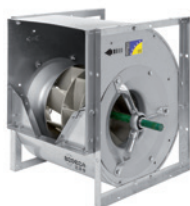


UFRX



Soundproofed filtration units equipped with double inlet fans, with very robust backward-curved impeller and different stages of filtration depending on model.



Features:

- Belt-driven.
- Built-in base.
- Filters F6 + F8, F7 + F9 and G4 + F6.
- Optionally pre-filter plus three stages of filtration
- Easy access inspection and cleaning covers.
- Pressure inlets and pressure switches for filter control.

Construction:

- Galvanised sheet steel structure with soundproofing.
- Impeller with backward-curved blades made from sheet steel.
- Built-in base.

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.

Finish:

- Anticorrosive pre-lacquered sheet steel

Order code

UFRX	—	355	—	5,5	—	G4+F6	—	2.700
↓		↓		↓		↓		↓
UFRX: Soundproofed filtration units equipped with double inlet fans, with very robust backward-curved impeller and different stages of filtration depending on model		Size		Motor power		Combination of filters		Speed (rpm)

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*		
UFRX-315	3,0	8.550	8.075	7.600	1	2	1	2	117	2018
UFRX-355	5,5	12.330	11.645	10.960	4	0	4	0	155,5	2018
UFRX-400	7,5	16.470	15.555	14.640	4	0	4	0	204	2018
UFRX-450	11,0	20.700	19.550	18.400	4	4	4	4	364,5	2018
UFRX-500	15,0	28.800	27.200	25.600	4	4	4	4	415	2018
UFRX-560	18,5	36.360	34.340	32.320	9	0	9	0	478	2018
UFRX-630	18,5	43.000	42.000	41.000	9	0	9	0	594	2018

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

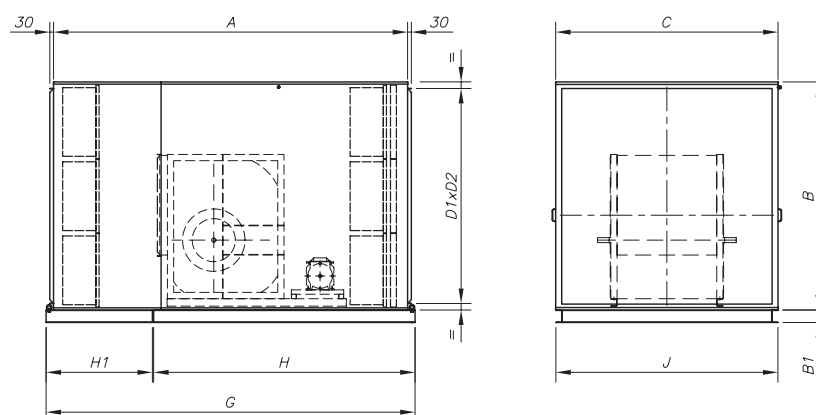
*Filter dimensions: Whole: 593x593x292. Medium: 288x593x292



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				Height		Width		H	H1	G	J
	A	B	C	D1	D2	B1					
UFRX-315	1987.5	932.5	888	826	794	80		1440	657.5	2107.5	886
UFRX-355	2401	1236.5	1192	1123	1095	80		1741	770.5	2521.5	1194
UFRX-400	2401	1236.5	1192	1123	1095	80		1741	770.5	2521.5	1194
UFRX-450	2485	1551.5	1480	1422	1386	100		1741	854	2605.5	1478
UFRX-500	2725	1551.5	1480	1422	1386	100		1981	854	2845.5	1478
UFRX-560	2844	1855.5	1786	1727	1690	100		2100	854	2964.5	1784
UFRX-630	2844	1855.5	1786	1727	1690	100		2100	854	2964.5	1784

Accessories

See accessories section



EXAMPLE OF SELECTING FILTRATION UNIT UFRX

Useful areas according to filters

1 F6+F8

2 F7+F9

3 G4+F6

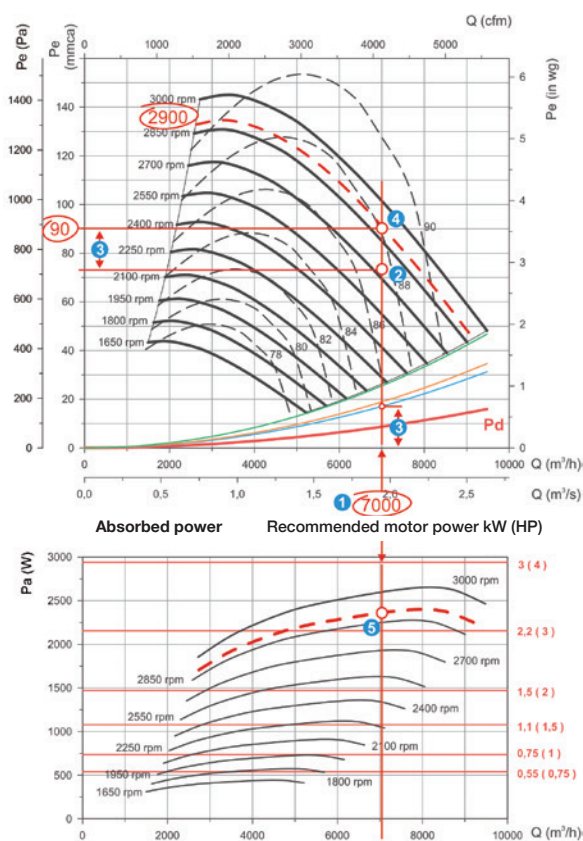
Static pressure

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, 7000 m³/h.
- Head loss from the installation 72 mm.w.c.
- Desired combination of filters: F6+F8.



