

SIF-1500 / 1800 / 1900 / 2000

CENTRAL EXTRACTION FAN

Extraction fan with straight blades for use in central welding fume extraction systems or general filtration systems. The SIF fan is mounted in a sound absorbing box with inspection cover either left ("LI" type) or right ("RI" type). The fan is equipped with flexible inlet and outlet adapters and placed on shock absorbers.

In case it is combined with a central filter unit, the fan must be connected to the outlet side of the filter unit.



APPLICATIONS

The SIF fans are intended to be used for the following applications:



- MIG-MAG/GMAW welding
- TIG welding
- FCAW welding
- stick/MMAW welding
- stainless steel welding
- grinding
- polishing
- finishing

SPECIFICATIONS

| ■ Physical dimensions and properties | |
|---|--|
| Material: | <ul style="list-style-type: none"> • fan • housing |
| | <ul style="list-style-type: none"> • steel • steel with aluminium profiles and corners |
| Motor design | IEC 132 (WEG) |
| Discharge position | RD 0 |
| Fan type | radial |
| Design conditions | 15°C (59°F) at sea level |
| ■ Performance | |
| Airflow | refer to attached fan curves |
| Speed of revolutions | 2900 rpm |
| Noise level according to ISO 3746 (fan without sound absorbing box) | refer to attached fan curves |
| Noise reduction of sound absorbing box | approx. 10 dB(A) |
| ■ Electrical data | |
| Connection voltage | 400-690V/3ph/50Hz |
| Efficiency level | IE3 |
| Insulation class | F with PTC |
| Protection class | IP 55 |
| Max. start/stops per hour | 20 |
| ■ Ambient conditions | |
| Process temperature: | <ul style="list-style-type: none"> • min. • nom. • max. |
| | <ul style="list-style-type: none"> • 5°C (41°F) • 20°C (68°F) • 60°C (140°F) |
| Max. relative humidity | 80% |
| Storage conditions | <ul style="list-style-type: none"> • 5-60°C (41-140°F) • relative humidity max. 80% |

■ Product combinations

You can use the SIF fans in the following configurations / with the following products:

- multiple arm systems with filter unit
- multiple arm systems without filter unit
- modular extraction hood systems
- push-pull systems
- control equipment

