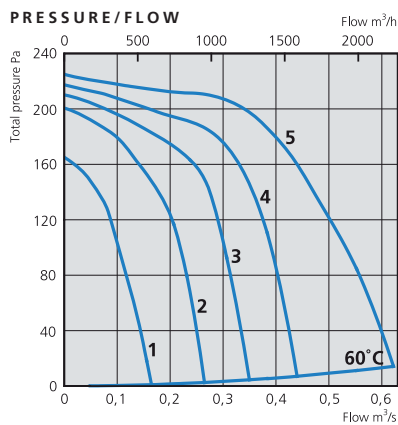


SOUND DATA

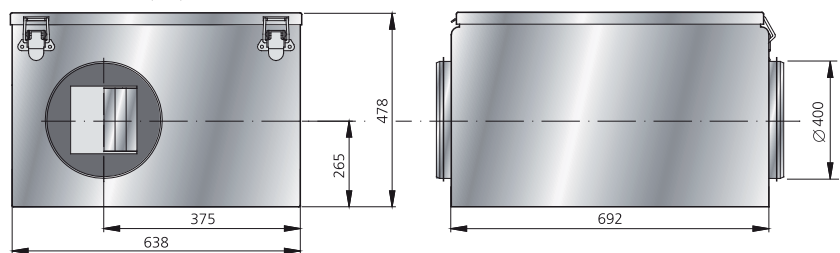
IRE 400 C 1, 450 l/s 250 Pa	L _{pA}	L _{wA}	tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	39	46	32	37	38	42	39	34	33	27	
Inlet		67	54	61	61	57	55	58	54	48	
Outlet		76	59	64	63	65	69	73	68	60	

All sound data are measured with INTENSITY except IRE 315 A, B OCH C and IRE 500 C

IRE 400 D 1

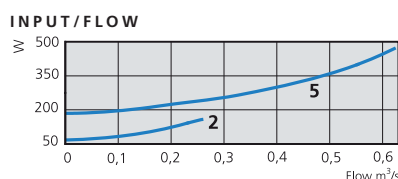


DIMENSIONS (mm)



TECHNICAL DATA

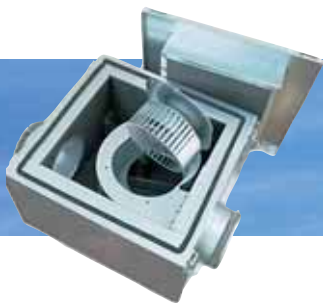
Voltage V/Hz	Current A	Input W	Speed rpm	Weight kg	Wiring diagram	Capacitor μF	Insulation class motor	Motor protection
230/50	2,10	470	810	50,0	4040005	8	F	IP 44



SOUND DATA

IRE 400 D 1, 370 l/s 190 Pa	L _{pA}	L _{wA}	tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	39	46	42	36	40	40	39	35	36	37	
Inlet		62	54	57	56	53	52	50	47	37	
Outlet		71	62	65	63	65	65	60	60	49	

All sound data are measured with INTENSITY except IRE 315 A, B OCH C and IRE 500 C



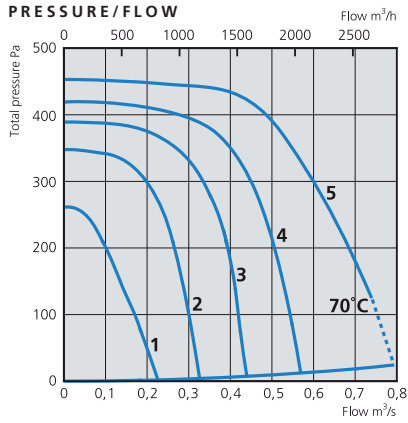
IRE 400 F1

Circular single inlet radial fan with forward curved impeller and swing-out design

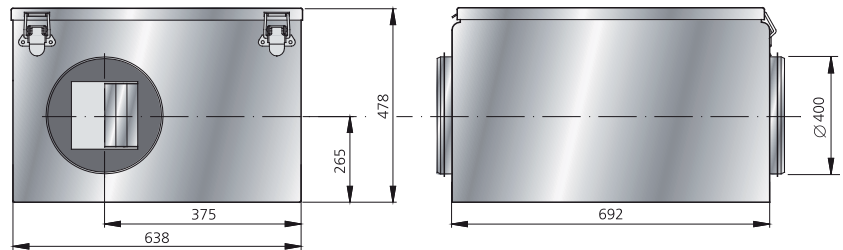
IRE 500 A3

Circular single inlet radial fan with forward curved impeller and swing-out design

IRE 400 F1



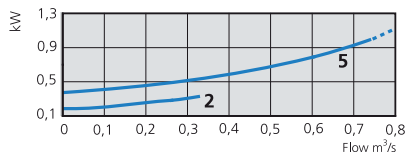
DIMENSIONS (mm)



TECHNICAL DATA

Voltage V/Hz	Current A	Input kW	Speed rpm	Weight kg	Wiring diagram	Capacitor μF	Insulation class motor	Motor protection
230/50	4,70	1,00	1200	50,0	4040005	20	F	IP 44

INPUT/FLOW

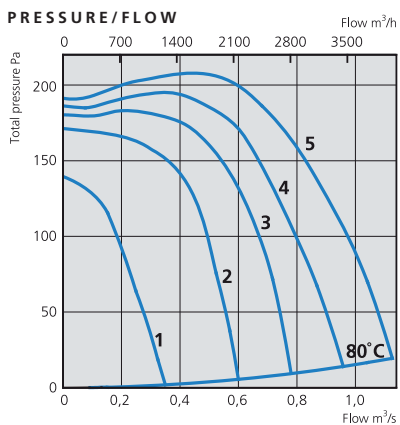


SOUND DATA

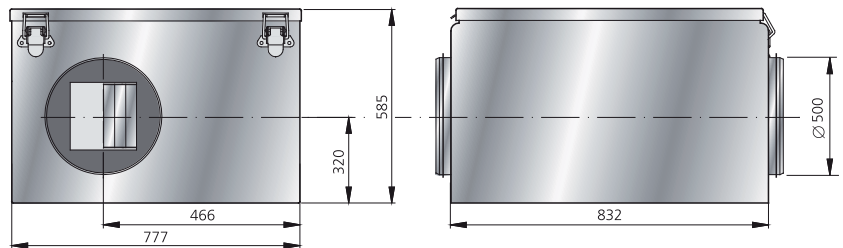
IRE 400 F1, 440 l/s 430 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	46	53	46	46	49	45	45	43	43	41
Inlet		68	58	63	65	58	57	56	53	45
Outlet		78	67	67	69	71	74	69	68	60

All sound data are measured with INTENSITY except IRE 315 A, B OCH C and IRE 500 C

IRE 500 A3



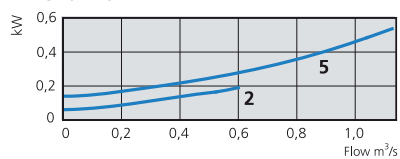
DIMENSIONS (mm)



TECHNICAL DATA

Voltage V/Hz	Current A	Input kW	Speed rpm	Weight kg	Wiring diagram	Capacitor μF	Insulation class motor	Motor protection
400/50	2,00	0,54	690	75,0	4040004	-	F	IP 44

INPUT/FLOW



SOUND DATA

IRE 500 A3, 570 l/s 200 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	42	49	42	36	44	46	41	39	39	37
Inlet		62	55	57	56	53	52	53	50	38
Outlet		73	58	59	63	68	68	67	65	51

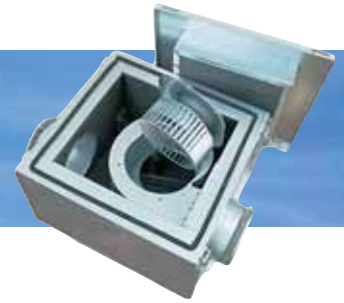
All sound data are measured with INTENSITY except IRE 315 A, B OCH C and IRE 500 C

IRE 500 B1

Circular single inlet radial fan with forward curved impeller and swing-out design

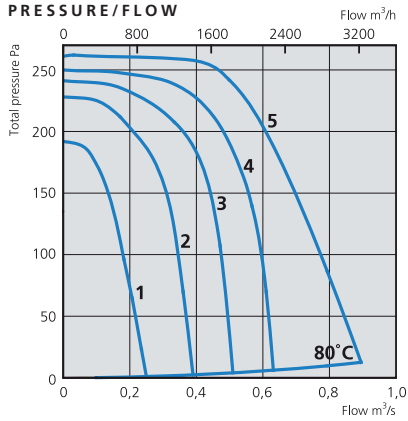
IRE 500 C3

Circular single inlet radial fan with forward curved impeller and swing-out design

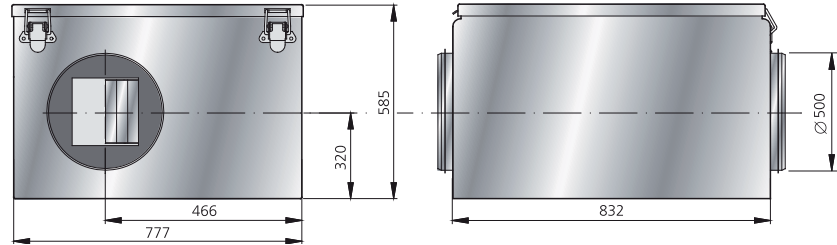


IRE 500 B1

PRESSURE/FLOW



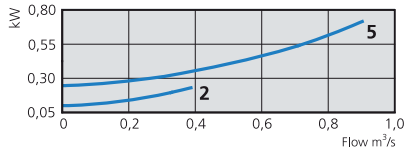
DIMENSIONS (mm)



TECHNICAL DATA

Voltage V/Hz	Current A	Input W	Speed rpm	Weight kg	Wiring diagram	Capacitor μ F	Insulation class motor	Motor protection
230/50	3,30	0,74	850	66,0	4040005	16	F	IP 44

INPUT/FLOW



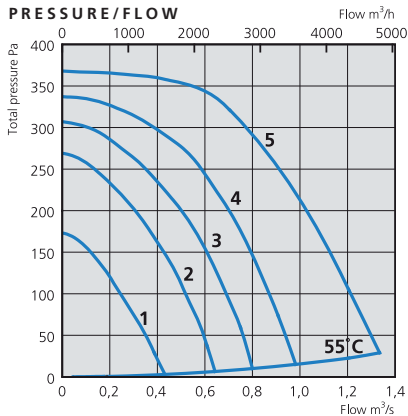
SOUND DATA

IRE 500 B1, 560 l/s 220 Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	43	50	42	38	46	45	41	41	40	37
Inlet		63	54	57	59	54	54	53	51	40
Outlet		74	57	59	64	68	69	68	66	54

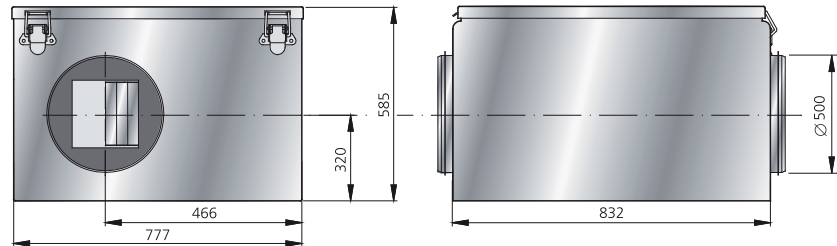
All sound data are measured with INTENSITY except IRE 315 A, B OCH C and IRE 500 C

IRE 500 C3

PRESSURE/FLOW



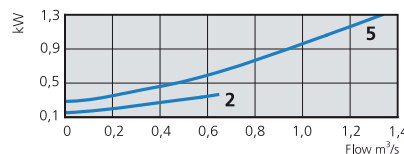
DIMENSIONS (mm)



TECHNICAL DATA

Voltage V/Hz	Current A	Input kW	Speed rpm	Weight kg	Wiring diagram	Capacitor μ F	Insulation class motor	Motor protection
400/50	2,60	1,30	800	74,0	4040004	-	F	IP 44

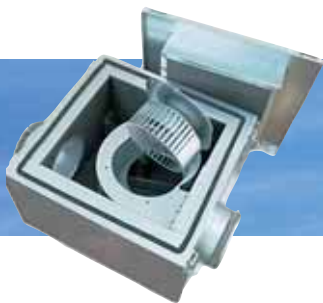
INPUT/FLOW



SOUND DATA

IRE 500 C3, 700 l/s 320 Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	44	51	43	41	44	45	46	39	38	38
Inlet		69	59	62	59	59	62	61	62	55
Outlet		80	59	64	66	70	75	74	74	67

Measured with sound pressure.



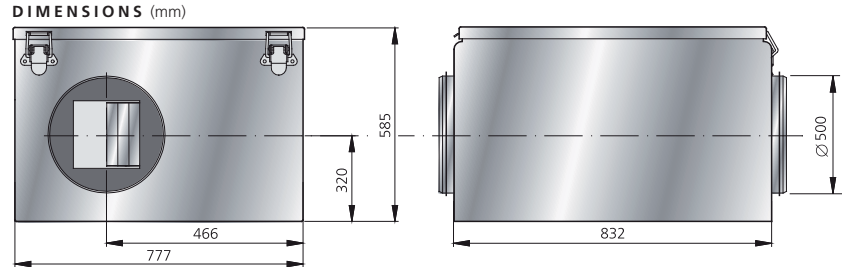
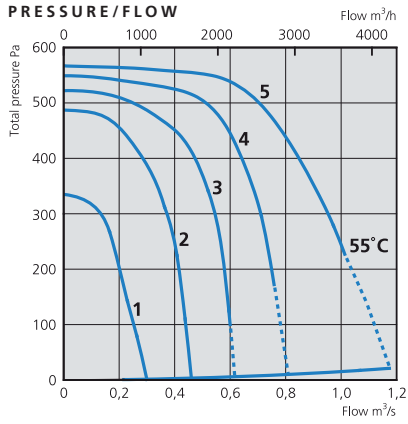
IRE 500 D1

Circular single inlet radial fan with forward curved impeller and swing-out design

IRE 500 E3

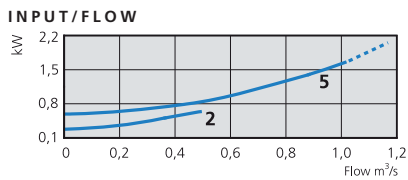
Circular single inlet radial fan with forward curved impeller and swing-out design

IRE 500 D1



TECHNICAL DATA

Voltage V/Hz	Current A	Input kW	Speed rpm	Weight kg	Wiring diagram	Capacitor µF	Insulation class motor	Motor protection
230/50	8,00	1,78	1280	71,0	4040005	30	F	IP 44

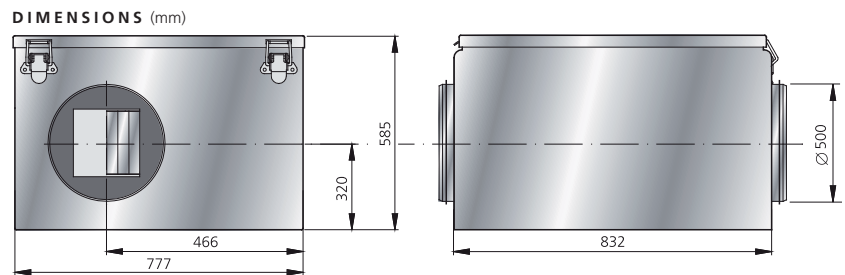
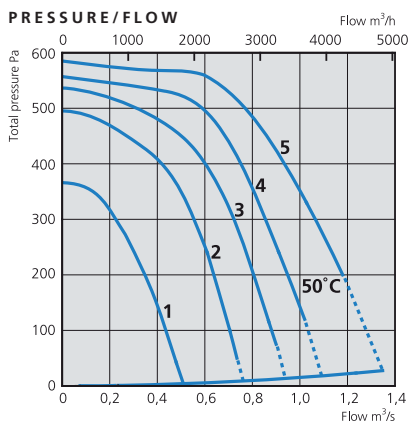


SOUND DATA

IRE 500 D1, 820 l/s 430 Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	52	59	53	48	54	53	52	52	50	43
Inlet		73	64	67	69	62	65	65	61	53
Outlet		86	67	72	75	77	82	81	78	68

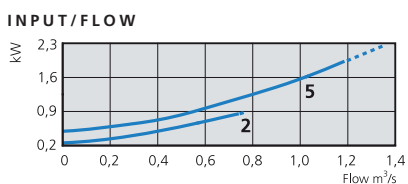
All sound data are measured with INTENSITY except IRE 315 A, B OCH C and IRE 500 C

IRE 500 E3



TECHNICAL DATA

Voltage V/Hz	Current A	Input kW	Speed rpm	Weight kg	Wiring diagram	Capacitor µF	Insulation class motor	Motor protection
400/50	4,00	1,88	1380	71,0	4040004	-	F	IP 44



SOUND DATA

IRE 500 E3, 830 l/s 470 Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	52	59	53	47	52	52	53	53	51	45
Inlet		73	64	68	65	64	66	66	63	55
Outlet		87	67	72	75	78	83	81	78	68

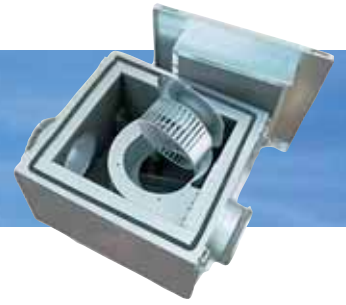
All sound data are measured with INTENSITY except IRE 315 A, B OCH C and IRE 500 C

IRE 500 F3

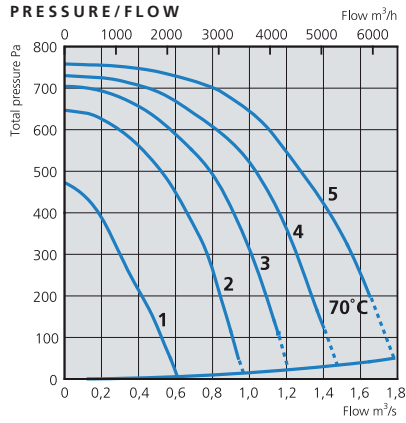
Circular single inlet radial fan with forward curved impeller and swing-out design

