

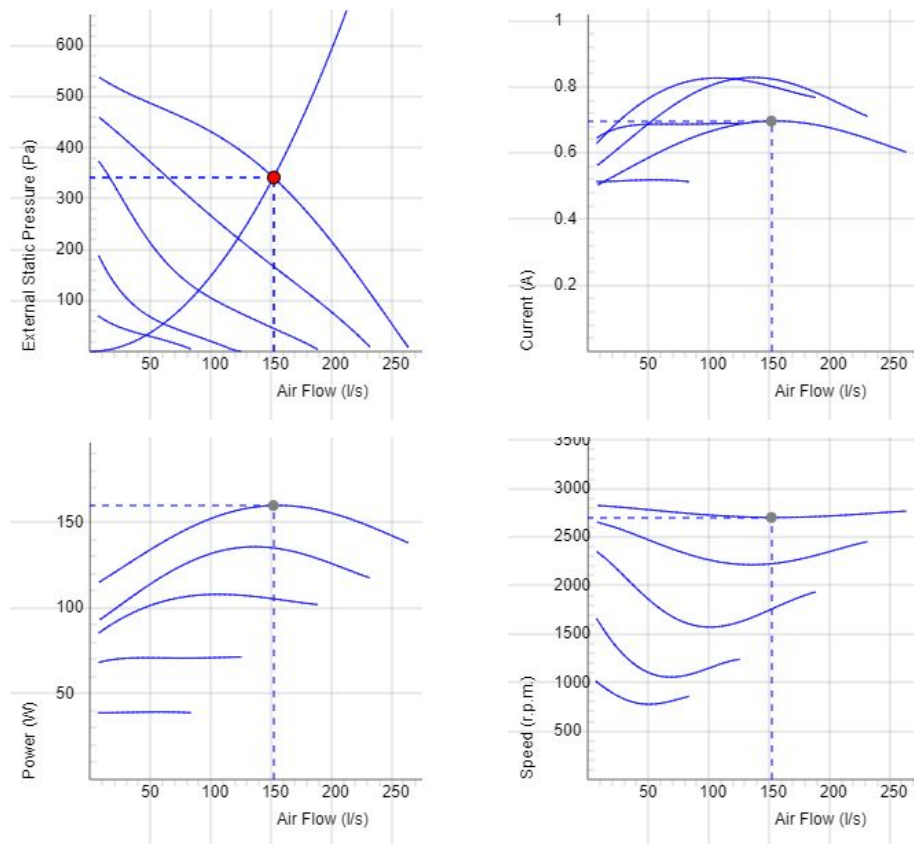
## IRB 200 B1



- Insulated duct fan with circular connections.
- Equipped with 50 mm of thermal and acoustic insulation makes it ideal for handling cold air.
- Designed for high pressure and long, complicated duct runs.
- The design prioritise functionality, durability and longevity.
- Impeller with backward curved blades.
- The external rotor motor has maintenance-free sealed ball-bearings.
- Integrated motor protection.
- Junction box has enclosure class IP 54.
- For speed control a transformer or electronic speed controller can be connected.
- The housing is manufactured from galvanized sheet steel.
- Duct connections are equipped with rubber seals.
- The fan is intended to be installed in a duct system.
- A duct connected fan can be installed outside or in damp environments.



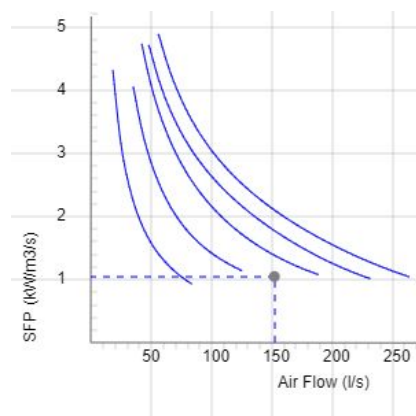
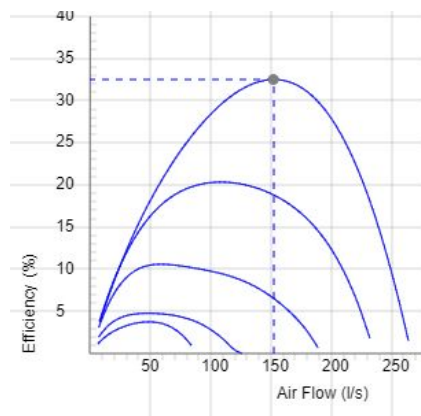
## DIAGRAMS



