

UFX



Soundproofed filtration units equipped with double inlet fans and different stages of filtration, depending on model.



Features:

- Soundproofed structure.
- Belt-driven.
- F6 + F8, F7 + F9 and G4 + F6 filters, depending on model selected.
- Possibility of pre-filter plus two stages of filtration.
- Easy access inspection and cleaning covers.
- Pressure inlets for filter control.

Motor:

- Class F motors, with ball bearings, IP55 protection.
- Three-phase 230/400V-50Hz (up to 4kW) and 400/690V -50Hz (power over 4kW).
- Temperature of the air to transport: -20°C +60°C.
- IE3 efficiency motors for powers equal to or greater than 0.75kW except single-phase, 2-speed and 8-pole.

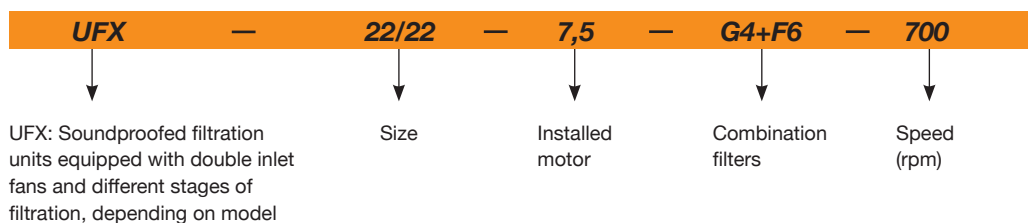
Construction:

- Galvanised sheet steel structure with soundproofing.
- Impeller with forward-facing blades made from galvanised sheet steel.
- Stuffing-box for cable inlet.
- Built-in base.

Finish:

- Anticorrosive in galvanized sheet steel.

Order code



Technical characteristics

Model	Max. Installed power (kW)	Maximum airflow (m³/h)			Number of pre-filters		Number of filters		Weight (Kg)	According ErP
		Filters (F6+F8)	Filters (F7+F9)	Filters (G4+F6)	Whole*	Medium*	Whole*	Medium*		
UFX-12/12	2,20	5.250	5.100	4.650	1	0	1	0	112	2018
UFX-15/15	3,00	9.050	8.870	8.225	1	2	1	2	148	2018
UFX-18/18	4,00	10.735	10.370	9.320	1	2	1	2	195,5	2018
UFX-20/20	7,50	16.805	16.510	15.575	4	0	4	0	351,5	2018
UFX-22/22	11,00	21.100	20.610	19.110	4	0	4	0	401	2018
UFX-25/25	11,00	26.760	26.190	24.355	4	4	4	4	457	2018
UFX-30/28	15,00	41.060	40.310	37.840	9	0	9	0	575	2018

*Pre-filter dimensions: Whole: 585x585x48. Medium: 290x585x48

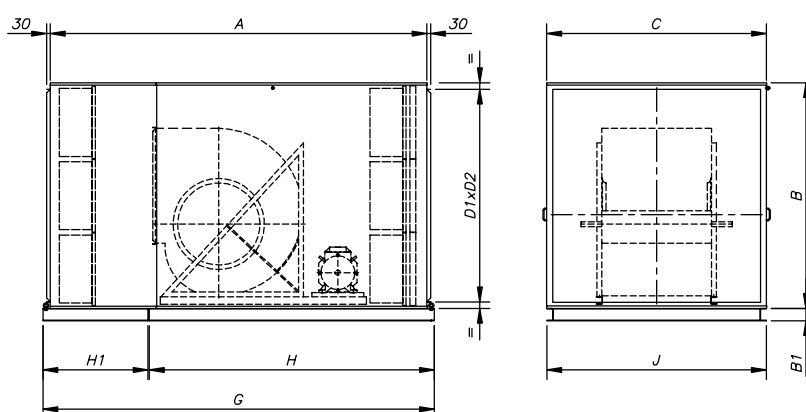
*Filter dimensions: Whole: 593x593x292. Medium: 288x593x292



Erp. (Energy Related Products)

Information on Directive 2009/125/EC can be downloaded from the SODECA website or the QuickFan selector programme.

Dimensions in mm



Model	A	B	C	D1	D2	B1	H	H1	G	J
UFX-12/12	1782	650	700	556	606	60	-	-	1902	698
UFX-15/15	2157.5	932.5	888	826	794	80	1610	657.5	2277.5	886
UFX-18/18	2272.5	932.5	888	826	794	80	1725	657.5	2392.5	886
UFX-20/20	2515	1236.5	1192	1123	1095	80	1855	770	2635	1194
UFX-22/22	2630	1236.5	1192	1123	1095	80	1970	770	2750	1194
UFX-25/25	2827	1524.5	1480	1422	1386	100	2083	854	2947	1478
UFX-30/28	3060	1832.5	1786	1727	1690	100	2316	854	3180	1784

