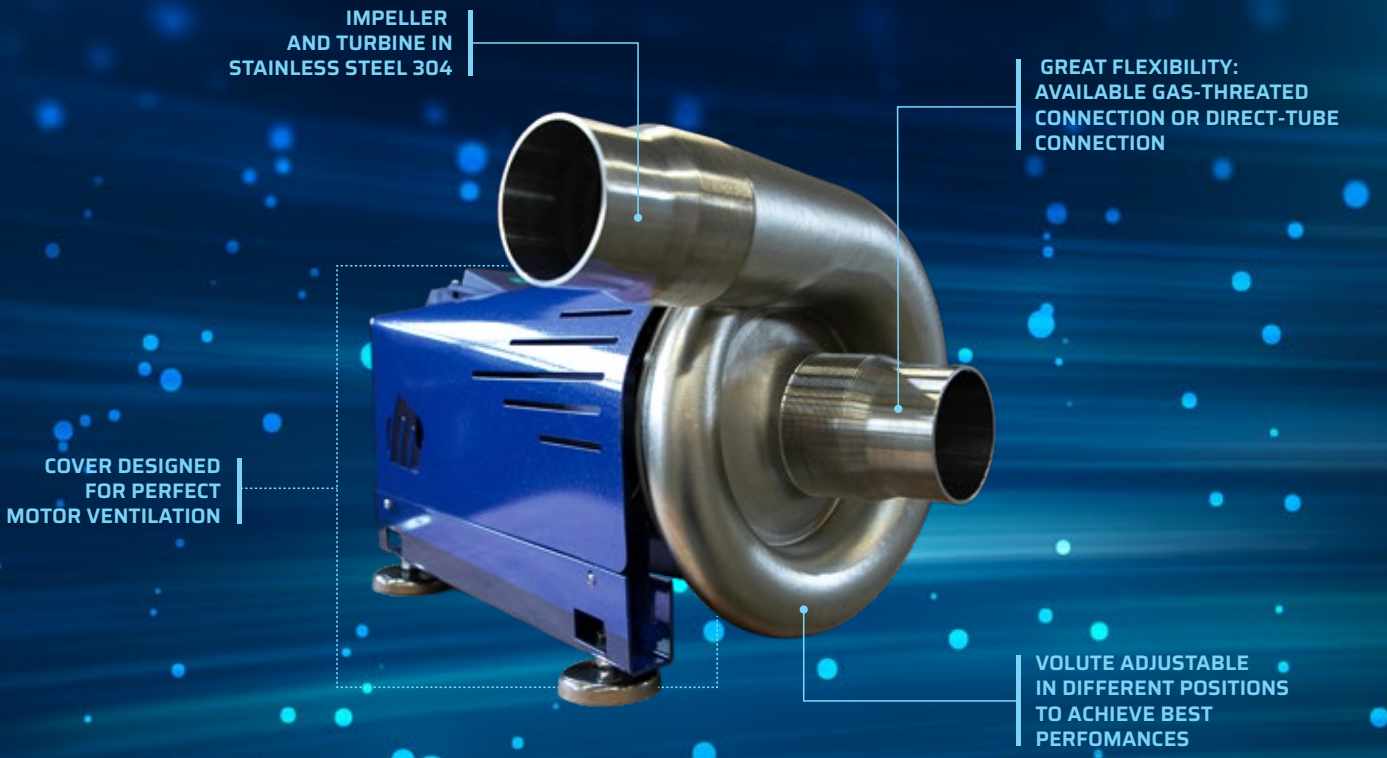
MASTER
BLOWER
VACUUM DRY POWER
EN
SM SERIES

MASTER BLOWER
VACUUM DRY POWER

MAIN ADVANTAGES

- **Fluid dynamic efficiency superior to 80%.**
- **Reduction of electricity consumption and installed powers.**
- **Inox steel components for food sector applications.**
- **Direct mechanical coupling: no maintenance needed for belts, tensioners and pulleys.**
- **Very high function flexibility in any condition thanks to motor frequency modularity.**
- **Motors specifically designed to be used with inverter.**