IRE 630 A3

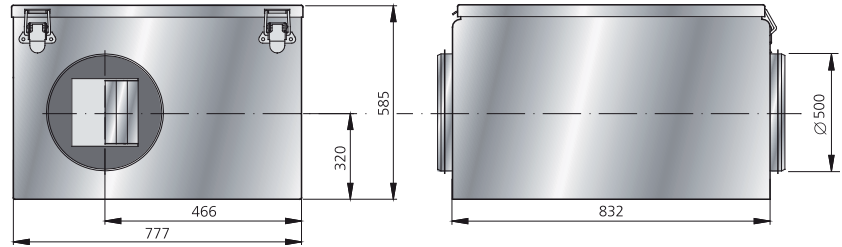
Circular single inlet radial fan with forward curved impeller and swing-out design



IRE 500 F3



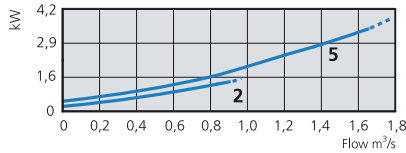
DIMENSIONS (mm)



TECHNICAL DATA

Voltage V/Hz	Current A	Input kW	Speed rpm	Weight kg	Wiring diagram	Capacitor µF	Insulation class motor	Motor protection
400/50	5,80	3,40	1390	85,0	4040004	-	F	IP 44

INPUT/FLOW

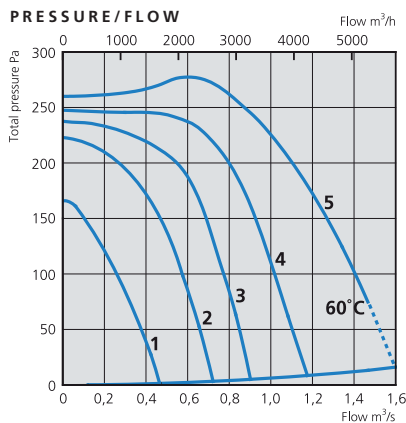


SOUND DATA

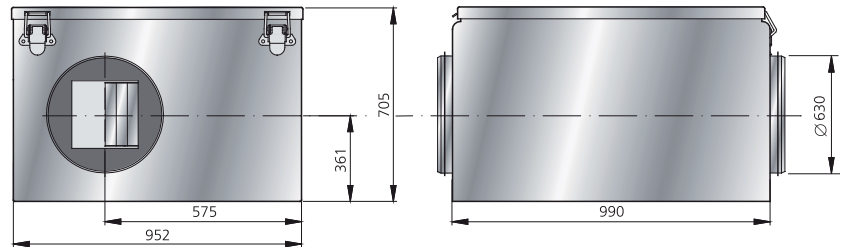
IRE 500 F3, 830 l/s 700 Pa	L _{pA}	L _{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	55	62	55	51	56	54	55	56	55	49
Inlet		77	67	72	68	64	69	71	67	59
Outlet		88	67	73	75	78	85	82	79	69

All sound data are measured with INTENSITY except IRE 315 A, B OCH C and IRE 500 C

IRE 630 A3



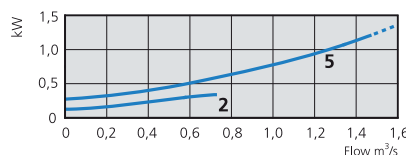
DIMENSIONS (mm)



TECHNICAL DATA

Voltage V/Hz	Current A	Input kW	Speed rpm	Weight kg	Wiring diagram	Capacitor µF	Insulation class motor	Motor protection
400/50	2,80	1,20	660	86,0	4040004	-	F	IP 44

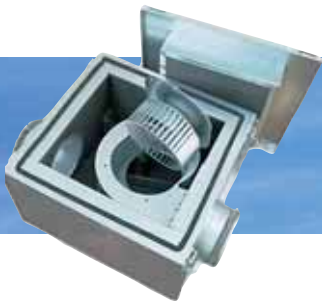
INPUT/FLOW



SOUND DATA

IRE 630 A3, 960 l/s 230 Pa	L _{pA}	L _{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	45	52	44	43	47	48	41	43	39	37
Inlet		64	56	58	55	53	57	56	53	41
Outlet		79	66	67	69	73	73	73	69	57

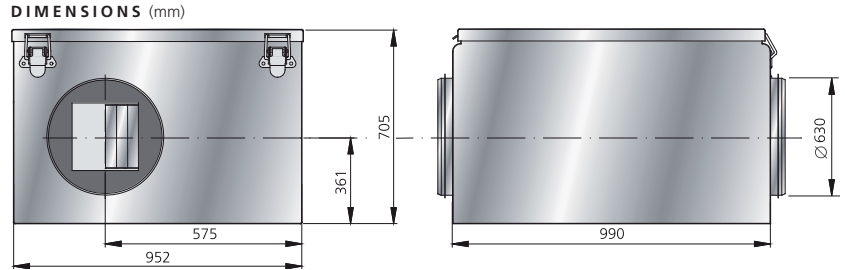
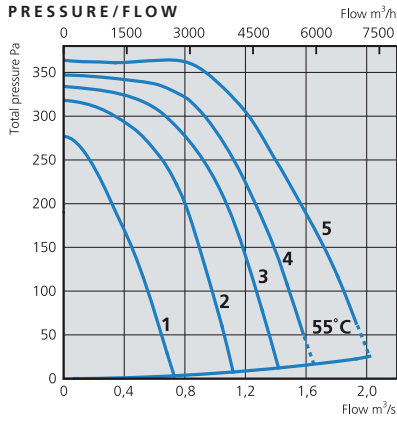
All sound data are measured with INTENSITY except IRE 315 A, B OCH C and IRE 500 C



IRE 630 B3
Circular single inlet radial fan with forward curved impeller and swing-out design

IRE 630 C3
Circular single inlet radial fan with forward curved impeller and swing-out design

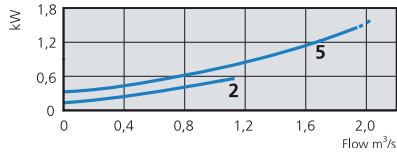
IRE 630 B3



TECHNICAL DATA

Voltage V/Hz	Current A	Input kW	Speed rpm	Weight kg	Wiring diagram	Capacitor μF	Insulation class motor	Motor protection
400/50	4,80	1,48	680	105,0	4040004	-	F	IP 44

INPUT/FLOW

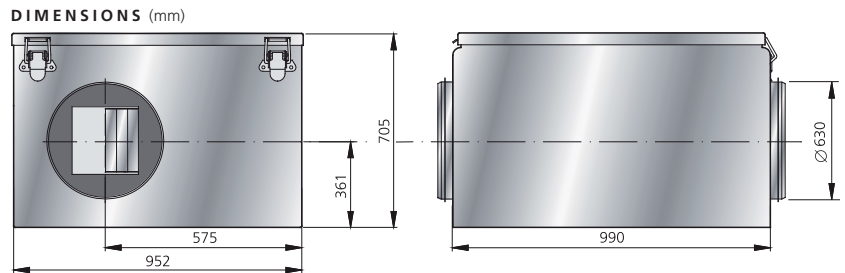
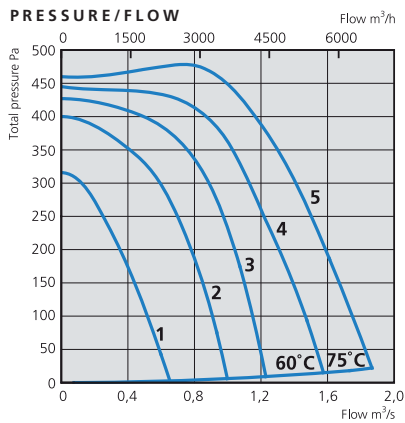


SOUND DATA

IRE 630 B3, 960 l/s 350 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	48	55	46	44	49	52	46	48	43	38
Inlet		67	59	62	58	56	61	60	57	46
Outlet		79	65	66	68	73	74	74	69	58

All sound data are measured with INTENSITY except IRE 315 A, B OCH C and IRE 500 C

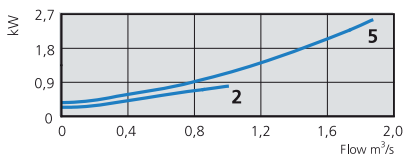
IRE 630 C3



TECHNICAL DATA

Voltage V/Hz	Current A	Input kW	Speed rpm	Weight kg	Wiring diagram	Capacitor μF	Insulation class motor	Motor protection
400/50	4,70	2,54	890	94,0	4040004	-	F	IP 44

INPUT/FLOW



SOUND DATA

IRE 630 C3, 810 l/s 480 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	45	52	46	45	46	47	43	45	42	39
Inlet		68	60	63	57	56	61	61	57	47
Outlet		79	63	66	67	72	74	74	70	58

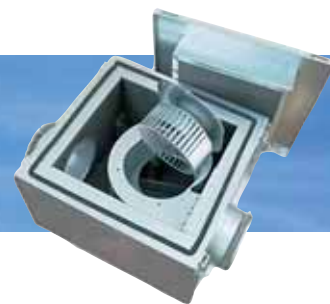
All sound data are measured with INTENSITY except IRE 315 A, B OCH C and IRE 500 C

IRE 630 D3

Circular single inlet radial fan with forward curved impeller and swing-out design

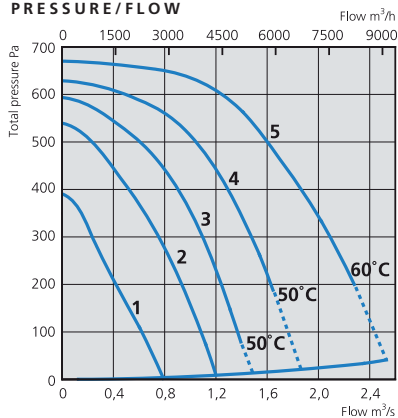
IRE 630 E3

Circular single inlet radial fan with forward curved impeller and swing-out design

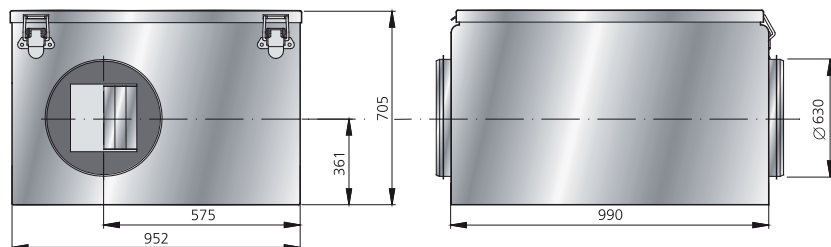


IRE 630 D3

PRESSURE/FLOW



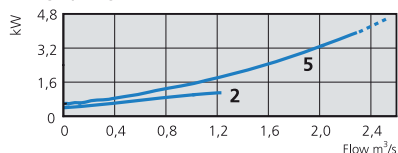
DIMENSIONS (mm)



TECHNICAL DATA

Voltage V/Hz	Current A	Input kW	Speed rpm	Weight kg	Wiring diagram	Capacitor µF	Insulation class motor	Motor protection
400/50	7,00	4,00	870	105,0	4040004	-	F	IP 44

INPUT/FLOW



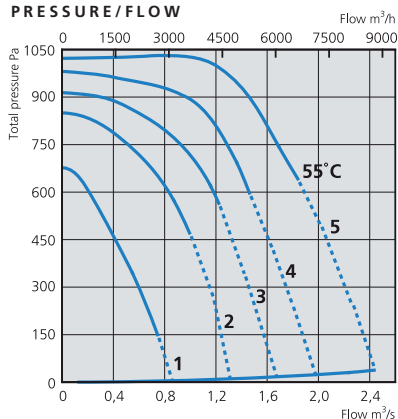
SOUND DATA

IRE 630 D3, 1090 l/s 630 Pa	L_{pA}	L_{wA}	tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	51	58		52	48	53	54	49	50	46	43
Inlet		71		64	66	61	59	65	62	60	50
Outlet		83		66	70	70	76	79	79	73	63

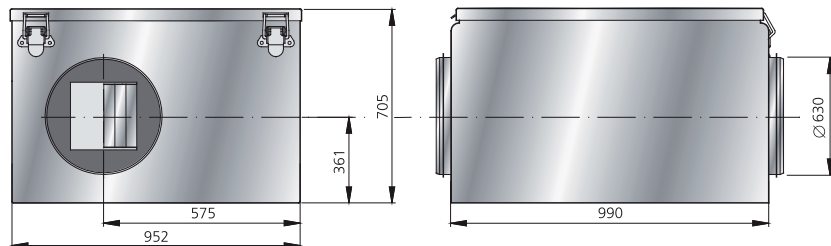
All sound data are measured with INTENSITY except IRE 315 A, B OCH C and IRE 500 C

IRE 630 E3

PRESSURE/FLOW



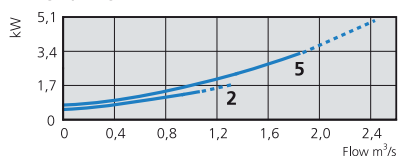
DIMENSIONS (mm)



TECHNICAL DATA

Voltage V/Hz	Current A	Input kW	Speed rpm	Weight kg	Wiring diagram	Capacitor µF	Insulation class motor	Motor protection
400/50	8,9	3,21	1390	96,0	4040004	-	F	IP 44

INPUT/FLOW



SOUND DATA

IRE 630 E3, 1180 l/s 1010 Pa	L_{pA}	L_{wA}	tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	56	63		57	54	57	56	56	58	53	48
Inlet		78		67	72	67	63	73	73	68	60
Outlet		92		73	77	78	82	88	87	82	72

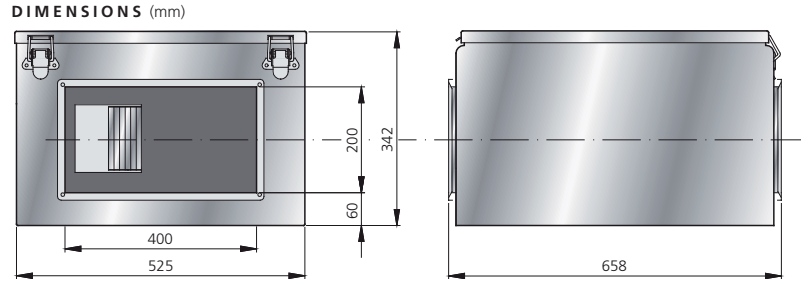
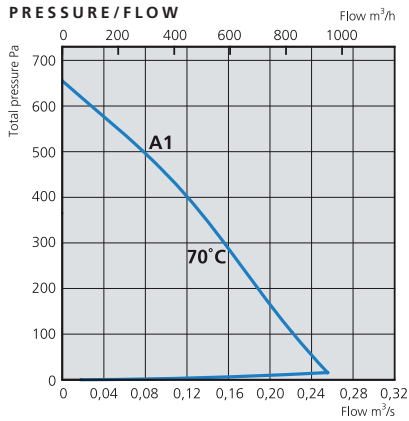
All sound data are measured with INTENSITY except IRE 315 A, B OCH C and IRE 500 C



IRE 40x20 A1
Rectangular single inlet radial fan with backward curved impeller and swing-out design

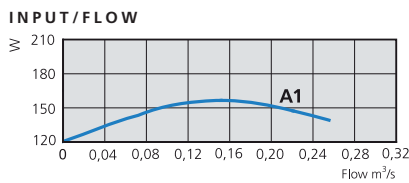
IRE 40x20 B1
Rectangular single inlet radial fan with forward curved impeller and swing-out design

IRE 40x20 A1



TECHNICAL DATA

Voltage V/Hz	Current A	Input W	Speed rpm	Weight kg	Wiring diagram	Capacitor μF	Insulation class motor	Motor protection
230/50	0,67	154	2540	27,0	4040001	4	F	IP 44

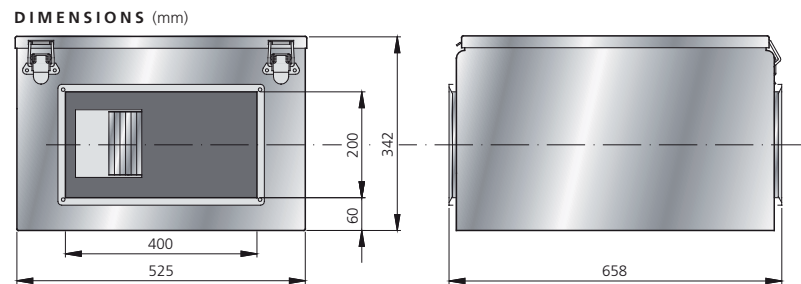
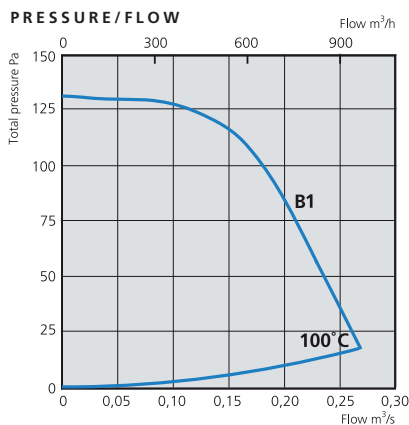


SOUND DATA

IRE 40x20 A1, 120 l/s 400 Pa	L _{pA}	L _{WA}	tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	43	50	37	39	44	46	39	39	38	40	
Inlet		60	47	54	54	57	50	46	44	37	
Outlet		73	51	59	62	71	67	63	58	49	

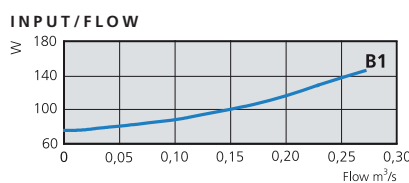
All sound data are measured with INTENSITY except IRE 315 A, B OCH C and IRE 500 C

IRE 40x20 B1



TECHNICAL DATA

Voltage V/Hz	Current A	Input W	Speed rpm	Weight kg	Wiring diagram	Capacitor μF	Insulation class motor	Motor protection
230/50	0,63	138	900	30,0	4040005	3	F	IP 44