Accessories

See accessories section



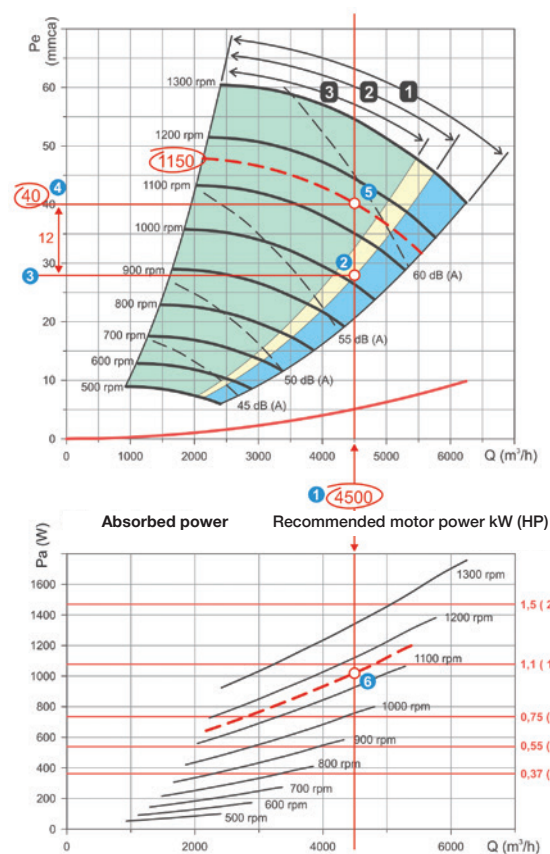
EXAMPLE OF SELECTION OF FILTRATION UNIT UFX

Useful areas according to filters **1** F6+F8 **2** F7+F9 **3** G4+F6

Static pressure _____ Dynamic pressure _____ Sound level dB(A) _____

Initial data:

- Working flow with clean filters. It is advised to increase the required flow by 10%. In total, 4500 m³/h.
- Loss of load from the installation 12 mm.w.c.
- Desired filter combination. F7+F9.



Procedure:

- On the flow-pressure graph, trace a vertical line from the point of 4500 m³/h on the flow (1) axis, through the entire graph, to the point of least pressure of the working area of F7 + F9 (2).
- Trace a horizontal line to the pressure scale (3). The value on the P_e scale is the resistance of the 100% clean filters. In this case, 28 mm.w.c.
- Trace a line parallel to the horizontal line, by adding on the installation's head loss of 12 mm.w.c. (4).
- Point (5) is the service point of the equipment, under operating conditions: 4500 m³/h at 40 mm.w.c. It must be checked that the service point is within the useful area of F7+F9. If this is not the case, another piece of equipment must be found.
- The speed of transmission is determined by the position of the service point, between two curves at a known speed. In this case, the result is 1150 rpm.
- As the filters get dirty, the pressure will increase and the flow will diminish following the curve of 1150 rpm. The dirty filter must be replaced by a clean one when the flow is reduced to below the acceptable level, or the pressure rises above the maximum indicated on the RITE.
- In the graph of absorbed power, it is possible to find the appropriate motor, tracing a curve of 1150 rpm, between the curves drawn. In the intersection with the flow line, the service point is obtained (6).
- The power immediately above the operating point is 1.5 HP