MAIN FEATURES

The impeller is designed with the best methodologies available in aeronautical turbo fan machines:

- ✓ **Three-dimensional flow blades.**
- ✓ **Use of splitters (intermediate blades).**
- ✓ **Optimized inlet and outlet angles, to reach high pressures and performances.**
- ✓ **Accurate mechanical processes to guarantee an aerodynamic flow through the blades and the box.**

A **volute** designed to maximize the performances:

- ✓ **Radial diffuser with no vanes.**
- ✓ **Optimized fluid dynamic sections to contain the footprint.**

Motor

- ✓ **Ultra-compact, lightweight and mechanically strong design.**
- ✓ **No tail-motor mechanisms (no belt and pulley, no maintenance needed).**
- ✓ **Designed for continuous and constant speed regulations.**
- ✓ **Long-lasting pre-loaded bearings and reliability in every operating conditions.**

MASTER BLOWER
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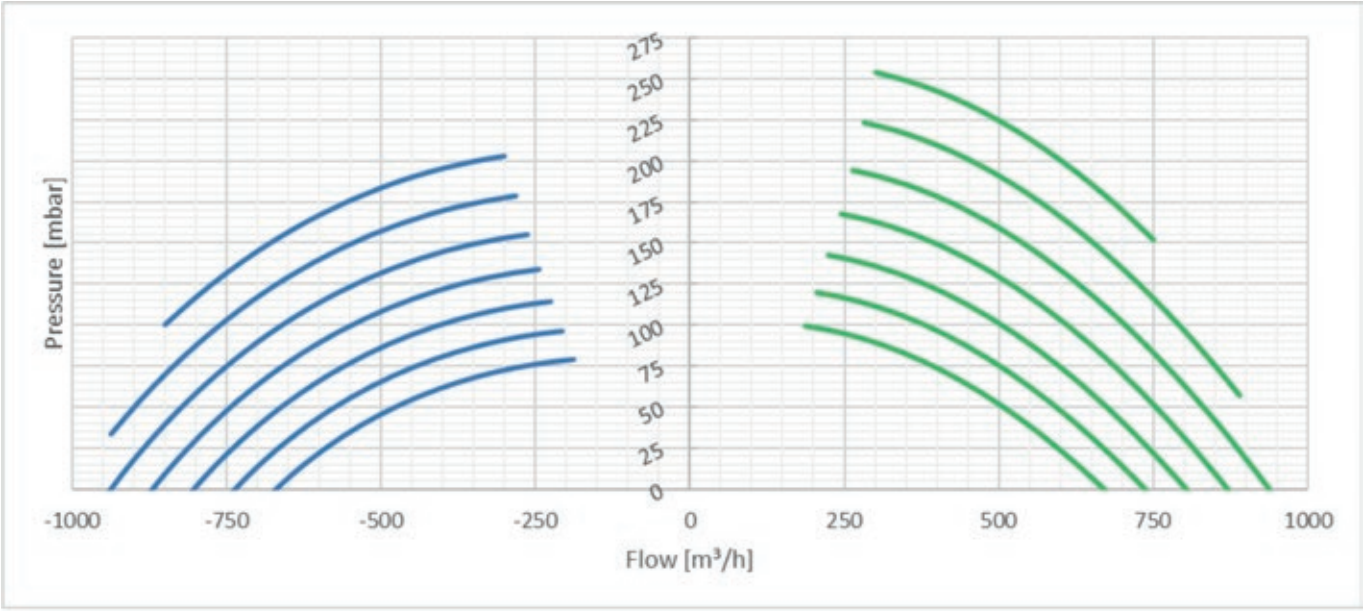
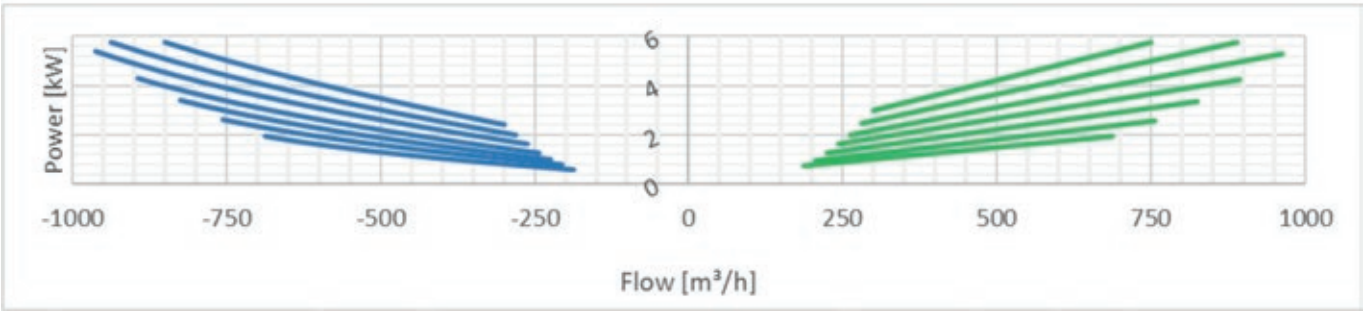
DIRECT COUPLING - MODEL **SM** | 500-03