SOUND DATA

IRE 40x20 B1, 160 l/s 110 Pa	L _{pA}	L _{WA}	tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	37	44	31	39	37	32	31	33	35	39	
Inlet		57	50	55	50	45	40	38	32	24	
Outlet		65	54	55	57	61	59	54	51	40	

All sound data are measured with INTENSITY except IRE 315 A, B OCH C and IRE 500 C

IRE 40x20 D1

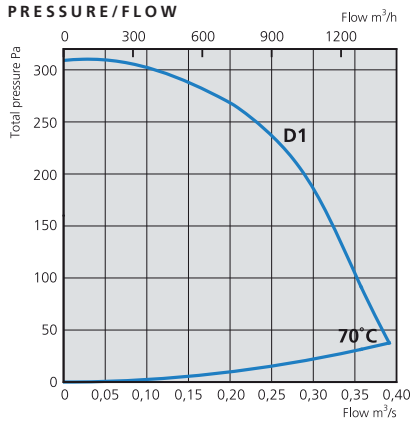
Rectangular single inlet radial fan with forward curved impeller and swing-out design

IRE 40x20 E1

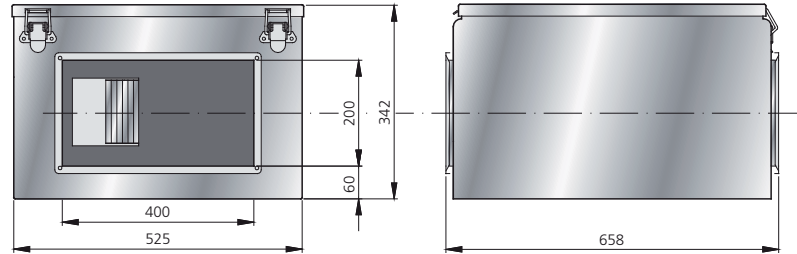
Rectangular single inlet radial fan with backward curved impeller and swing-out design



IRE 40x20 D1



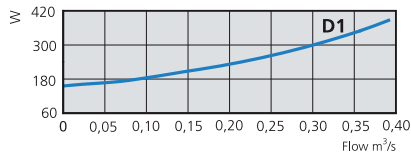
DIMENSIONS (mm)



TECHNICAL DATA

Voltage	Current	Input	Speed	Weight	Wiring diagram	Capacitor	Insulation class	Motor protection
V/Hz	A	W	rpm	kg		μF	motor	
230/50	0,89	201	2420	27,0	4040001	5	F	IP 44

INPUT/FLOW

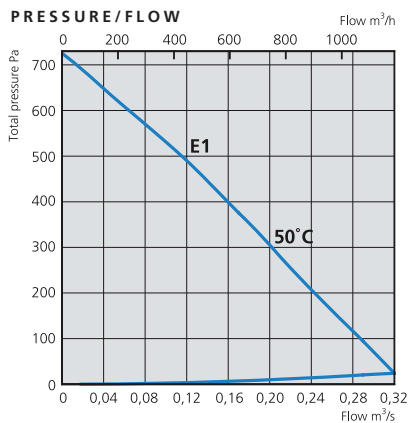


SOUND DATA

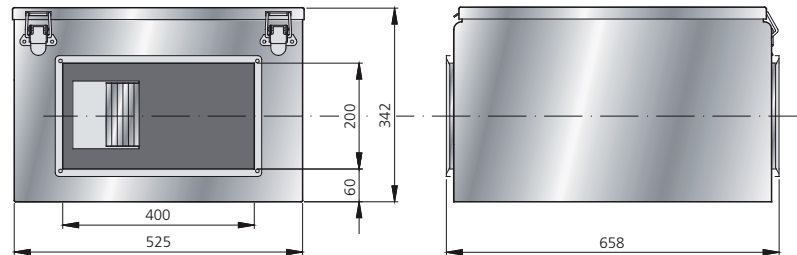
IRE 40x20 D1, 200 l/s 270 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	45	52	43	48	48	42	38	36	37	39
Inlet		63	55	59	59	52	48	47	42	34
Outlet		73	59	60	64	68	68	64	62	53

All sound data are measured with INTENSITY except IRE 315 A, B OCH C and IRE 500 C

IRE 40x20 E1



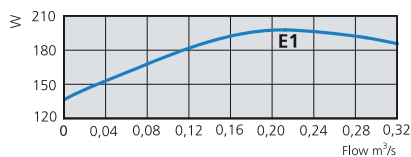
DIMENSIONS (mm)



TECHNICAL DATA

Voltage	Current	Input	Speed	Weight	Wiring diagram	Capacitor	Insulation class	Motor protection
V/Hz	A	W	rpm	kg		μF	motor	
230/50	0,89	201	2420	27,0	4040001	5	F	IP 44

INPUT/FLOW



SOUND DATA

IRE 40x20 E1, 150 l/s 430 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	44	51	36	41	48	44	36	40	37	39
Inlet		62	48	55	60	56	50	45	43	36
Outlet		74	52	61	67	71	67	63	58	48

All sound data are measured with INTENSITY except IRE 315 A, B OCH C and IRE 500 C



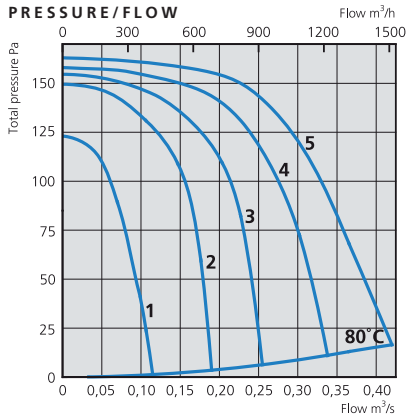
IRE 50x25 A1

Rectangular single inlet radial fan with forward curved impeller and swing-out design

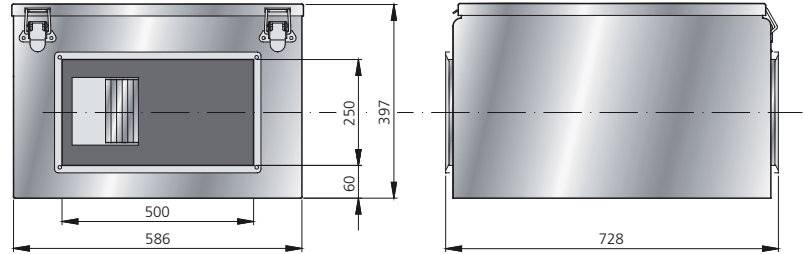
IRE 50x25 B1

Rectangular single inlet radial fan with forward curved impeller and swing-out design

IRE 50x25 A1



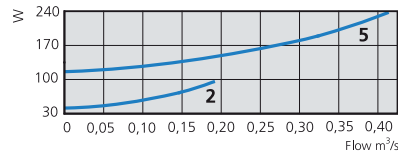
DIMENSIONS (mm)



TECHNICAL DATA

Voltage V/Hz	Current A	Input W	Speed rpm	Weight kg	Wiring diagram	Capacitor μF	Insulation class motor	Motor protection
230/50	1,10	240	880	38,0	4040005	5	F	IP 44

INPUT/FLOW

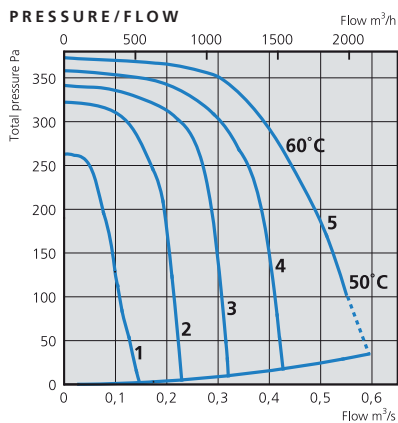


SOUND DATA

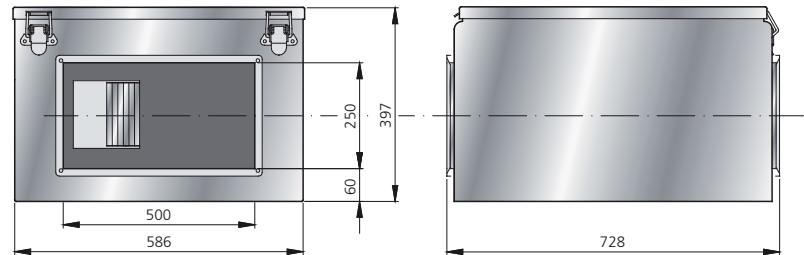
IRE 50x25 A1, 230 l/s 150 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	39	46	32	42	39	38	38	32	35	37
Inlet		61	53	56	57	48	49	46	45	39
Outlet		69	56	59	62	63	62	62	61	52

Measured with sound pressure.

IRE 50x25 B1



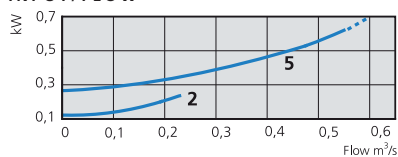
DIMENSIONS (mm)



TECHNICAL DATA

Voltage V/Hz	Current A	Input kW	Speed rpm	Weight kg	Wiring diagram	Capacitor μF	Insulation class motor	Motor protection
230/50	3,00	0,62	1330	40,0	4040005	12	F	IP 44

INPUT/FLOW



SOUND DATA

IRE 50x25 B1, 310 l/s 340 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	45	52	42	46	48	46	40	38	37	37
Inlet		71	60	67	66	58	55	59	59	54
Outlet		79	65	67	69	72	72	72	73	66

Measured with sound pressure.

IRE 50x30 D1

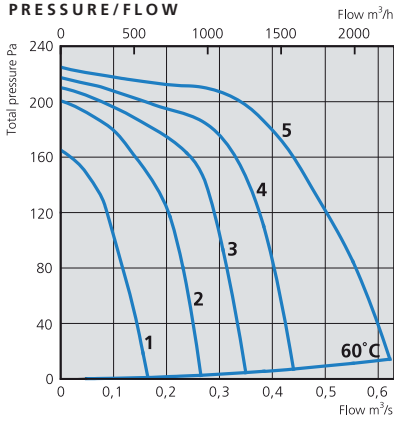
Rectangular single inlet radial fan with forward curved impeller and swing-out design

IRE 50x30 F1

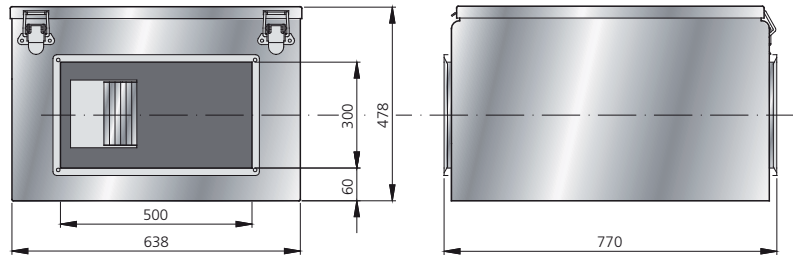
Rectangular single inlet radial fan with forward curved impeller and swing-out design



IRE 50x30 D1



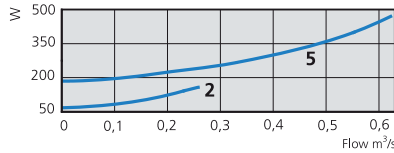
DIMENSIONS (mm)



TECHNICAL DATA

Voltage V/Hz	Current A	Input W	Speed rpm	Weight kg	Wiring diagram	Capacitor μF	Insulation class motor	Motor protection
230/50	2,10	470	810	50,0	4040005	8	F	IP 44

INPUT/FLOW

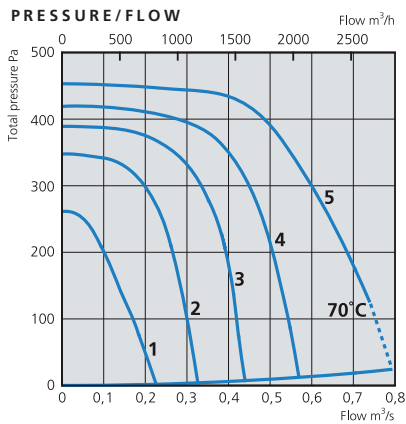


SOUND DATA

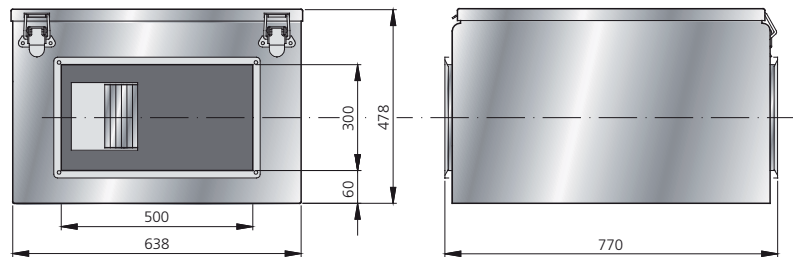
IRE 50x30 D1, 370 l/s 190 Pa	L _{pA}	L _{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	39	46	42	36	40	40	39	35	36	37
Inlet		62	54	57	56	53	52	50	47	37
Outlet		71	62	65	63	65	65	60	60	49

All sound data are measured with INTENSITY except IRE 315 A, B OCH C and IRE 500 C

IRE 50x30 F1



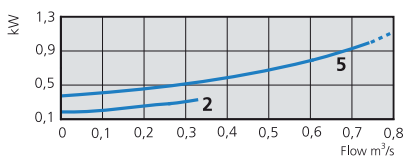
DIMENSIONS (mm)



TECHNICAL DATA

Voltage V/Hz	Current A	Input kW	Speed rpm	Weight kg	Wiring diagram	Capacitor μF	Insulation class motor	Motor protection
230/50	4,70	1,00	1200	50,0	4040005	20	F	IP 44

INPUT/FLOW



SOUND DATA

IRE 50x30 F1, 440 l/s 430 Pa	L _{pA}	L _{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	46	53	46	46	49	45	45	43	43	41
Inlet		68	58	63	65	58	57	56	53	45
Outlet		78	67	67	69	71	74	69	68	60

All sound data are measured with INTENSITY except IRE 315 A, B OCH C and IRE 500 C



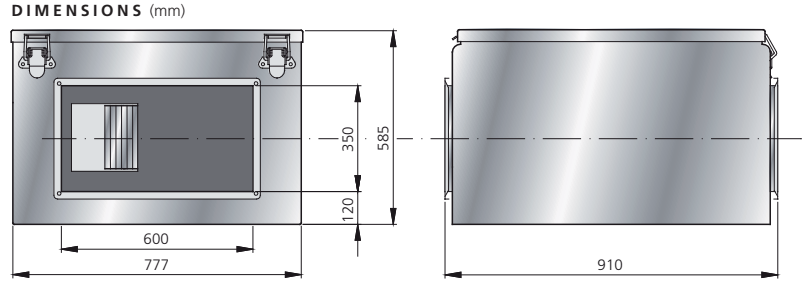
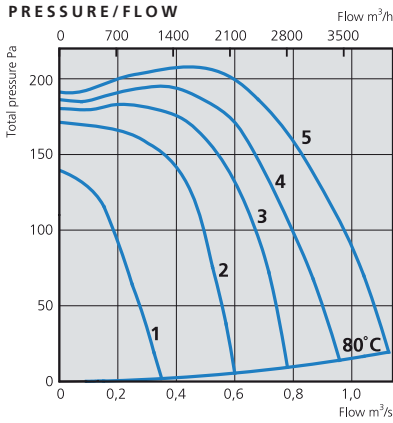
IRE 60x35 A3

Rectangular single inlet radial fan with forward curved impeller and swing-out design

IRE 60x35 B1

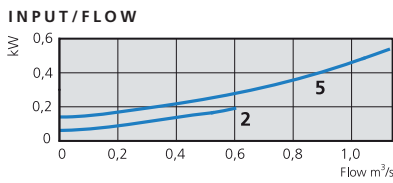
Rectangular single inlet radial fan with forward curved impeller and swing-out design

IRE 60x35 A3



TECHNICAL DATA

Voltage V/Hz	Current A	Input kW	Speed rpm	Weight kg	Wiring diagram	Capacitor μ F	Insulation class motor	Motor protection
400/50	2,00	0,54	690	75,0	4040004	-	F	IP 44

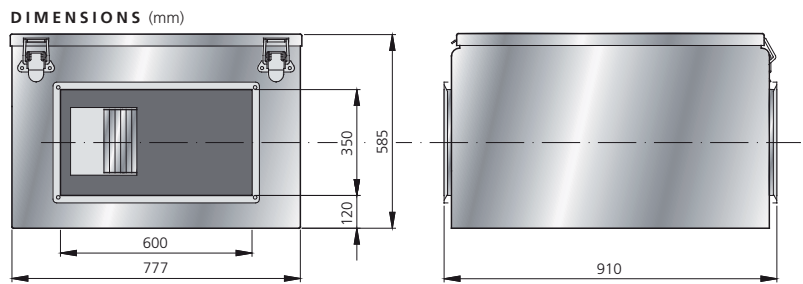
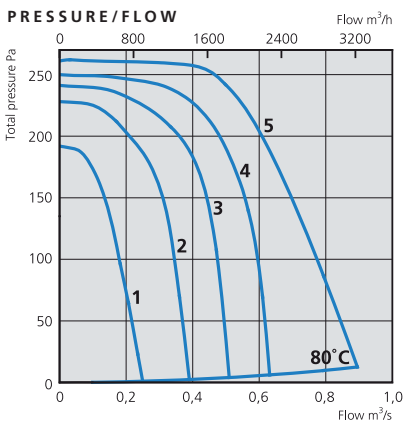


SOUND DATA

IRE 60x35 A3, 570 l/s 200 Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	42	49	42	36	44	46	41	39	39	37
Inlet		62	55	57	56	53	52	53	50	38
Outlet		73	58	59	63	68	68	67	65	51

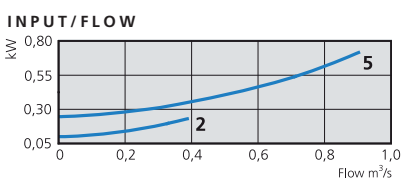
All sound data are measured with INTENSITY except IRE 315 A, B OCH C and IRE 500 C

IRE 60x35 B1



TECHNICAL DATA

Voltage V/Hz	Current A	Input kW	Speed rpm	Weight kg	Wiring diagram	Capacitor μ F	Insulation class motor	Motor protection
230/50	3,30	0,74	850	66,0	4040005	16	F	IP 44