Characteristic Curves

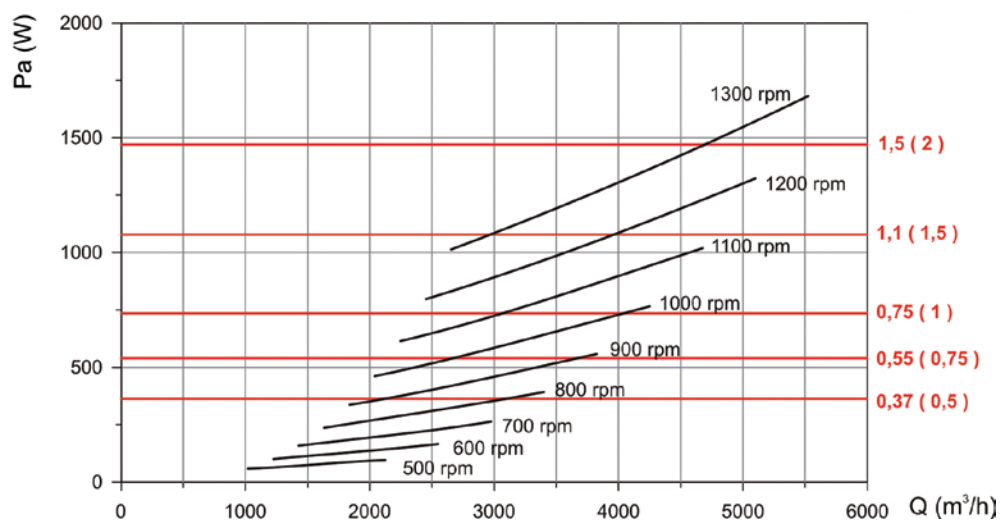
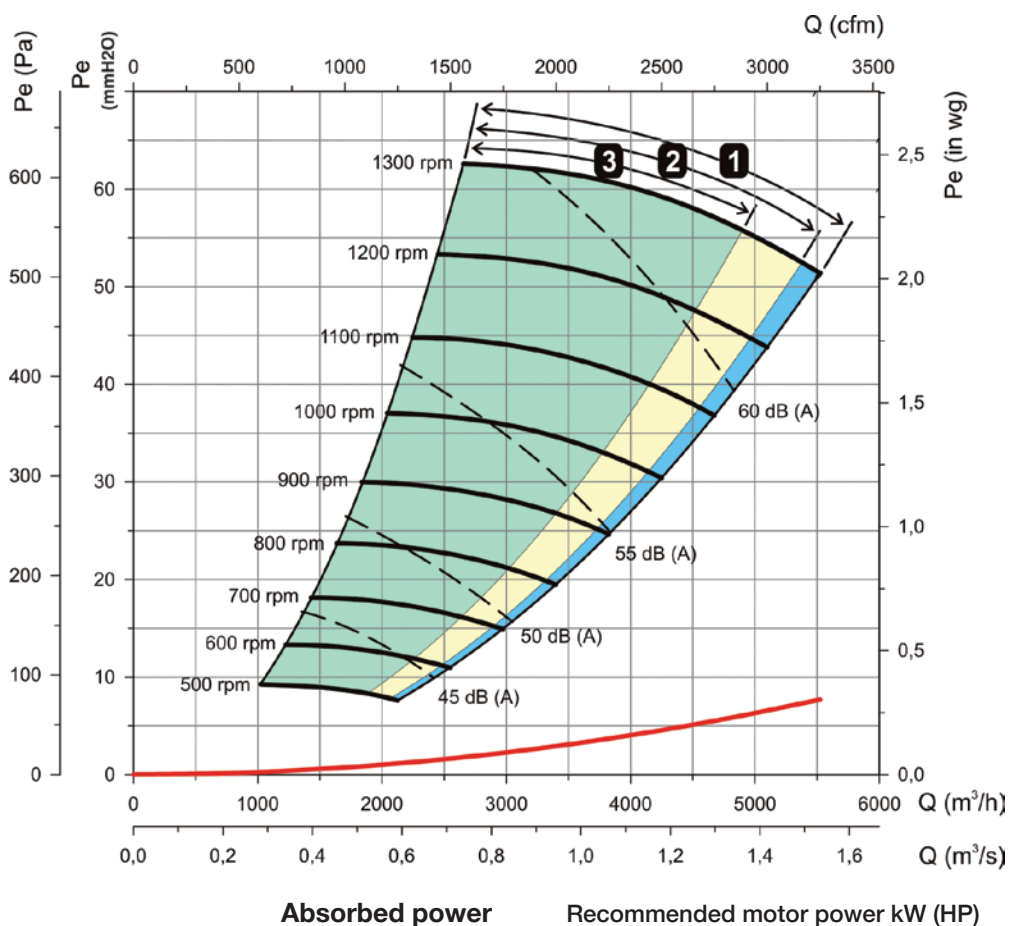
Useful areas depending on filters **1** F6+F8 **2** F7+F9 **3** G4+F6

Static pressure

Dynamic pressure

Sound level dB(A)