Procedure:

- On the flow-pressure graph, trace a vertical line from the point of 7000 m³/h on the flow (1) axis, through the entire graph, to the working pressure of the installation (2).
- At point (2) add the head loss from the F6+F8 filters, in this case 18 mm.w.c. (3), obtaining point (4). The head loss from the 100% clean filters is taken into account.
- The resulting Point (4) is the service point of the equipment, under operating conditions: 7000 m³/h at 90 mm.w.c. Check 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 2900 rpm.
- As the filters get dirty, the pressure will increase and the flow will diminish following the curve of 2900 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 2900 rpm, between the curves drawn. In the intersection with the flow line, the service point is obtained (5). The recommended power is immediately above the operating point, 4 HP in the example.

Characteristic Curves

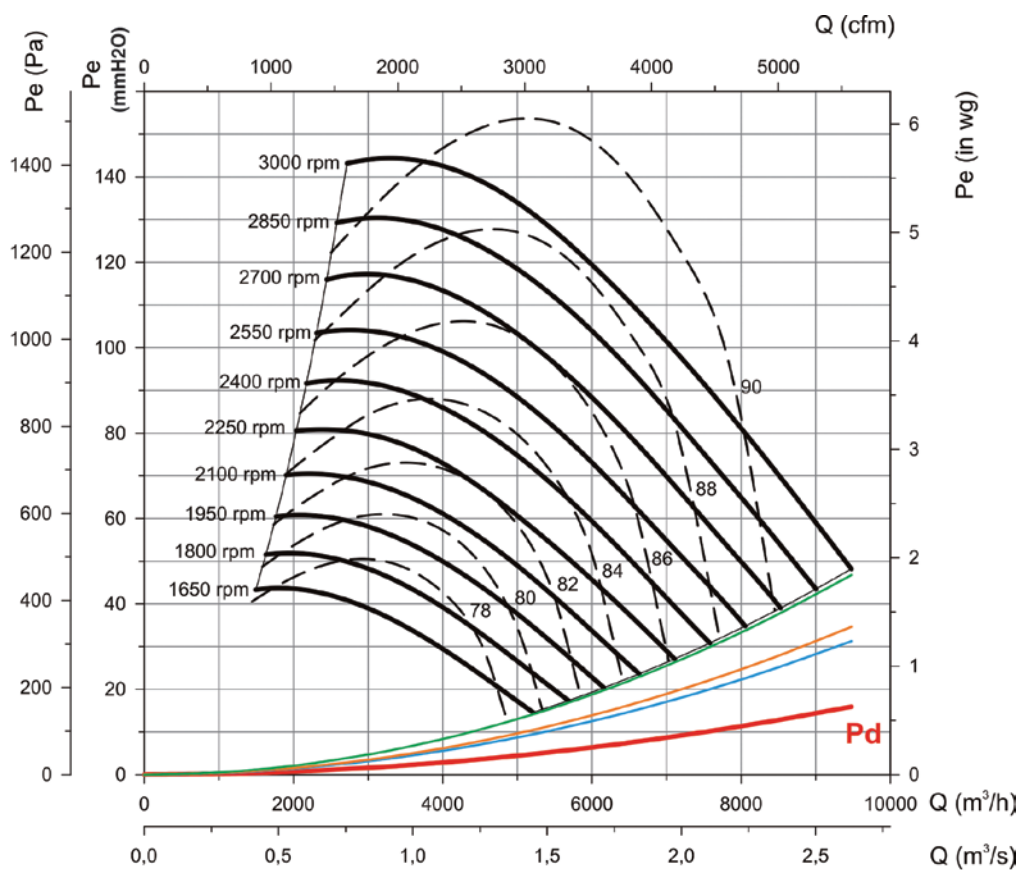
Useful areas according to filters 1 F6+F8 2 F7+F9 3 G4+F6