SOUND DATA

IRE 60x35 B1, 560 l/s 220 Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	43	50	42	38	46	45	41	41	40	37
Inlet		63	54	57	59	54	54	53	51	40
Outlet		74	57	59	64	68	69	68	66	54

All sound data are measured with INTENSITY except IRE 315 A, B OCH C and IRE 500 C

IRE 60x35 C3

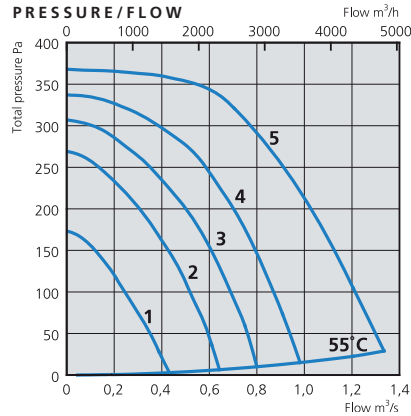
Rectangular single inlet radial fan with forward curved impeller and swing-out design

IRE 60x35 D1

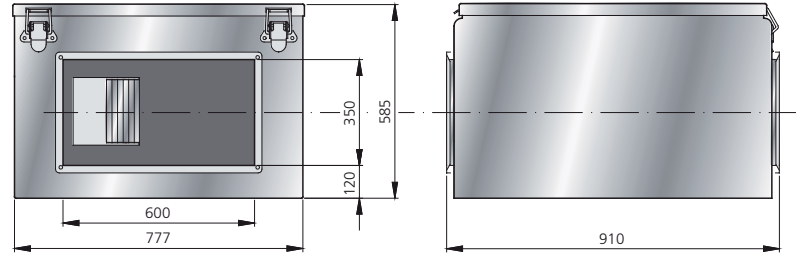
Rectangular single inlet radial fan with forward curved impeller and swing-out design



IRE 60x35 C3



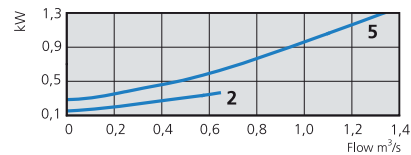
DIMENSIONS (mm)



TECHNICAL DATA

Voltage V/Hz	Current A	Input kW	Speed rpm	Weight kg	Wiring diagram	Capacitor μ F	Insulation class motor	Motor protection
400/50	2,60	1,30	800	74,0	4040004	-	F	IP 44

INPUT/FLOW

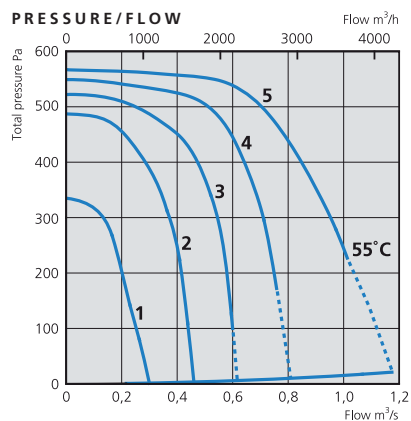


SOUND DATA

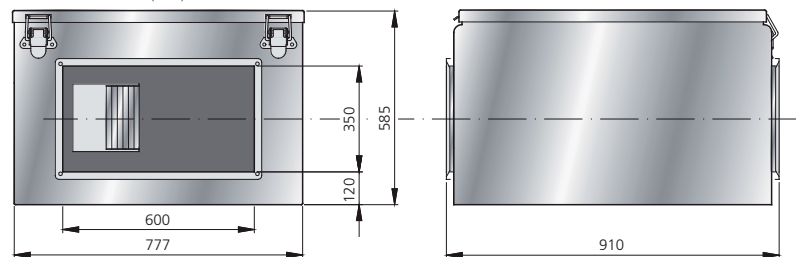
IRE 60x35 C3, 700 l/s 320 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	44	51	43	41	44	45	46	39	38	38
Inlet		69	59	62	59	59	62	61	62	55
Outlet		80	59	64	66	70	75	74	74	67

Measured with sound pressure.

IRE 60x35 D1



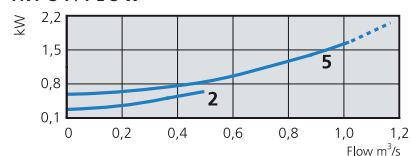
DIMENSIONS (mm)



TECHNICAL DATA

Voltage V/Hz	Current A	Input kW	Speed rpm	Weight kg	Wiring diagram	Capacitor μ F	Insulation class motor	Motor protection
230/50	8,00	1,78	1280	71,0	4040005	30	F	IP 44

INPUT/FLOW



SOUND DATA

IRE 60x35 D1, 820 l/s 430 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	52	59	53	48	54	53	52	52	50	43
Inlet		73	64	67	69	62	65	65	61	53
Outlet		86	67	72	75	77	82	81	78	68

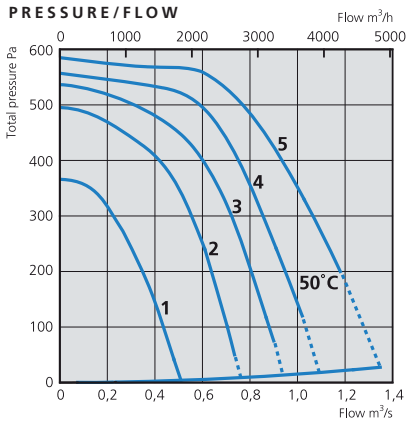
All sound data are measured with INTENSITY except IRE 315 A, B OCH C and IRE 500 C



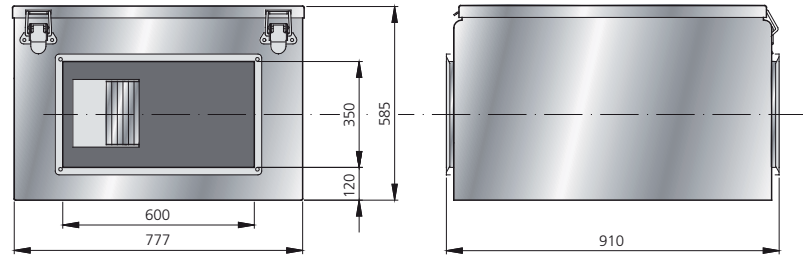
IRE 60x35 E3
Rectangular single inlet radial fan with forward curved impeller and swing-out design

IRE 60x35 F3
Rectangular single inlet radial fan with forward curved impeller and swing-out design

IRE 60x35 E3



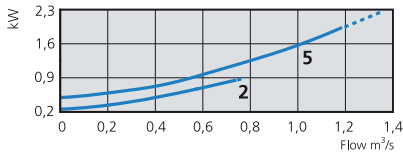
DIMENSIONS (mm)



TECHNICAL DATA

Voltage V/Hz	Current A	Input kW	Speed rpm	Weight kg	Wiring diagram	Capacitor μF	Insulation class motor	Motor protection
400/50	4,00	1,88	1380	71,0	4040004	-	F	IP 44

INPUT/FLOW

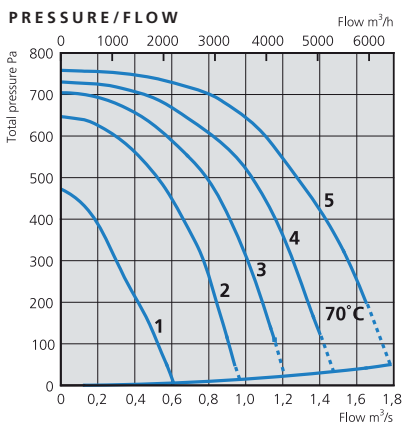


SOUND DATA

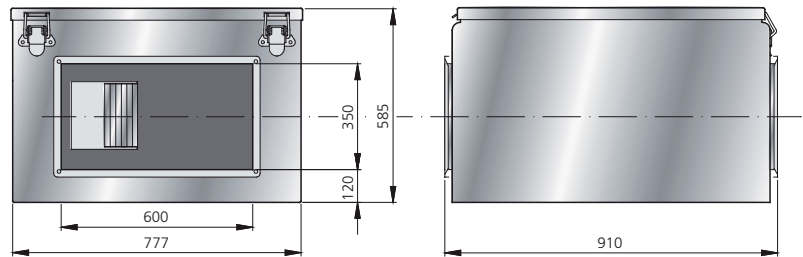
IRE 60x35 E3, 830 l/s 470 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	52	59	53	47	52	52	53	53	51	45
Inlet		73	64	68	65	64	66	66	63	55
Outlet		87	67	72	75	78	83	81	78	68

All sound data are measured with INTENSITY except IRE 315 A, B OCH C and IRE 500 C

IRE 60x35 F3



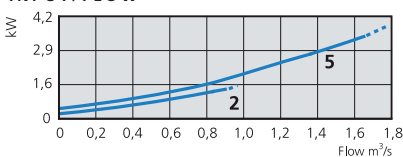
DIMENSIONS (mm)



TECHNICAL DATA

Voltage V/Hz	Current A	Input kW	Speed rpm	Weight kg	Wiring diagram	Capacitor μF	Insulation class motor	Motor protection
400/50	5,80	3,40	1390	85,0	4040004	-	F	IP 44

INPUT/FLOW



SOUND DATA

IRE 60x35 F3, 830 l/s 700 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	55	62	55	51	56	54	55	56	55	49
Inlet		77	67	72	68	64	69	71	67	59
Outlet		88	67	73	75	78	85	82	79	69

All sound data are measured with INTENSITY except IRE 315 A, B OCH C and IRE 500 C

IRE 80x50 A3

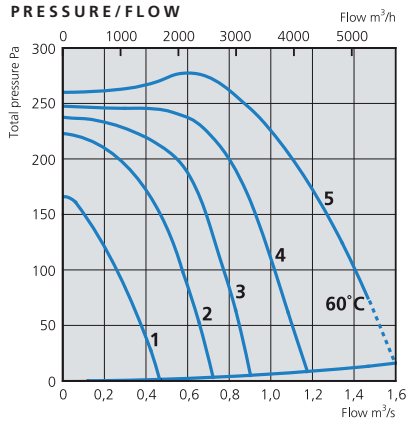
Rectangular single inlet radial fan with forward curved impeller and swing-out design

IRE 80x50 B3

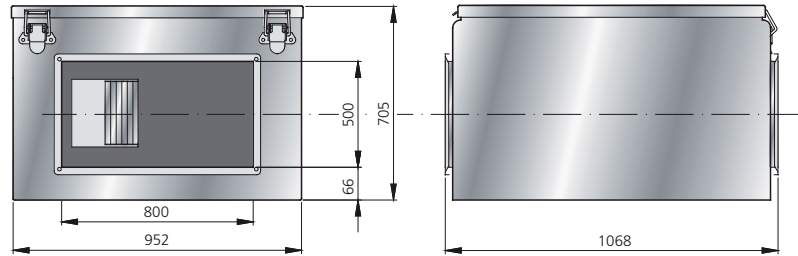
Rectangular single inlet radial fan with forward curved impeller and swing-out design



IRE 80x50 A3



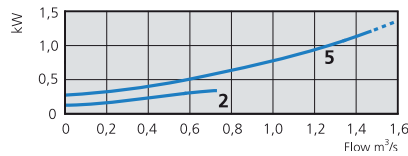
DIMENSIONS (mm)



TECHNICAL DATA

Voltage V/Hz	Current A	Input kW	Speed rpm	Weight kg	Wiring diagram	Capacitor µF	Insulation class motor	Motor protection
400/50	2,80	1,20	660	86,0	4040004	-	F	IP 44

INPUT/FLOW

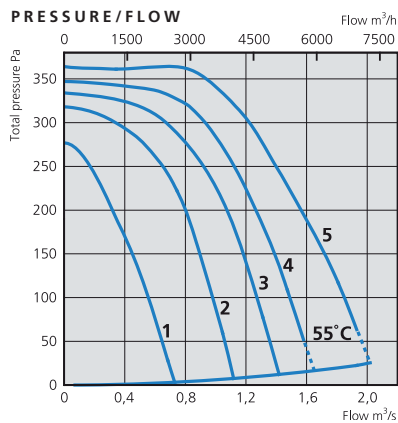


SOUND DATA

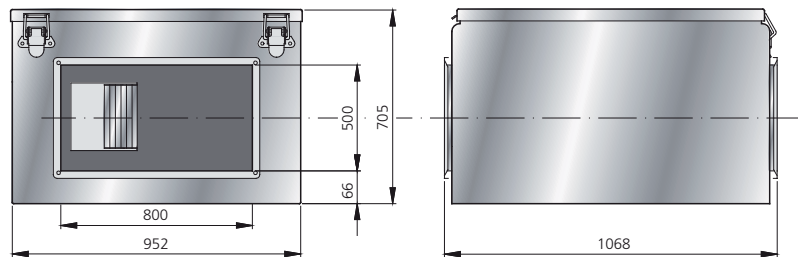
IRE 80x50 A3, 960 l/s 230 Pa	L _{pA}	L _{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	45	52	44	43	47	48	41	43	39	37
Inlet		64	56	58	55	53	57	56	53	41
Outlet		79	66	67	69	73	73	73	69	57

All sound data are measured with INTENSITY except IRE 315 A, B OCH C and IRE 500 C

IRE 80x50 B3



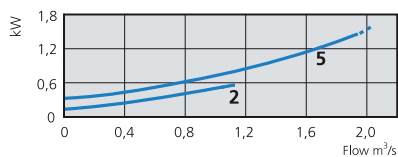
DIMENSIONS (mm)



TECHNICAL DATA

Voltage V/Hz	Current A	Input kW	Speed rpm	Weight kg	Wiring diagram	Capacitor µF	Insulation class motor	Motor protection
400/50	4,80	1,48	680	105,0	4040004	-	F	IP 44

INPUT/FLOW



SOUND DATA

IRE 80x50 B3, 960 l/s 350 Pa	L _{pA}	L _{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	48	55	46	44	49	52	46	48	43	38
Inlet		67	59	62	58	56	61	60	57	46
Outlet		79	65	66	68	73	74	74	69	58

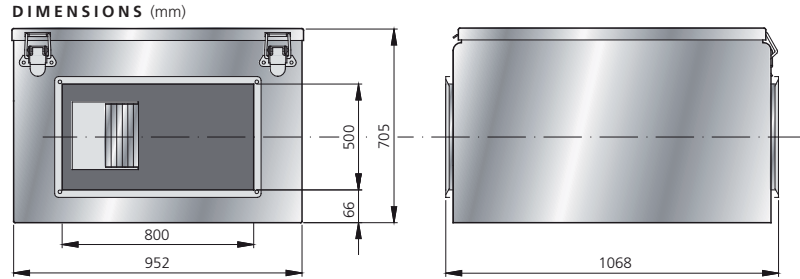
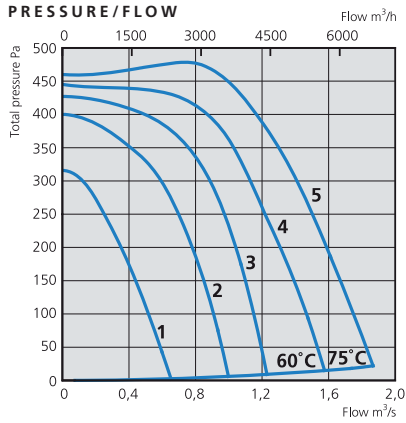
All sound data are measured with INTENSITY except IRE 315 A, B OCH C and IRE 500 C



IRE 80x50 C3
Rectangular single inlet radial fan with forward curved impeller and swing-out design

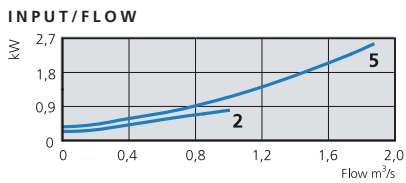
IRE 80x50 D3
Rectangular single inlet radial fan with forward curved impeller and swing-out design

IRE 80x50 C3



TECHNICAL DATA

Voltage V/Hz	Current A	Input kW	Speed rpm	Weight kg	Wiring diagram	Capacitor μF	Insulation class motor	Motor protection
400/50	4,70	2,54	890	94,0	4040004	-	F	IP 44

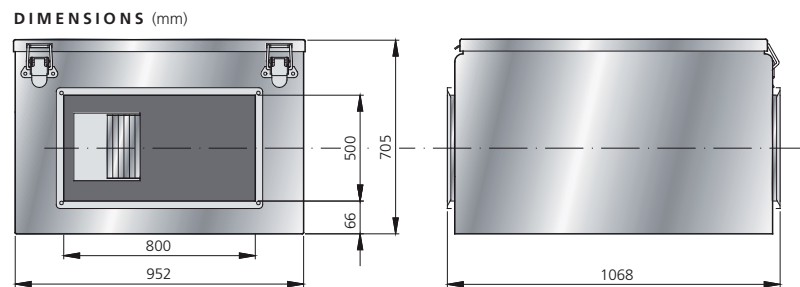
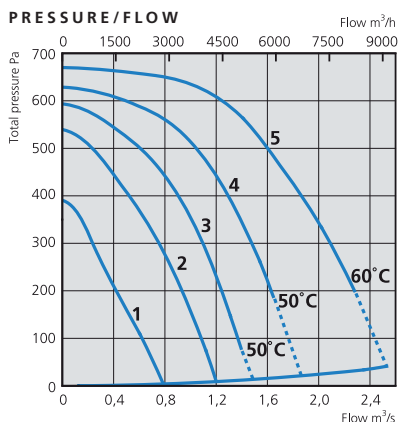


SOUND DATA

IRE 80x50 C3, 810 l/s 480 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	45	52	46	45	46	47	43	45	42	39
Inlet		68	60	63	57	56	61	61	57	47
Outlet		79	63	66	67	72	74	74	70	58

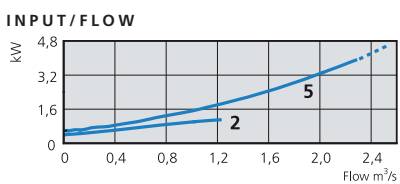
All sound data are measured with INTENSITY except IRE 315 A, B OCH C and IRE 500 C