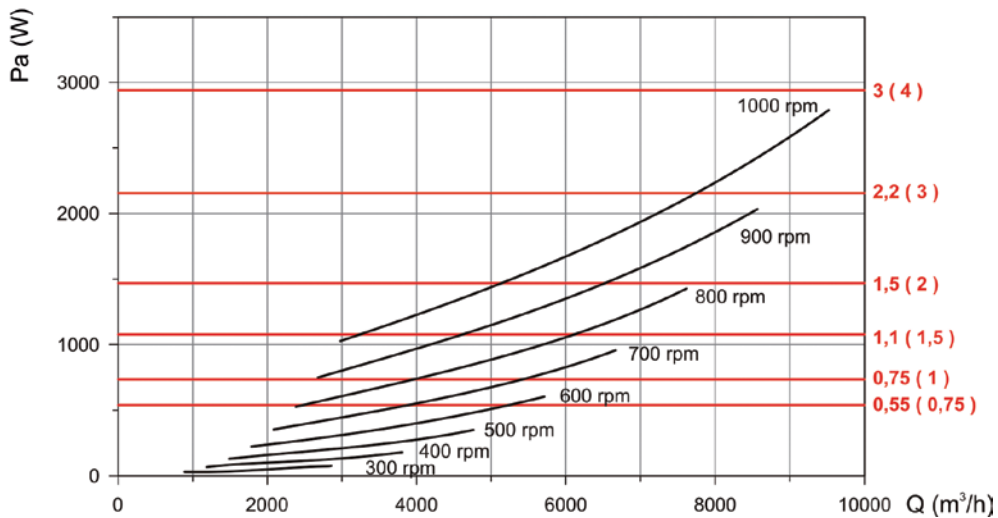
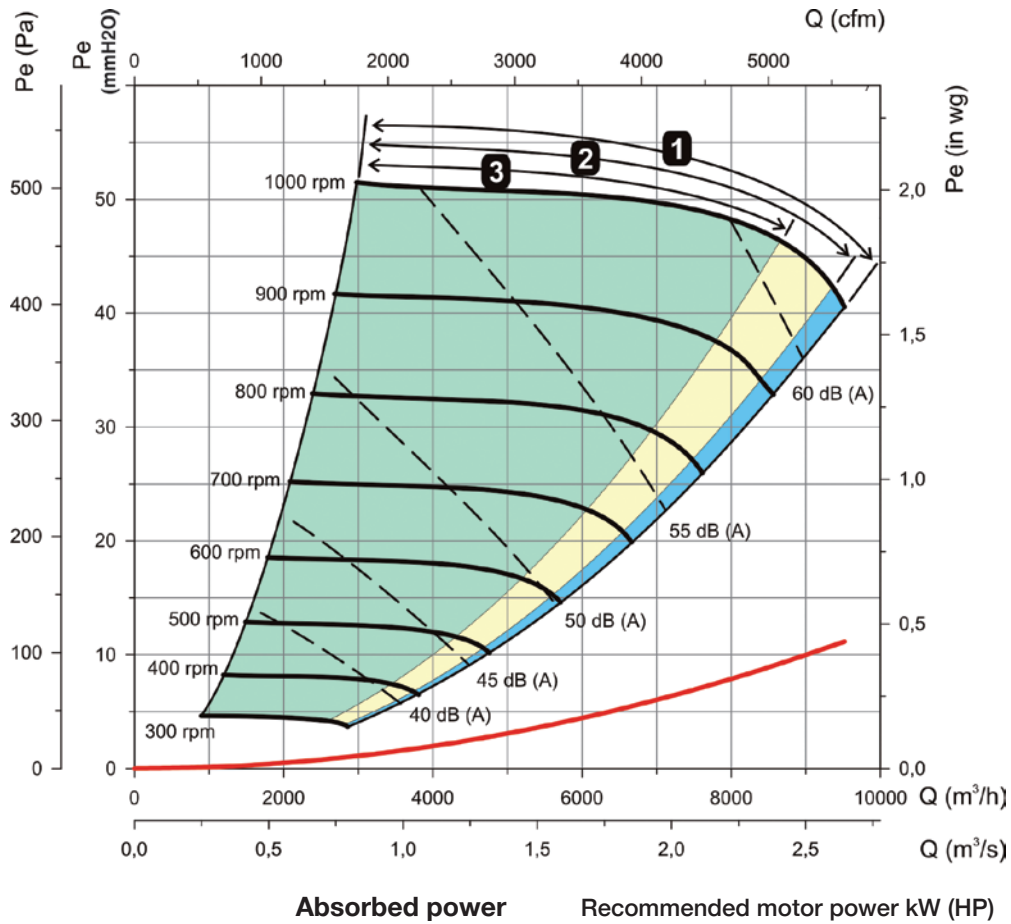
UFX-12/12



Characteristic Curves

Useful areas depending on filters **1** F6+F8 **2** F7+F9 **3** G4+F6
Static pressure Dynamic pressure Sound level dB(A)

