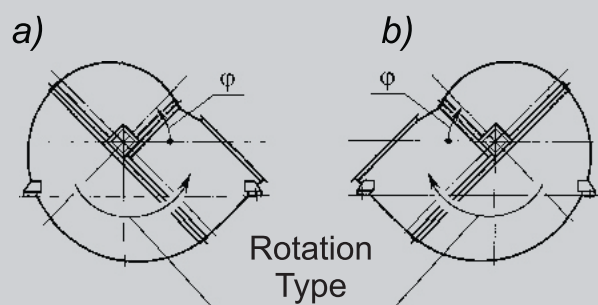


Centrifugal one-side suction smoke extractors of ДН type

One-side suction centrifugal ДН type smoke extractors are designed for removing flue gas from steam boilers with 320 t/h steam capacity and gas and particulate level under 2 g/m³ with abrasivity and sticking parameters close to those of flue ash. Maximum removal process temperature should be under +250°C.

Impeller blades are of flat, backward curved types whereas in ДН31x2ГМ extractor they are airfoil section ones. Gas-mazut boiler smoke extractors have special index "ГМ". IC manufactures left-hand and right-hand extractors. Figure 8 shows layouts for scroll case and inlet boxes of a smoke extractor.



Picture 8. Layout scheme of scroll case of ДН type smoke extractors: a) right-hand extractor; b) left-hand extractor

Technical features of ДН type smoke extractors are shown in Fig. 9 and Table 3



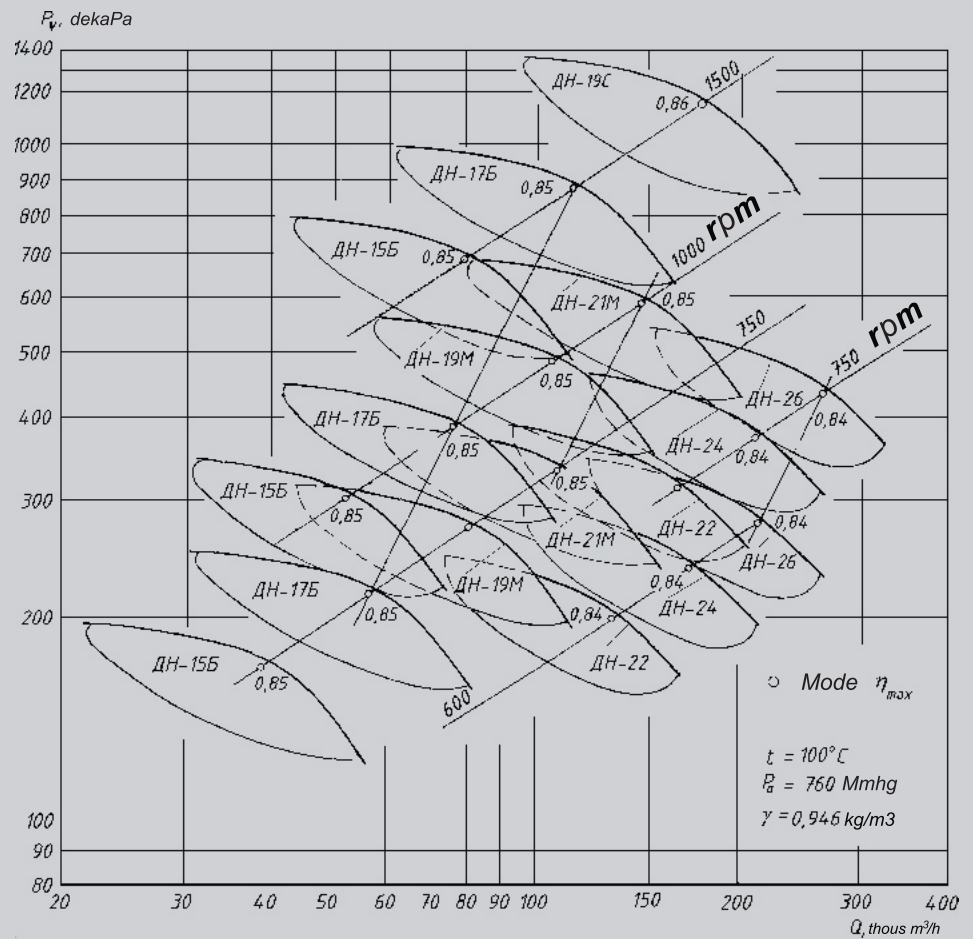


Figure 9. Q - Pv joint features of ДН type extractor

Table 3

№	Smoke extractor type	Rated inlet aerodynamic data under pressure 101300.Pa temperature 100 C and gas density 0,946 kg/m ³			Rotary speed rpm	Weight kg
		Capacity Q, th. m ³ /h	Total pressure P _v , Pa, kgf/m ²	Maximum efficiency η_{max} , %		
1	ДН-12,5БК	45	4870 (496)	85	1500	1313
2	ДН-15БК	77,5	7000 (713)	85	1500	2690
3	ДН-15БКГМ	77,5	7000 (713)	85	1500	2530
4	ДН-15МК	36	7070 (721)	85	1500	2619
5	ДН-17БК	114	9075 (925)	85	1500	3050
6	ДН-17БКГМ	114	9075 (925)	85	1500	2840
7	ДН-19МК	105	4777 (487)	85	1000	4600
8	ДН-19МКГМ	105	4777 (487)	85	1000	4100
9	ДН-19СК	155	11700 (1193)	86	1500	4220
10	ДН-21МК	142	5856 (597)	85	1000	5360
11	ДН-21МКГМ	142	5856 (597)	85	1000	4670
12	ДН-22К	160	3050 (311)	84	750	6750
13	ДН-22КГМ	160	3050 (311)	84	750	5980
14	ДН-22К-1000	220	5750 (586)	84	1000	6290
15	ДН-24К	207	3628 (370)	84	750	7720
16	ДН-24КГМ	207	3628 (370)	84	750	6780
17	ДН-24,3К	257	3247 (331)	84	750	7150
18	ДН-26С	263	4266 (435)	84	750	9030
19	ДН-26СГМ	263	4266 (435)	84	750	7920