Within **Masterblower** variety this model is the ideal solution for any installation that requires more than one blower to obtain different performances along the structure and in reduced spaces.

It is characterized by high flow rates, very small footprint, high pressure increase, best in class for efficiency and operational versatility (caused by wide frequency ranges): these qualities allow to reach best performances and maximum flexibility in every system.





Tolerance on the indicated values +/- 10%

Rated Power [kW]	Frequency range [Hz]	Max pressure increase [mbar]		Flow range [m³/h]	Noise * (dB(A))	Weight [kg]
		Suction	Compression			
3.0	250-400	205	260	140-530	78	44

*Noisiness measured in accordance to ISO 3744 standard, with ducted aspiration and delivery

MASTER BLOWER
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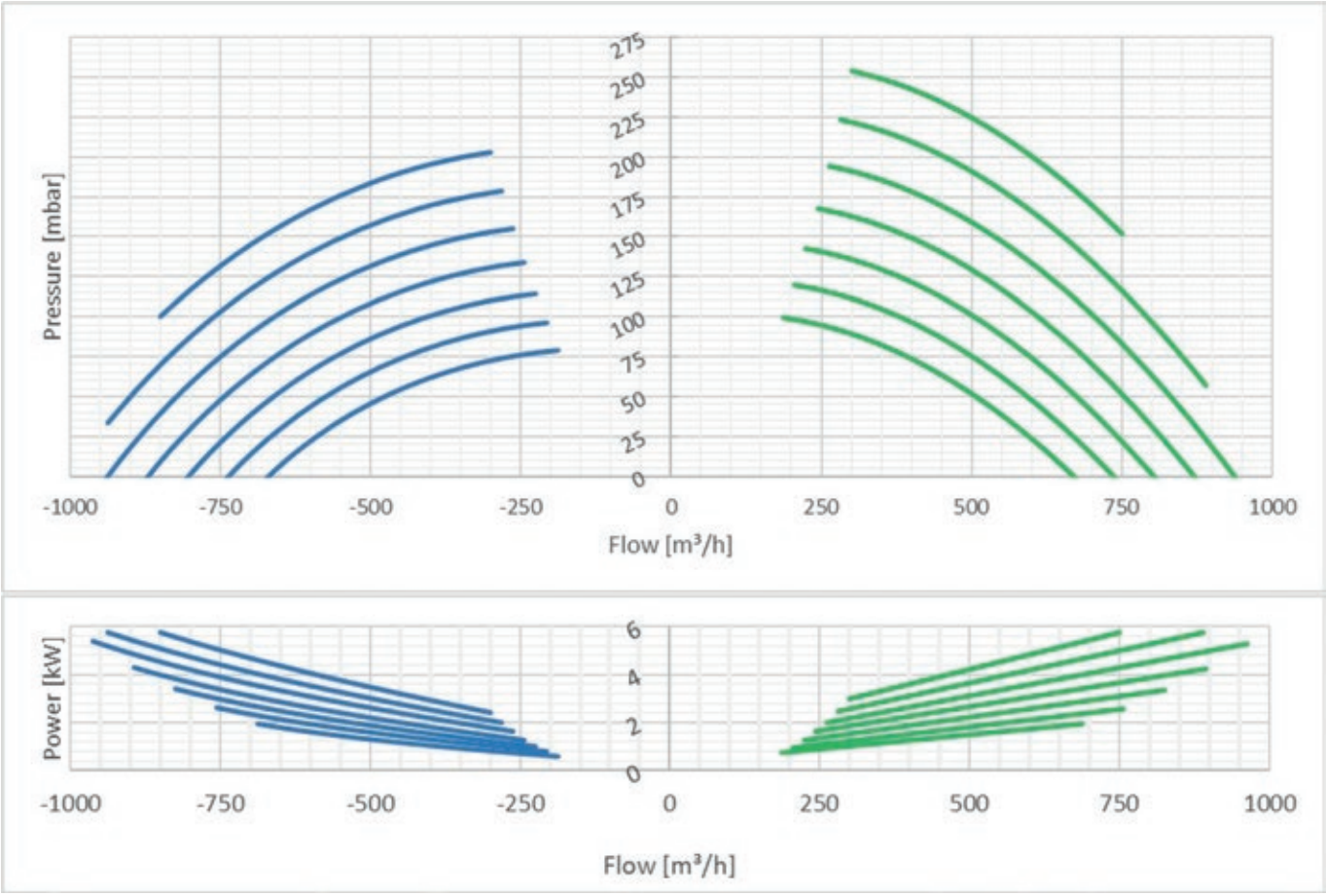
DIRECT COUPLING - MODEL **SM** | 950-5