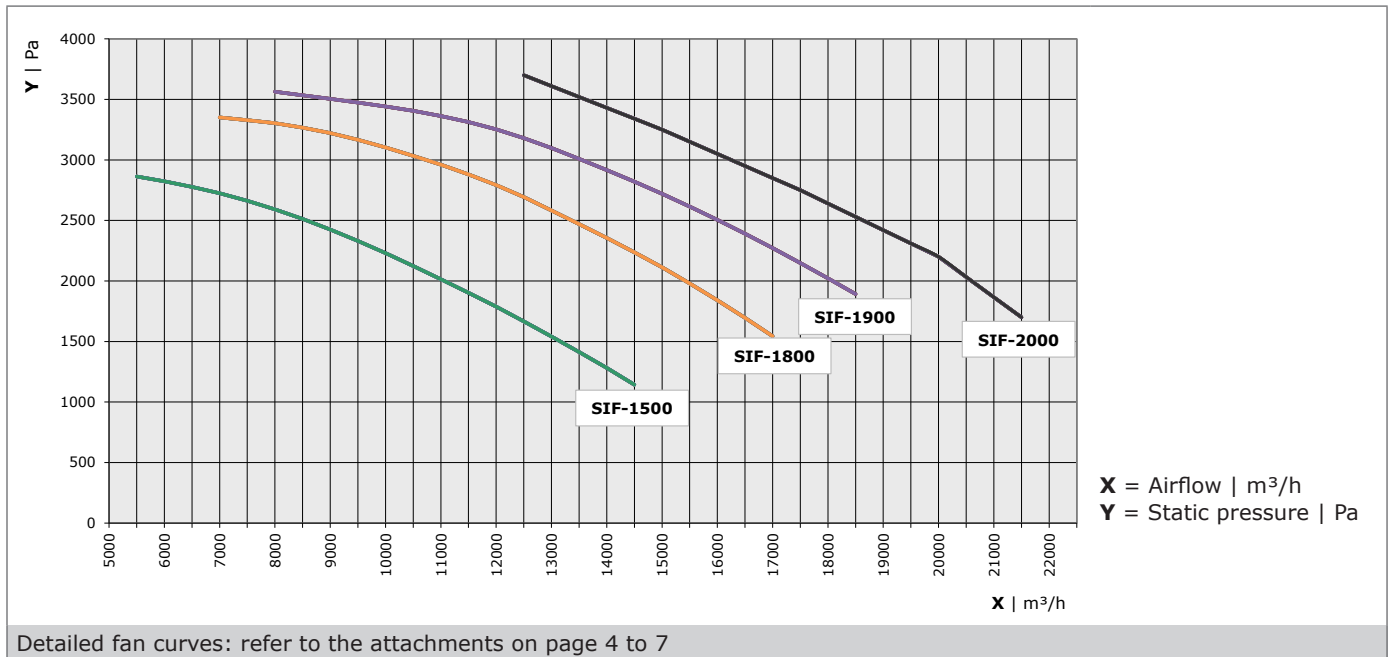
■ Options and accessories

| Mounting frame | refer to selection table on page 2 |
|--|--|
| Duct silencer Ø 630 mm (24¾ in.) | <ul style="list-style-type: none"> • SAS-630 straight • SAS-630 elbow |
| SIF Outdoor; fans suitable for outdoor installation (rain-resistant) | <p>Outdoor kit consists of:</p> <ul style="list-style-type: none"> • rain cover over sound absorbing box, including coupler for duct or silencer • ventilation grids provided with rain cover • seams of the absorbing box being fully sealed (except for the inspection cover) |
| Operating temperature: | <p>SIF Outdoor</p> <ul style="list-style-type: none"> • -20°C (-4°F) • 20°C (68°F) • 60°C (140°F) |
| <ul style="list-style-type: none"> • min. • nom. • max. | |
| ■ Scope of supply | |
| Extraction fan in sound absorbing box Key Strain relief | |
| ■ Order information | |
| Number/package | 1 |
| ■ Logistics data | |
| Max. number/pallet | 1 |
| Harmonized Tariff Code | 84145925 |

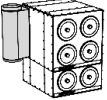


APPROVALS/CERTIFICATES

| | |
|--|---|
| | |
| | Motor fan |
| | Directive 2011/65/EC (RoHS) valid as of 8 June 2011 |

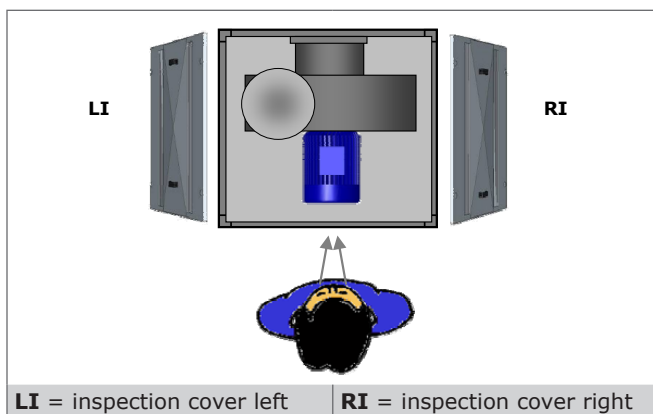
FAN CURVES (quick reference table)



SELECTION TABLE: FAN MOUNTING FRAMES

| Configuration | Fan type | Outlet diameter | Frame |
|--|----------|-----------------|-------------------|
|  MDB-2 + MDB-4 VERTICAL outlet + | SIF-1500 | Ø 500 mm | FRAME SIF type 40 |
| | SIF-1800 | | |
| | SIF-1900 | | |
|  MDB-4 (all) HORIZONTAL outlet + | SIF-1500 | Ø 500 mm | FRAME SIF type 40 |
| | SIF-1800 | | |
| | SIF-1900 | | |
|  SCS + | SIF-1500 | Ø 400 mm | FRAME SIF type 20 |
| | SIF-1800 | | |
| | SIF-1900 | | |
| | SIF-2000 | | |

