

DJ 小孔降压 系列消声器 GFZ 风机阻性

DJ SERIES MUFFLERS WITH SMALL HOLES-PRESSURE LOSS
GFZ SREIES MUFFLERS WITH SOUND-ABSORBING MATERIAL INSIDE



内蒙古鸿承电力科技设备有限公司

Inner Mogolia Hongcheng Technology Equipment of Electric Power Co.,ltd



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DJ 系列小孔降压消声器

DJ 系列小孔降压消声器系九十年代研制、开发的新一代降噪专利产品 (专利号: ZL 95 2 40838.4)。它根据小孔降压消声的原理, 采用优化设计, 其降噪指标、安全性能和使用寿命远优于目前市场上同类产品, 可更好地满足电力、冶金、石油、化工、纺织、造纸、食品等工业的低压、中压、次高压、高压、超高压、亚临界、超临界等参数的各种锅炉、压力容器管道排汽 (气) 放空及其安全阀、释放阀排汽 (气) 的降噪需要。与国内、外同类产品相比, 本系列小孔降压消声器具有以下独特优点:

- (1) 消声量大。DJP 子系列达 32 ~ 38dB(A), DJA 子系列达 25dB(A)(均已考虑指向性修正);
- (2) 体小质轻, 毋须设置特定支座, 安装方便;
- (3) 结构简洁、合理, 检修、维护工作量很小;
- (4) 整体全钢结构, 无阻性吸声材料, 故消声效果稳定、持久, 使用寿命长。

特别说明: 安装 DJA 子系列消声器后, 安全阀、释放阀的排量不受影响, 启跳、回座压力亦不受影响。

Directions For DJ Series Exhaust Mufflers With Structure Of Small Holes-Pressure Loss

DJ series exhaust mufflers, with a structure of small holes-pressure loss, are new generation of noise reduction patent products, which were designed and developed by the optimization method in the 1990s (the patent No. ZL 95 2 40838.4). They are made according to the principle of the pressure loss when the steam goes through the structure of small holes. The functions of DJ series are superior to those of similar products on the markets, (including noise reduction index, safety performance, and life span) They meet the needs of noise reduction when the steam blows off from the exhaust pipes or safety valves or release valves of various boilers and pressure vessel (such as lower pressure, middle pressure, subhigh pressure, high pressure, superhigh pressure, subcritical pressure and supercritical ones). They are widely used in industries of electric power, metallurgy, petroleum, chemicals, textiles, paper-making and food-processing etc. As compared with domestic and foreign mufflers, they have many special advantages as follows:

- (1) High efficiency of noise reduction. To DJP subseries, noise reduction can reach as high as 32~38dB(A). To DJA subseries, it can reach as high as 25 dB(A). (The magnitude of directional revision has been taken into consideration on both of these two subseries)
- (2) Light in weight and small in size, easy to mount. No special foundation is required for installation.
- (3) Simple structure. The amount of work for maintenance and repair will be very little.
- (4) Steel-made. There is no sound-absorbing materials in mufflers. Stable effect on noise reduction and long life span can be expected.

Special Explanation: No effect on the displacement and opening pressure and reseating pressure of the safety valve & release valve after DJA subseries mufflers are installed.

经国内、国际科技情报联网检索, DJ 系列小孔降压消声器属国内、国际首创

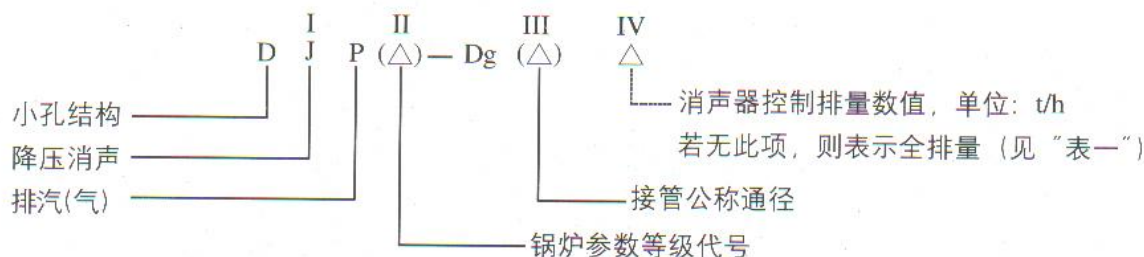
It has been proved by searching through the international information network, that DJ series mufflers with a structure of large holes-pressure loss are a new invention and still not known worldwide.