Static pressure

Dynamic pressure

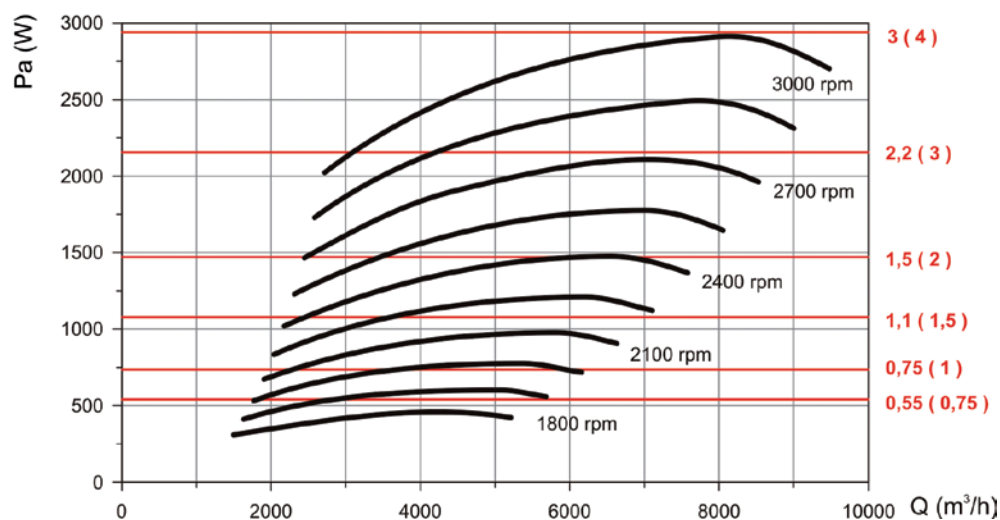
Sound level dB(A)

UFRX-315



Absorbed power

Recommended motor power kW (HP)

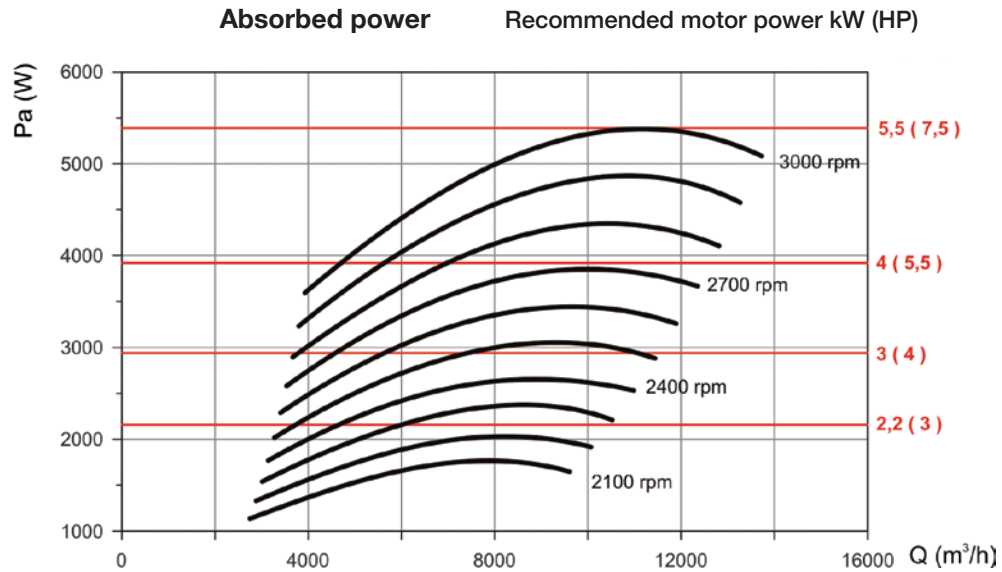
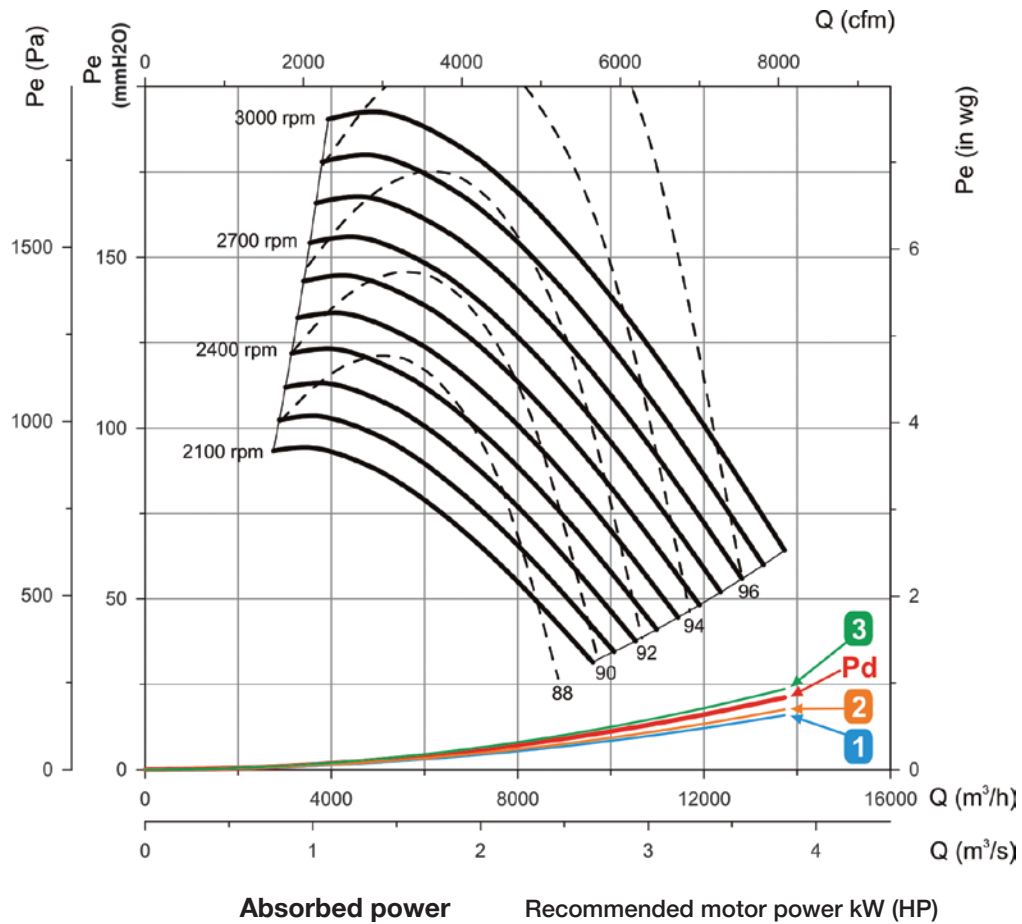


