

IRE 50x25 C1

Description

IRE is a range of insulated in-line centrifugal duct fans.

They provide high pressure with low sound level.

The IRE fans have good sound and fire insulation qualities provided by a 50mm pad of mineral wool. The high quality ball bearing mounted external rotor motors are maintenance free. They can be speed controlled from 0-100% by voltage variation. All motors are protected by approved thermo contacts. All 3-phase motors have ready fitted thermo contact leads for alarm functions etc.

The fans have a strong galvanized steel housing incorporating a swing out design of the fan motor and impeller for easy cleaning and inspection.



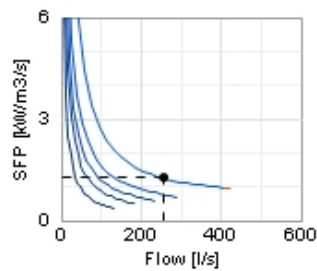
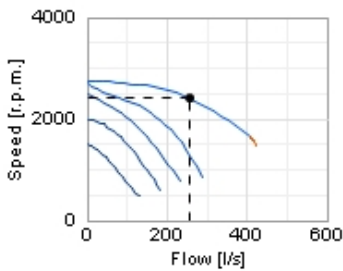
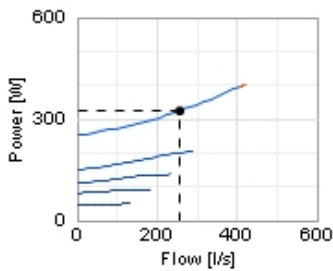
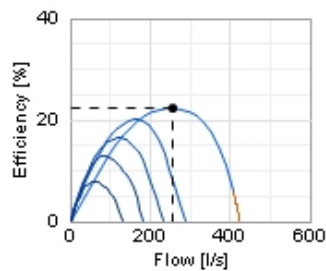
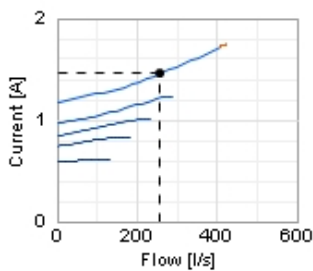
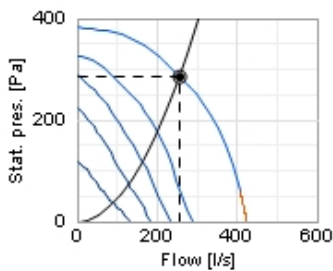
Technical data

Parameter	value	Unit
Voltage	230	V
Phase	1	~
Frequency	50	Hz
Power	390	W
Current	1,7	A
R.p.m.	1450	r.p.m.
Max. temperature of transported air	40	°C
Sound pressure level at 3 m	40	dB(A)
Weight	27,4	kg
Enclosure class, motor	44	IP
Insulation class, motor	F	
Capacitor	5	µF
Duct connection	500x250 mm	

Diagrams

○ Selected point

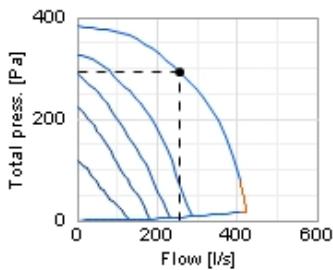
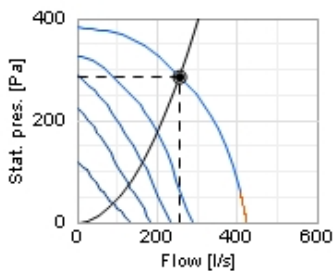
Flow [l/s]	254
Stat. pres. [Pa]	287
● Work point	
Flow [l/s]	254
Stat. pres. [Pa]	287
Power [W]	326
Current [A]	1,46
Speed [r.p.m.]	2409
Efficiency [%]	22,4
SFP [kW/m ³ /s]	1,26
Voltage [V]	230



Sound

○ Selected point

Flow [l/s]	254
Stat. pres. [Pa]	287
● Work point	
Flow [l/s]	254
Stat. pres. [Pa]	287
Total press. [Pa]	293
Power [W]	326
Current [A]	1,46
Speed [r.p.m.]	2409
Efficiency [%]	22,4
SFP [kW/m ³ /s]	1,26
Voltage [V]	230