INSPECTION COVER



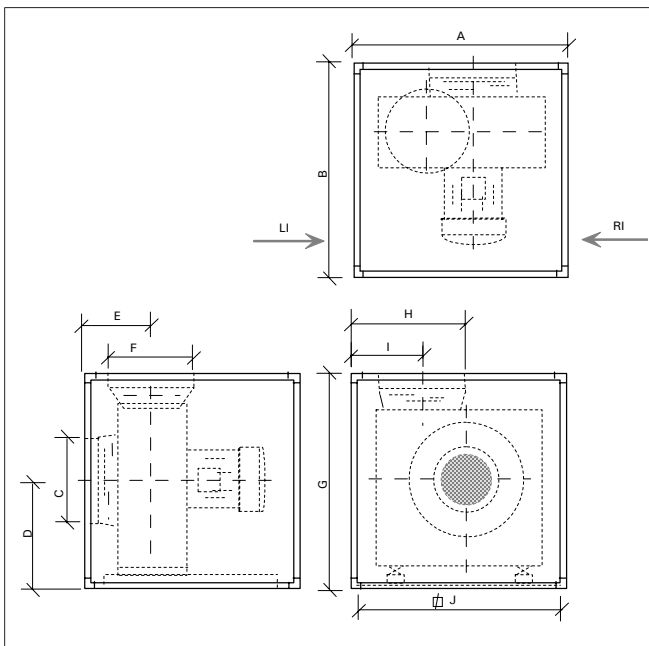
Special version: SIF fan for outdoor installation



TABLE: REMAINING SPECIFICATIONS

| | SIF-1500 | | SIF-1800 | | SIF-1900 | | SIF-2000 | |
|--|------------|-------------|------------|-------------|------------|-------------|------------|-------------|
| ■ Electrical data | | | | | | | | |
| | kW | HP | kW | HP | kW | HP | kW | HP |
| Power | 11 | 15 | 15 | 20 | 18,5 | 25 | 22 | 30 |
| Nominal current | 21,0 A | | 28,0 A | | 34,2 A | | 38,7 A | |
| ■ Dimensions (ref. image below) and weights | | | | | | | | |
| | mm | inch | mm | inch | mm | inch | mm | inch |
| A | 1300 | 51¼ | 1300 | 51¼ | 1300 | 51¼ | 1400 | 55 |
| B | 1300 | 51¼ | 1300 | 51¼ | 1300 | 51¼ | 1400 | 55 |
| C (interior) | Ø 400 | Ø 15¾ | Ø 630 | Ø 24¾ | Ø 630 | Ø 24¾ | Ø 630 | Ø 24¾ |
| D | 650 | 25½ | 650 | 25½ | 650 | 25½ | 700 | 27½ |
| E | 400 | 15¾ | 400 | 15¾ | 400 | 15¾ | 425 | 16¾ |
| F (interior) | Ø 630 | Ø 24¾ | Ø 630 | Ø 24¾ | Ø 630 | Ø 24¾ | Ø 630 | Ø 24¾ |
| G | 1300 | 51¼ | 1300 | 51¼ | 1300 | 51¼ | 1400 | 55 |
| H | 669 | 26¼ | 669 | 26¼ | 669 | 26¼ | 715 | 28 |
| I | 400 | 15¾ | 400 | 15¾ | 400 | 15¾ | 425 | 16¾ |
| J | 1210 | 47½ | 1210 | 47½ | 1210 | 47½ | 1310 | 51½ |
| Weight (net) | kg | lbs | kg | lbs | kg | lbs | kg | lbs |
| | 325 | 717 | 335 | 739 | 350 | 772 | 400 | 882 |
| ■ Order information | | | | | | | | |
| Article number: | | | | | | | | |
| • SIF/LI | 7906060320 | | 7906061220 | | 7906061320 | | 7906060920 | |
| • SIF/RI | 7906060310 | | 7906061210 | | 7906061310 | | 7906060910 | |
| • SIF/LI Outdoor | 0000102176 | | 0000102178 | | 0000102180 | | 0000102182 | |
| • SIF/RI Outdoor | 0000102175 | | 0000102177 | | 0000102179 | | 0000102181 | |
| ■ Logistics data | | | | | | | | |
| Gross weight (incl. pallet) | kg | lbs | kg | lbs | kg | lbs | kg | lbs |
| | 340 | 750 | 350 | 772 | 365 | 805 | 420 | 926 |

DIMENSIONS (ref. table above)