Within **Masterblower** variety this model is the ideal solution for small drying systems, where pressures involved are between 100 and 200 mbar.

It is characterized by high flow rates and minimum footprint, very high efficiency and functioning versatility (due to wide frequency ranges): these qualities allow to reach best performances and maximum flexibility in every system.



Tolerance on the indicated values +/- 10%

Rated Power [kW]	Frequency range [Hz]	Max pressure increase [mbar]		Flow range [m³/h]	Noise * (dB(A))	Weight [kg]
		Suction	Compression			
5.5	250-400	200	250	185-950	79	49

*Noisiness measured in accordance to ISO 3744 standard, with ducted aspiration and delivery

MASTER BLOWER
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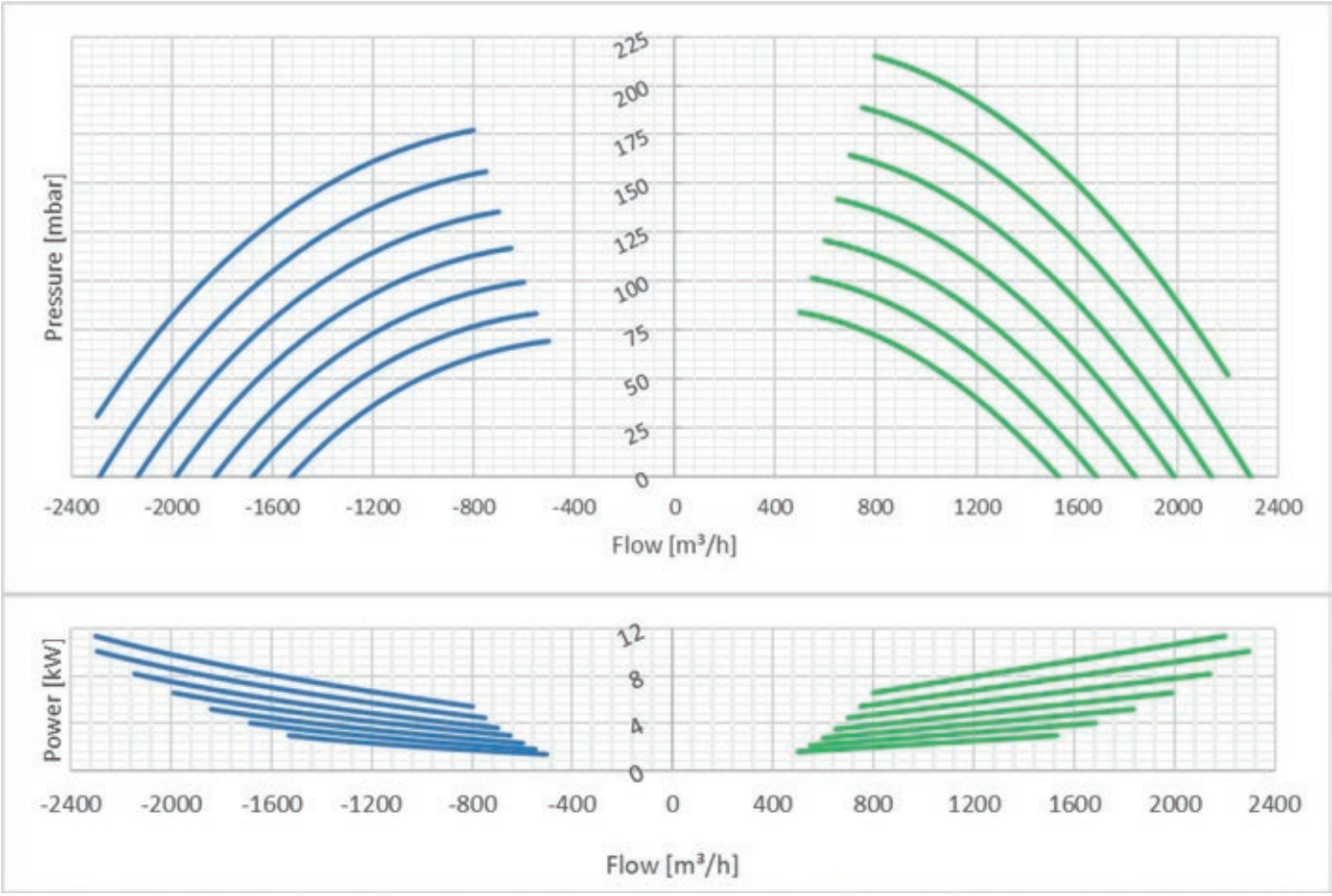
DIRECT COUPLING - MODEL **SM** | 2300-11

Within **Masterblower** variety this model is the ideal solution for middle-size and big-size drying systems, where pressures involved are between 100 and 200 mbar.

It is characterized by very high flow rates, small footprint, very high efficiency and functioning versatility (due to wide frequency ranges): these qualities allow to reach best performances and maximum flexibility in every system.



Tolerance on the indicated values +/- 10%

Rated Power [kW]	Frequency range [Hz]	Max pressure increase [mbar]		Flow range [m³/h]	Noise * (dB(A))	Weight [kg]
		Suction	Compression			
11	200-320	175	215	500-2300	80	54

*Noisiness measured in accordance to ISO 3744 standard, with ducted aspiration and delivery