UFX-15/15



Characteristic Curves

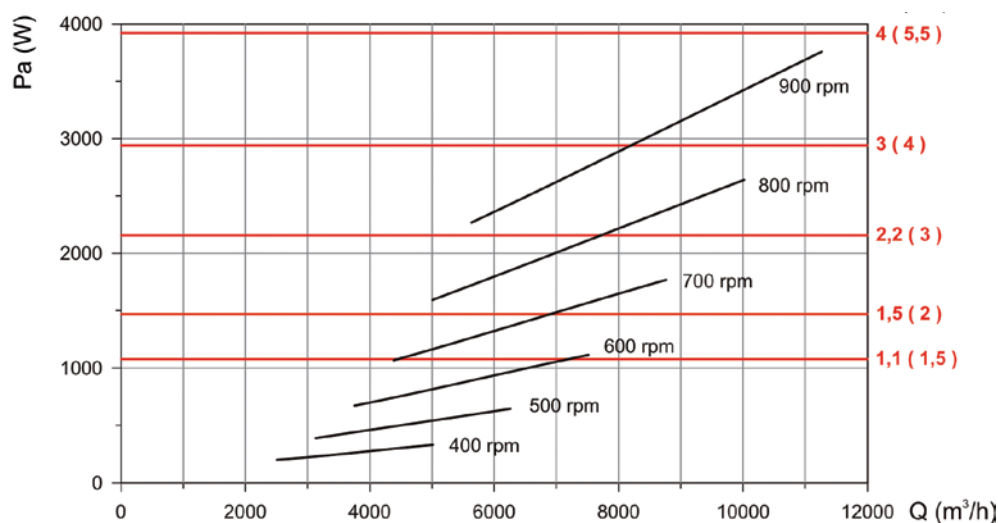
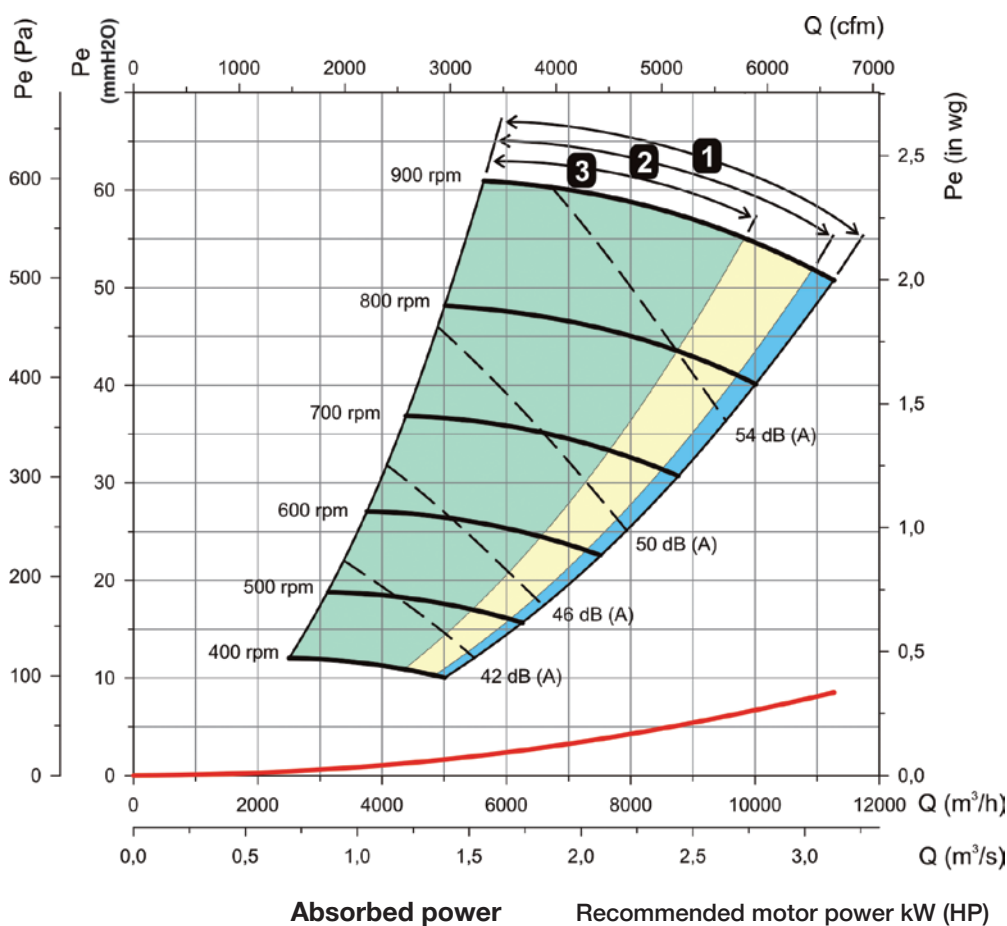
Useful areas depending on filters **1** F6+F8 **2** F7+F9 **3** G4+F6

Static pressure

Dynamic pressure

Sound level dB(A)

