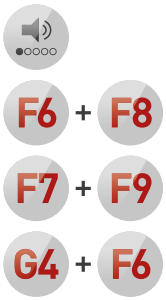
UFRX

Acoustically insulated filtration units, highly robust backward curved impeller and different filtration stages depending on the model



Acoustically insulated filtration units, equipped with highly robust double inlet fans, backward curved impeller and different filtration stages depending on the model.

Characteristics:
- Belt driven.
- Built-in support bench.
- Filters F6 + F8, F7 + F9 and G4 + F6.
- Possibility of pre-filter, plus three stages of filtration.
- Easy access inspection and cleaning hatch.
- Pressure taps and pressure switches for filter control.

Construction:
- Galvanised sheet steel structure with acoustic insulation.
- Backward curved impeller made of sheet steel.
- Built-in support bench.

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

Finish:
- Anti-corrosive in pre-lacquered steel sheet.

Order code

UFRX	—	355	—	5,5	—	G4+F6	—	2.700
UFRX: Acoustically insulated filtration units, highly robust backward curved impeller and different filtration stages depending on the model		Impeller size		Motor power (HP)		Combination filters		Speed r/min

Technical characteristics

Model	Installed power max.	Maximum flow rate (m³/h)			Nº Pré-filters		Nº Filters		Approx. weight	According ErP
	(kW)	Filters (F6+F8)	Filters (F7+F9)	Filters (G4+F6)	Whole*	Medium*	Whole*	Medium*	(Kg)	
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

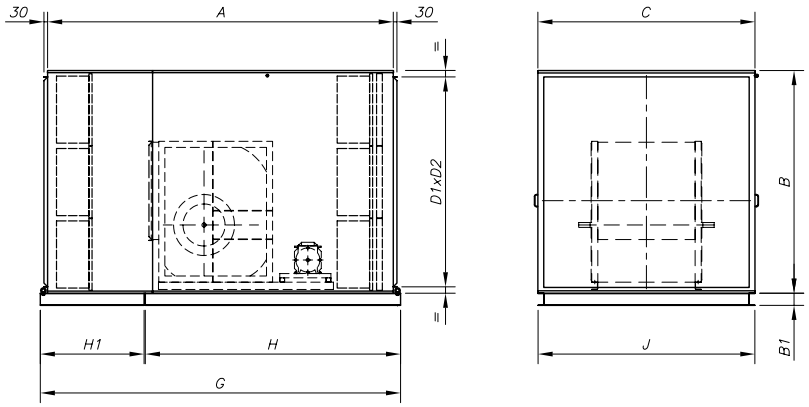
*Pre-filter dimensions: Whole: 585x585x48. Medium: 290x585x48

*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 mm



	A	B	C	Height D1	Width D2	B1	H	H1	G	J
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


FILTROS


CJFILTER


SI-PRESOSTATO


SI-PRESIÓN

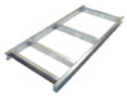

KIT CAUDAL CONSTANTE


SONDA PRESIÓN DIFERENCIAL


INT


VIS


TEJ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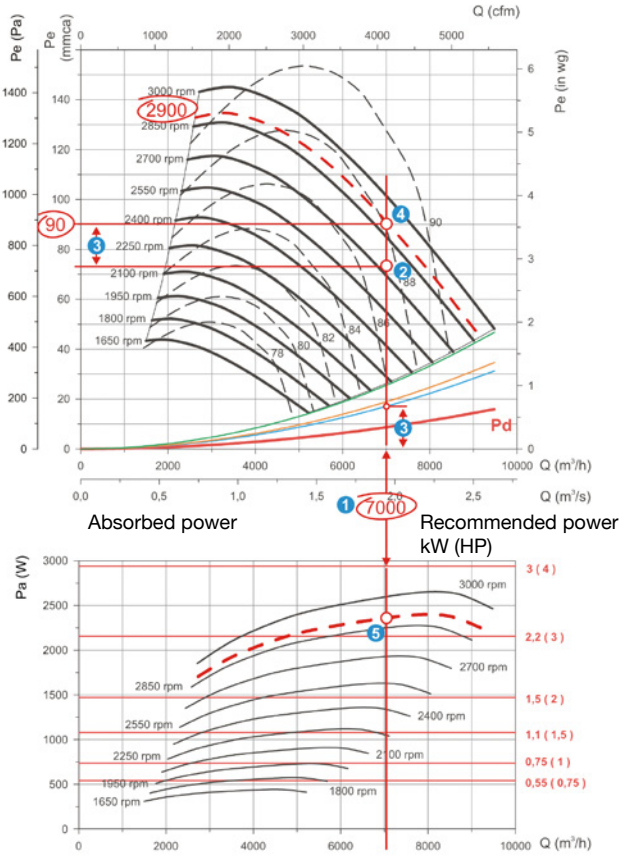
EXAMPLE OF SELECTING FILTRATION UNIT UFRX

Useful areas according to filter 1 F6+F 2 F7+ 3 G4+F6

Static pressure — Dynamic pressure — Sound power 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 H_2O.
- Desired combination of filters: F6+F8.



