

Rectangular duct fans IRB



Supply and exhaust installations



IP 44 protection class



Made of galvanised steel

Design

Radial fan, suitable for installation in rectangular ducts. The cover and rotor with backward curved impeller are made of galvanised sheet. The motor mounted directly to the inspection door allows easy disassembly and the service of the device. The junction box is attached directly to the cover.

Usage

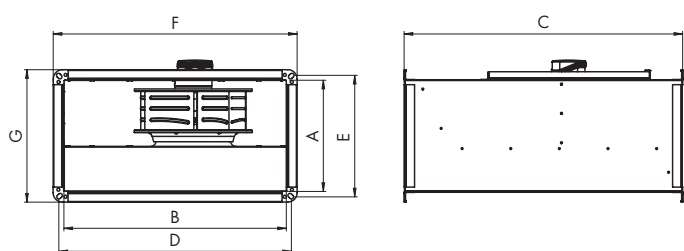
The IRB fan is ideal for supply and exhaust installations in residential construction, as well as in many commercial facilities, such as: cafes, bars, restaurants, schools, gyms, warehouses, as well as in supply industrial installations.

Technical specifications

Model	Air flow [m ³ /h]	Impeller speed [rpm]	Power [W]	Current [A]	Voltage [V]	Frequency [Hz]	Capacitor [µF]	Sound pressure level [dB(A)]	Weight [kg]	Controller HRX	Controller HRB	Frequency converter
IRB-4020/940 M	950	2650	100	0,49	230	50	4	48	10,5	1,0	1,5	-
IRB-4020/1200 M	1150	2650	130	0,64	230	50	5	54	11	1,0	1,5	-
IRB-5025/1800 M	1610	2600	180	0,82	230	50	6	58	15	2,5	1,5	-
IRB-6030/2000 M	1850	1440	160	0,9	230	50	6	50	29	1,0	1,5	-
IRB-6035/2800 M	2500	1440	140	0,86	230	50	6	53	31	1,0	1,5	-
IRB-6035/3400 M	3300	1400	200	1,0	230	50	8	53	32	2,5	1,5	-
IRB-7040/4500 M	4000	1350	310	1,55	230	50	10	56	44	4,0	3,0	-
IRB-7040/5900 M	5400	1350	500	2,5	230	50	10	58	46	4,0	4,0	-
IRB-8050/8000 T	7550	1335	960	2,0	400 Δ/Y	50	-	64	66	-	-	Yes
IRB-10050/10000 T	9600	1250	1400	2,7	400 Δ/Y	50	-	66	84	-	-	Yes

Sound pressure level measured at 3m.

Technical drawing



Dimensions [mm]

Model	A	B	C	D	E	F	G
IRB-3015/520 M	150	300	400	320	170	350	200
IRB-4020/940 M	200	400	500	420	220	450	250
IRB-4020/1200 M	200	400	500	420	220	450	250
IRB-5025/1800 M	250	500	565	520	270	550	300
IRB-6030/2000 M	300	600	650	620	320	650	350
IRB-6035/2800 M	350	600	750	620	370	650	400
IRB-6035/3400 M	350	600	760	620	370	650	400
IRB-7040/4500 M	400	700	800	720	420	750	450
IRB-7040/5900 M	400	700	800	720	420	750	450
IRB-8050/8000 T	500	800	9120	820	520	850	560
IRB-10050/10000 T	500	1000	1050	1030	530	1060	560