Application restrictions

Do **not** use the product in combination with a filter for the following applications or in the following circumstances: polishing applications in combination with grinding, welding or any other application that generate sparks (fibres from polishing or abrasive flap disks are highly flammable and pose a high risk of filter fires when exposed to sparks) | aluminium laser cutting | oil mist | heavy oil mist in welding fume | arc-air gouging | extraction of aggressive fumes and gases (e.g. from acids, from alkaline, from soldering paste containing lithium) | extraction of hot gases (more than 70°C/158°F continuously) | grinding aluminum and magnesium | flame spraying | extraction of cement, saw dust, wood dust etc. | sucking cigarettes, cigars, oiled tissues and other burning particles, objects and acids | explosive environments or explosive substances/gases

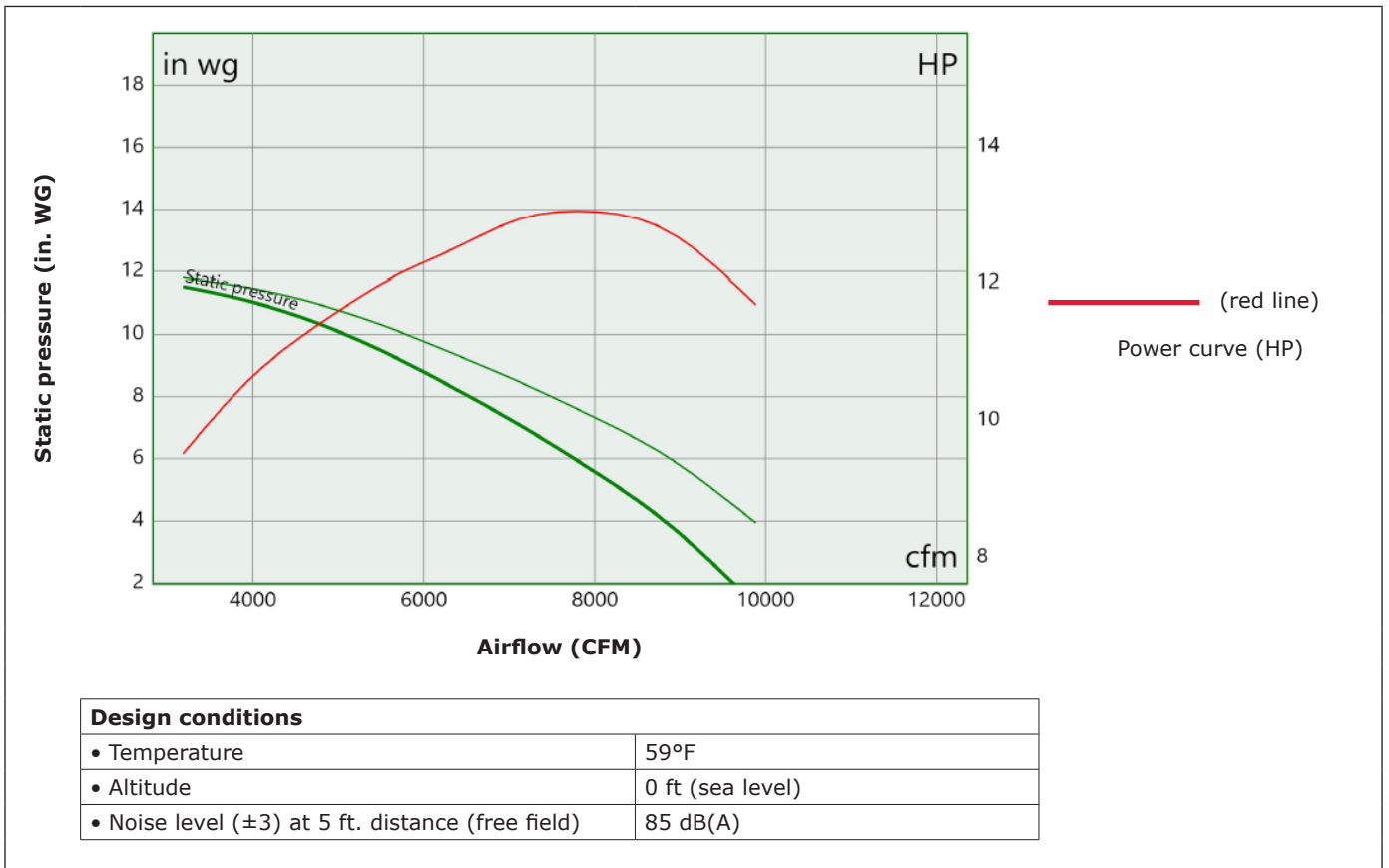
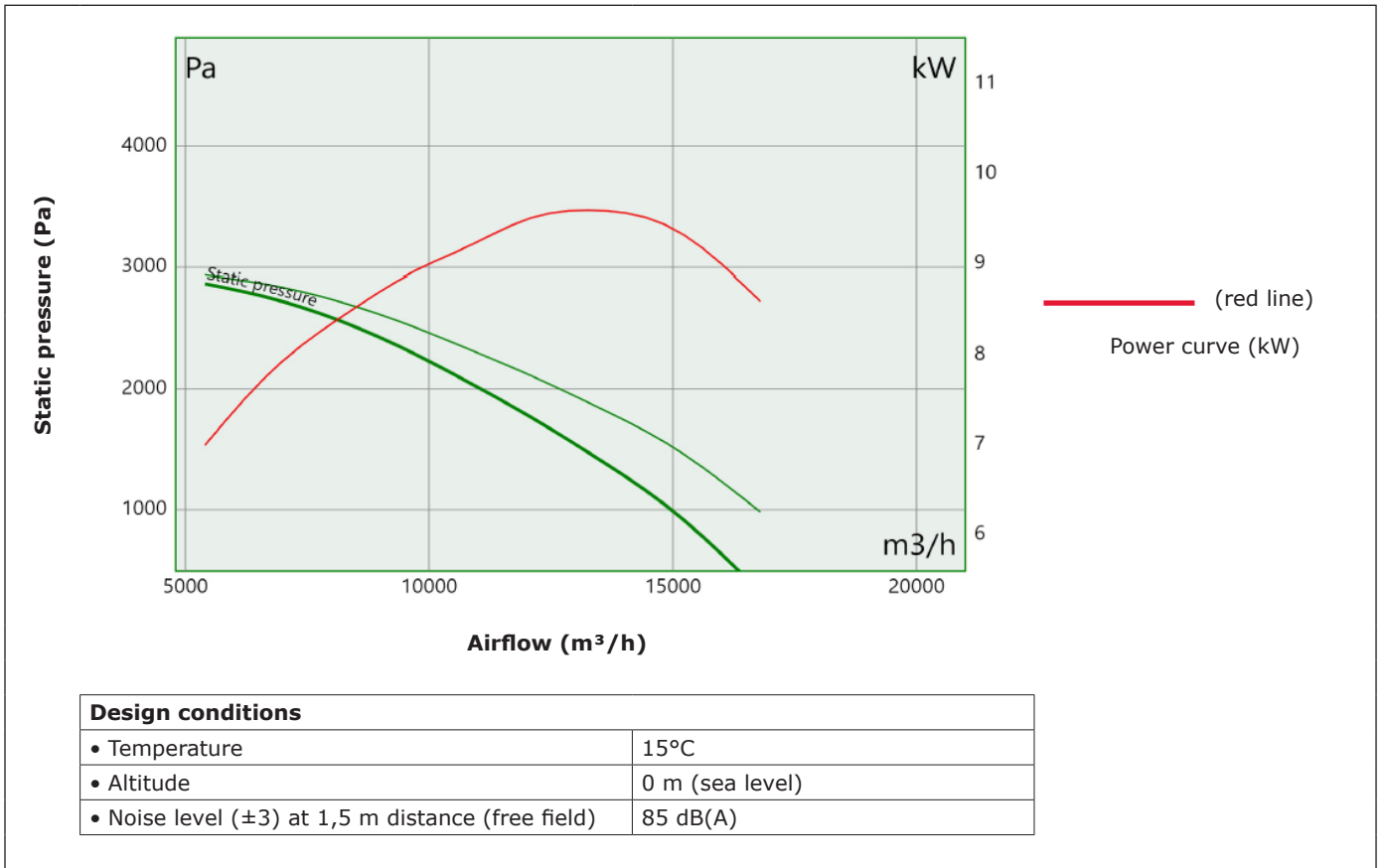


| | |
|------------------|--------------------------------------|
| Product type | SIF-1500 / 1800 / 1900 / 2000 |
| Article no. | refer to order information |
| Product category | central fans |
| Version | 20MAY2024/M |