IRE 80x50 D3



TECHNICAL DATA

Voltage V/Hz	Current A	Input kW	Speed rpm	Weight kg	Wiring diagram	Capacitor μF	Insulation class motor	Motor protection
400/50	7,00	4,00	870	105,0	4040004	-	F	IP 44



SOUND DATA

IRE 80x50 D3, 1090 l/s 630 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	51	58	52	48	53	54	49	50	46	43
Inlet		71	64	66	61	59	65	62	60	50
Outlet		83	66	70	70	76	79	79	73	63

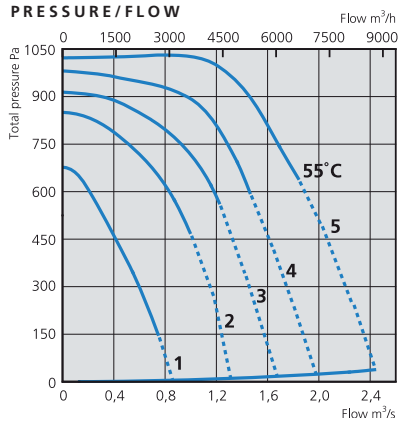
All sound data are measured with INTENSITY except IRE 315 A, B OCH C and IRE 500 C

IRE 80x50 E3

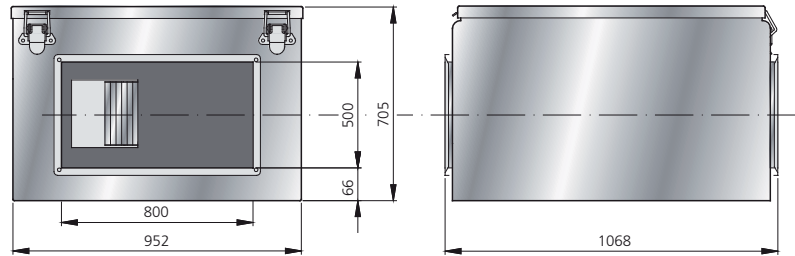
Rectangular single inlet radial fan with forward curved impeller and swing-out design



IRE 80x50 E3



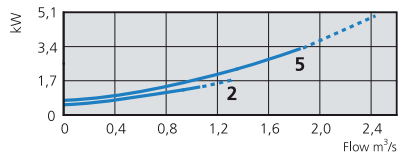
DIMENSIONS (mm)



TECHNICAL DATA

Voltage V/Hz	Current A	Input kW	Speed rpm	Weight kg	Wiring diagram	Capacitor μF	Insulation class motor	Motor protection
400/50	8,9	3,21	1390	96,0	4040004	-	F	IP 44

INPUT/FLOW



SOUND DATA

IRE 80x50 E3, 1180 l/s 1010 Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	56	63	57	54	57	56	56	58	53	48
Inlet		78	67	72	67	63	73	73	68	60
Outlet		92	73	77	78	82	88	87	82	72

All sound data are measured with INTENSITY except IRE 315 A, B OCH C and IRE 500 C



FOR HIGH PRESSURES AND LONG DUCTS RUNS



The RKBI on the left is available in the dimensions 600x350, 700x400 and 800x500. On the right the largest RKBI in the dimension 1000x500.

RKBI, insulated rectangular duct fans

RKBI is an insulated centrifugal in-line duct fan with rectangular connections. The fan has a rigid casing of galvanised steel, it's compact in design yet it can handle high pressures. With the 50 mm of high quality acoustic insulation it is quiet in operation. The facing of the insulation makes it easy to clean.

Its backward curved impeller gives a better efficiency over a wide performance range than fans with forward curved impellers.

The fan is designed to cope with long duct runs and high pressures but with a minimum of noise. The motor is speed-controllable and maintenance free. The only service re-

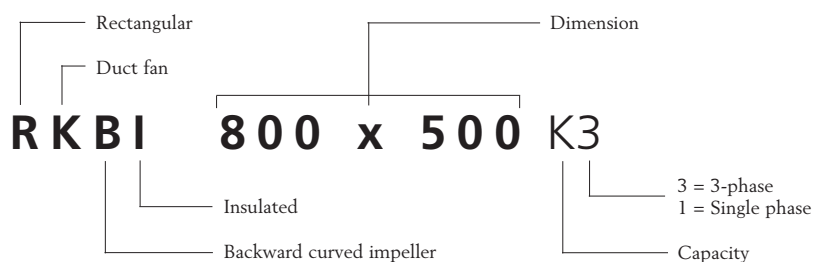
quired is cleaning the impeller, and thanks to the swing-out design that is easy.

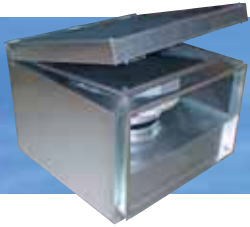
All RKBI fans have motors fitted with built-in overheat protection or thermal contact leads out. They are supplied fully wired and ready to fit into your duct. The fan is moisture proof and approve for use in either hot or cold environments.

RKBI is available in 17 capacities.



KEY TO MODEL TYPES



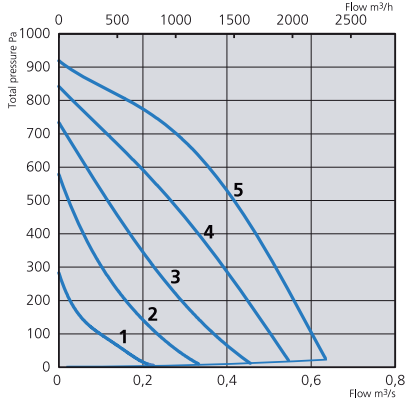


RKBI 500 x 250 H1 RKBI 600 x 350 B1

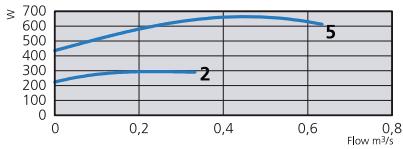
Rectangular insulated duct fan with backward curved impeller and swing-out design

RKBI 500 x 250 H1

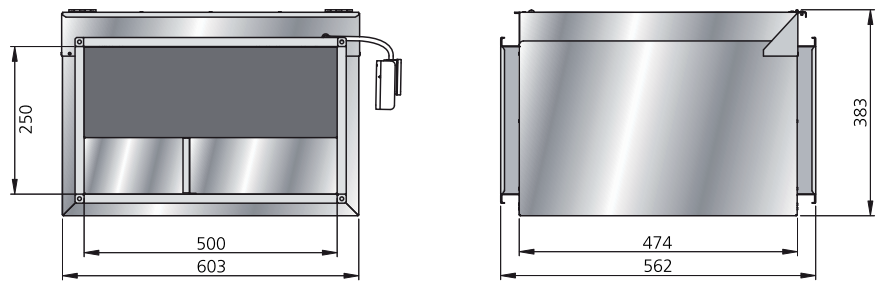
PRESSURE/FLOW



INPUT/FLOW



DIMENSIONS (mm)



TECHNICAL DATA

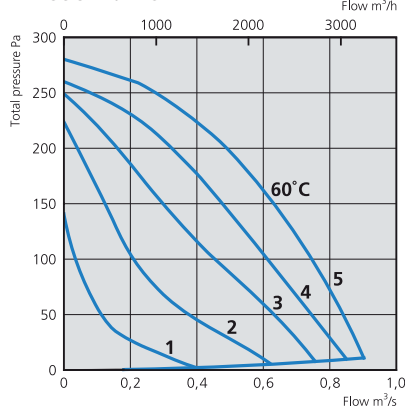
Voltage V/Hz	Current A	Input W	Speed rpm	Weight kg	Wiring diagram	Capacitor μ F	Insulation class motor	Motor protection
230/50	3,00	670	2580	31	4040005	14	F	IP 44

SOUND DATA

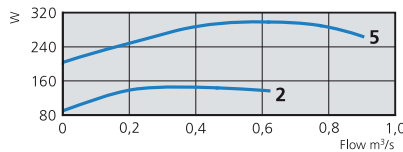
450 l/s 400 Pa	L_{pA}	L_{wA}	tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment 230 V	58	65	49	58	61	56	56	55	48	39	
5. Inlet 230 V	74	61	71	69	64	63	59	57	53	49	
4. Inlet 165 V	70	58	65	66	58	58	55	53	49		
3. Inlet 135 V	66	54	62	64	52	52	48	46	42		
2. Inlet 110 V	63	51	61	57	45	43	41	40	34		
1. Inlet 80 V	56	43	54	47	35	35	32	33	32		
Outlet 230 V	85	64	70	79	79	77	78	72	63		

RKBI 600 x 350 A1

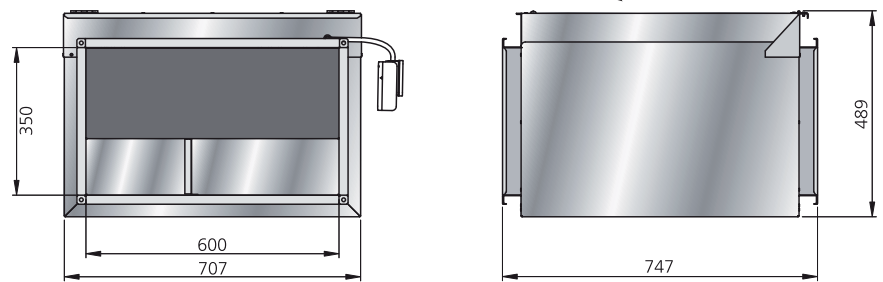
PRESSURE/FLOW



INPUT/FLOW



DIMENSIONS (mm)



TECHNICAL DATA

Voltage V/Hz	Current A	Input W	Speed rpm	Weight kg	Wiring diagram	Capacitor μ F	Insulation class motor	Motor protection
230/50	1,34	298	920	48	4040005	8	F	IP 44

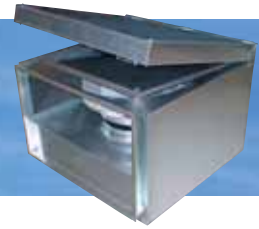
SOUND DATA

450 l/s 208 Pa	L_{pA}	L_{wA}	tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment 230 V	43	50	37	46	44	41	41	29	28	25	
5. Inlet 230 V	62	55	59	50	48	40	43	39	32		
4. Inlet 165 V	60	53	57	54	46	38	40	35	29		
3. Inlet 135 V	59	53	55	52	44	36	37	33	27		
2. Inlet 110 V	55	52	49	45	36	28	28	24	18		
1. Inlet 80 V	49	41	47	42	26	15	16	15	15		
Outlet 230 V	69	55	64	64	59	60	58	52	45		

RKBI 600 x 350 B1

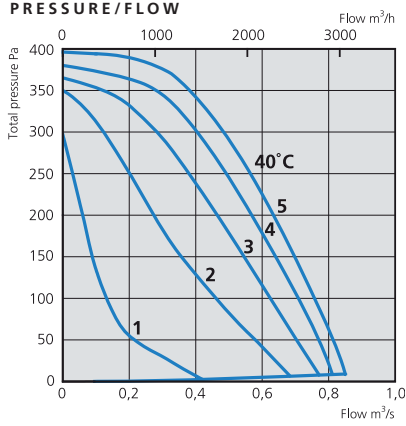
RKBI 600 x 350 B3

Rectangular insulated duct fan with backward curved impeller and swing-out design

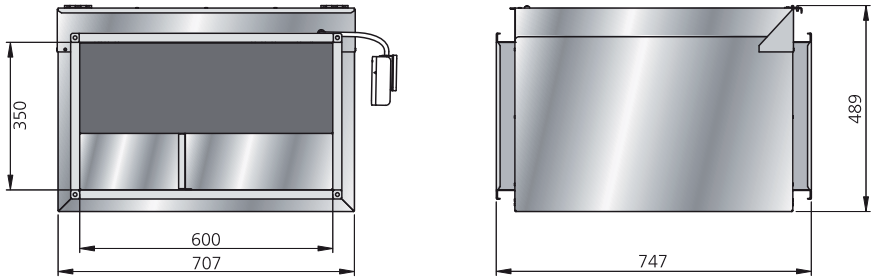


RKBI 600 x 350 B1

PRESSURE/FLOW



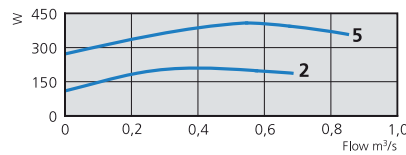
DIMENSIONS (mm)



TECHNICAL DATA

Voltage V/Hz	Current A	Input W	Speed rpm	Weight kg	Wiring diagram	Capacitor μ F	Insulation class motor	Motor protection
230/50	2,11	412	1405	47	4040005	12	F	IP 44

INPUT/FLOW

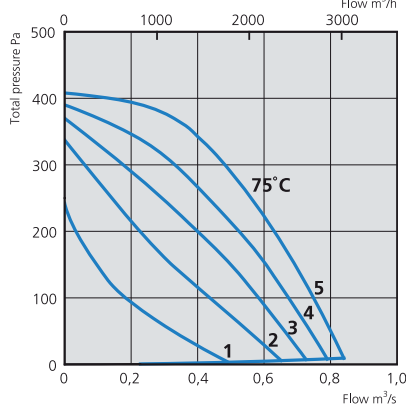


SOUND DATA

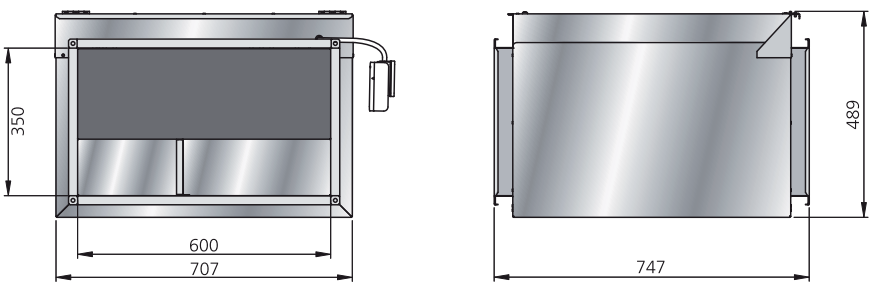
375 l/s 355 Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment 230 V	54	58	40	61	53	43	44	38	35	34
5. Inlet 230 V		69	54	65	66	49	45	46	43	39
4. Inlet 165 V		69	55	61	67	51	45	45	41	39
3. Inlet 135 V		66	53	62	62	48	42	43	39	35
2. Inlet 110 V		59	52	57	51	40	39	40	37	29
1. Inlet 80 V		57	52	55	44	31	32	32	31	20
Outlet 230 V		75	56	68	73	60	63	61	56	52

RKBI 600 x 350 B3

PRESSURE/FLOW



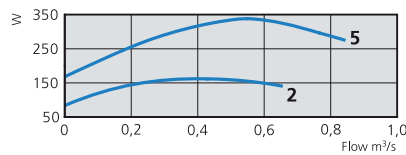
DIMENSIONS (mm)



TECHNICAL DATA

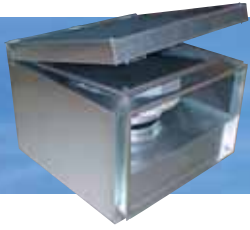
Voltage V/Hz	Current A	Input W	Speed rpm	Weight kg	Wiring diagram	Capacitor μ F	Insulation class motor	Motor protection
400/50	1,04	388	1415	48	4040004	-	F	IP 44

INPUT/FLOW



SOUND DATA

375 l/s 350 Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment 400 V	44	51	38	45	48	40	42	35	32	33
5. Inlet 400 V		67	55	59	66	49	45	46	43	38
4. Inlet 240 V		67	55	63	65	49	44	44	40	38
3. Inlet 185 V		65	53	62	60	47	41	42	39	34
2. Inlet 145 V		61	50	59	55	42	37	37	38	25
1. Inlet 95 V		51	44	49	41	30	27	26	23	17
Outlet 400 V		76	57	64	74	62	64	64	58	54

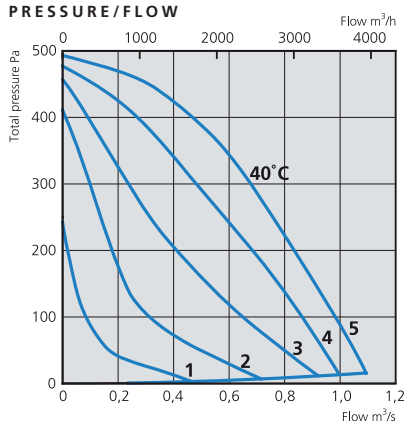


RKBI 600 x 350 D1

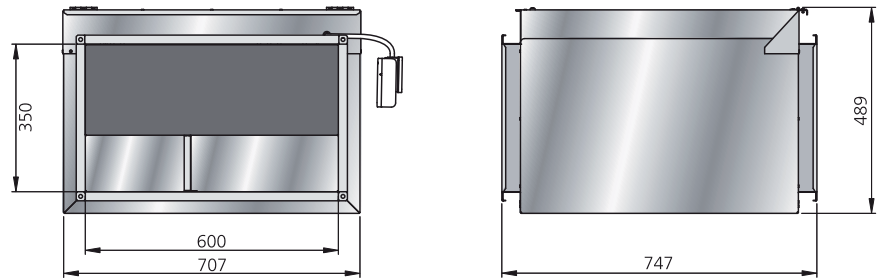
RKBI 600 x 350 D3

Rectangular insulated duct fan with backward curved impeller and swing-out design

RKBI 600 x 350 D1



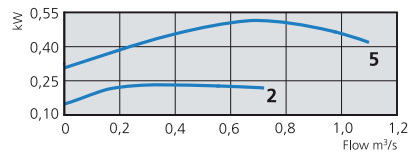
DIMENSIONS (mm)



TECHNICAL DATA

Voltage V/Hz	Current A	Input kW	Speed rpm	Weight kg	Wiring diagram	Capacitor μF	Insulation class motor	Motor protection
230/50	2,46	0,52	1370	47	4040005	12	F	IP 44