MASTER BLOWER
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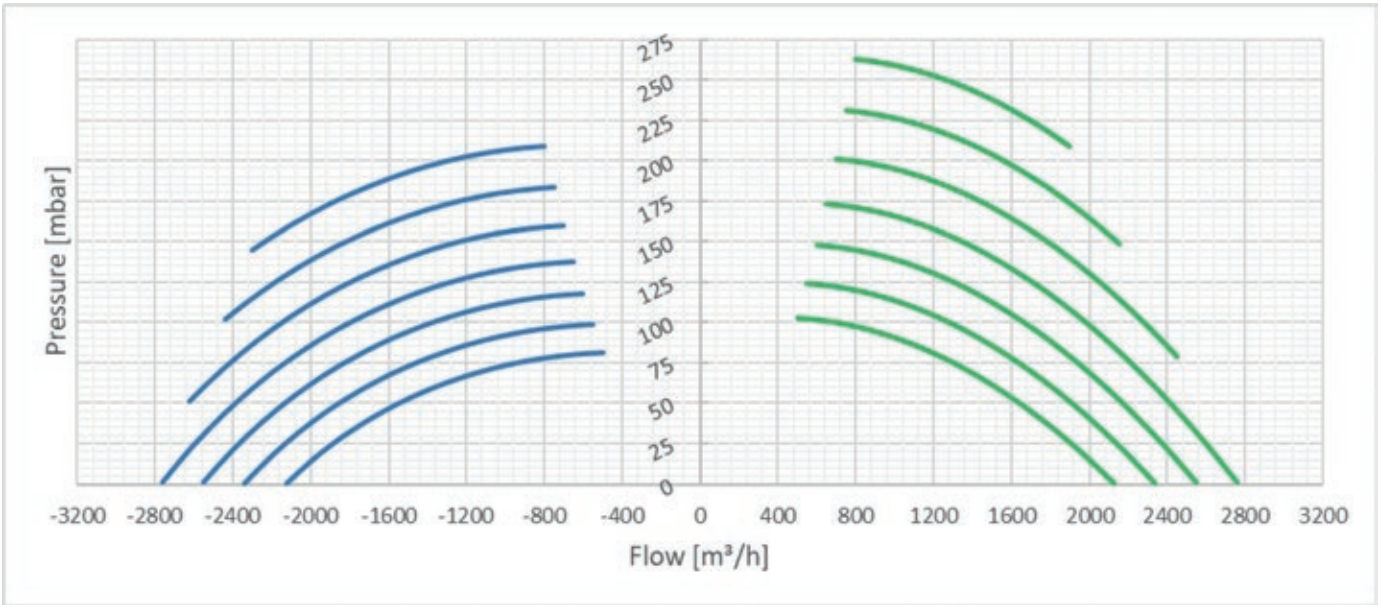
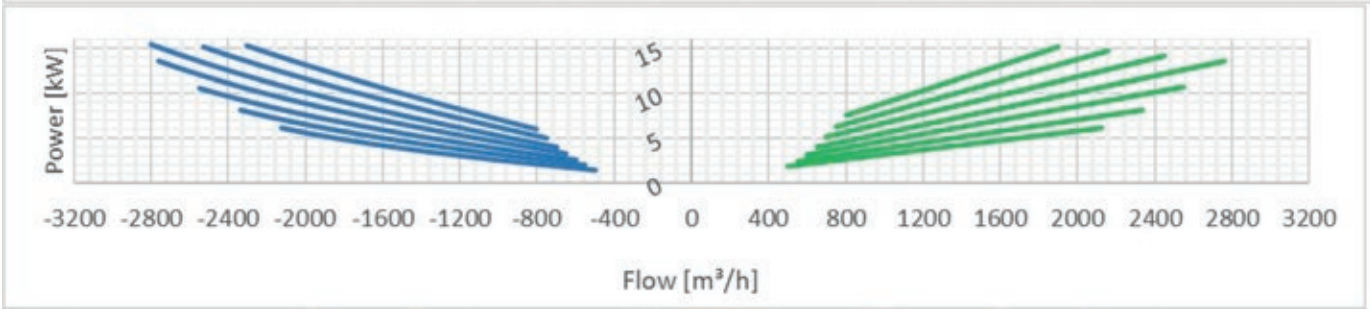
DIRECT COUPLING - MODEL **SM** | 2800-15

Within **Masterblower** variety this model is the ideal solution for any system that requires high pressures (up to 260 mbar) and very high flow rates.

It is characterized by small footprint, high efficiency and functioning versatility (due to wide frequency ranges): these qualities allow to reach best performances in every system.