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◆ 型号编制



D: 低压; Zh: 中压; C: 次高压; G: 高压; Ch: 超高压; Y: 亚临界; Z: 再热器

◆ Compiling Regulation of Type

I D-Structure with small hole J-Noise reduction by pressure loss P-Exhaust steam

II Code for parameter classes of boiler

D: lower pressure, Zh: middle pressure, C: subhigh pressure, G: high pressure, Ch: superhigh pressure, Y: subcritical pressure, Z: reheater

III Nominal diameter of connecting pipe

IV Magnitude of controlled displacement, unit: t/h [If this value is not printed, it is the design displacement (see table 1)]

示例: 以下两种型号 DJP 消声器, 均可用于某高压锅炉。其中: “DJP(G)-Dg100” 型, 其设计全排量为 138t/h (见表一);

“DJP(G)-Dg100-80” 型, 其控制排量为 80t/h (客户要求的排量)。

Example: Both “DJP(G)-Dg100” and “DJP(G)-Dg100-80” can be used on high pressure boilers. The designed displacement of the former is 138t/h (see table 1). And to the latter, the magnitude of controlled displacement is 80t/h (ordered by customers).

◆ 订货说明

1. 凡锅炉参数, 接管规格, 材质符合, 客户可据“表一”自行选型;
2. 特殊 DJP 子系列汽轮机排汽、抽汽和各类疏水的排汽(气)消声器未在“表一”列出, 我厂可应客户要求设计、供货。

◆ Directions For Order

1. If the parameters of boiler, specifications of connecting pipe and materials used are same with the table 1, customers can make choice of suitable mufflers from table 1.
2. Special specifications of DJP subseries mufflers (including those for the use of turbine exhaust, turbine extraction and many sorts of exhaust of the drain system), which are not listed in the table 1, our factory can design and supply these in accordance with the requests of customers.

◆ 特殊服务

“表一”、“表二”未列的特殊规格 DJ 系列消声器 (包括不同介质、参数、排量和接管规格、材质), 我厂可应客户要求特殊设计、供货, 不另收设计费。

◆ Special Services

Special specification of DJ series mufflers (including different medium, parameter, displacement, specifications and material of connecting pipe), which are not listed in the table 1 and table 2, are available. Our factory can design and supply these in accordance with the requests of customers. All these series are free of charge for design.



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表一：DJP 子系列小孔降压消声器主要产品规格特性表

Table 1 Specifications and Characteristics of DJP Subseries Mufflers Major Models

序号 serial number	型 号 model	适用锅炉参数 suitable parameters of boiler				消声器特征 characteristics of muffler				接管规格、材质 specification & material of connecting pipe	
		类别 classification	压力 pressure Mpa	温度 temperature ℃	容量 capacity t/h	设计全排量* design displacement t/h	消声量** noise reduction dB(A)	总 长 total height mm	最大直径 maximum diameter mm	规 格 specification mm × mm	材质 material
1	DJP(D)-Dg50	低压 lower	1.27	340		5.5	36.0	998		ø57 × 3.0	#10 或 #20 #10 or #20
2	DJP(D)-Dg80					15.0	37.0	1335		ø89 × 3.5	
3	DJP(D)-Dg100					22.5	37.0	1642		ø108 × 4.0	
4	DJP(D)-Dg125					36.0	37.5	2232		ø133 × 4.0	
5	DJP(Zh)-Dg50	中压 middle	3.82	450	35	11	36.0	1200	ø325	ø57 × 3.0	#20
6	DJP(Zh)-Dg65				65.75	21	36.5	1518		ø76 × 3.5	
7	DJP(Zh)-Dg80				130	28	37.5	1760		ø89 × 4.5	
8	DJP(Zh)-Dg100				130	44	37.5	2292		ø108 × 4.5	
9	DJP(C)-Dg50	次高压 subhigh	5.30	540	35	13	38.0	1248		ø57 × 5.0	#20
10	DJP(C)-Dg65				65.75	23	38.0	1583		ø76 × 7.0	
11	DJP(C)-Dg80				130	32	38.0	1890		ø89 × 8.0	
12	DJP(C)-Dg100				130	47	38.0	2404		ø108 × 10	
13	DJP(G)-Dg100	高压 high	9.81	540	220,410	138	32.0	3012	ø530	ø133 × 10	12Cr1Mov
14	DJP(Ch)-Dg100	超高压 superhigh	13.73	555	400	168	33.5	3428		ø133 × 14	
15	DJP(Y)-Dg100	亚临界 subcritical	18.2	540	1025	175	34.5	3508		ø133 × 18	
16	DJP(Z)-Dg125	再热器 reheater	< 3.82	555	400	< 63	27.5	1908		ø133 × 5.0	