Accessories



HRX
Electronic speed controller
page 174



REC
Anti-vibration connectors for fans with rectangular connection
page 81



PSH
Pressure switch
page 173



WSH
Service switch
page 177

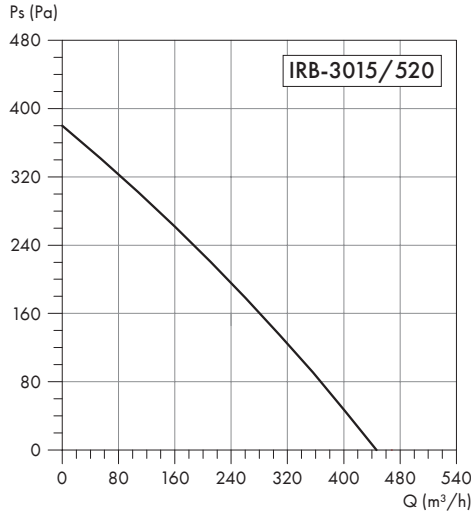


HRB
Transformer speed controller
page 176

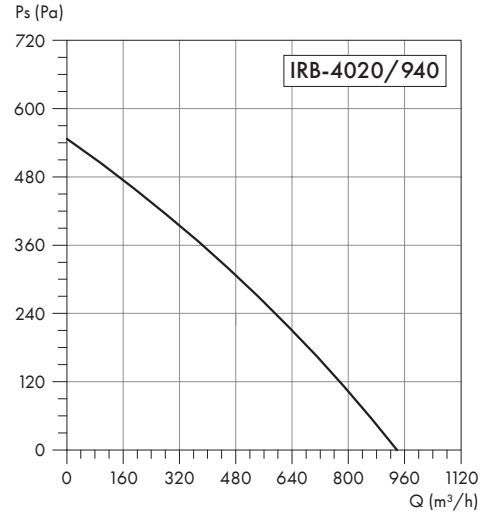


RDA
Rectangular duct silencer
page 82

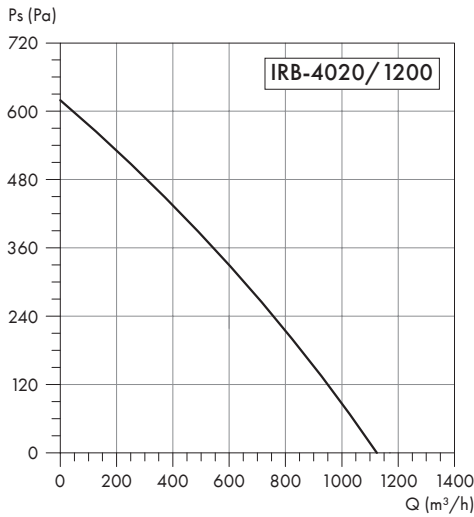
Characteristics



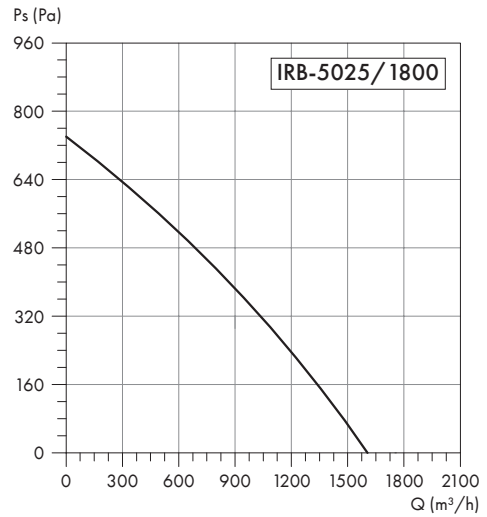
Frequency	Total	63	125	250	500	1000	2000	4000	8000	Hz
L_{wA} Inlet	66	44	56	64	56	55	53	47	38	dB(A)
L_{wA} Outlet	69	48	53	66	63	61	58	51	43	dB(A)
L_{wA} Emitted	50	26	33	47	44	42	41	35	27	dB(A)



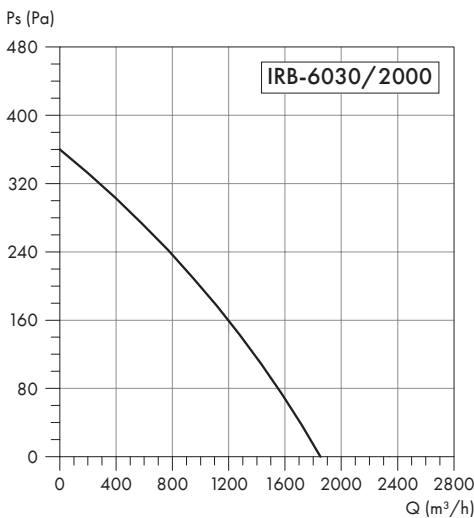
Frequency	Total	63	125	250	500	1000	2000	4000	8000	Hz
L_{wA} Inlet	69	44	54	66	58	61	59	55	47	dB(A)
L_{wA} Outlet	72	44	53	67	64	63	66	61	58	dB(A)
L_{wA} Emitted	55	20	34	53	45	44	44	38	35	dB(A)