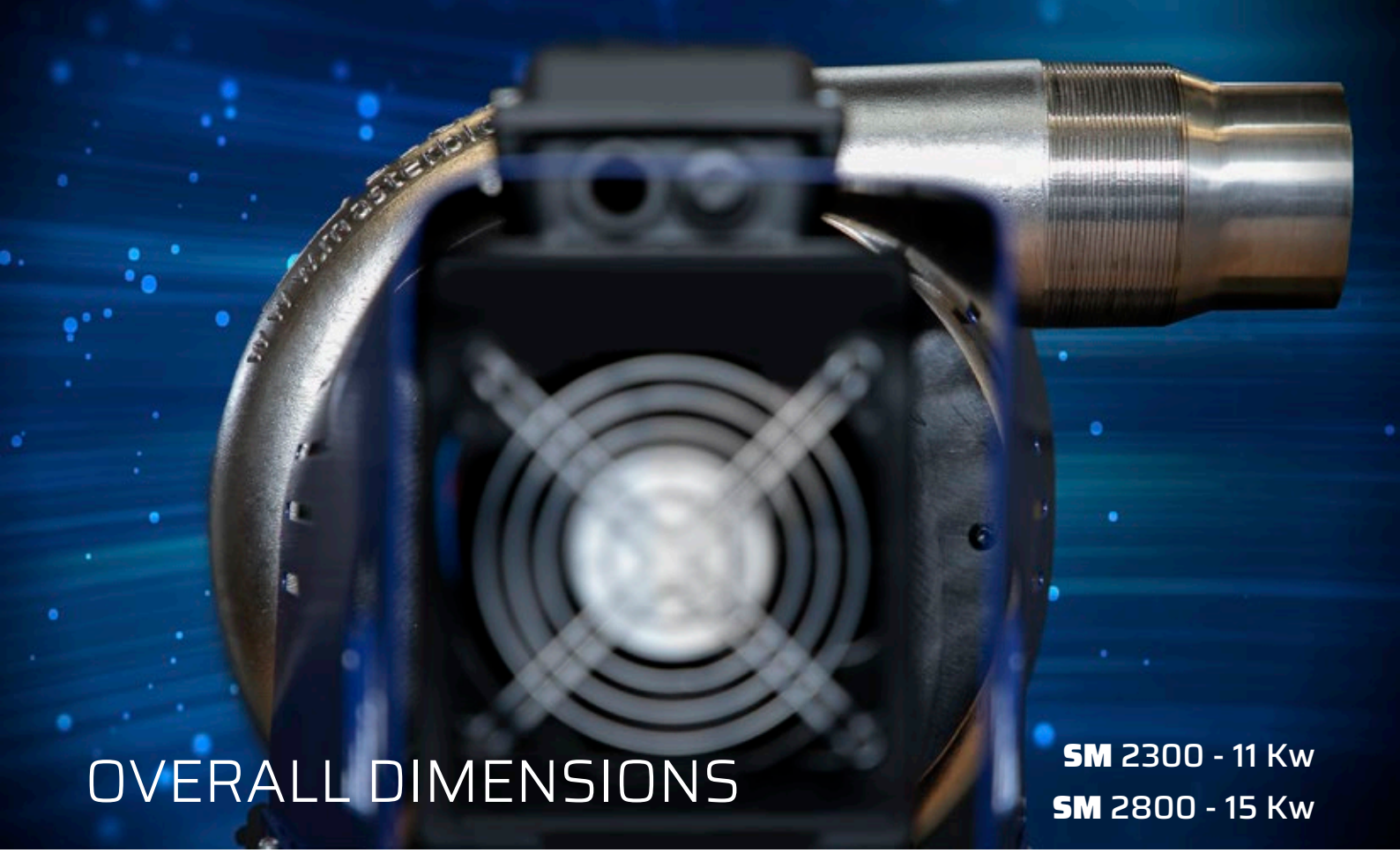




Tolerance on the indicated values +/- 10%

Rated Power [kW]	Frequency range [Hz]	Max pressure increase [mbar]		Flow range [m³/h]	Noise * (dB(A))	Weight [kg]
		Suction	Compression			
15	200-320	210	260	450-2800	89	56