Procedure:

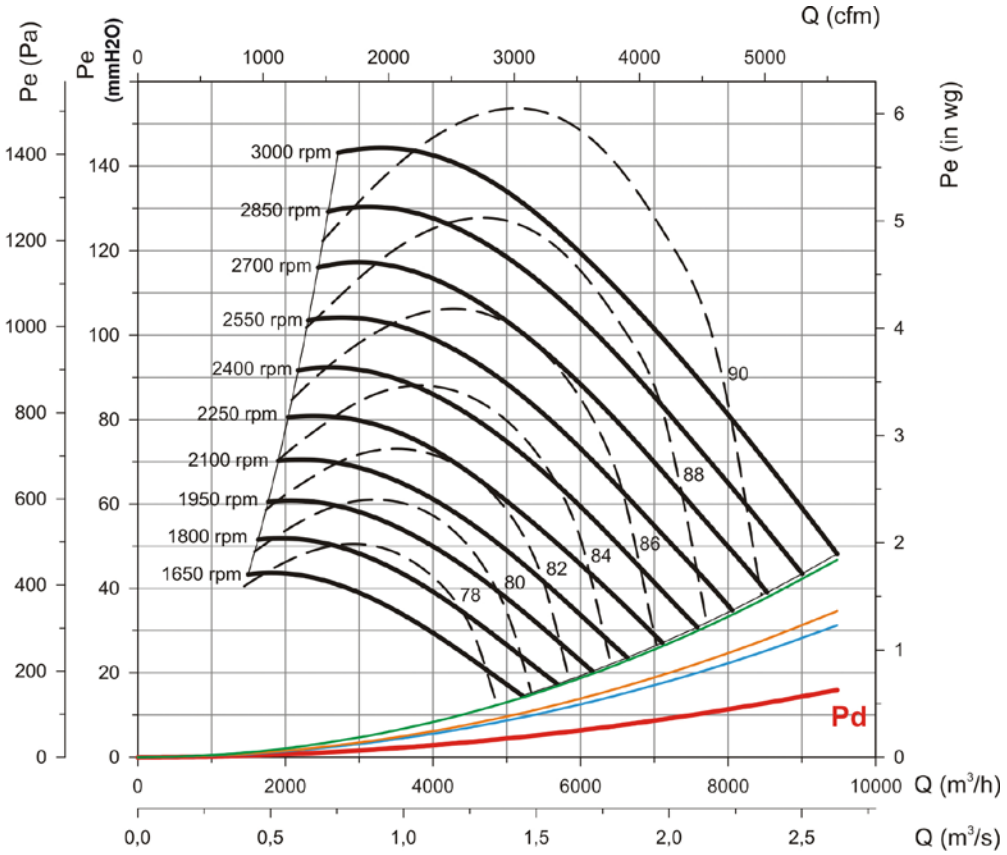
- On the flow-pressure graph, trace a vertical line from the point of 7000 m³/h on the flow (1) axis, through the entire graph, to the working pressure of the installation (2)
- At point (2) add the head loss from the F6+F8 filters, in this case 18 mm H_2O. (3), obtaining point (4). The head loss from 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 H_2O. 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 r/min.
- As the filters get dirty, the pressure will increase and the flow will diminish following the curve of: 2900 r/min. 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 r/min, 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 filter 1 F6+F 2 F7+ 3 G4+F6

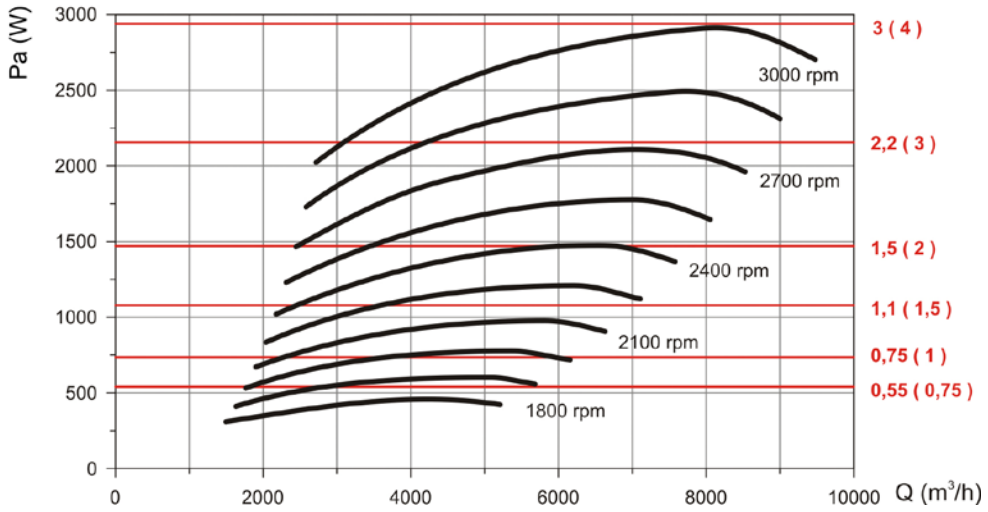
Static pressure Dynamic pressure Sound power dB(A)