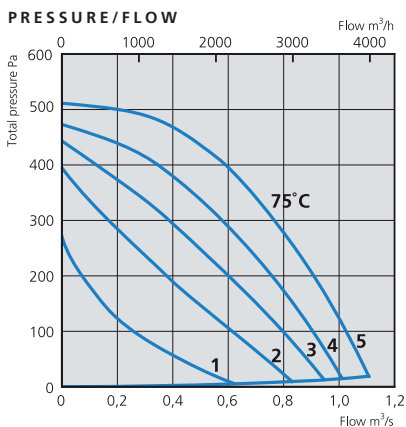
INPUT/FLOW



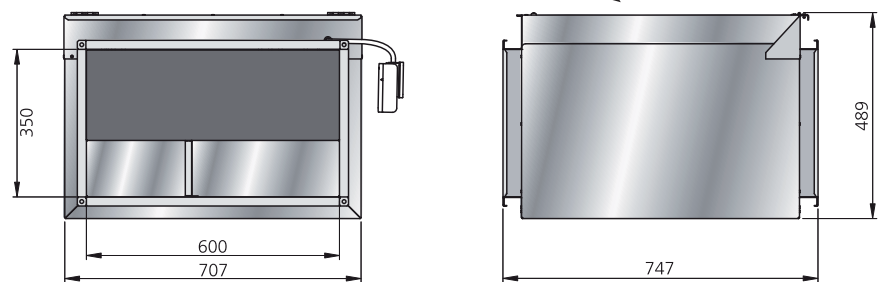
SOUND DATA

580 l/s 360 Pa	L_{pA}	L_{WA}	tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment 230 V	49	56	41	53	53	46	44	39	36	36	
5. Inlet 230 V		71	59	65	68	55	50	53	48	42	
4. Inlet 165 V		67	57	63	63	52	46	49	43	39	
3. Inlet 135 V		61	52	59	54	45	40	41	36	30	
2. Inlet 110 V		56	49	54	47	37	32	31	28	20	
1. Inlet 80 V		52	46	50	38	27	19	19	15	13	
Outlet 230 V		80	62	69	78	66	68	67	62	56	

RKBI 600 x 350 D3



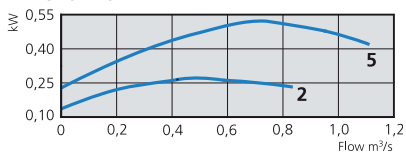
DIMENSIONS (mm)



TECHNICAL DATA

Voltage V/Hz	Current A	Input kW	Speed rpm	Weight kg	Wiring diagram	Capacitor μF	Insulation class motor	Motor protection
400/50	1,27	0,52	1415	50	4040004	-	F	IP 44

INPUT/FLOW



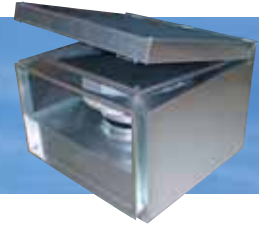
SOUND DATA

535 l/s 425 Pa	L_{pA}	L_{WA}	tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment 400 V	49	56	41	49	54	45	44	41	39	38	
5. Inlet 400 V		69	58	64	67	53	47	50	46	41	
4. Inlet 240 V		67	56	63	64	51	46	48	43	39	
3. Inlet 185 V		64	54	62	58	48	43	44	40	36	
2. Inlet 145 V		61	52	59	52	44	39	40	36	31	
1. Inlet 95 V		54	49	51	46	36	31	31	28	22	
Outlet 400 V		78	60	67	77	64	66	65	59	54	

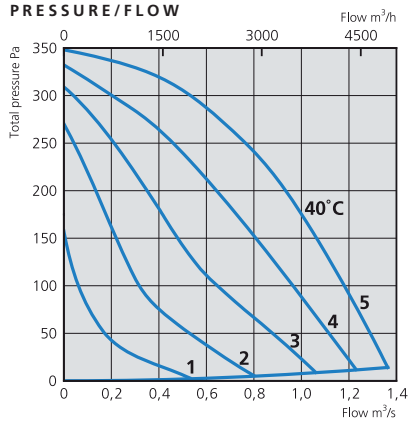
RKBI 700 x 400 C1

RKBI 700 x 400 C3

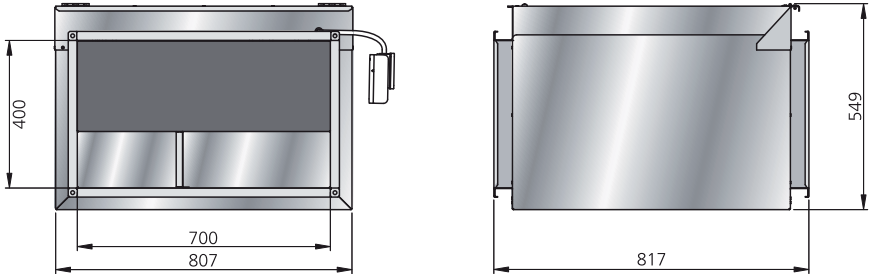
Rectangular insulated duct fan with backward curved impeller and swing-out design



RKBI 700 x 400 C1



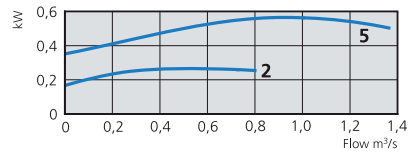
DIMENSIONS (mm)



TECHNICAL DATA

Voltage V/Hz	Current A	Input kW	Speed rpm	Weight kg	Wiring diagram	Capacitor μF	Insulation class motor	Motor protection
230/50	2,73	0,56	910	65	4040005	12	F	IP 44

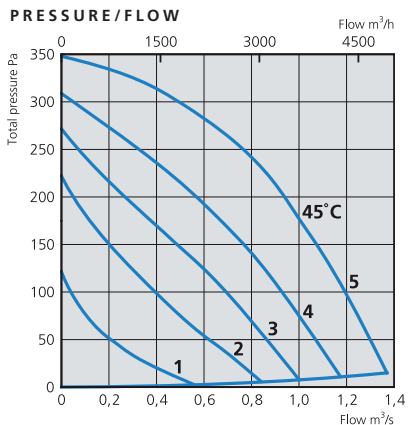
INPUT/FLOW



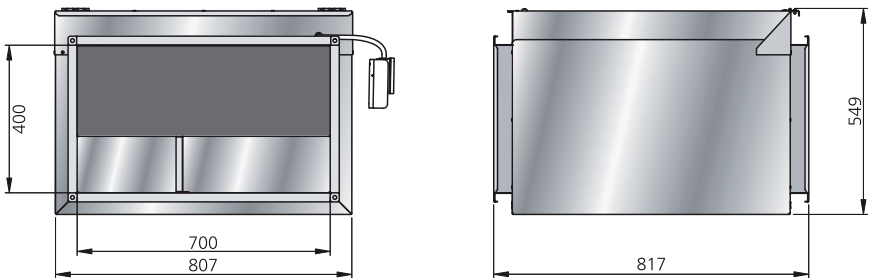
SOUND DATA

560 l/s 280 Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment 230 V	51	58	46	56	50	45	42	35	32	31
5. Inlet 230 V		68	63	64	59	51	45	46	41	36
4. Inlet 165 V		65	62	61	56	48	42	43	37	34
3. Inlet 135 V		62	59	59	53	44	37	38	31	26
2. Inlet 110 V		57	56	49	45	37	30	30	22	19
1. Inlet 80 V		47	43	45	35	24	17	15	14	14
Outlet 230 V		74	62	70	68	63	66	61	55	49

RKBI 700 x 400 C3



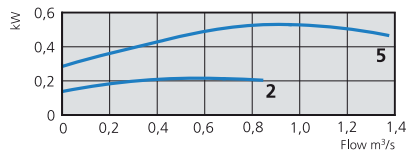
DIMENSIONS (mm)



TECHNICAL DATA

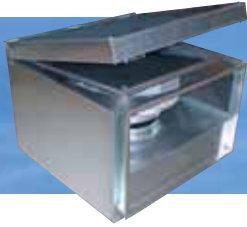
Voltage V/Hz	Current A	Input kW	Speed rpm	Weight kg	Wiring diagram	Capacitor μF	Insulation class motor	Motor protection
400/50	1,20	0,53	920	66	4040004	-	F	IP 44

INPUT/FLOW



SOUND DATA

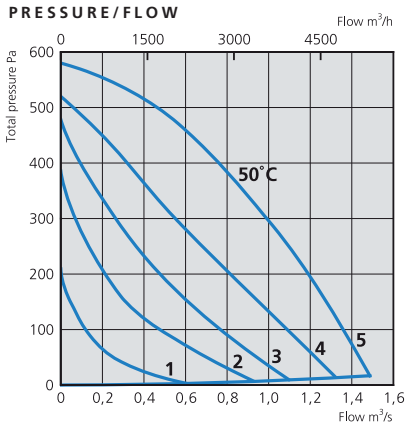
490 l/s 303 Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment 400 V	48	55	46	52	48	45	45	37	34	33
5. Inlet 400 V		67	63	62	59	51	44	46	41	36
4. Inlet 240 V		64	59	61	58	50	42	44	38	31
3. Inlet 185 V		61	57	57	53	45	38	39	33	26
2. Inlet 145 V		58	56	50	49	40	32	33	26	20
1. Inlet 95 V		50	49	40	39	29	21	20	16	17
Outlet 400 V		73	64	67	67	62	65	61	56	49



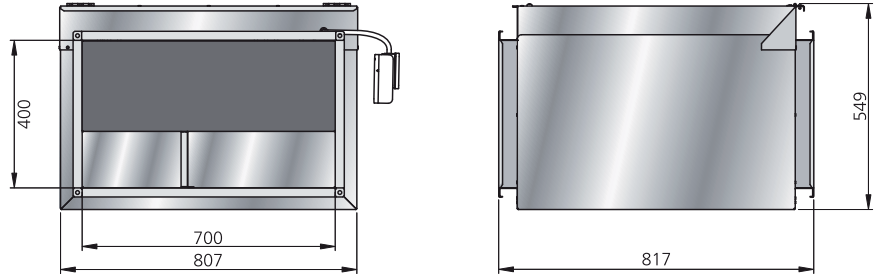
RKBI 700 x 400 E1 RKBI 700 x 400 E3

Rectangular insulated duct fan with backward curved impeller and swing-out design

RKBI 700 x 400 E1



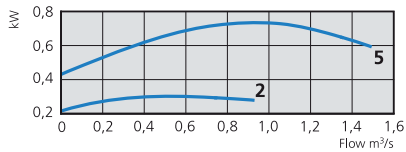
DIMENSIONS (mm)



TECHNICAL DATA

Voltage V/Hz	Current A	Input kW	Speed rpm	Weight kg	Wiring diagram	Capacitor μF	Insulation class motor	Motor protection
230/50	3,30	0,73	1252	63	4040005	16	F	IP 44

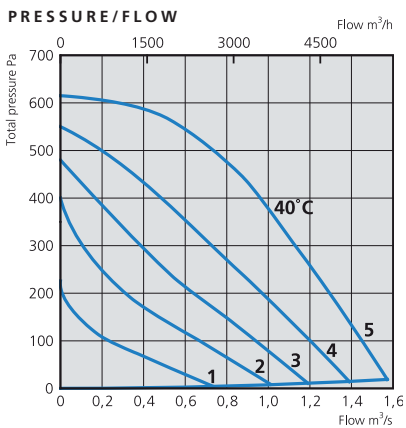
INPUT/FLOW



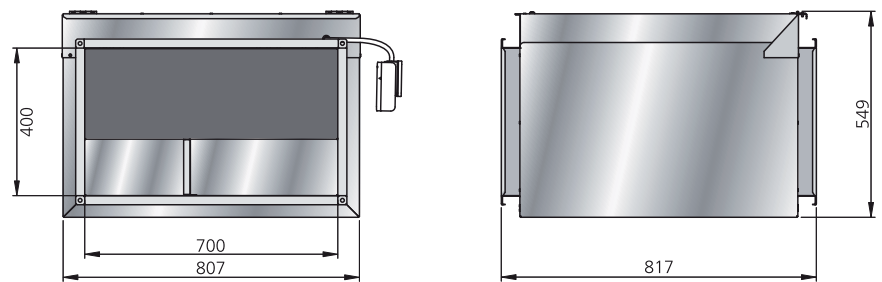
SOUND DATA

570 l/s 465 Pa	L_{pA}	L_{WA}	tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment 230 V	49	56	45	54	51	45	43	40	37	39	
5. Inlet 230 V	68	60	65	63	53	50	50	45	41	41	
4. Inlet 165 V	65	56	63	58	49	47	47	41	37	37	
3. Inlet 135 V	61	54	59	53	45	42	42	35	30	30	
2. Inlet 110 V	57	51	54	48	38	35	34	27	21	21	
1. Inlet 80 V	51	48	46	38	29	26	23	17	14	14	
Outlet 230 V	76	61	71	71	64	69	64	59	54	54	

RKBI 700 x 400 E3



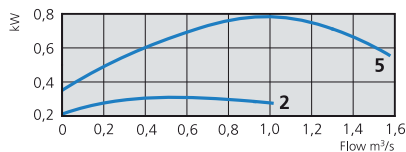
DIMENSIONS (mm)



TECHNICAL DATA

Voltage V/Hz	Current A	Input kW	Speed rpm	Weight kg	Wiring diagram	Capacitor μF	Insulation class motor	Motor protection
400/50	1,55	0,78	1358	63	4040004	-	F	IP 44

INPUT/FLOW



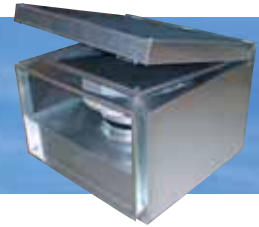
SOUND DATA

630 l/s 515 Pa	L_{pA}	L_{WA}	tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment 400 V	51	58	45	51	55	47	46	42	41	40	
5. Inlet 400 V	70	60	64	68	56	52	52	47	43	43	
4. Inlet 240 V	69	59	67	63	56	50	48	42	39	39	
3. Inlet 185 V	64	55	61	57	49	44	43	37	32	32	
2. Inlet 145 V	58	51	55	51	41	38	37	31	25	25	
1. Inlet 95 V	49	48	42	40	30	27	24	18	15	15	
Outlet 400 V	80	61	69	78	66	72	66	61	56	56	

RKBI 800 x 500 B1

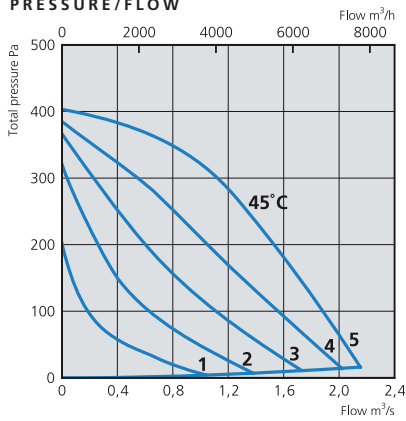
RKBI 800 x 500 B3

Rectangular insulated duct fan with backward curved impeller and swing-out design

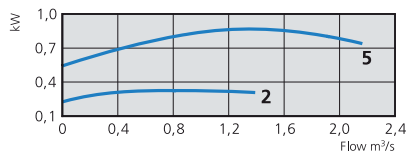


RKBI 800 x 500 B1

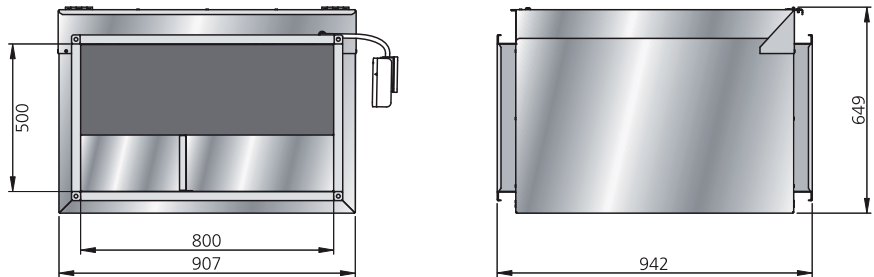
PRESSURE/FLOW



INPUT/FLOW



DIMENSIONS (mm)



TECHNICAL DATA

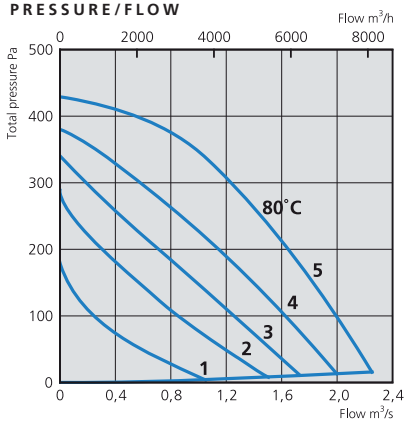
Voltage V/Hz	Current A	Input kW	Speed rpm	Weight kg	Wiring diagram	Capacitor μ F	Insulation class motor	Motor protection
230/50	4,44	0,87	871	88	4040005	25	F	IP 44

SOUND DATA

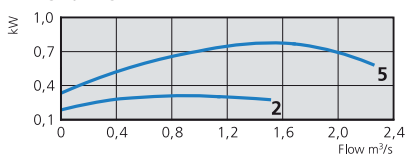
705 l/s 355 Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment 230 V	51	58	49	57	50	47	44	36	34	34
5. Inlet 230 V		70	58	69	54	49	51	49	44	39
4. Inlet 165 V		66	56	65	52	47	50	47	41	35
3. Inlet 135 V		63	58	61	51	45	47	44	38	32
2. Inlet 110 V		59	55	56	45	40	40	38	33	26
1. Inlet 80 V		55	45	54	33	28	28	24	19	18
Outlet 230 V		75	58	70	65	66	70	63	57	50

RKBI 800 x 500 B3

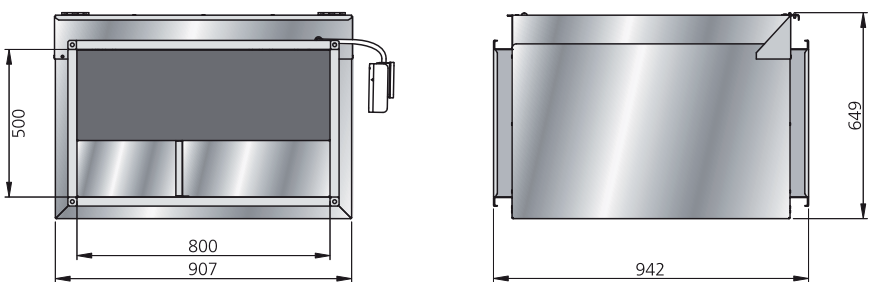
PRESSURE/FLOW



INPUT/FLOW



DIMENSIONS (mm)