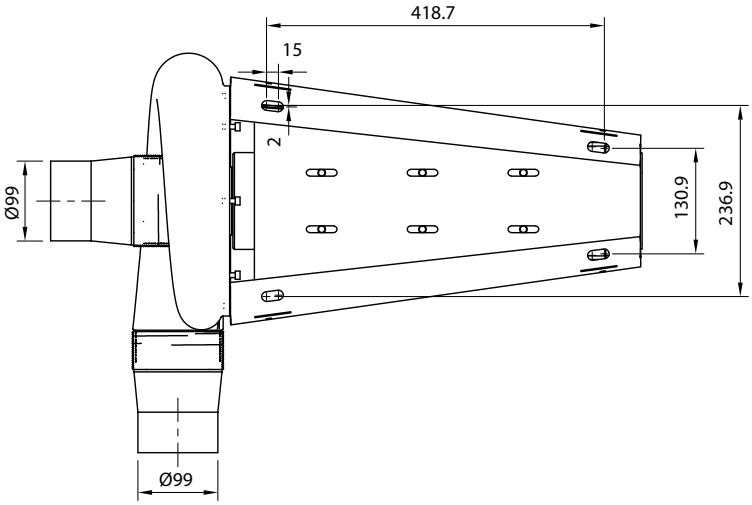
*Noisiness measured in accordance to ISO 3744 standard, with ducted aspiration and delivery

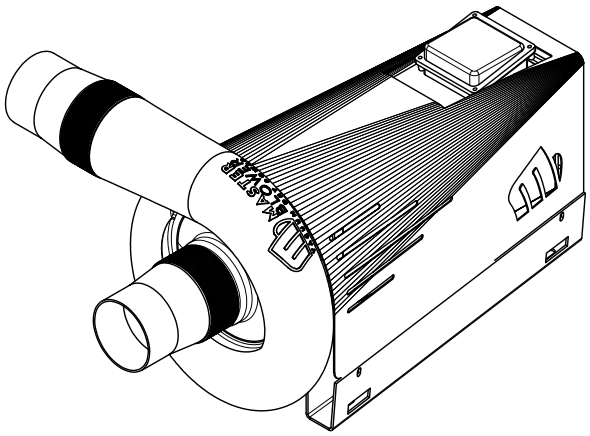


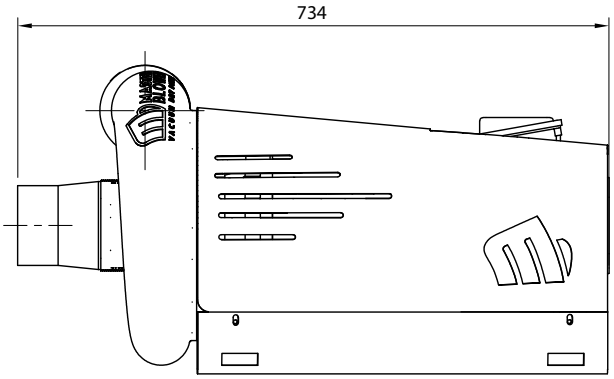
OVERALL DIMENSIONS

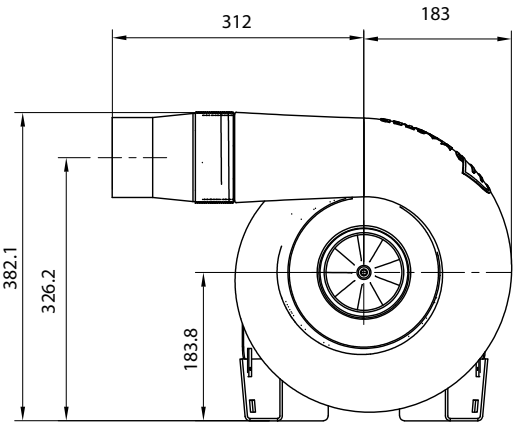
SM 2300 - 11 Kw

SM 2800 - 15 Kw









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