注： * “设计全排量”：系按通常考虑（管系长度 8 ~ 10m，两个截止阀和两个 90° 弯头），在公称口径 Dg 和公称压力 Pg 情况下（不控制流量）的全排量；[如客户不需全排量，请参照上表，在相应的消声器型号尾部加一短横，然后填上所要求的排量数值（单位：t/h）—详见“型号编制”]；

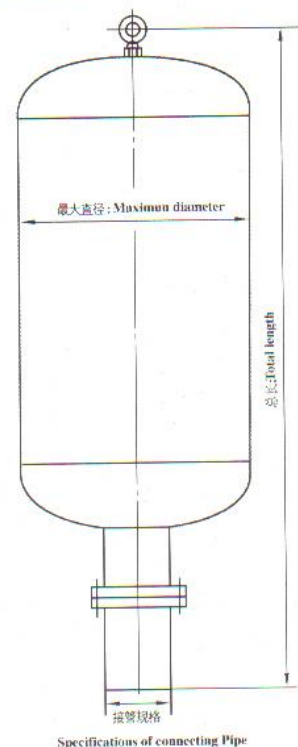
* * “消声量”：系全排量情况下的消声量（本产品已考虑指向性修正）

Notes: * “Design displacement”:the whole displacement under usual condition (total length of the exhaust pipes:8 ~ 10m,two stop valves and two 90°elbows, nominal diameter Dg and nominal pressure Pg,the displacement of exhaust pipe not be controlled)[If customers don't need whole displacement, please add a hyphen at the end of the model referring to table 1,and then write down the required numerical value of displacement(unith:t/h-see “Compiling Regulation of Type” for details]

* * “Noise reduction”:the noise reduction under the whole displacement (The magnitude of directional revision has been taken into consideration).

DJP 子系列小孔降压消声器示意图

The sketch of DJP subseries mufflers





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表二: DJA 子系列小孔降压消声器主要产品规格特性表

Table 2 Specifications and Characteristics of DJA Subseries Mufflers Major Models