Characteristic Curves

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

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

UFRX-355



Characteristic Curves

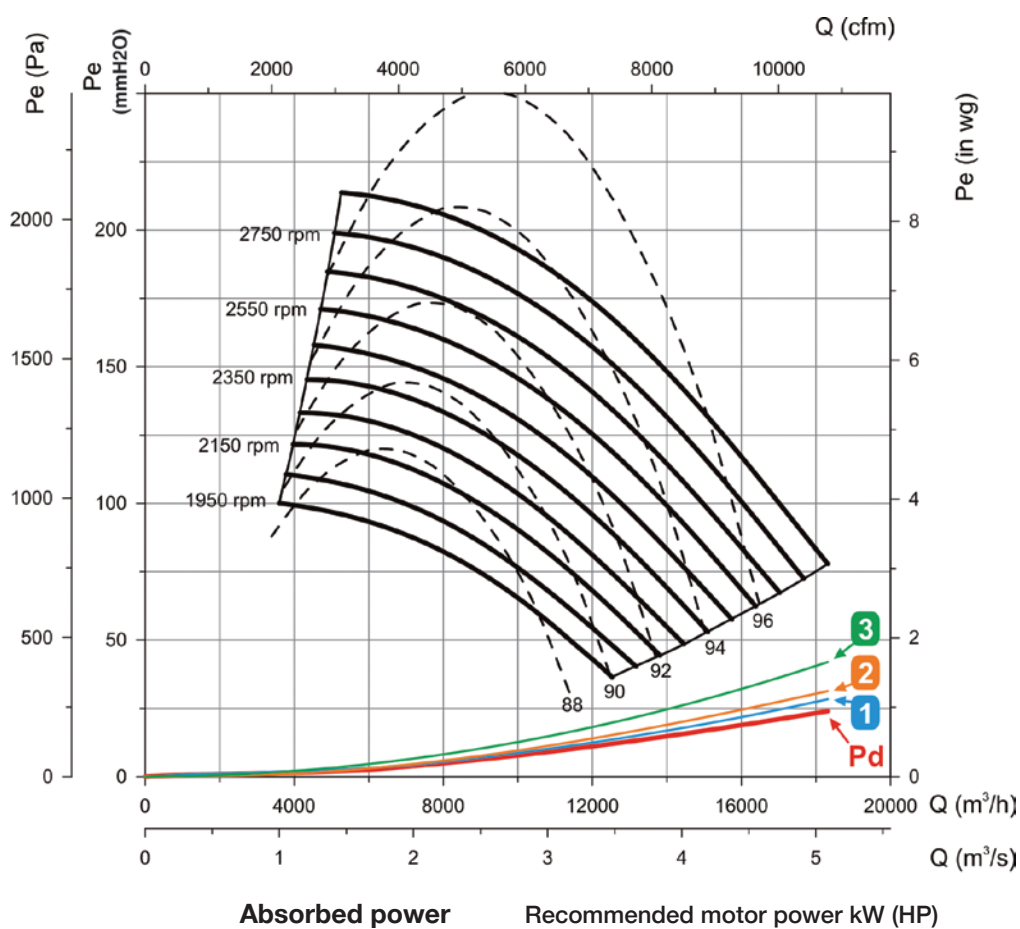
Useful areas according to filters 1 F6+F8 2 F7+F9 3 G4+F6