UFRX-315



Absorbed power

Recommended power kW (HP)

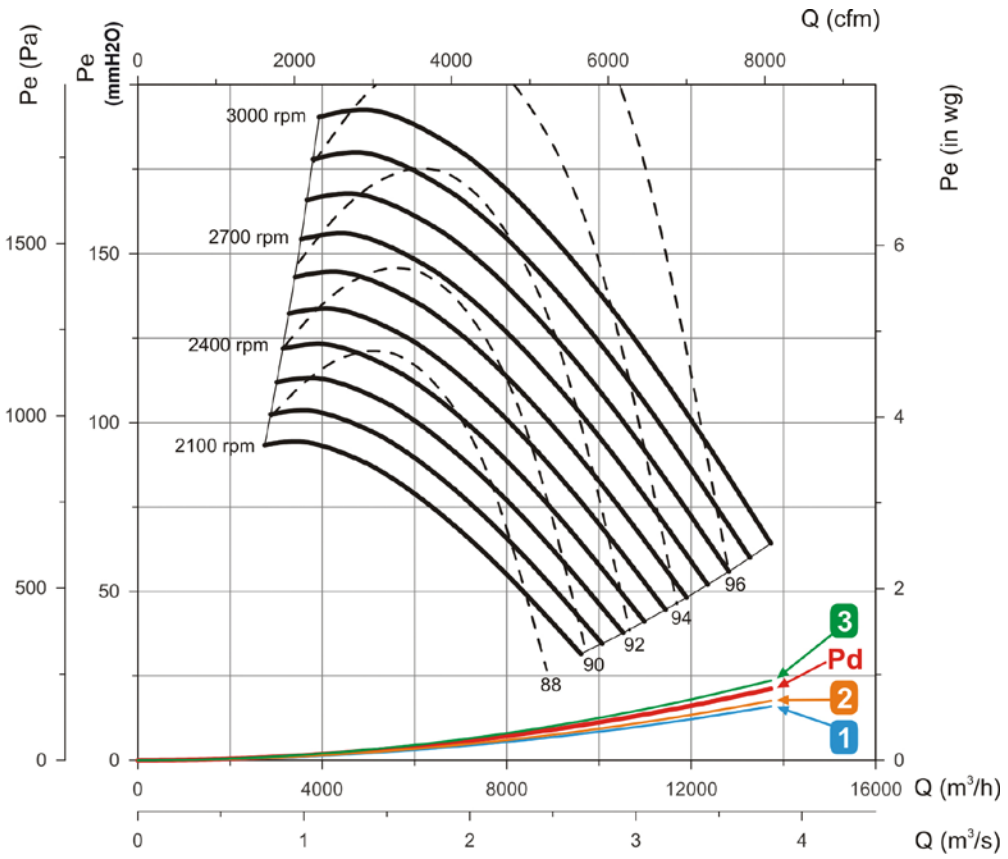


Characteristic curves

Useful areas according to filter 1 F6+F 2 F7+ 3 G4+F6

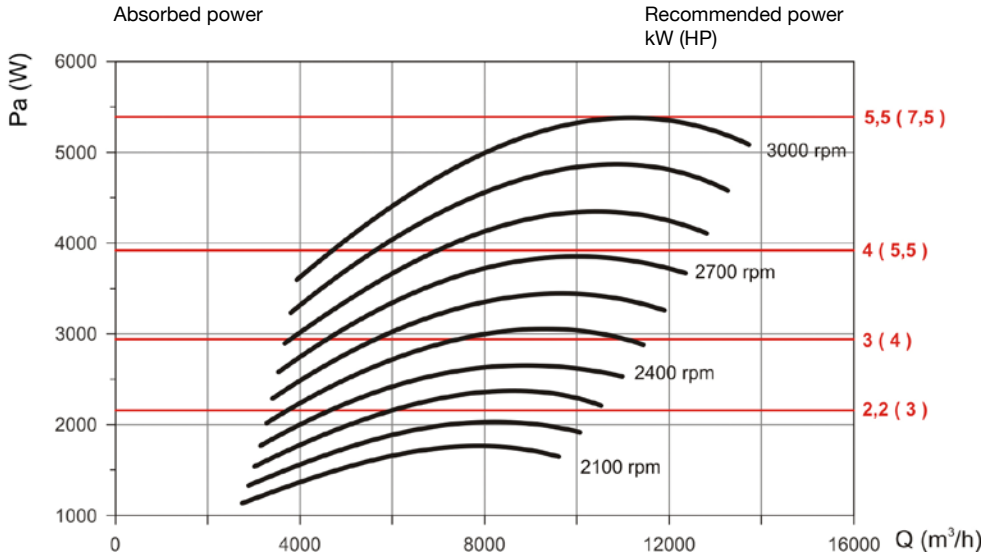
Static pressure — Dynamic pressure — Sound power dB(A) - - - -

UFRX-355



Absorbed power

Recommended power kW (HP)