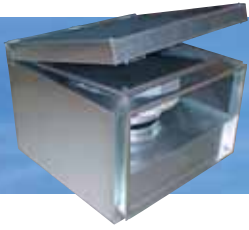


TECHNICAL DATA

Voltage V/Hz	Current A	Input kW	Speed rpm	Weight kg	Wiring diagram	Capacitor μ F	Insulation class motor	Motor protection
400/50	1,88	0,78	899	88	4040004	-	F	IP 44

SOUND DATA

715 l/s 375 Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment 400 V	51	58	45	54	52	51	48	44	41	35
5. Inlet 400 V		69	59	68	56	50	54	56	52	43
4. Inlet 240 V		68	55	67	54	49	53	58	50	39
3. Inlet 185 V		63	54	63	50	44	47	51	45	33
2. Inlet 145 V		58	52	56	48	40	43	47	39	27
1. Inlet 95 V		51	49	46	37	32	38	37	25	23
Outlet 400 V		76	59	71	66	67	71	67	62	54

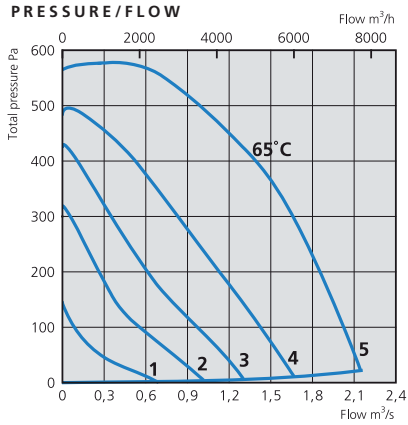


RKBI 800 x 500 D3

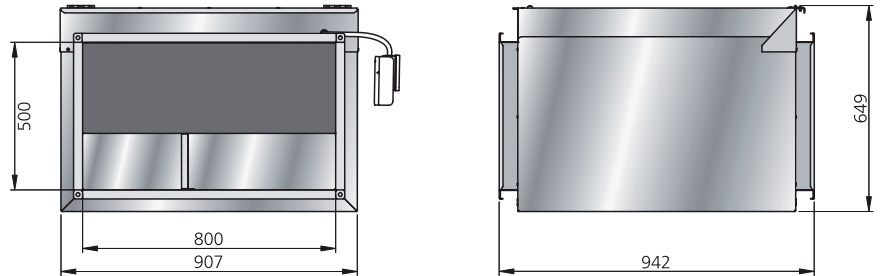
RKBI 800 x 500 K1

Rectangular insulated duct fan with backward curved impeller and swing-out design

RKBI 800 x 500 D3



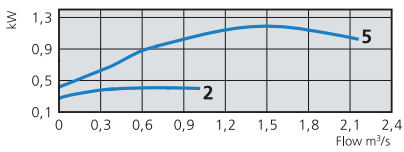
DIMENSIONS (mm)



TECHNICAL DATA

Voltage V/Hz	Current A	Input kW	Speed rpm	Weight kg	Wiring diagram	Capacitor μ F	Insulation class motor	Motor protection
400/50	2,06	1,18	1314	88	4040004	-	F	IP 44

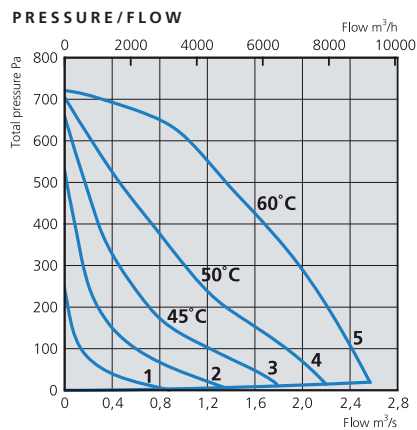
INPUT/FLOW



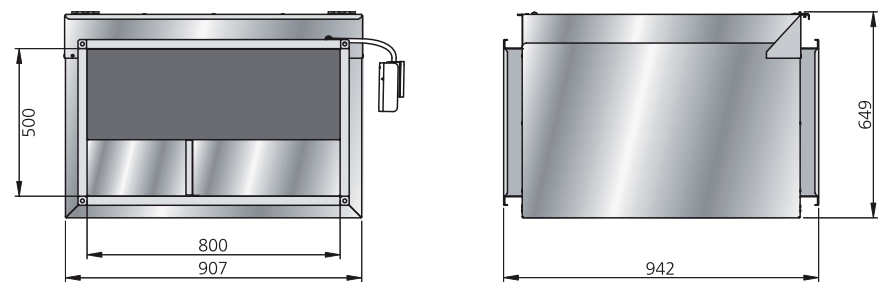
SOUND DATA

855 l/s 630Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment 400 V	55	62	50	56	59	50	53	46	43	38
5. Inlet 400 V		70	58	66	62	55	61	60	56	49
4. Inlet 240 V		66	55	63	60	52	55	54	47	38
3. Inlet 185 V		63	50	62	52	46	50	48	40	30
2. Inlet 145 V		58	47	58	46	38	43	40	29	21
1. Inlet 95 V		46	44	42	33	27	30	23	16	15
Outlet 400 V		80	60	70	75	68	75	70	65	57

RKBI 800 x 500 K1



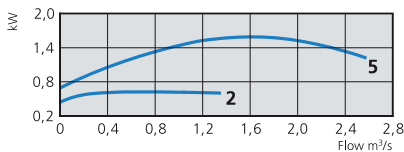
DIMENSIONS (mm)



TECHNICAL DATA

Voltage V/Hz	Current A	Input kW	Speed rpm	Weight kg	Wiring diagram	Capacitor μ F	Insulation class motor	Motor protection
230/50	7,75	1,61	1285	88	4040005	25	F	IP 44

INPUT/FLOW



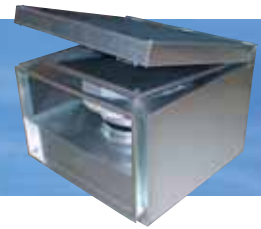
SOUND DATA

855 l/s 630Pa	L_{pA}	L_{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment 230 V	55	62	48	57	60	52	50	44	41	41
5. Inlet 230 V		72	60	69	64	56	59	61	53	48
4. Inlet 165 V		70	57	69	57	54	54	53	46	42
3. Inlet 135 V		65	53	65	50	46	46	46	41	31
2. Inlet 110 V		57	52	55	43	39	39	38	31	22
1. Inlet 80 V		47	44	44	31	29	31	26	23	19
Outlet 230 V		82	59	73	76	70	77	72	66	60

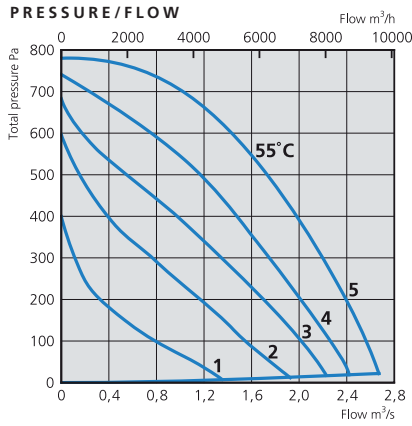
RKBI 800 x 500 K3

RKBI 1000 x 500 J1

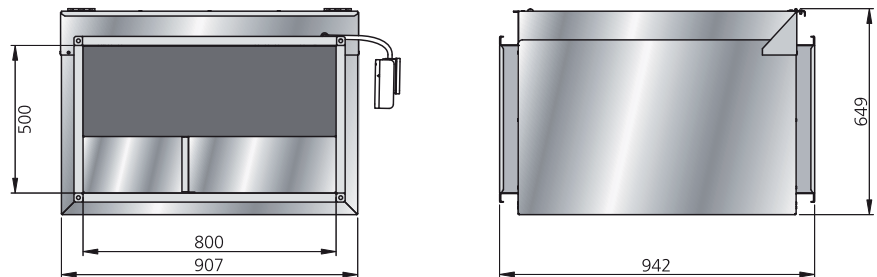
Rectangular insulated duct fan with backward curved impeller and swing-out design



RKBI 800 x 500 K3

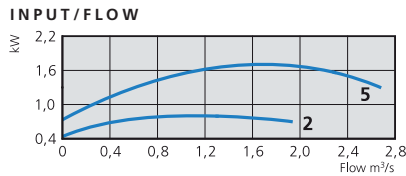


DIMENSIONS (mm)



TECHNICAL DATA

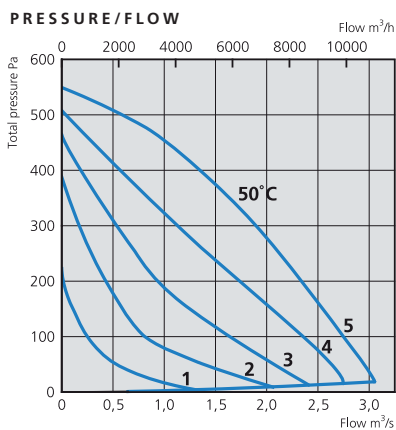
Voltage V/Hz	Current A	Input kW	Speed rpm	Weight kg	Wiring diagram	Capacitor μF	Insulation class motor	Motor protection
400/50	3,69	1,72	1395	88	4040004	-	F	IP 44



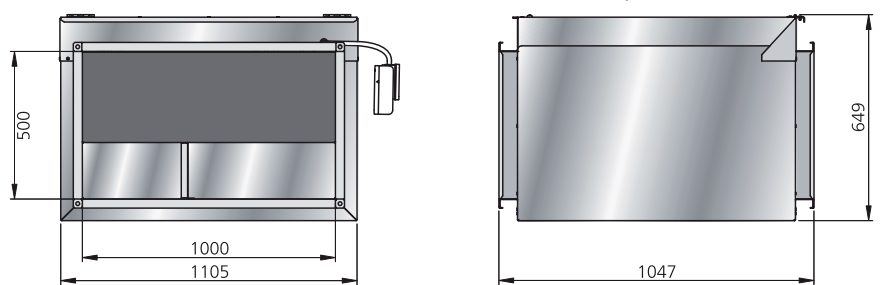
SOUND DATA

1180 l/s 665 Pa	L_{pA}	L_{wA}	tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment 400 V	57	64	49	58	62	54	52	45	41	40	
5. Inlet 400 V		73	61	69	69	59	62	63	56	51	
4. Inlet 240 V		72	60	69	64	58	62	59	52	48	
3. Inlet 185 V		69	56	68	57	54	57	56	49	43	
2. Inlet 145 V		65	55	64	52	49	51	51	45	38	
1. Inlet 95 V		58	53	55	44	41	40	33	26		
Outlet 400 V		86	62	74	82	74	81	76	70	63	

RKBI 1000 x 500 J1

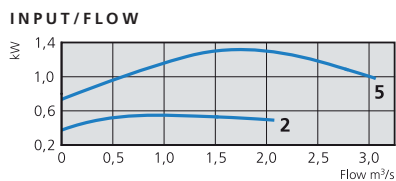


DIMENSIONS (mm)



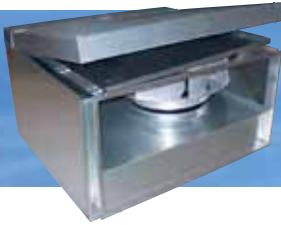
TECHNICAL DATA

Voltage V/Hz	Current A	Input kW	Speed rpm	Weight kg	Wiring diagram	Capacitor μF	Insulation class motor	Motor protection
230/50	6,43	1,32	875	132	4040005	30	F	IP 44



SOUND DATA

810 l/s 470 Pa	L_{pA}	L_{wA}	tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment 230 V	53	60	52	56	53	55	49	41	38	37	
5. Inlet 230 V		71	61	69	57	52	52	51	47	41	
4. Inlet 165 V		69	58	68	55	50	50	50	44	38	
3. Inlet 135 V		64	56	62	50	45	45	44	38	32	
2. Inlet 110 V		59	53	57	43	38	37	37	30	24	
1. Inlet 80 V		52	41	52	40	28	26	26	19	17	
Outlet 230 V		76	61	71	66	68	72	65	59	53	

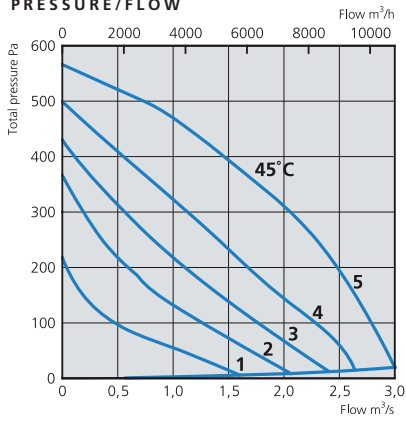


RKBI 1000 x 500 J3 RKBI 1000 x 500 L3

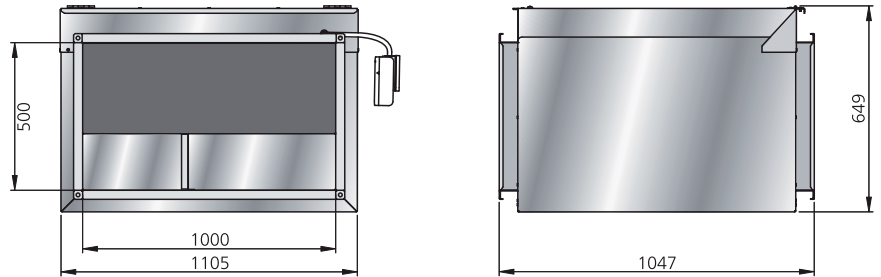
Rectangular insulated duct fan with backward curved impeller and swing-out design

RKBI 1000 x 500 J3

PRESSURE/FLOW



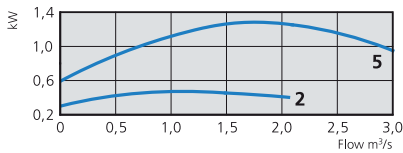
DIMENSIONS (mm)



TECHNICAL DATA

Voltage V/Hz	Current A	Input kW	Speed rpm	Weight kg	Wiring diagram	Capacitor μ F	Insulation class motor	Motor protection
400/50	3,44	1,28	890	132	4040004	-	F	IP 44

INPUT/FLOW

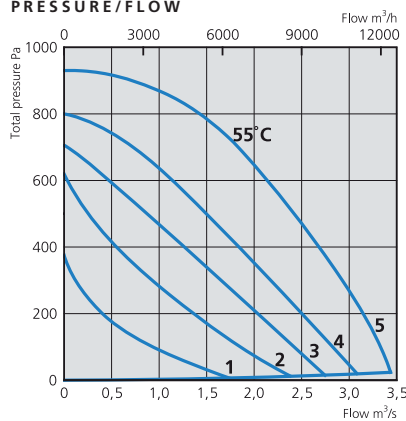


SOUND DATA

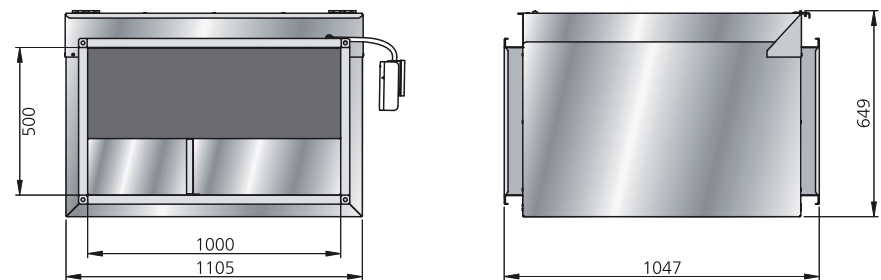
720 l/s 490 Pa	L_{pA}	L_{WA}	tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment 400 V	53	60	53	57	53	52	48	42	39	37	
5. Inlet 400 V		71	63	70	58	54	53	53	47	43	
4. Inlet 240 V		67	56	66	54	49	50	50	43	38	
3. Inlet 185 V		63	55	61	50	46	45	45	39	33	
2. Inlet 145 V		57	52	55	46	42	41	40	34	28	
1. Inlet 95 V		50	45	47	38	33	31	29	23	19	
Outlet 400 V		78	63	73	67	69	73	66	60	55	

RKBI 1000 x 500 L3

PRESSURE/FLOW



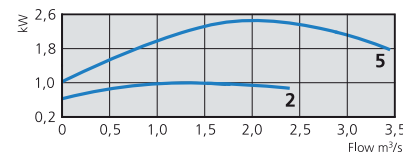
DIMENSIONS (mm)



TECHNICAL DATA

Voltage V/Hz	Current A	Input kW	Speed rpm	Weight kg	Wiring diagram	Capacitor μ F	Insulation class motor	Motor protection
400/50	4,90	2,46	1348	109	4040004	-	F	IP 44

INPUT/FLOW



SOUND DATA

1110 l/s 840Pa	L_{pA}	L_{WA}	tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment 400 V	58	65	55	62	60	55	54	49	47	44	
5. Inlet 400 V		75	63	73	67	59	60	61	55	51	
4. Inlet 240 V		73	59	71	64	57	61	61	54	50	
3. Inlet 185 V		70	56	69	58	53	53	55	51	44	
2. Inlet 145 V		66	53	65	52	48	48	51	48	38	
1. Inlet 95 V		56	49	53	43	38	39	44	34	23	
Outlet 400 V		85	64	76	78	75	81	76	73	70	

VERSATILE AND FLEXIBLE



IFK, IFA and CAU ducted exhaust fans

These three insulated ducted exhaust fans have either two or three inlets and one outlet duct connection offering flexibility.

These duct fans are equipped with external rotor motors incorporating maintenance free ball bearings.

Motors which are speed controllable by voltage variation, also have built-in approved overheat protection. These motors drive our forward curved centrifugal fans.

All three models are constructed from galvanised sheet steel and have swing-out design to facilitate easy cleaning.



IFK

The IFK is designed as a cooker exhaust fan and can be connected to a cooker hood.