Static pressure

Dynamic pressure

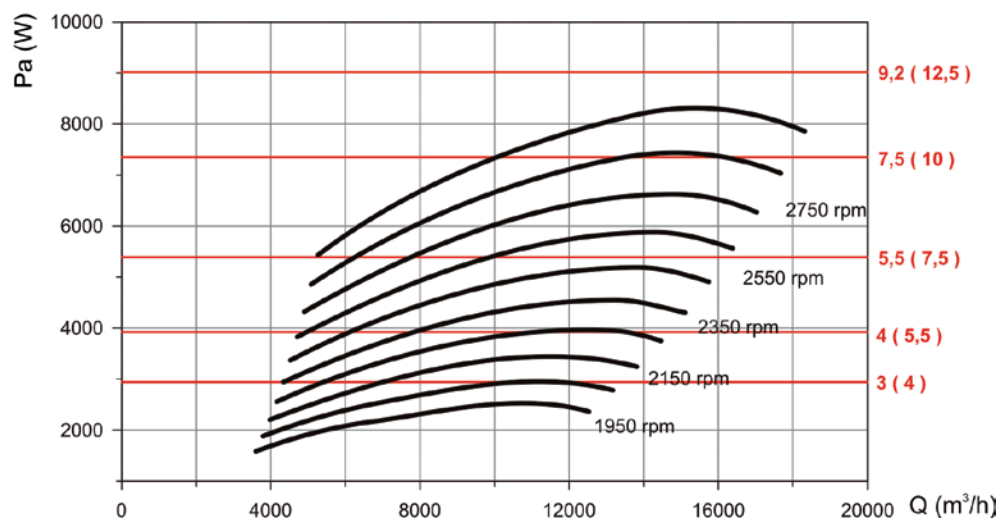
Sound level dB(A)

UFRX-400



Absorbed power

Recommended motor power kW (HP)

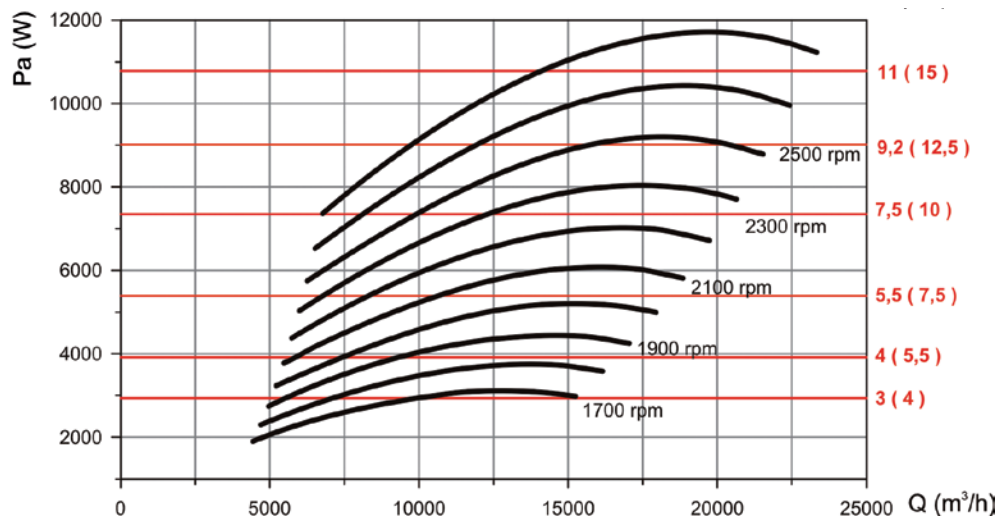
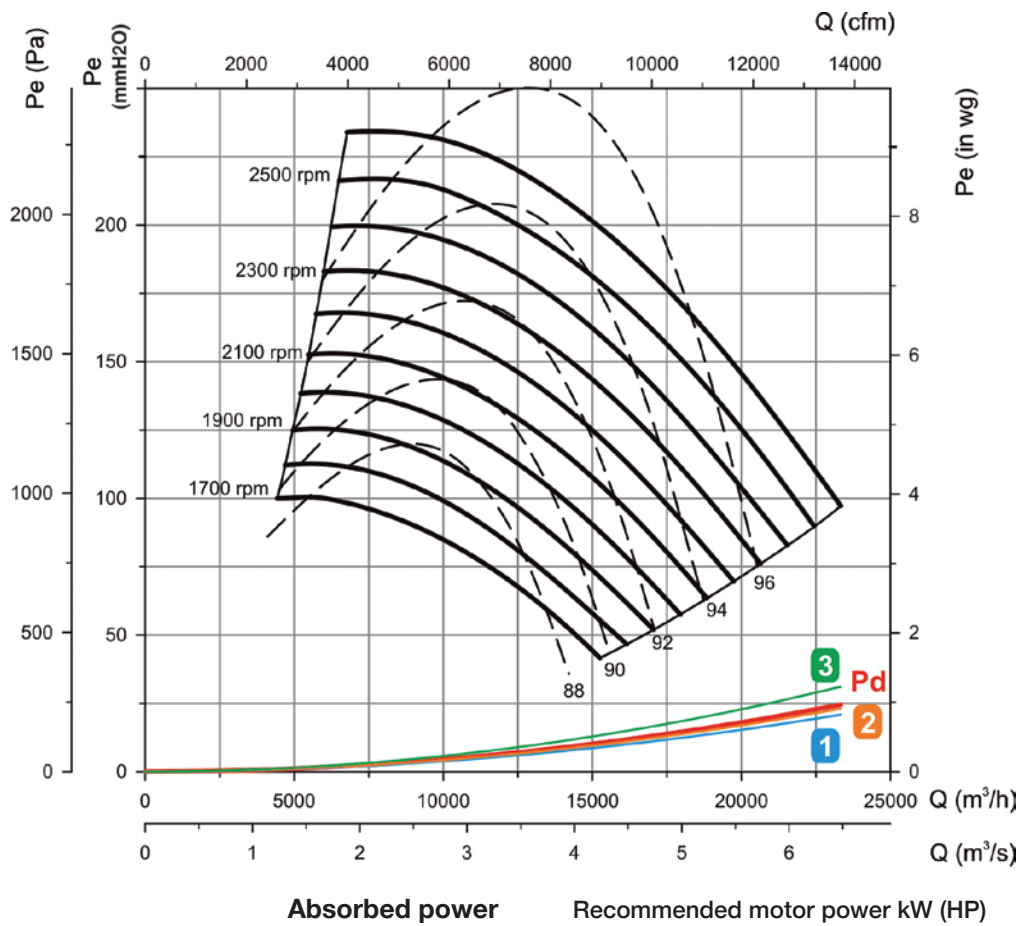