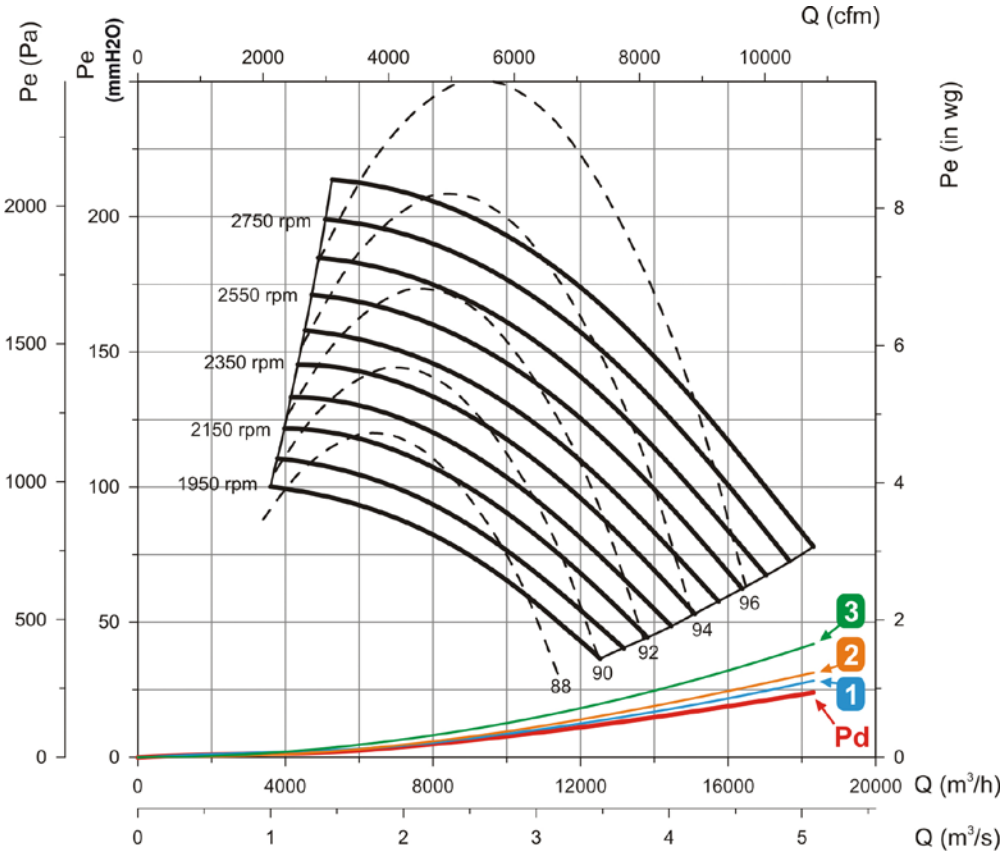


Characteristic curves

Useful areas according to filter 1 F6+F 2 F7+ 3 G4+F6

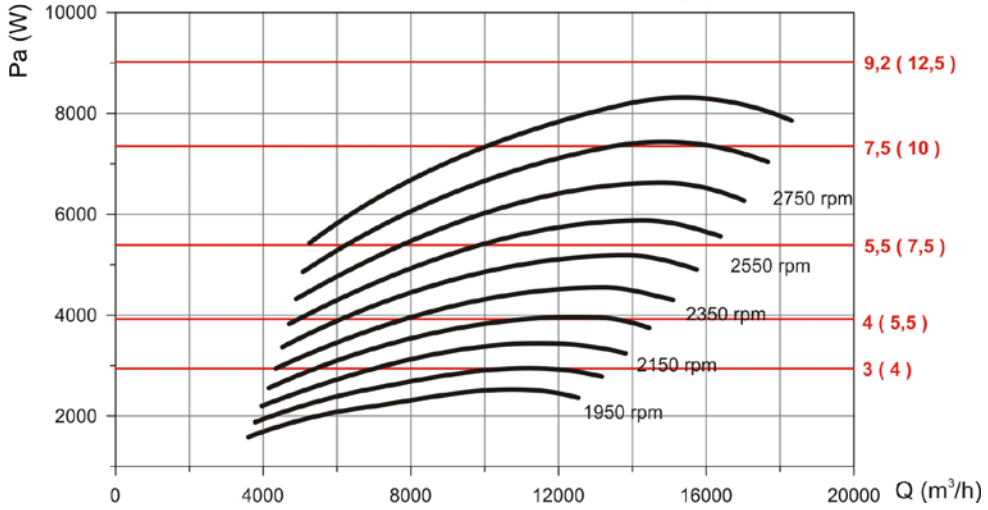
Static pressure Dynamic pressure Sound power dB(A)

UFRX-400



Absorbed power

Recommended power kW (HP)

