

High-pressure one-side and two-side suction centrifugal smoke extractors of  $\Delta$  and  $\Delta \times 2$  type are designed for removing flue gas from stationary boilers with 640 t/h steam capacity when particulate level is not more than 2g/m<sup>3</sup>. It is possible to use these extractors in non-intrusive gas removal installations (particulate level not more than 2g/m<sup>3</sup>) with abrasivity features not higher than those of flue gas ash.

Maximum removal process temperature should be under +250°C. Impeller blades are of flat, forward-curved type. All the installation parameters of  $\Delta$  and  $\Delta \times 2$  are successive with all the earlier manufactured products.

These extractors are of left and right-hand rotation. Figures 6 and 8 show layouts for scroll case and inlet boxes of a smoke extractor. Technical features of smoke extractors are given in Fig. 11 and Table 5.

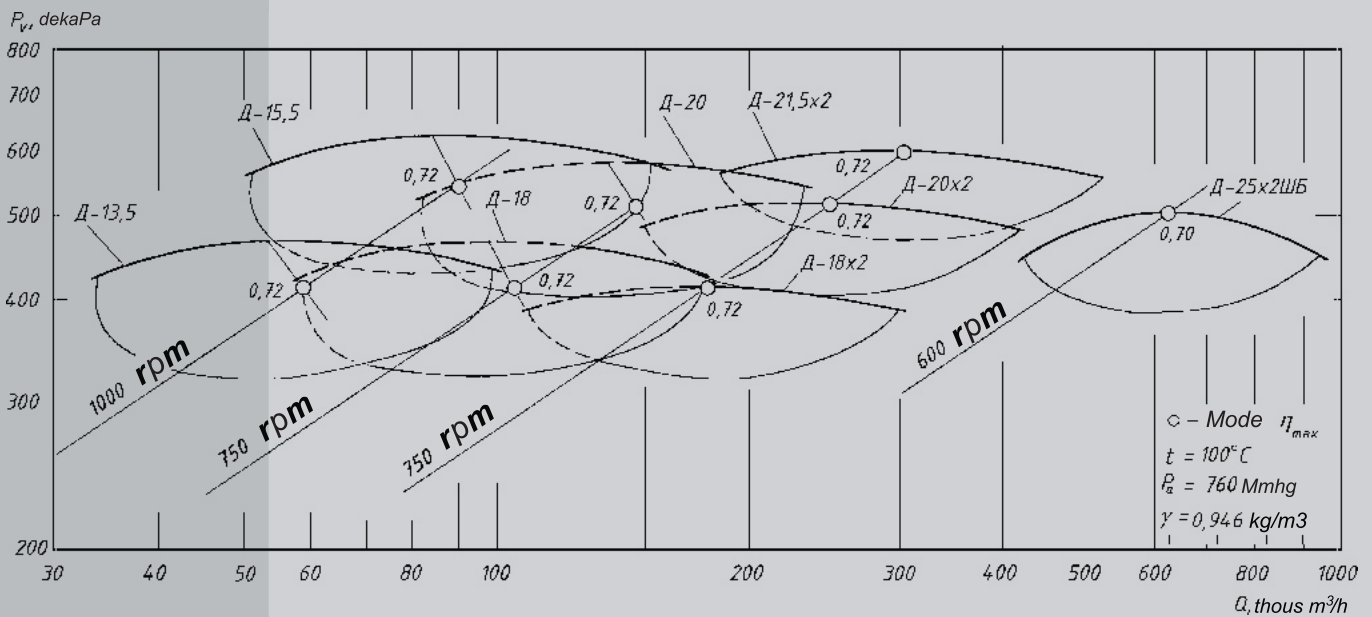


Figure 11. Joint features of  $\Delta$  and  $\Delta \times 2$  type smoke extractors. Recommended scope of selection

Table 5

№	Product type	Rated inlet aerodynamic data under pressure 101300, Pa temperature 100 C and gas density 0,946 kg/m <sup>3</sup> at the point of entry			Rotary speed rpm	Weight kg
		Capacity Q, th, m <sup>3</sup> /h	Total pressure P <sub>v</sub> , Pa, kgf/m <sup>2</sup>	Maximum efficiency $\eta_{max}$ , %		
1	Д-13,5x2УК	105	3100 (316)	70	1000	4400
2	Д-15,5x2УК	110	2403 (245)	70	750	5109
3	Д-18x2БК	191	3280 (334)	72	750	9105
4	Д-18x2БКГМ	191	3280 (334)	72	750	7758
5	Д-20x2БК	262	4095 (417)	72	750	10640
6	Д-20x2БКГМ	262	4095 (417)	72	750	9066
7	Д-21,5x2БК	327,5	4707 (480)	72	750	11740
8	Д-21,5x2БКГМ	327,5	4707 (480)	72	750	10265
9	Д-25x2ШБК	650	4900 (500)	68	600	23080
10	Д-25x2ШБКГМ	650	4900 (500)	68	600	20830
11	Д-13,5К	59	4050 (413)	72	1000	2250
12	Д-13,5КГМ	59	4050 (413)	72	1000	2170
13	Д-15,5К	90	5350 (545)	72	1000	2450
14	Д-15,5КГМ	90	5350 (545)	72	1000	2340
15	Д-18К	105	4000 (408)	72	750	4260
16	Д-18КГМ	105	4000 (408)	72	750	4000
17	Д-20К	137,08	4649 (474)	72	750	4780
18	Д-20КГМ	137,08	4649 (474)	72	750	4270