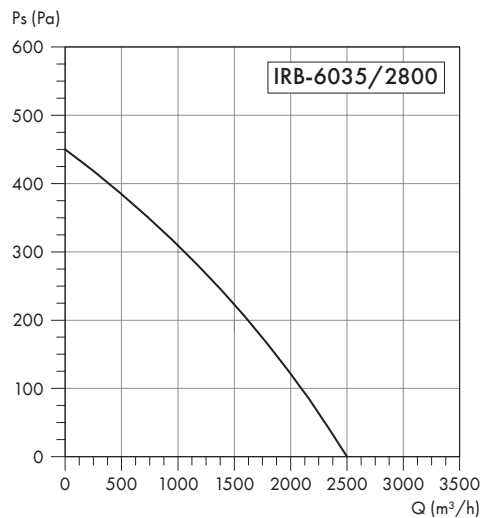
Frequency	Total	63	125	250	500	1000	2000	4000	8000	Hz
L_{wA} Inlet	74	50	61	69	63	67	65	63	60	dB(A)
L_{wA} Outlet	78	51	61	70	69	70	73	67	69	dB(A)
L_{wA} Emitted	61	31	35	55	54	54	55	47	45	dB(A)



Frequency	Total	63	125	250	500	1000	2000	4000	8000	Hz
L_{wA} Inlet	74	50	61	67	65	68	66	63	60	dB(A)
L_{wA} Outlet	78	51	61	69	71	71	73	67	70	dB(A)
L_{wA} Emitted	65	33	40	59	57	59	58	50	47	dB(A)

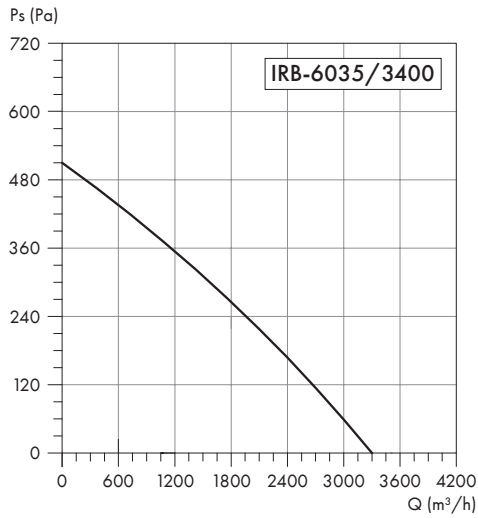


Frequency	Total	63	125	250	500	1000	2000	4000	8000	Hz
L_{wA} Inlet	69	50	62	64	61	62	57	52	44	dB(A)
L_{wA} Outlet	72	49	60	65	68	65	63	58	46	dB(A)
L_{wA} Emitted	57	35	47	54	52	47	44	39	32	dB(A)

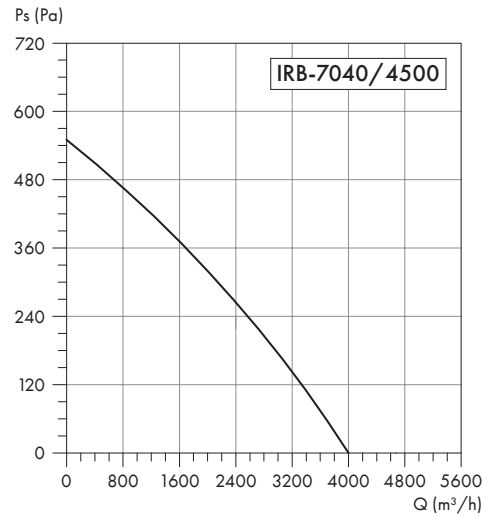


Frequency	Total	63	125	250	500	1000	2000	4000	8000	Hz
L_{wA} Inlet	70	50	65	61	63	60	61	56	48	dB(A)
L_{wA} Outlet	76	54	72	68	69	68	67	62	54	dB(A)
L_{wA} Emitted	60	27	57	53	50	49	48	49	37	dB(A)