UFX-18/18

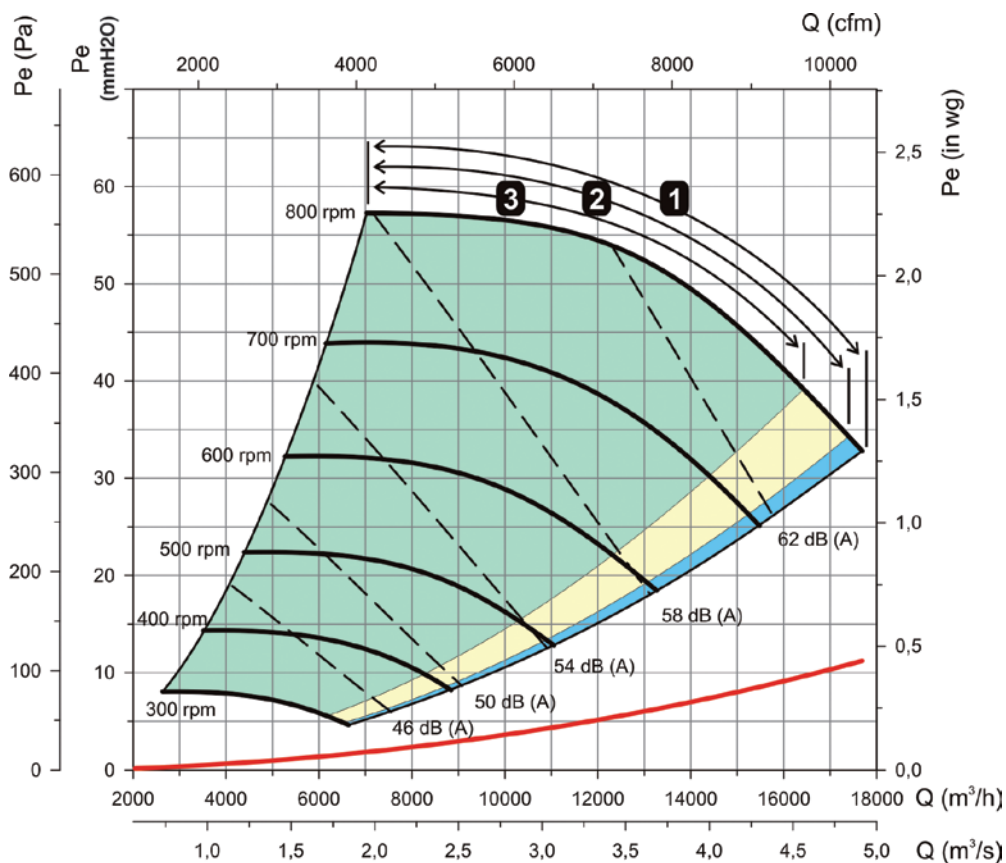


Characteristic Curves

Useful areas depending on filters **1** F6+F8 **2** F7+F9 **3** G4+F6

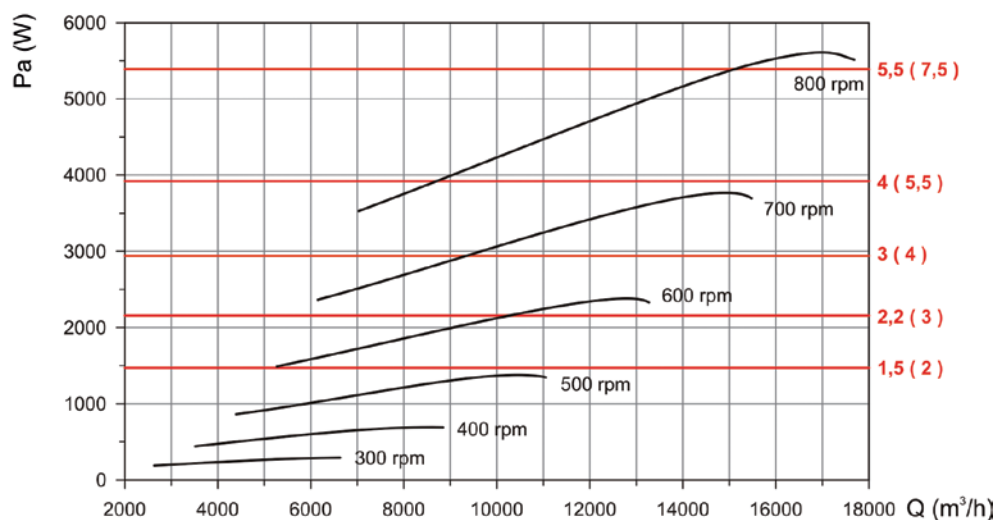
Static pressure Dynamic pressure Sound level dB(A)

UFX-20/20



Absorbed power

Recommended motor power kW (HP)



Characteristic Curves

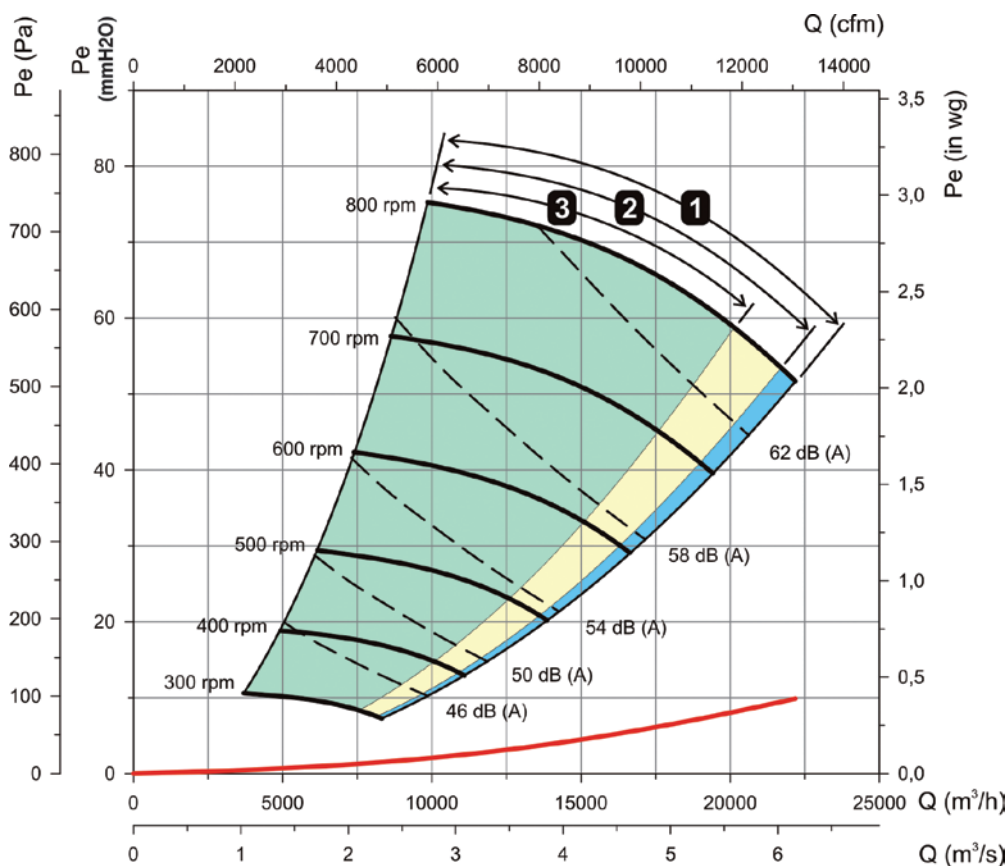
Useful areas depending on filters **1** F6+F8 **2** F7+F9 **3** G4+F6