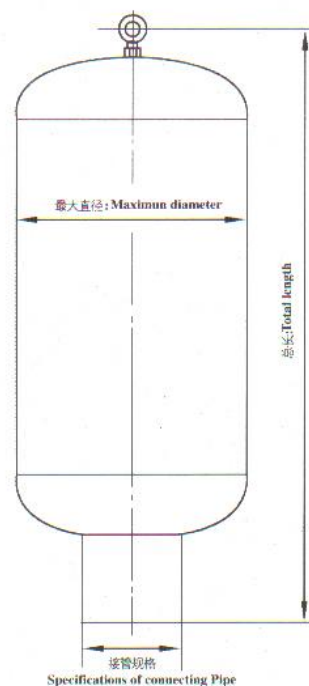
序号 serial number	型 号 model	适用锅炉参数 suitable parameters of boiler			消声器特征 characteristics of muffler		备 注 remarks
		压 力 pressure	温 度 temperature	容 量 capacity	设计全排量 * design displacement	消声量 * noise reduction	
		Mpa	℃	t/h	t/h	dB(A)	
1	DJA-450/5.62-φ159 × 4.5-54C	5.30	450	130	54		主蒸汽安全阀 main steam safety valve
2	DJA-540/10.59-φ168 × 7-65C				65		
3	DJA-540/10.59-φ194 × 7-85C	9.81	540	220	85		
4	DJA-540/10.59-φ159 × 7-133			410	133		
5	DJA-555/14.83-φ219 × 10-127C		555	400	127		
6	DJA-540/14.83-φ133 × 14-161			420	161		再热器热端安全阀 safety valve of the hot end of the reheater
7	DJA-540/14.83-φ168 × 7-121	13.73			121		
8	DJA-540/2.48-φ325 × 8-106		540	670	106		
9	DJA-316/2.18-φ325 × 8-150C				150		
10	DJA-369/21.24-φ325 × 8-263C				263		
11	DJA-540/19.28-φ325 × 8-139C				139		汽包安全阀 drum safety valve
12	DJA-540/19.05-φ325 × 8-144C	18.2	540	1025	144		主蒸汽安全阀 main steam safety valve
13	DJA-540/4.21-φ377 × 9-183				183		动力释放阀 electromagnetic release valve
14	DJA-343/4.44-φ377 × 9-230C				230		再热器热端安全阀 safety valve of the hot end of the reheater
							再热器冷端安全阀 safety valve of the cold end of the reheater

注: * “设计全排量”:通常为安全阀、释放阀铭牌(标称)排量的1.15倍。

* * “消声量”:本产品已考虑指向性修正。

Notes: * “Design displacement”:usually 1.15 times the nameplate displacement of the safety valve or release valve.

* * “Noise reduction”:the magnitude of directional revision has been taken into consideration.



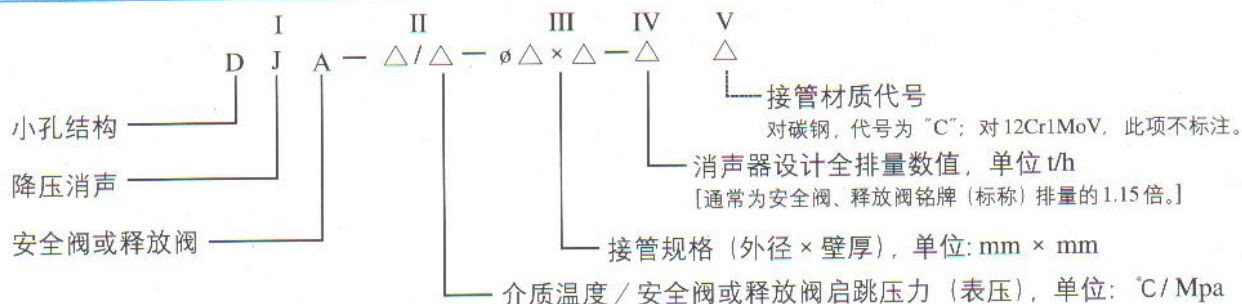
DJA 子系列小孔降压消声器示意图
The sketch of DJA subseries mufflers



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◆ 型号编制



◆ Compiling Regulation of Type

I D-Structure with large hole J-Noise reduction by pressure loss A-Safety valve or release valve

II Medium temperature/opening pressure of safety valve or release valve (gauge pressure), unit: °C/Mpa

III Connecting pipe specifications (outside diameter × radial thickness), unit: mm × mm

IV The design displacement of muffler, unit: t/h (usually 1.15 times the nameplate displacement of the safety valve or release valve)

V Connecting pipe material code

The code is "C" if the material is carbon steel. No code is printed if the material is 12Cr1MoV.

