

Two-side suction centrifugal smoke extractors of ДНx2 type are designed for removing flue gas from stationary boilers with steam capacity under 480 t/h when particulate level is not more than $2\text{g}/\text{m}^3$. It is possible to use these extractors in non-intrusive gas removal installations (particulate level is not more than $2\text{g}/\text{m}^3$) with abrasivity and sticking parameters close to those of flue gas ash. Maximum removal process temperature should be under $+250^\circ\text{C}$.

Impeller blades are of plate, backward curved types whereas in ДН31x2ГМ they are airfoil-section hollow ones. Gas- mazut boiler smoke extractors have special index "ГМ". Similar smoke extractors designed for gas or solid fuel boilers have similar aerodynamic features.

We produce extractors of left and right rotation. Figure 6 shows layouts for scroll case and inlet boxes of a smoke extractor.

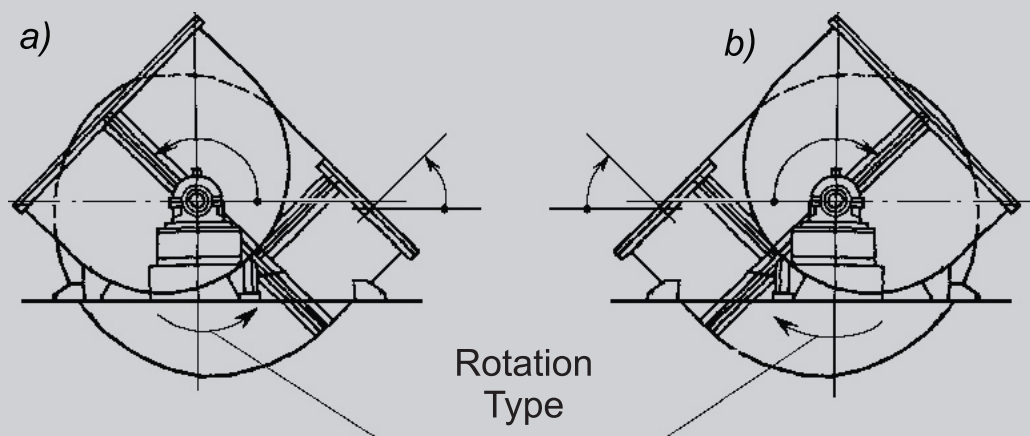


Figure 6. Layout scheme of scroll case and inlet boxes of a ДН type smoke extractor:

a) right-hand extractor; b) left-hand extractor

Table 2

№	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-22x2-0,62К	283	3099 (316)	85	750	16100
2	ДН-22x2-0,62КГМ	283	3099 (316)	85	750	13800
3	ДН-22x2-0,62ПК	283	3400 (347)	85	750	15630
4	ДН-22x2-0,62ПКГМ	283	3400 (347)	85	750	13500
5	ДН-24x2-0,62К	368	3707 (378)	85	750	18300
6	ДН-24x2-0,62КГМ	368	3707 (378)	85	750	15700
7	ДН-26x2-0,62К	467	4334 (442)	85	750	25300
8	ДН-26x2-0,62КГМ	467	4334 (442)	85	750	22100
9	ДН-26x2-0,62ПК	467	4850 (494)	85	750	24850
10	ДН-26x2-0,62ПКГМ	467	4850 (494)	85	750	21750
11	ДН-28,8x2-0,936К	870	4900 (499)	84	750	32832
12	ДН-31x2ГМ	727	6760 (645)	87	750	25762
13	ДН-38x2	1380	9600 (978)	85	750	64350
14	ДН-38x2ГМ	1380	9600 (1000)	85	750	61330