## Data

| Air Flow (l/s) | External static pressure (Pa) | Power (W) | Speed (r.p.m.) | Current (A) | Voltage (V) |
|----------------|-------------------------------|-----------|----------------|-------------|-------------|
| 152            | 342                           | 160       | 2703           | 0.697       | 230         |

## DIAGRAMS

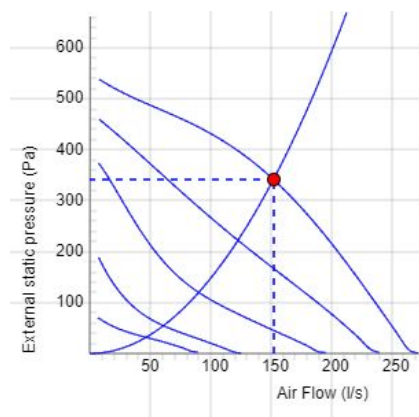


## DATA

Efficiency (%)  
32.5

SFP (kW/m<sup>3</sup>/s)  
1.05

## SOUND DATA



|                                                                       | Tot | 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
|-----------------------------------------------------------------------|-----|----|-----|-----|-----|----|----|----|----|
| Inlet Lw dB(A)                                                        | 64  | 53 | 57  | 62  | 54  | 44 | 39 | 38 | 37 |
| Outlet Lw dB(A)                                                       | 71  | 58 | 61  | 67  | 64  | 60 | 60 | 56 | 54 |
| Surrounding Lw dB(A)                                                  | 54  | 34 | 40  | 52  | 46  | 40 | 37 | 34 | 31 |
| Surrounding Lp dB (A)<br>20m <sup>2</sup> Sabine,<br>hemispherical 3m | 47  |    |     |     |     |    |    |    |    |

## Data - SOUND

| Air Flow (l/s) | External static pressure (Pa) | Power (W) | Speed (r.p.m.) | Current (A) | Efficiency (%) | SFP (kW/m <sup>3</sup> /s) | Voltage (V) |
|----------------|-------------------------------|-----------|----------------|-------------|----------------|----------------------------|-------------|
| 152            | 342                           | 160       | 2703           | 0.697       | 32.5           | 1.05                       | 230         |

## TECHNICAL DATA

### IRB 200 B1 7880036

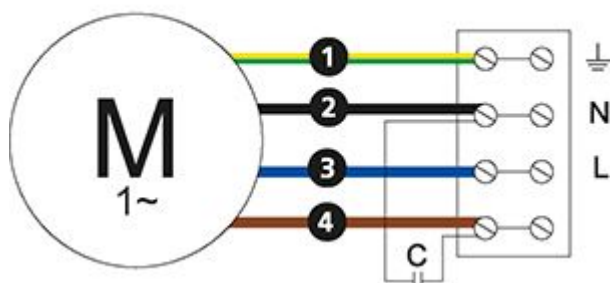
| Parameter                                                 | Value   | Unit   |
|-----------------------------------------------------------|---------|--------|
| Voltage                                                   | 230     | V      |
| Phase                                                     | 1       | ~      |
| Frequency                                                 | 50      | Hz     |
| Power                                                     | 160     | W      |
| Current                                                   | 0.7     | A      |
| Current when speed controlled                             | 0.82    | A      |
| Speed                                                     | 2700    | r.p.m. |
| Max. temperature of transported air                       | 80      | °C     |
| Max. temperature of transported air when speed controlled | 65      | °C     |
| Sound pressure level at 3 m                               | 48      | dB(A)  |
| Weight                                                    | 19.7    | kg     |
| Enclosure class                                           | 44      | IP     |
| Insulation class, motor                                   | F       |        |
| Capacitor                                                 | 5       | µF     |
| Duct connection                                           | 200     | mm     |
| Max. flow @ 0Pa                                           | 266     | l/s    |
| Max. pressure                                             | 543     | Pa     |
| Voltage range                                             | 220-240 | V      |