Static pressure

Dynamic pressure

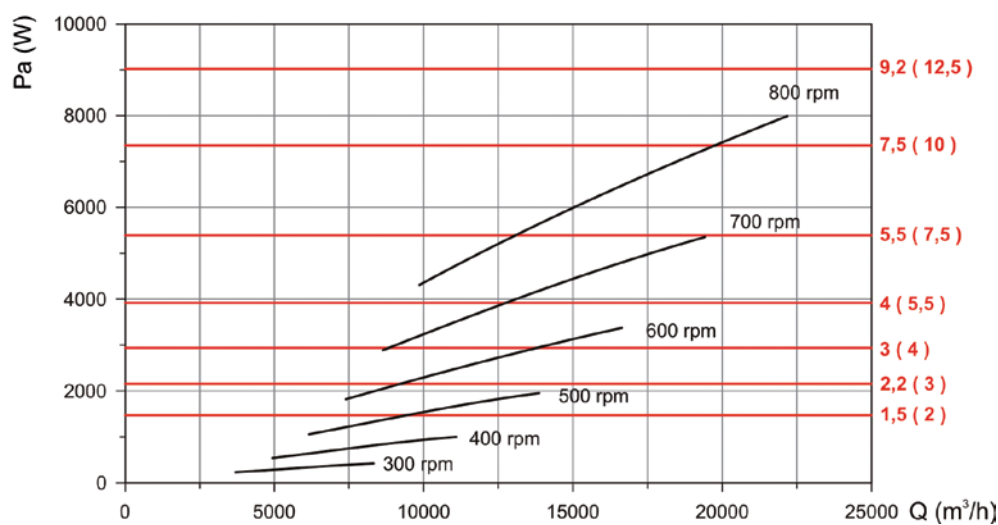
Sound level dB(A)

UFX-22/22



Absorbed power

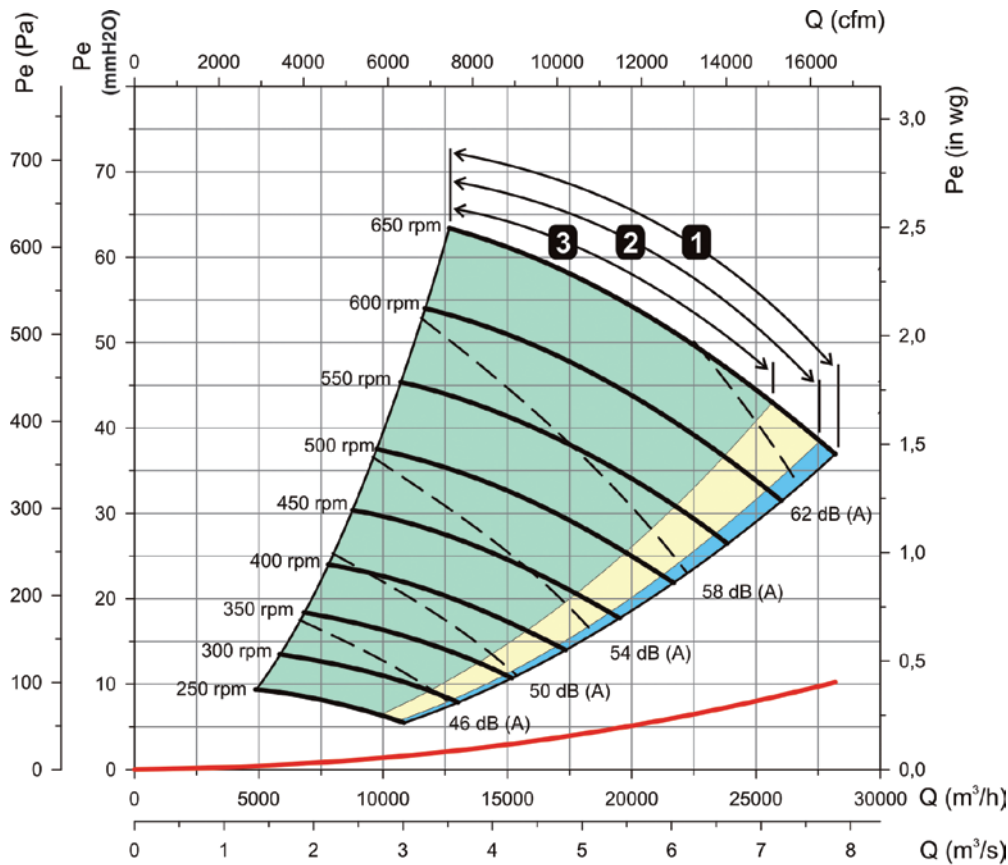
Recommended motor power kW (HP)