◆ 订货说明

由于安全阀、释放阀型号繁多, 管系设计不尽相同, 为使 DJA 子系列消声器能与管系匹配, 并保证体现其优点, 请客户提供下列资料:

1. 安全阀、释放阀的铭牌 (标称) 排量、启跳压力 (表压), 介质温度;

2. 安全阀、释放阀排汽 (气) 管系图或管系长度、弯头规格及其数量; 排汽 (气) 管规格 (外径 × 壁厚) 和材质;

特别说明:

安全阀、释放阀排汽 (气) 管系如采用疏水盘 (承插) 结构形成, 疏水盘间隙处会传出噪声。为此, 该间隙宜以钢板加柔性材料堵塞, 有效阻隔该处噪声的逸出。

◆ Directions for order

Because there are so many models of safety valves and release valves, the designs of exhaust piping systems are all quite different, in order to make DJA subseries mufflers match the piping systems and embody their advantages, it is necessary for customers to offer following information:

1. Nameplate displacement and opening pressure of the safety valve or release valve, medium temperature.

2. Exhaust-piping system drawings (or total length of pipes, elbow specifications and the number of them); specifications of exhaust pipes (outside diameter × radial thickness) and materials used.

Special Explanation:

For piping system of the safety valve and release valve equipped with drip pan fitting (i.e. spigot -and -socket joint), noise will be transmitted from the clearance between drip pan and vent pipe, accordingly, the clearance should be blocked with a steel plate and flexible materials, so as to avoid noise-escaping efficaciously.

欢迎选用 DJ 系列小孔降压消声器, 谢谢!
SELECT DJ SERIES MUFFLERS, PLEASE. THANKS!



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◆ GFZ 系列风机消声器

GFZ系列消声器是依据风机噪声频谱,采用阻性吸声原理设计、制造的新一代降噪产品。它主要用于降低65t/h、75t/h、130t/h、220t/h、410t/h、400t/h、420t/h、670t/h、1025t/h、2008t/h等容量电站锅炉送风机进口侧的空气动力性噪声,同时也可广泛用于冶金、石油、化工、纺织、造纸、食品等其它工业部门。

GFZ系列消声器采用优化设计,结构合理,指标先进,除具有安装方便、使用寿命长、维护工作量小等特点外,还具有消声量大[大于25dB(A)]、消声频带宽、再生噪声低[较市场同类产品低2.5dB(A)]、阻力损失小(仅为市场同类产品的83%)等突出优点,并能方便消除消声器内部的积灰。

◆ Directions For GFZ Series Mufflers

GFZ series mufflers with sound-absorbing material inside, are new generation of noise reduction products, which are designed and manufactured on the basis of the noise spectra of blowers. They are suitable for reducing the aerodynamic noise at the inlet of boiler blower used in power plants with the boiler capacity of 65t/h, 75t/h, 130t/h, 220t/h, 410t/h, 400t/h, 420t/h, 670t/h, 1025t/h, 2008t/h etc. They can also be used extensively in other industries such as metallurgy, petroleum, chemicals, textiles, paper-making, and food-processing etc.

GFZ series mufflers are designed with optimization, so they have reasonable construction and advanced quality indexes. They are characterized by convenient mounting, long life span, less amount of work for maintenance etc. Furthermore, they have also some outstanding advantages such as more noise attenuation [greater than 25dB(A)], wider frequency range of noise reduction, lower self-flow noise [2.5dB(A) less than that of similar products on markets], less pressure loss [it is merely 83% of that of similar products on markets], and convenience of eliminating deposited dust inside mufflers.

表一: GFZ 系列风机消声器选用性能表

Table 1 Characteristics of GFZ Series Mufflers for Choice

序号 serial number	型 号 model	锅炉容量 boiler capacity t/h	装机容量 installed capacity MW	设计风量 design air supply Nm ³ /h	β^{**}	消声器内风速 air speed inside muffler m/s	再生噪声 self-flow noise dB(A)	阻 力 resistance Pa
1	GFZ-1.4 × 1.2	65	12	5.67×10^4	1.1	20.91	74.22	233
2	GFZ-1.4 × 1.4	75	12	6.54×10^4		17.90	70.17	171
3	GFZ-1.6 × 1.4	130	25	1.13×10^5		20.65	73.89	228
4	GFZ-1.8 × 1.8					17.94	70.22	172
5	GFZ-2.0 × 1.8					20.34	73.51	221
6	GFZ-2.0 × 1.8					18.31	70.76	179