## PRODUCT INFORMATION SHEET

| Parameter                                | Value                                                | Unit                  |
|------------------------------------------|------------------------------------------------------|-----------------------|
| (a) Manufacturer                         | Östberg                                              | -                     |
| (b) Model code                           | IRB 200 B1                                           | -                     |
| (c) Declared type                        | NRVU / UVU                                           | -                     |
| (d) Type of drive                        | Multi-speed drive                                    | -                     |
| (e) Type of HRS                          | N/A                                                  | -                     |
| (f) Thermal efficiency                   | N/A                                                  | %                     |
| (g) Nominal flow rate                    | 0.161                                                | m <sup>3</sup> /s     |
| (h) Effective power input                | 0.160                                                | kW                    |
| (i) SFP int                              | N/A                                                  | W/(m <sup>3</sup> /s) |
| (j) Face velocity                        | 5.1                                                  | m/s                   |
| (k) Nominal external pressure            | 322                                                  | Pa                    |
| (l) Internal pressure drop               | N/A                                                  | Pa                    |
| (n) Static efficiency                    | 43.1                                                 | %                     |
| (o) External (and internal) leakage rate | 0.33                                                 | %                     |
| (p) Filter classification                | N/A                                                  | %                     |
| (q) Visual filter warning                | N/A                                                  | -                     |
| (r) Sound power level                    | 55                                                   | dB LwA                |
| (s) Disassembly instructions             | <a href="http://www.ostberg.com">www.ostberg.com</a> | -                     |

## WIRING DIAGRAM

4040001



(M) = Fan Motor

(M1) = Fan Motor

(M2) = Fan Motor

(M3) = Rotor Motor

1 = Yellow/Green

2 = Black

3 = Blue

4 = Brown

5 = White

6 = Orange

7 = Grey

8 = Red

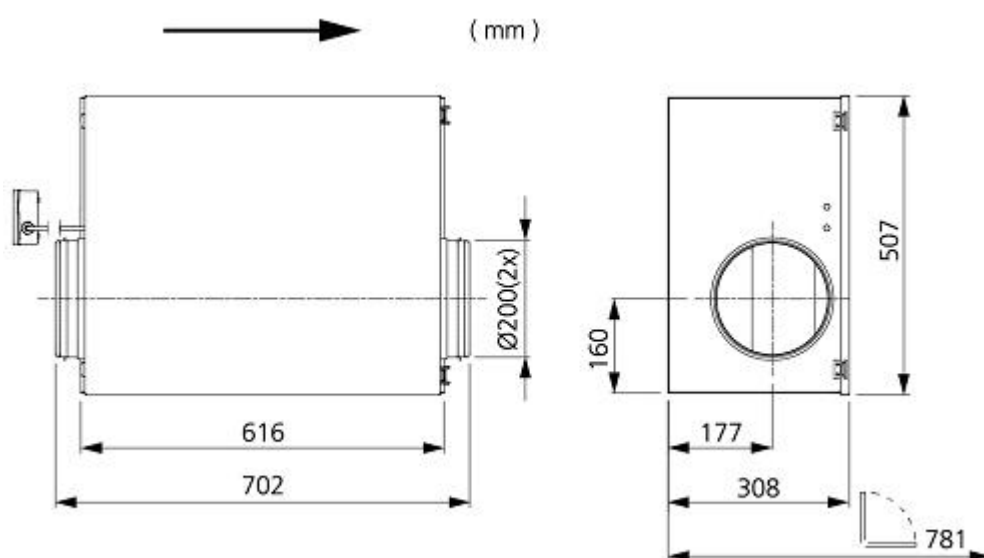
9 = Green

10 = Violet

11 = Quick switch

12 = Yellow

## DIMENSIONS



## ACCESSORIES

### Mechanical accessories



Mounting bracket Kit  
Universal



Mounting clamp MK  
200



Safety grille BSV 200



Back draught shutter  
RSK 200



Louvre YG 200



Louvre shutter VK  
200



Filterbox FLK 200



Filterbox FLF 200



Silencer LDC 200

### Electrical accessories



Transformer  
controller VRTE C



Transformer  
controller VRDE 1.5



Speed controller VRS  
1.0