Characteristic Curves

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

Static pressure Dynamic pressure Sound level dB(A)

UFRX-450



Characteristic Curves

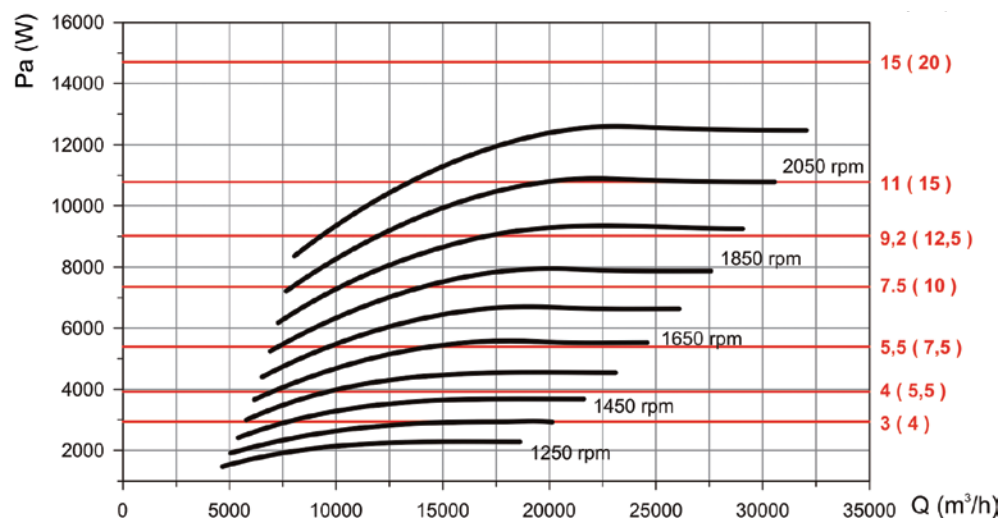
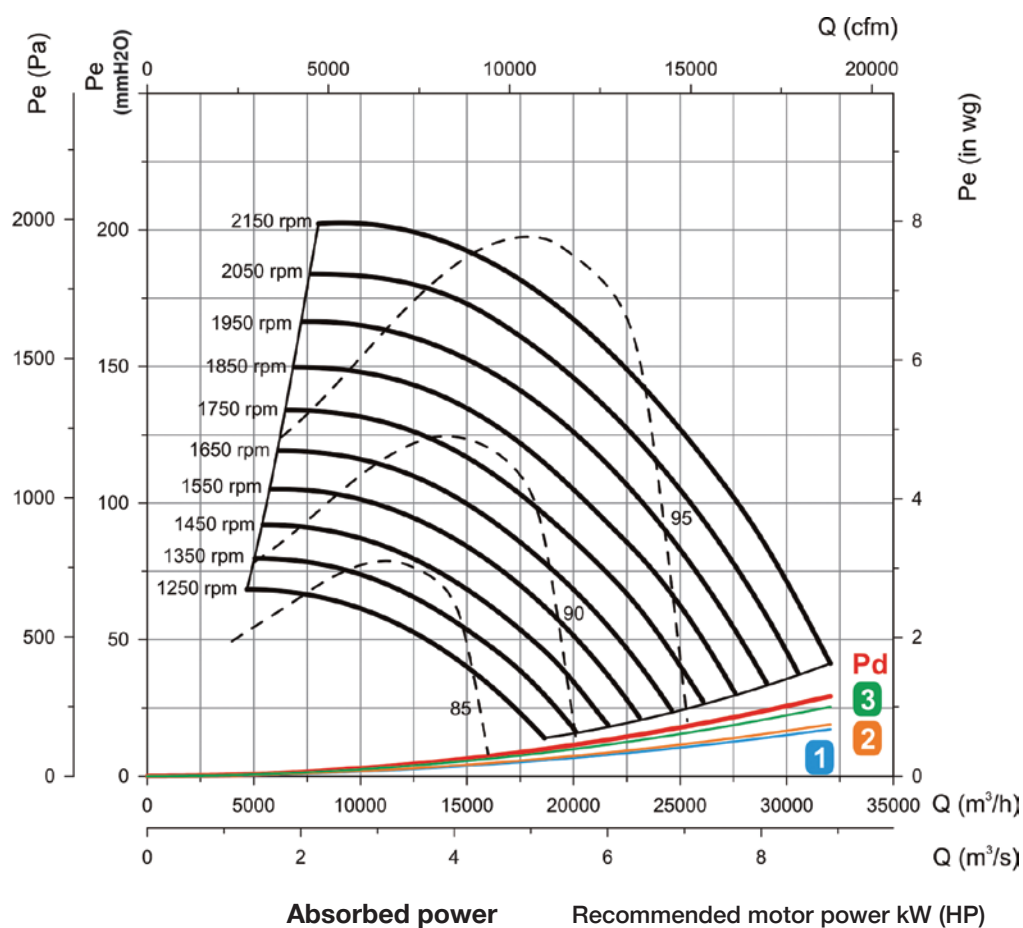
Useful areas according to filters 1 F6+F8 2 F7+F9 3 G4+F6