注: * 上表适用于一台锅炉配一台风机。

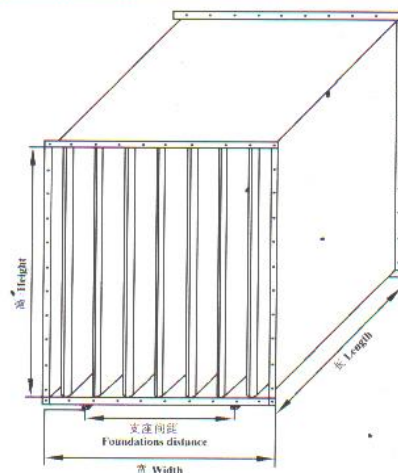
* * $\beta=1+\Delta\beta$, $\Delta\beta$: 空气预热器漏风率。管式空气预热器: $\Delta\beta=0.1$ 。

Notes: * This table is suitable for the case of one boiler with one blower.

* * $\beta=1+\Delta\beta$, $\Delta\beta$: ratio of air leak of air preheater. For tubular air preheater, $\Delta\beta=0.1$.

GFZ 系列风机消声器示意图

The sketch of GFZ series mufflers





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表二：GFZ 系列风机消声器选用性能表

Table 2 Characteristics of GFZ Series Mufflers for Choice

序号 serial number	型 号 model	锅炉容量 boiler capacity	装机容量 installed capacity	设计风量 designed air supply	β^{**}	50% 负荷 load			70% 负荷 load		
						消声器内风速 air speed inside muffler	再生噪声 self-flow noise	阻 力 resistance	消声器内风速 air speed inside muffler	再生噪声 self-flow noise	阻 力 resistance
						m/s	dB(A)	Pa	m/s	dB(A)	Pa
1	GFZ-2.0 × 1.8	220	50	2.31×10^5	1.1	18.71/20.42	71.33/73.60	187/222	26.20/28.58	80.10/82.37	366/436
2	GFZ-2.0 × 2.0					16.83/18.36	68.57/70.84	151/180	23.57/25.71	77.34/79.61	296/353
3	GFZ-2.6 × 2.6	410	100	4.13×10^5	1.1	18.28/19.94	70.71/72.98	178/212	25.59/27.91	79.48/81.75	349/416
4	GFZ-2.8 × 2.6					16.46/17.96	67.99/70.26	145/172	23.05/25.15	76.76/79.03	284/337
5	GFZ-2.8 × 2.8	400	125	4.61×10^5	1.2	18.38/20.05	70.86/73.13	180/215	25.73/28.07	79.63/81.89	353/420
6	GFZ-2.8 × 2.8					17.06/18.61	68.92/71.19	155/185	23.89/26.06	77.69/79.96	304/362
7	GFZ-4.0 × 3.0	670	200	7.41×10^5	1.2	18.58/20.27	71.14/73.41	184/219	26.01/28.37	79.91/82.17	361/430
8	GFZ-4.5 × 4.0					18.05/19.69	70.39/72.65	174/207	25.27/27.57	79.16/81.42	341/406
9	GFZ-6.0 × 3.0	1025	300	1.086×10^6		17.51/19.10	69.59/71.86	164/195	24.51/26.74	78.36/80.63	321/382

注： * 上表适用于一台锅炉配两台风机。正常运行时，一台风机带 50% 全负荷；如单台风机运行，燃煤带 70% 全负荷；均请参考上表。如锅炉厂采用新技术，在燃煤情况下能维持 70% 全负荷以下，如参照上表补插选用。

* * $\beta=1+\Delta\beta$, $\Delta\beta$: 空气预热器漏风率。其中，管式空气预热器: $\Delta\beta=0.1$; 回转空气预热器: $\Delta\beta=0.2$ 。

Notes: * This table is suitable for the case of one boiler with two blowers. When operating normally, each blower runs with 50% of full load; in case of that the boiler burning coal runs with only one blower, the blower runs with 70% of full load the table is referable in each case. If new techniques are used in a boiler manufacturer, and less than 70% of full load can be kept in the case of burning coal, interpolation and choice can be made by referring table 2.

