

Centrifugal one-side fans of ВДН and ВД type are designed for air supply to standard steam boilers with steam capacity between 35-960 t/h and are allowable for use in installations for clean air travel. Maximum temperature at the fan entry should be under +100°C.

Centrifugal one-side suction fans of ВВДН type are designed for nonintrusive gas transmission in gas cleaning installations and other industrial installations under temperature +200°C.

The impeller blade of ВДН-12,5К, ВДН-15БК, ВДН-17БК, ВДН-21К, ВДН-21ПК, ВДН-19К, ВДН-31,5К, ВВДН-15БК, ВВДН-17БК fans are of flat, backward curved type; in ВДН-18К, ВДН-20К, ВДН-22К, ВДН-24К, ВДН-26К, ВДН-26ФК, ВДН-28К, ВДН-32БК they are airfoil section hollow ones while ВД-13,5К, ВД-15,5К, ВД-15,5Ф-1500К have sheet forward-curved blades and ВД-17,5ФК - flat and radial ones. These fans are of right and left-hand rotation. Turn scheme of the fan scroll cases is given in Figure 8.

Technical data are in Figure 14 and Table 8.

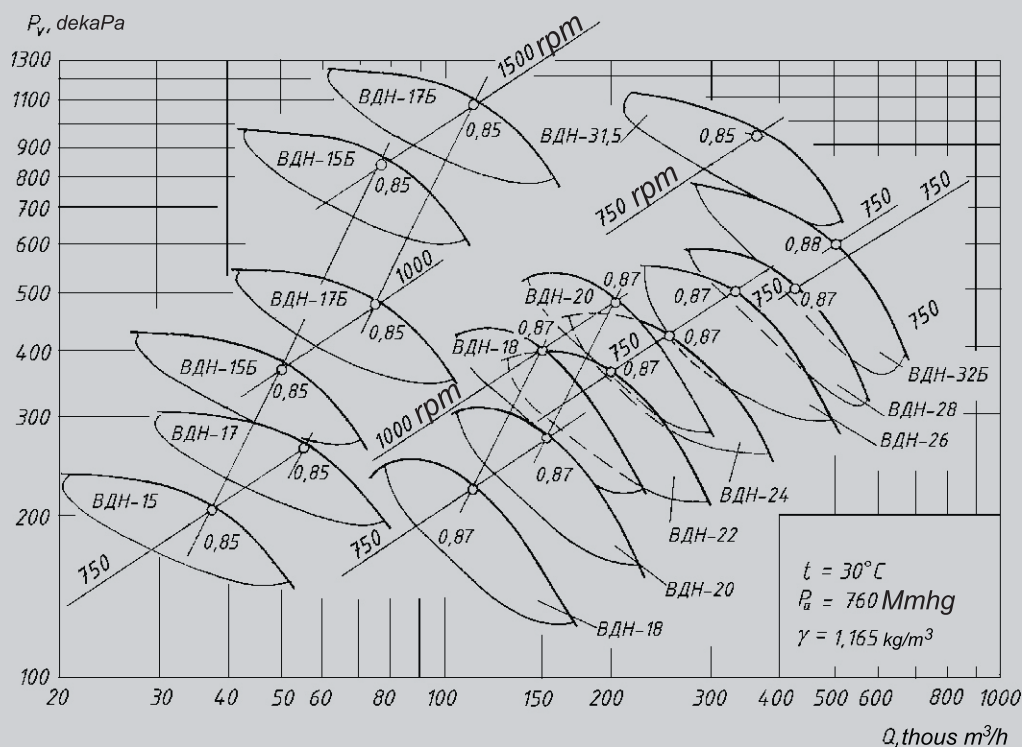


Figure 14. Q-P joint data of standard ВДН type fan. Recommended scopes of selection.

Table 8

№	Fan type	Rated inlet aerodynamic parameters under pressure 101300,Pa, temperature +30°C and air density 1.165 kg/m ³			Rotary speed rpm	Weight. Kg
		Capacity Q, th, m ³ /h	Total pressure Pv, Pa kgf/m ²	Maximum efficiency η_{max} %		
1	ВДН-12,5БК	45	6115 (623)	85	1500	1261
2	ВДН-15БК	78	8870 (904)	85	1500	2596
3	ВДН-17БК	114	11500 (1175)	85	1500	3078
4	ВДН-18К	152	3865 (394)	86	1000	5000
5	ВДН-19К	130	6550 (668)	85	1000	4510
6	ВДН-20К	215	4710 (480)	86	1000	5660
7	ВДН-21К	138	7100 (724)	85	1000	4587
8	ВДН-21ПК	142	8700 (887)	85	1000	4471
9	ВДН-22К	210	3330 (340)	86	750	7060
10	ВДН-24К	275	3950 (403)	86	750	7850
11	ВДН-26К	350	4610 (470)	86	750	8720
12	ВДН-26ФК	375	5750 (586)	86	750	8750
13	ВДН-28К	430	5050 (515)	86	750	11164
14	ВДН-31,5К	367	9415 (960)	84,5	750	11650
15	ВДН-32БК	475	6030 (615)	88	750	13480
16	ВВДН-15БК	36	9060 (924)	82	1500	2406
17	ВВДН-17БК	51	11770 (1200)	82	1500	2718
18	ВД-13,5К	60	5000 (510)	72	1000	2170
19	ВД-15,5К	90	6625 (675)	72	1000	2330
20	ВД-15,5Ф-1500К	135	16800 (1713)	73	1500	-
21	ВД-17,5ФК	78	16000 (1631)	73	1500	3020