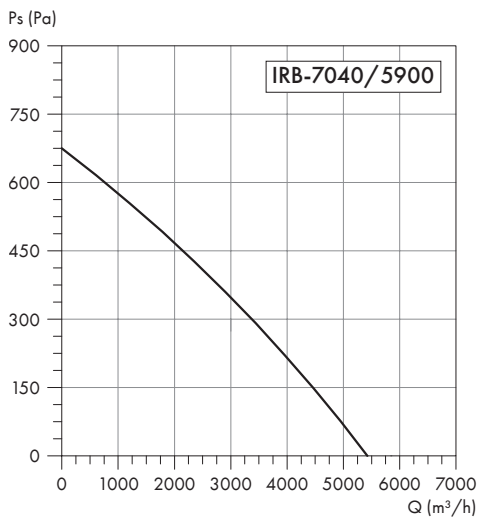
Characteristics



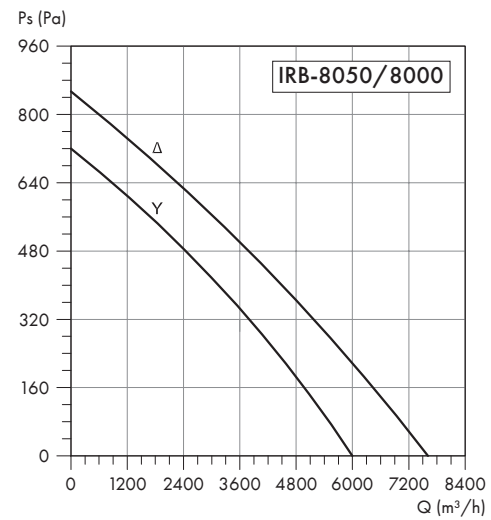
Frequency	Total	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	75	60	70	66	68	66	65	62	53	dB(A)
L_{WA} Outlet	80	60	71	72	74	73	71	67	58	dB(A)
L_{WA} Emitted	65	41	63	59	54	53	48	41	35	dB(A)



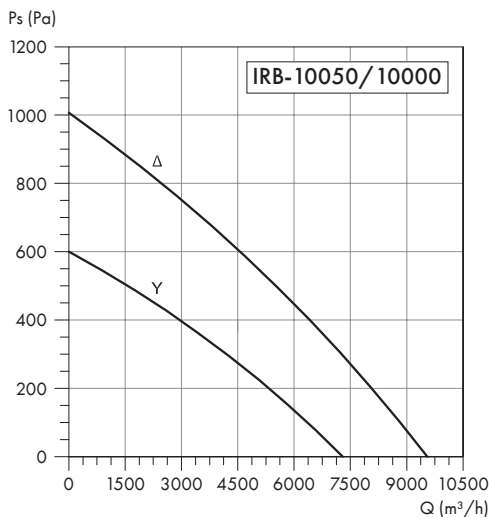
Frequency	Total	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	73	58	68	64	66	66	62	56	50	dB(A)
L_{WA} Outlet	77	62	68	70	71	71	69	61	55	dB(A)
L_{WA} Emitted	63	40	60	57	52	51	46	38	35	dB(A)



Frequency	Total	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	75	60	70	68	69	66	66	62	52	dB(A)
L_{WA} Outlet	79	60	71	71	73	74	71	38	55	dB(A)
L_{WA} Emitted	65	41	62	58	56	56	49	42	36	dB(A)



Frequency	Total	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	79	61	72	71	73	71	71	66	58	dB(A)
L_{WA} Outlet	84	66	75	76	77	79	75	70	61	dB(A)
L_{WA} Emitted	71	45	68	64	61	61	60	54	43	dB(A)



Frequency	Total	63	125	250	500	1000	2000	4000	8000	Hz
L_{WA} Inlet	84	70	77	76	78	78	75	71	65	dB(A)
L_{WA} Outlet	89	71	80	81	82	83	80	74	65	dB(A)
L_{WA} Emitted	72	58	69	64	62	60	56	52	50	dB(A)