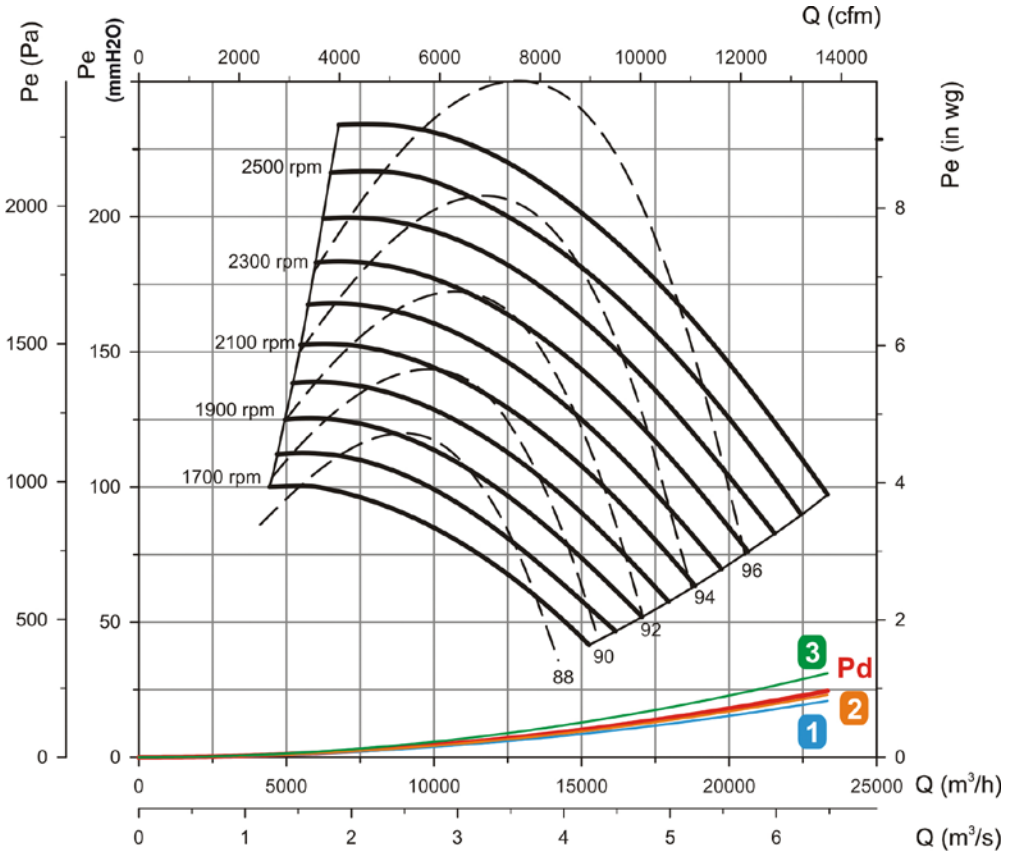


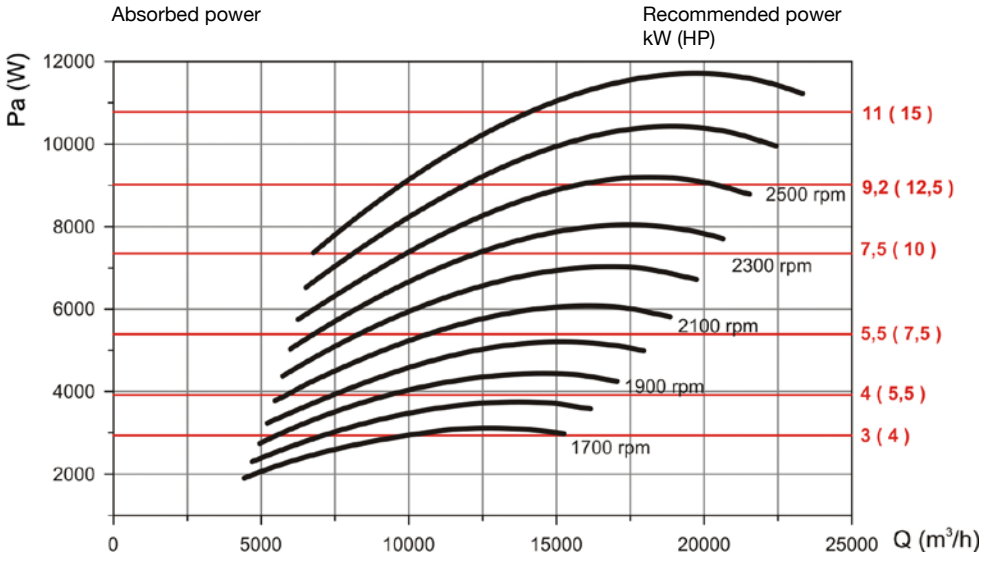
Characteristic curves

Useful areas according to filter 1 F6+F 2 F7+ 3 G4+F6

Static pressure Dynamic pressure Sound power dB(A)