Always check the latest version on www.plymovent.com

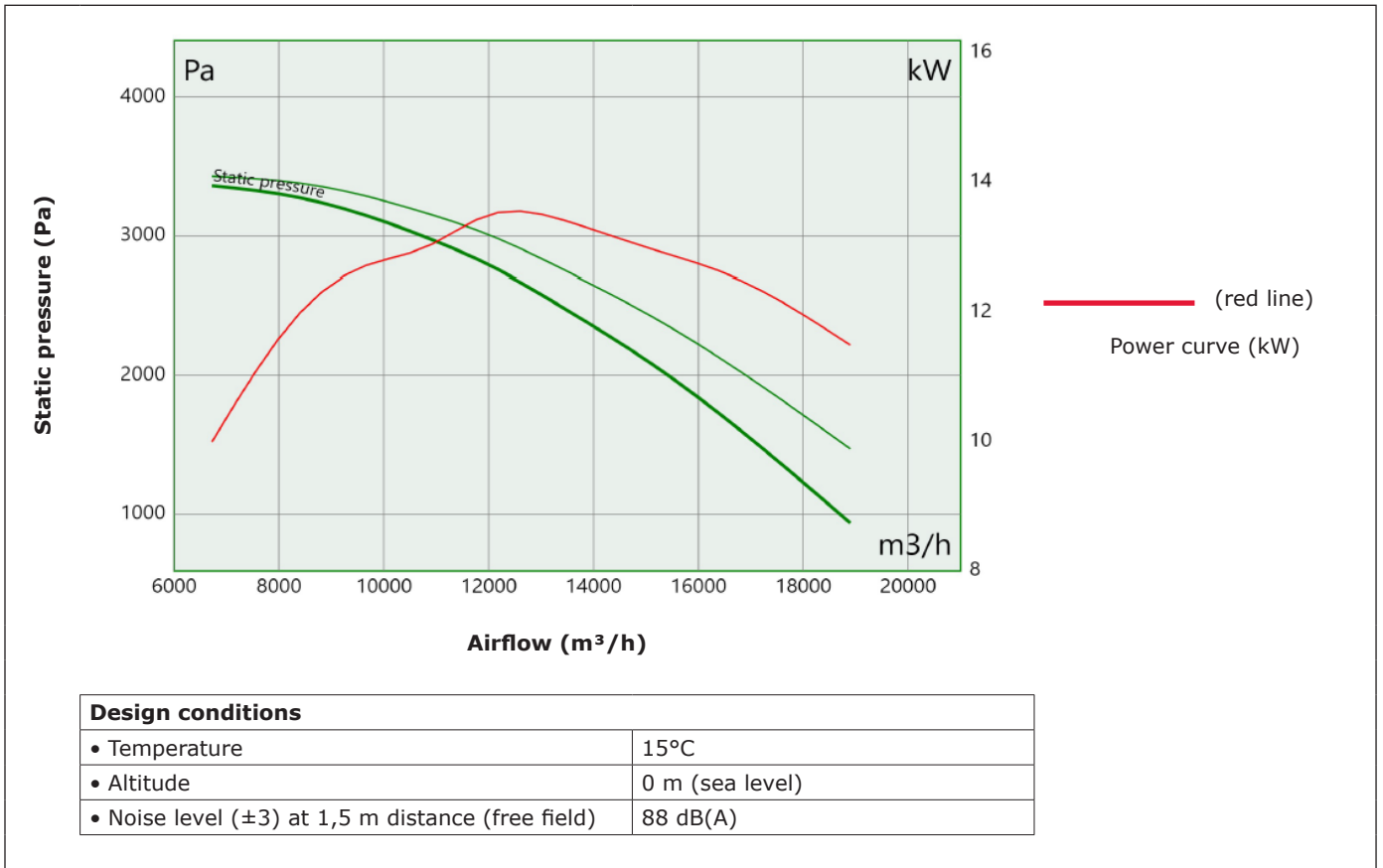
SIF-1500 | 11 kW (15 HP)

STATIC PRESSURE / VOLUME CURVE



SIF-1800 | 15 kW (20 HP)

STATIC PRESSURE / VOLUME CURVE



SIF-1900 | 18,5 kW (25 HP)

STATIC PRESSURE / VOLUME CURVE