Our single inlet centrifugal fan has a forward curved impeller that can handle high pressures yet offer low sound levels.

IFK has a 30 mm of Rockwool fire retardant insulation for sound attenuation.

IFA

IFA uses a single inlet centrifugal fan and is suitable for mounting in a cupboard or even in the attic.

This fan has three inlets and one outlet which makes versatile for numerous applications. IFA has 30 mm of Rockwool insulation.



CAU

The CAU also uses our single inlet centrifugal fan, it has three inlets and one outlet which makes it a highly flexible duct fan suitable for many applications.

CAU is a superior version of our LPK but with an insulated bottom and side plate. The CAU is suitable for applications where there are no requirements for condensation separation.

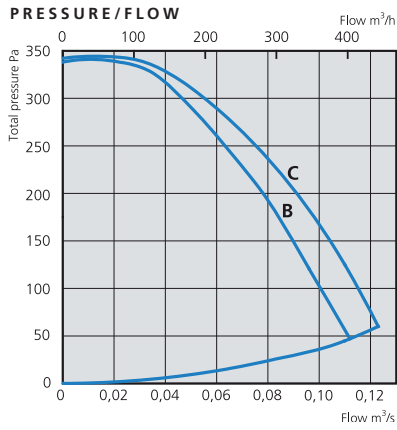




IFK 140 B/C

Single inlet radial fan with forward curved impeller and swing-out design

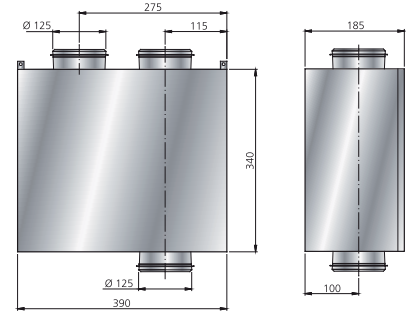
IFK 140 B/C



TECHNICAL DATA

IFK	140 B	140 C
Voltage, V/Hz	230/50	230/50
Current, A	0,35	0,48
Input, W	81	104
Speed, rpm	1630	1940
Weight, kg	9,2	9,2
Wiring diagram	4040001	4040001
Capacitor, µF	2	4
Insulation clas, motor	F	F
Motor protection	IP 44	IP 44

DIMENSIONS (mm)



SOUND DATA

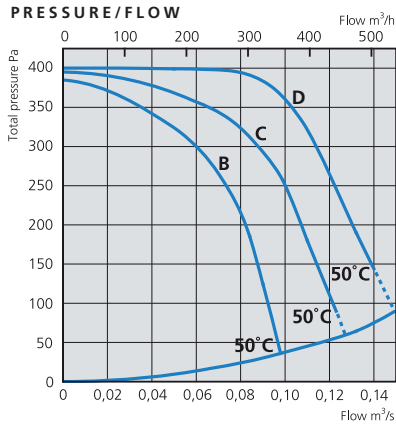
IFK 140 B	L _{pA}	L _{wA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	30	37	-	25	31	31	31	30	24	16
Inlet		55	34	46	51	51	47	42	40	31
Outlet		68	42	54	60	63	64	61	55	58
IFK 140 C										
Environment	32	39	-	31	32	31	33	30	23	14
Inlet		57	34	48	53	52	48	44	42	33
Outlet		70	42	56	62	65	65	62	56	49

IFA 140 B/C/D

Insulated single inlet radial fan with forward curved impeller and swing-out design



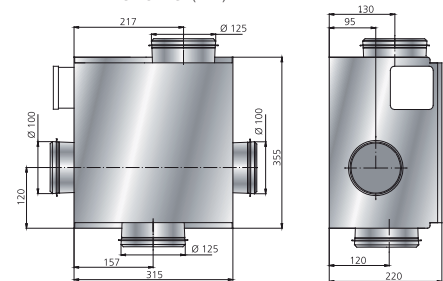
IFA 140 B/C/D



TECHNICAL DATA

IFA	140 B	140 C	140 D
Voltage, V/Hz	230/50	230/50	230/50
Current, A	0,48	0,55	0,63
Input, W	106	124	156
Speed, rpm	1650	1850	2200
Weight, kg	8,1	8,1	8,3
Wiring diagram	4040001	4040001	4040001
Capacitor, μ F	2	4	4
Insulation class, motor	F	F	F
Motor protection	IP 44	IP 44	IP 44

DIMENSIONS (mm)



SOUND DATA

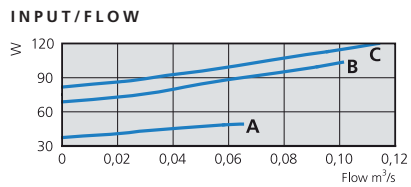
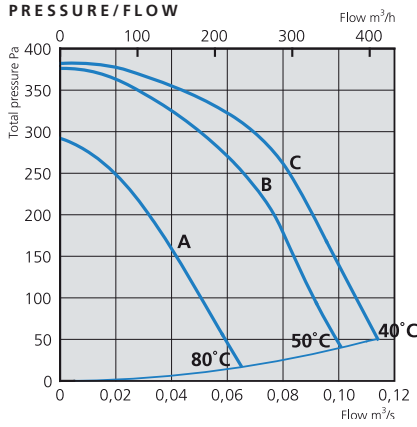
IFA 140 B, 85 l/s 165 Pa	L_{pA}	L_{wA}	tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	30	37	16	25	30	33	32	23	21	12	
Inlet		52	35	41	48	47	42	41	38	31	
Outlet		67	39	48	56	58	64	60	55	48	
IFA 140 C, 110 l/s 180 Pa											
Environment	34	41	19	31	36	37	34	27	25	16	
Inlet		56	37	45	52	52	46	44	41	34	
Outlet		70	41	52	60	62	66	64	58	50	
IFA 140 D, 125 l/s 210 Pa											
Environment	36	43	22	33	36	38	36	28	26	18	
Inlet		57	37	44	52	52	47	47	43	37	
Outlet		73	43	56	64	64	68	67	61	54	



CAU 125 A/B/C

Single inlet radial fan with forward curved impeller and swing-out design

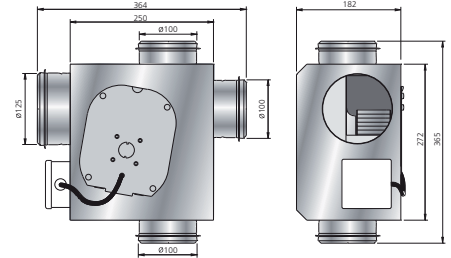
CAU 125 A/B/C



TECHNICAL DATA

CAU	125 A	125 B	125 C
Voltage, V/Hz	230/50	230/50	230/50
Current, A	0,21	0,45	0,53
Input, W	48	104	120
Speed, rpm	1050	1500	1750
Weight, kg	4,7	4,7	4,7
Wiring diagram	4040002	4040001	4040001
Capacitor, μF	4	2	4
Insulation class, motor	F	F	F
Motor protection	IP 44	IP 44	IP 44

DIMENSIONS (mm)



SOUND DATA

CAU 125 A, 35 l/s 215 Pa	L_{pA}	L_{WA} tot dB (A)	63	125	250	500	1K	2K	4K	8K
Environment	39	46	32	34	37	36	43	36	32	30
Inlet		55	44	45	50	50	40	37	33	21
Outlet		64	48	56	57	57	59	55	48	40
CAU 125 B, 60 l/s 280 Pa										
Environment	43	50	34	37	41	41	45	41	39	34
Inlet		58	45	47	54	53	44	42	39	29
Outlet		68	49	58	60	61	63	62	54	47
CAU 125 C, 85 l/s 260 Pa										
Environment	41	48	34	36	41	40	42	40	37	32
Inlet		60	47	48	56	55	45	42	38	32
Outlet		72	55	62	64	64	66	65	57	51

GENERAL FAN FACTS

DESCRIPTION

- The fan is used for transportation of "clean" air, meaning not intended for fire-dangerous substances, explosives, grinding dust, soot, etc.
- The fan is equipped with an asynchronous external rotor induction motor with maintenance free sealed ball-bearings.
- The capacitor has finite lifetime and should be exchanged after 45.000 hours of operation (about 5 years) to secure maximum function. Defective capacitor can cause damage.
- To achieve maximum life time for installations in damp or cold environments, the fan should be operating continuously.
- The fan can be installed outside or in other damp environments. Make sure that the fan-house is equipped with drainage.
- All fans are as standard, single phase 230V or 3-phase 400V 50 Hz.
- The fan can be installed in any position.

INSTALLATION

- The fan must be installed according to the air direction label on the fan.
- The fan must be connected to duct or equipped with a safety grille.
- The fan should be installed in a safe way and make sure that no foreign objects are left behind.
- The fan should be installed in a way that makes service and maintenance easy.
- The fan should be installed in a way that vibrations can not be transfused to duct or building. To provide this, use for example a duct clamp.

- To regulate the speed a transformer or a thyristor can be connected.
- A wiring diagram is applied on the inside of the junction box or separately enclosed.
- 3-phase fans must be installed with an external thermal contact.
- The fan must be installed and connected electrically in the correct way grounded.
- Electrical installations must be made by an authorized electrician.
- Electrical installations must be connected to a locally situated tension free switcher or by a lockable head switcher.

OPERATION

When starting, make sure that:

- the connecting voltage is in between +6% to -10% of the rated voltage.
- no noise appears when starting the fan.

HOW TO HANDLE

- The fan must be transported in its packing until installation. This prevents transport damages, scratches and the fan from getting dirty.
- Attention, look out for sharp edges and corners.

MAINTENANCE

- Before service, maintenance or repair begins, the fan must be tension free and the impeller must have stopped.
- The fan must be cleaned when needed, at least once per year to maintain the capacity and to avoid unbalance which may cause unnecessary damages on the bearings.

- The fan bearings are maintenance-free and should be renewed only when necessary.
- When cleaning the fan, high-pressure cleaning or strong dissolvent must not be used.
- Cleaning should be done without dislodging or damaging the impeller.
- Make sure that there is no noise from the fan.

FAULT DETECTION

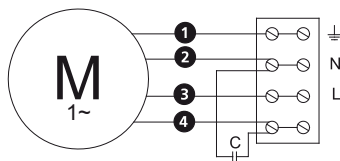
- Make sure that there is tension to the fan.
- Cut the tension and verify that the impeller is not blocked.
- Check the thermo-contact/motor protector. If it is disconnected the cause of overheating must be taken care of, not to be repeated. To restore the manual thermo-protector the tension will be cut for a couple of minutes. If it has automatic thermo-protector the re-setting will be done automatically when the motor is cold.
- Make sure that the capacitor is connected, (single phase only) according to the wiring diagram.
- If the fan still does not work, the first thing to do is to renew the capacitor.
- If nothing of this works, contact your fan supplier.
- If the fan is returned to the supplier, it must be cleaned, the motor cable undamaged and a detailed nonconformity report enclosed.

WARRANTY

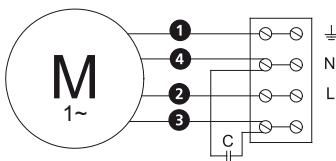
The warranty is only valid under condition that the fan is used according to this "Directions for use".

Wiring diagrams

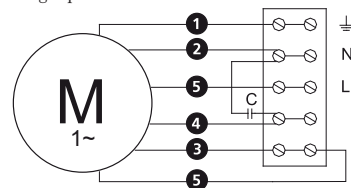
4040001
Single phase



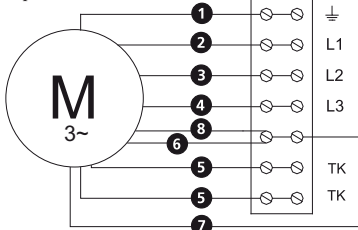
4040002
Single phase



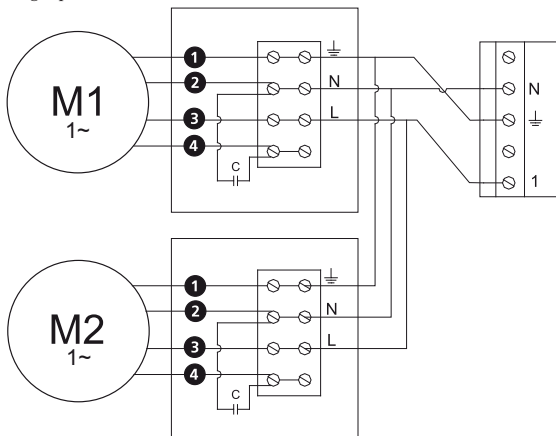
4040005
Single phase with external thermo contact leads



4040004
3-phase Y 400 V



4040021
Single phase with two double inlet radial fans



- (M) = Fan Motor
- (M1) = Fan Motor
- (M2) = Fan Motor
- 1 = Yellow/Green
- 2 = Black
- 3 = Blue
- 4 = Brown
- 5 = White
- 6 = Orange
- 7 = Grey
- 8 = Red
- 9 = Green
- 10 = Violet

Pressure/flow-curves explanation

FIG. 1:

The fan curve describes the capacity of the fan, i.e. the flow of the fan at different pressures at a certain input voltage.

The fan diagram has the pressure in Pascal, Pa, on the vertical axis and the flow in cubic metres per second, m³/s, on the horizontal axis.

The point on the fan curve showing the current pressure and flow is called the fans working point. In our example it is marked with P.

If the pressure increases in the ducts, the working point moves along the fan curve and hence a lower flow is obtained. In the example the working point would move from P1 to P2.

FIG. 1:

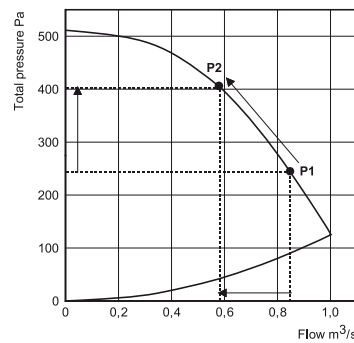


FIG. 2:

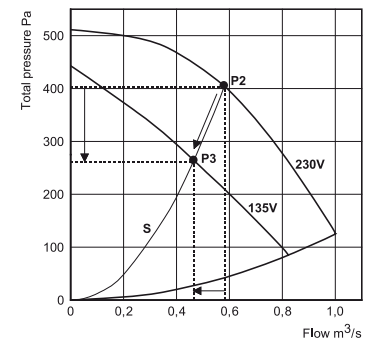


FIG. 2:

The system line describes the total behaviour of a ventilation system (ducts, silencers and valves etc.).

Along this system line, S, the working point is moved from P2 to P3 as the rotational speed is changed.

Distinct voltage steps with eg. a transformer produces different fan curves, 135 V and 230 V, indicated in the example.

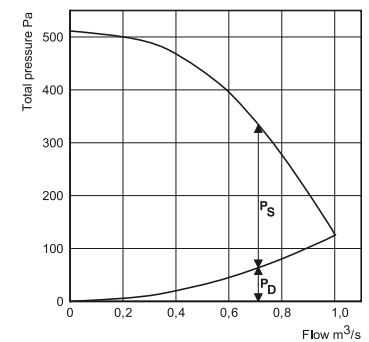
FIG. 3:

Our fan curves present the total pressure in Pascal. Total pressure = Static + Dynamic pressure.

The static pressure is the pressure of the fan compared to the atmospheric pressure. It is this pressure that shall overcome the pressure losses of the ventilation system.

The dynamic pressure is a calculated pressure that arises at the outlet of the fan, and is mostly due to air velocity. The dynamic pressure thus describes how the fan is working. The dynamic pressure is presented with a curve, starting at origo, that increases with increased flow. A high dynamic pressure can with wrong duct connection produce a high pressure loss. If the pressure loss in the system is known, a fan whose difference between the total and the dynamic pressure corresponds to the pressure loss in the system must be found.

FIG. 3:



Sound data explanation

SOUND DATA IN THIS BROCHURE IS BASED ON FOLLOWING DEFINITIONS:

The points for which the sound data is presented are along the system line defined by the pressure and flow stated in the sound data table for each fan. There are three types of sound in these tables; inlet- and outlet sound are measured in duct, while the surrounding sound is measured outside the fan and duct system. For all these types of sound, the sound power levels are presented in octave bands. For the surrounding sound, also the sound pressure level has been calculated.

THE SOUND POWER LEVEL

The sound power level, Lw(A) is used to calculate the sound from the whole ventilation system. This system can be a composition of grilles, dampers and diffusers for example.

The sound power level is a measured value according to standards, and it does not tell how the sound appears as the sound power is independent of the characteristics of the placement of the fan. In order to resemble the human ear, the A-filter is used indicated with Lw(A) measured in dB(A).

THE SOUND PRESSURE LEVEL

The sound pressure level, Lp or Lp(A), tells how the human ear registers the sound. It is dependent on the sound power level, distance from the source, restrictions of the propagation and the acoustic characteristics of the room.

The sound pressure level is presented for a room with an equivalent absorption area of 20 m² at a distance of 3 m, where the sound is emitted in a semi spherical propagation.

The sound pressure level can be calculated as:

$$L_p = L_w + 10 \log(Q/4\pi r^2 + 4/A)$$

where A is the room's equivalent absorption area and Q is the propagation type:

- Q=1 is spherical propagation
- Q=2 is semi spherical propagation
- Q=4 is quarter spherical propagation.

Thus, for the above specified properties of the placement of the fan, the difference between sound pressure and sound power is:

$$L_p - L_w = 10 \log(2/4\pi 3^2 + 4/20) = -7 \text{ dB}$$

which is the difference that can be seen in the tables of sound data for each fan. For the free field case, i.e. from a roof fan, the sound pressure level is calculated as:

$$L_p = L_w + 10 \log(2/4\pi r^2)$$

Temperature of transported air

In pressure/flow diagrams or in the table of technical data there are facts about highest temperature of transported air.

All motors have insulation class F which means that the thermal contact disconnects the power when the winding temperature is maxi-

mum 155°C. At this winding temperature the life time of the ball bearings is not optimal. This is why the ambient temperature is shown at a lower winding temperature so the life time of ball bearings becomes optimal.

The winding temperature varies in the diagrams and depending on differences in power/current consumption. The temperatures in our diagrams are given at the highest winding temperature.



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