UFRX-450



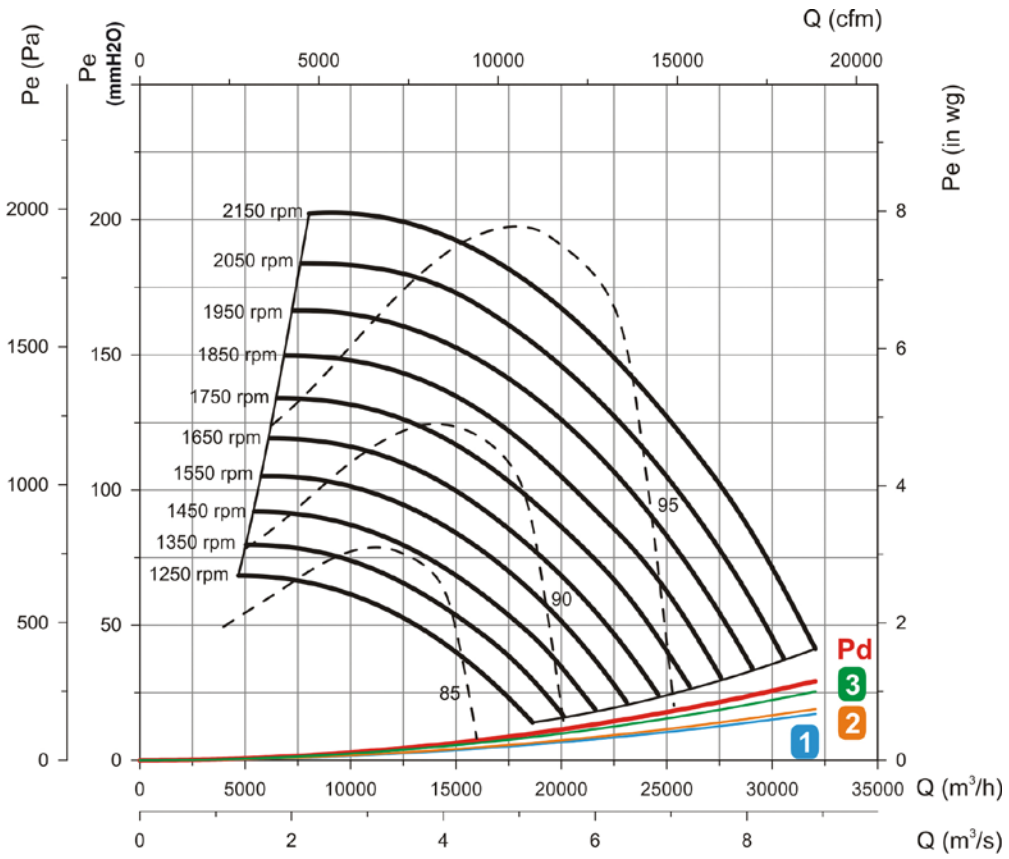


Characteristic curves

Useful areas according to filter 1 F6+F 2 F7+ 3 G4+F6

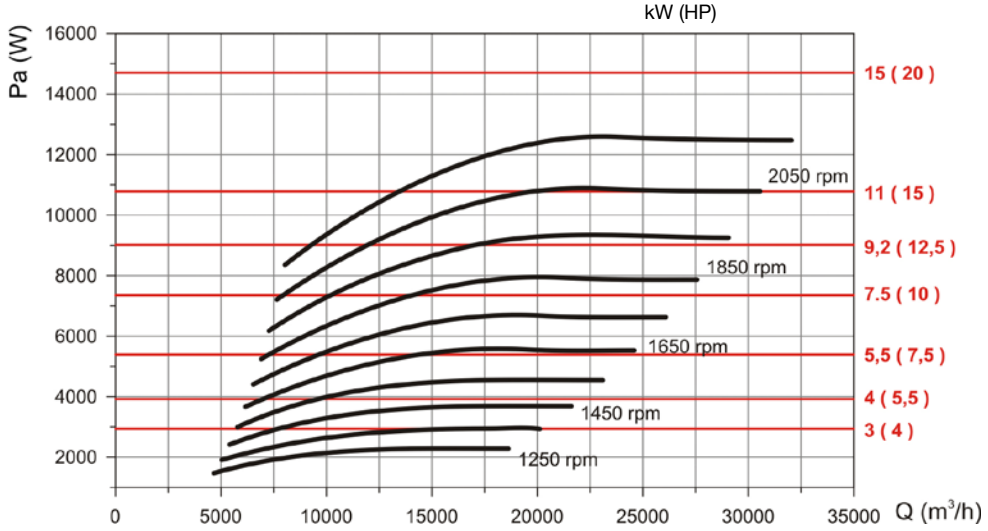
Static pressure Dynamic pressure Sound power dB(A)

UFRX-500



Absorbed power

Recommended power kW (HP)