Static pressure

Dynamic pressure

Sound level dB(A)

UFRX-500

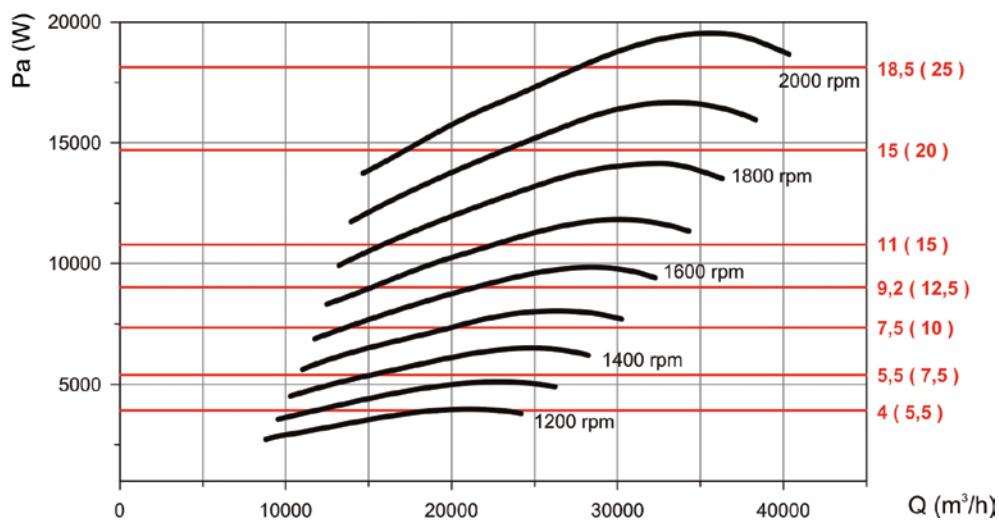
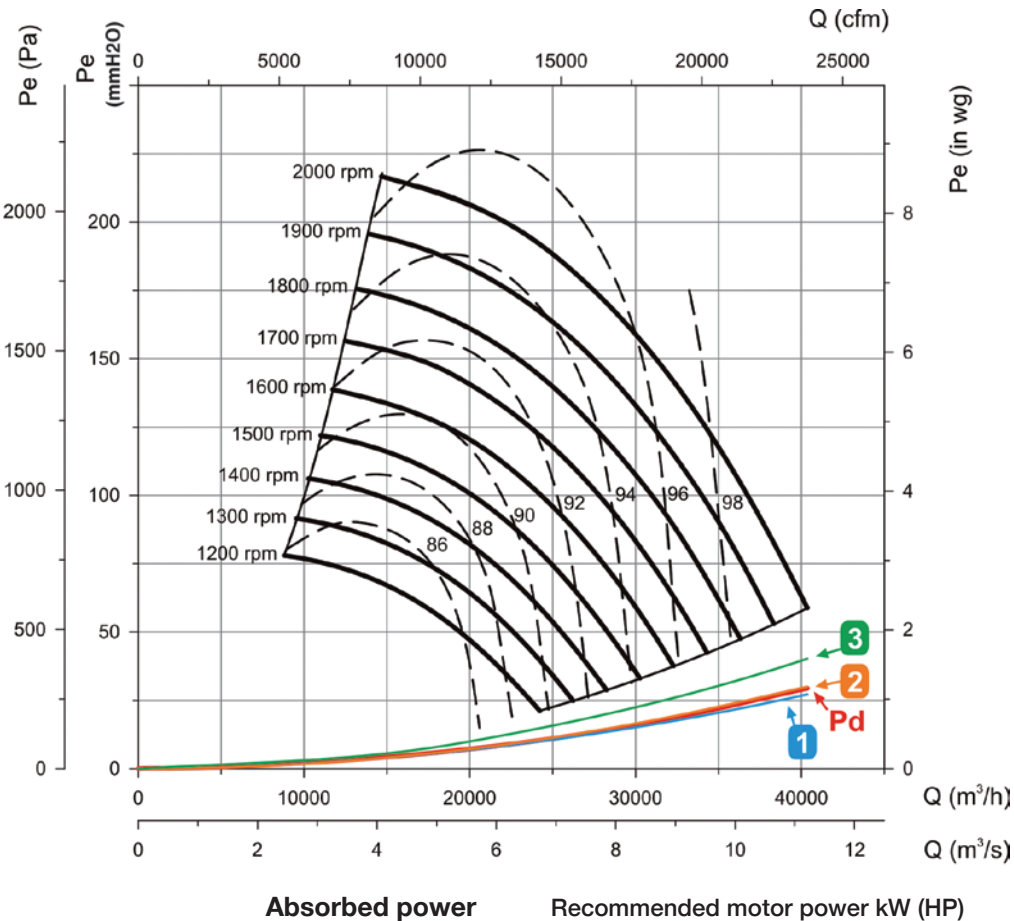