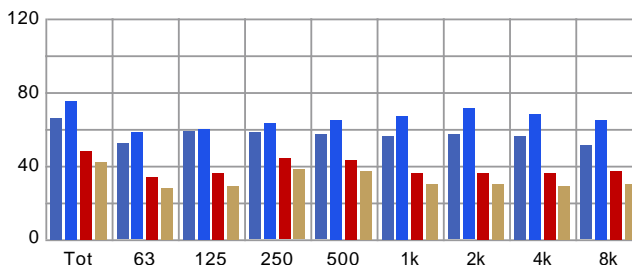


Distance: 3

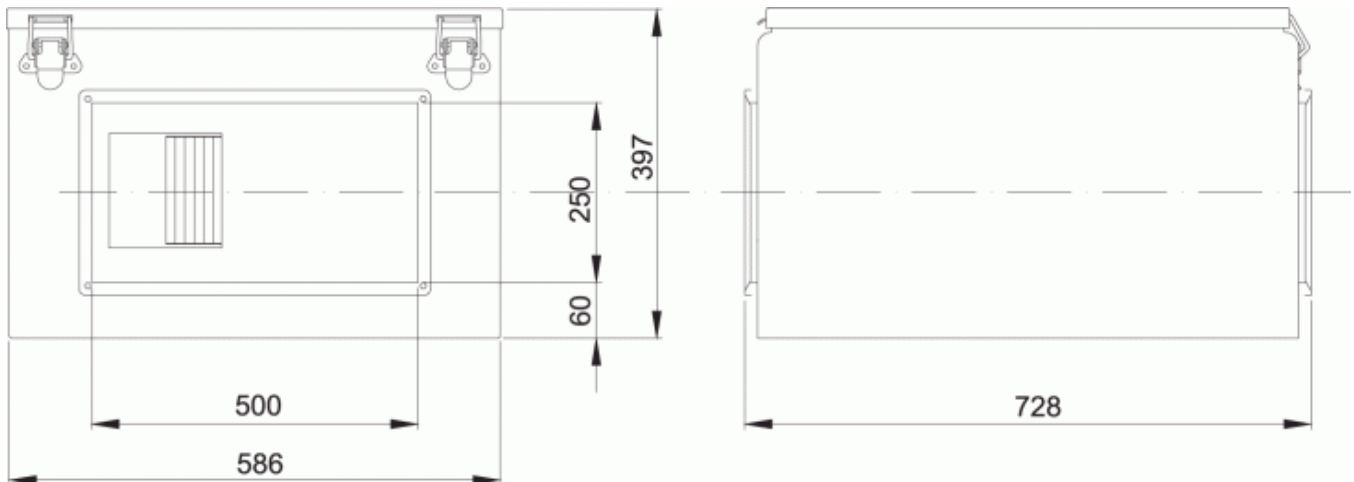
Propagation type: Semi-spherical

Equivalent absorption area: 20

	Tot	63	125	250	500	1k	2k	4k	8k
Inlet Lw dB(A)	66	52	59	58	57	56	57	56	51
Outlet Lw dB(A)	75	58	60	63	65	67	71	68	65
Surrounding Lw dB(A)	48	34	36	44	43	36	36	36	37
Surrounding Lp dB(A)	42	28	29	38	37	30	30	29	30

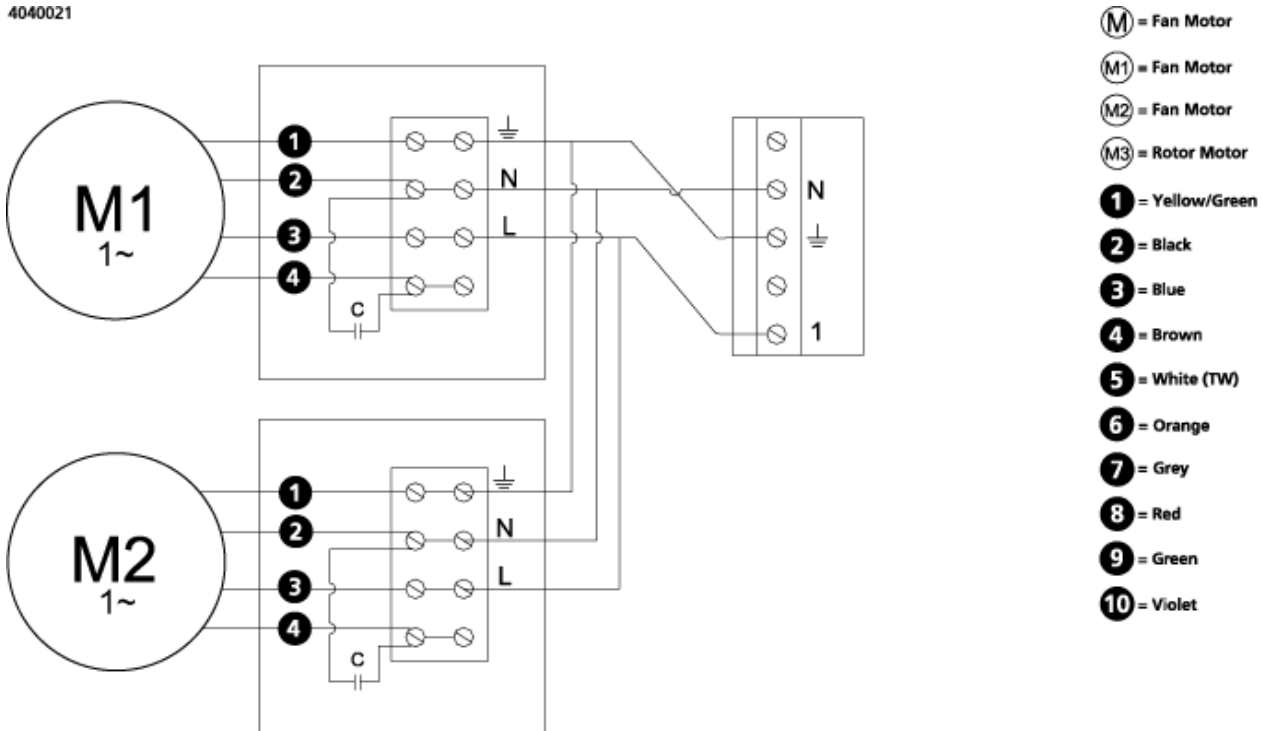


Dimensions



Wiring diagram

4040021



- (M) = Fan Motor
- (M1) = Fan Motor
- (M2) = Fan Motor
- (M3) = Rotor Motor
- 1 = Yellow/Green
- 2 = Black
- 3 = Blue
- 4 = Brown
- 5 = White (TW)
- 6 = Orange
- 7 = Grey
- 8 = Red
- 9 = Green
- 10 = Violet

Accessories

Electric accessories



VRDE 3



VRS 4,0



VRTE 3

Accessories



LDR 500x250