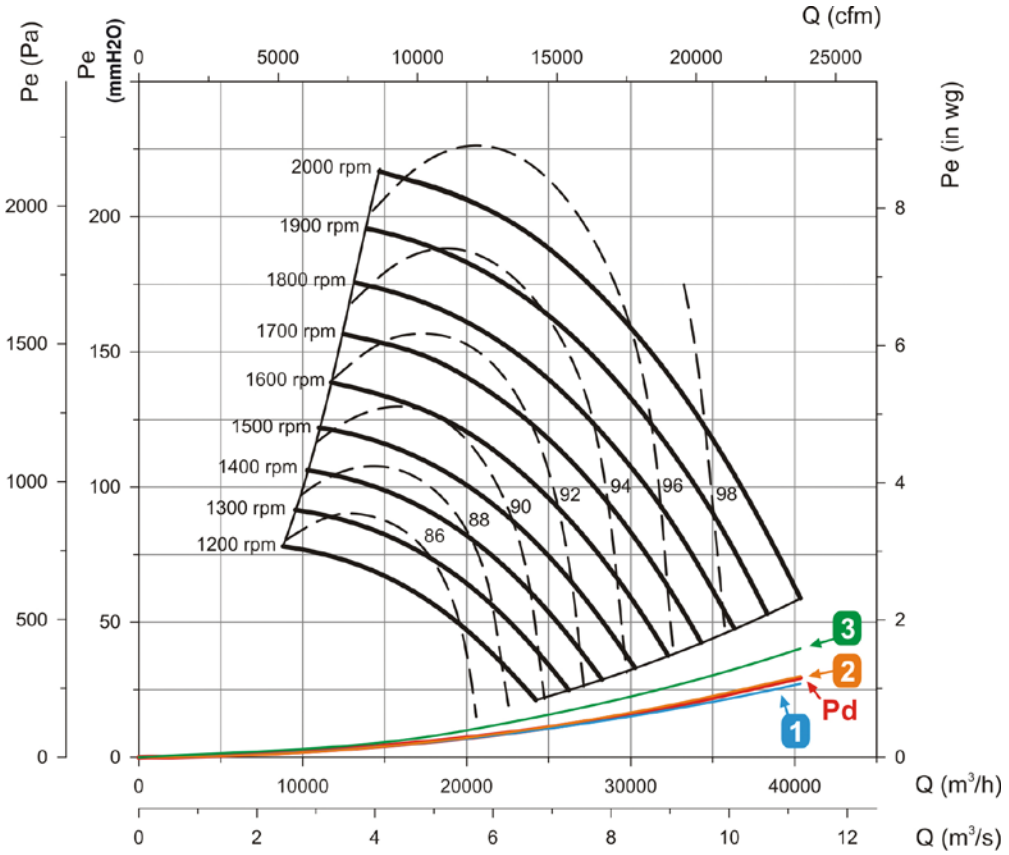


Characteristic curves

Useful areas according to filter 1 F6+F 2 F7+ 3 G4+F6

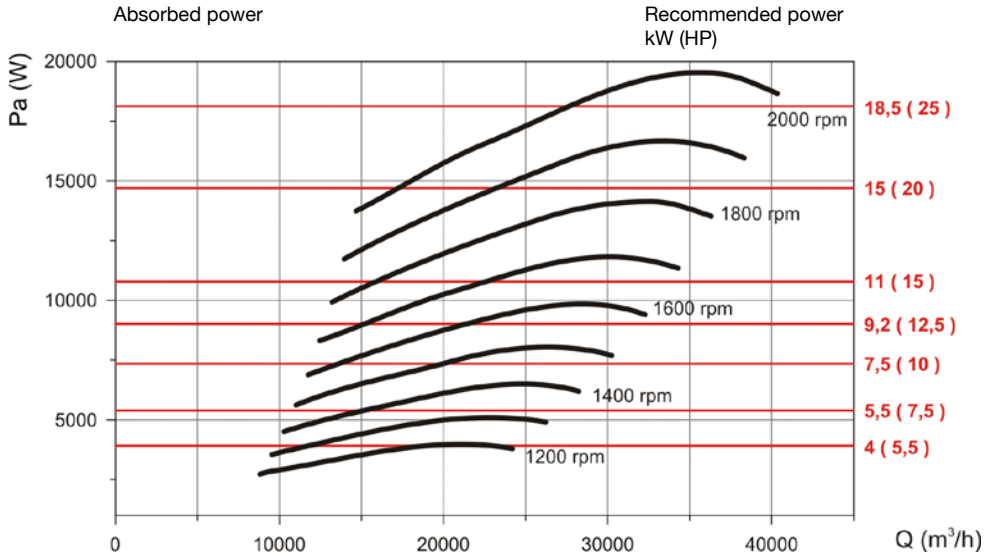
Static pressure Dynamic pressure Sound power dB(A)

UFRX-560



Absorbed power