Characteristic Curves

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

Static pressure Dynamic pressure Sound level dB(A)

UFRX-560



Characteristic Curves

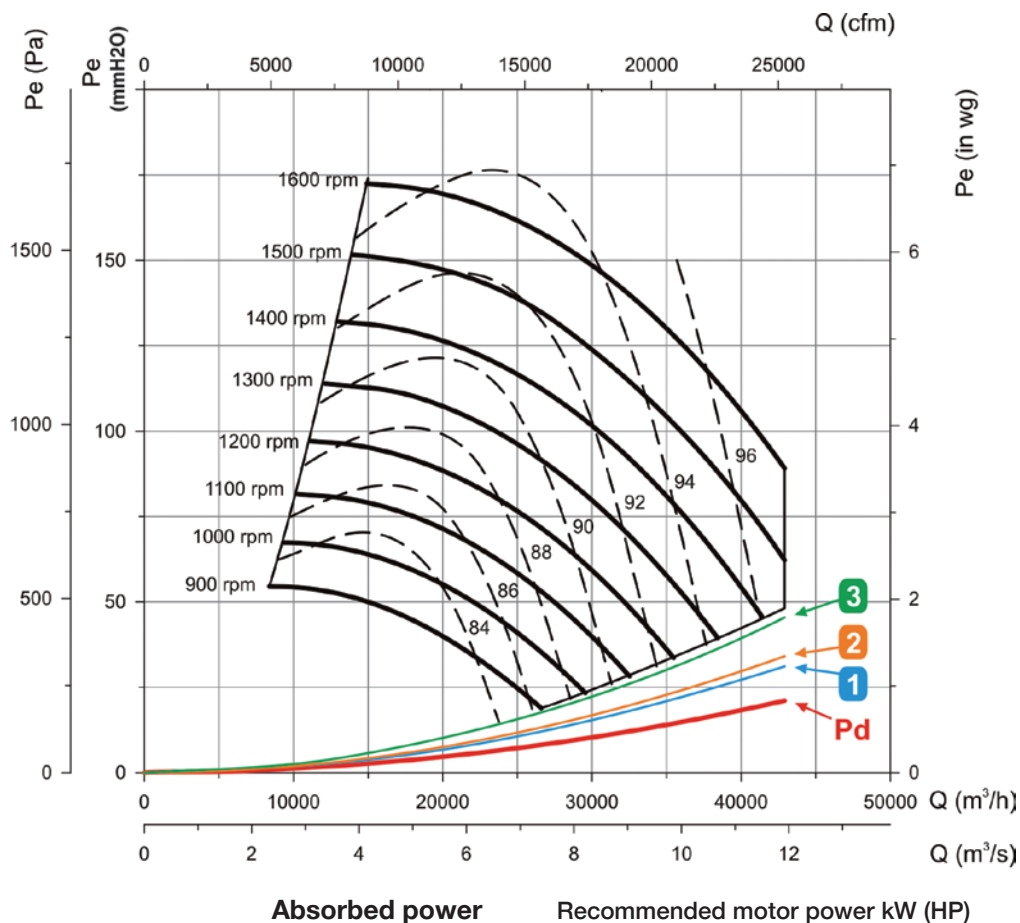
Useful areas according to filters 1 F6+F8 2 F7+F9 3 G4+F6

Static pressure

Dynamic pressure

Sound level dB(A)

UFRX-630



Absorbed power

Recommended motor power kW (HP)