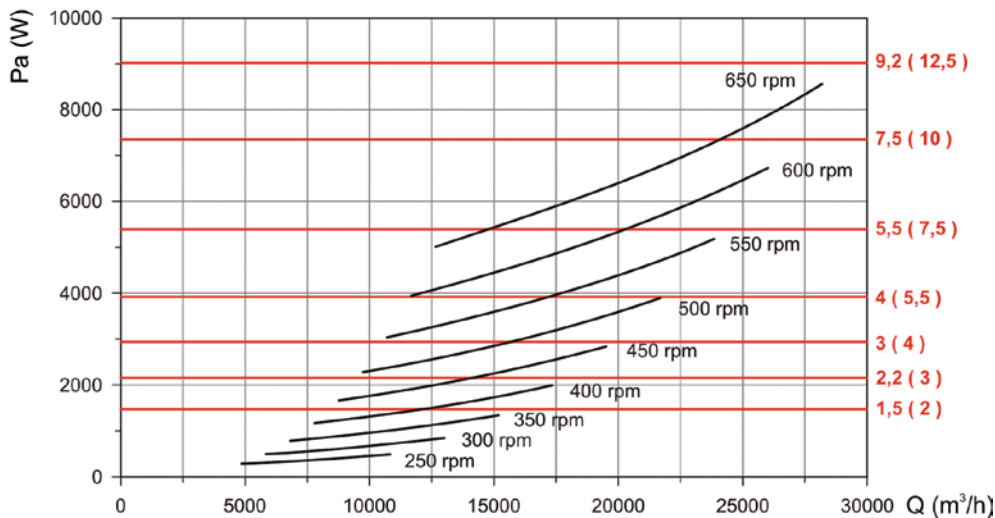
Characteristic Curves

Useful areas depending on filters **1** F6+F8 **2** F7+F9 **3** G4+F6
Static pressure Dynamic pressure Sound level dB(A)

UFX-25/25



Absorbed power Recommended motor power kW (HP)



Characteristic Curves

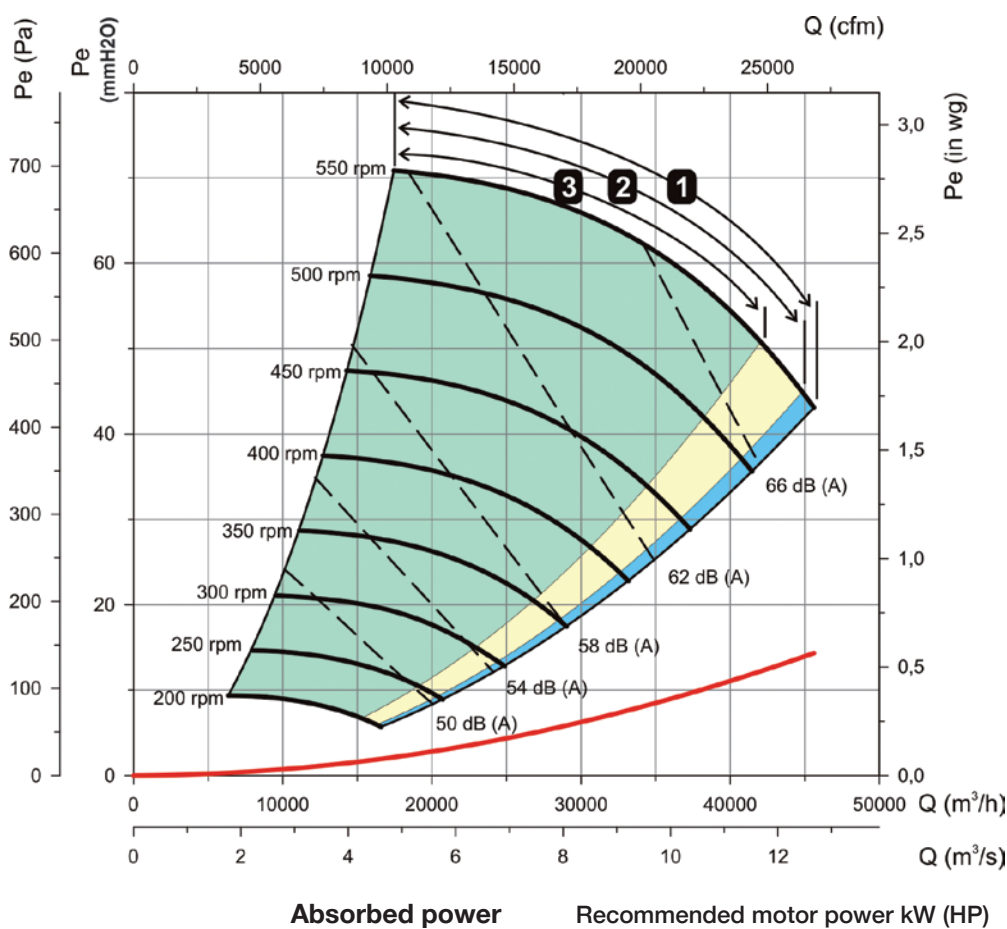
Useful areas depending on filters **1** F6+F8 **2** F7+F9 **3** G4+F6

Static pressure

Dynamic pressure

Sound level dB(A)

UFX-30/28



Absorbed power

Recommended motor power kW (HP)