Recommended power kW (HP)

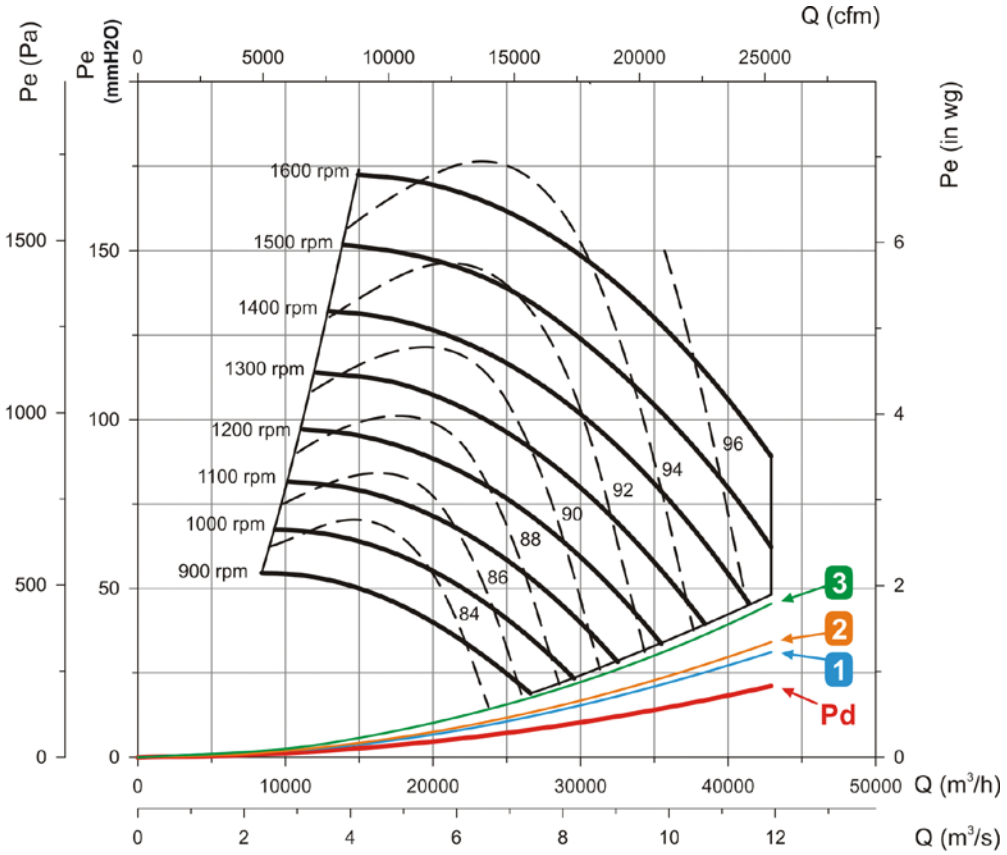


Characteristic curves

Useful areas according to filter 1 F6+F 2 F7+ 3 G4+F6

Static pressure Dynamic pressure Sound power dB(A)

UFRX-630



Absorbed power

Recommended power kW (HP)