* * $\beta=1+\Delta\beta$, $\Delta\beta$: ratio of air leak of air preheater. For tubular air preheater, $\Delta\beta=0.1$; and for rotary one, $\Delta\beta=0.2$ 。

◆ 型号编制

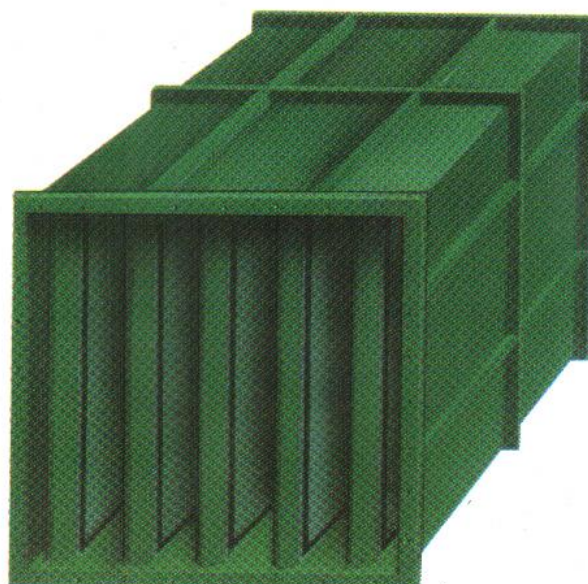
I II
G F Z- $\Delta \times \Delta$
└───┴───┘
风道公称口径 (宽 × 高), 单位: m × m
型式代号。G: 锅炉, F: 方形, Z: 阻性吸声

◆ Compiling Regulation of Type

I Nominal dimensions of wind tunnel (width × height), unit: m × m

II Type code. G: boiler, F: rectangle, Z: sound-absorbing material

GFZ 系列风机消声器
GFZ Series mufflers





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Inner Mongolia Hongcheng Technology Equipment of Electric Power Co., Ltd

◆ 订货说明

为确保 GFZ 系列消声器与风机达到最佳匹配，具有良好的消声效果，请客户提供下列资料：

1. 风机的噪声频谱，或风机型号、铭牌参数（转速、叶片数、风量、风压）；
2. 锅炉容量；风道接口尺寸；通过消声器的最大工作风量；允许阻力；
3. 消声器的布置方式和支座间距。

另外，还可应客户要求，设计专门的清灰孔，方便清除消声器通道底部的积灰。

◆ Directions for order

In order to ensure the optimum matching between a GFZ muffler and a blower, and to get good result of noise reduction it is necessary for customers to offer following information:

1. Noise spectra of blowers, or blower type and nameplate parameters (rotational speed, number of blades, air supply, wind pressure).
2. Boiler capacity; joint dimensions of wind tunnel; the maximum operational air supply blown through the muffler; permitted resistance.
3. Arrangement and foundations distance of the muffler.

In addition, according to customer's requests, a hole for eliminating dust can be specially designed in order to eliminate the deposited dust at the bottom of muffler tunnel conveniently.

◆ 特别说明

鉴于 GFZ 系列消声器的构造特点，建议卧式布置，即消声器的进、出口在同一水平位置。如需立式布置，请客户于订货时申明，以便设计、制造时考虑。

◆ Special Explanation

Due to the structural features of GFZ series mufflers, we propose that the arrangement is horizontal, i.e. the inlet and outlet of the muffler are arranged horizontally. If a vertical arrangement is needed, please to make a statement when you place an order in order that some consideration is made when design and manufacture.

◆ 特殊服务

1. 其它特殊规格 GFZ 系列消声器，我厂可应客户要求特殊设计、供货，不另收设计费；
2. 我厂还可应客户要求供应联接法兰、变径风道、防雨罩及格栅等配套产品。

◆ Special Services

1. Special specifications of GFZ series mufflers are available. Our factory can design and supply these in accordance with the requests of customers. All these are free of charge for design.
2. Our factory can also supply accessories such as connecting flanges, wind tunnels with variable sections, rain shields and air grills etc. in accordance with customer's requests.

欢迎选用 GFZ 系列风机消声器，谢谢！

SELECT GFZ SERIES MUFLERS, PLEASE. THANKS!



内蒙古鸿承电力科技设备有限公司

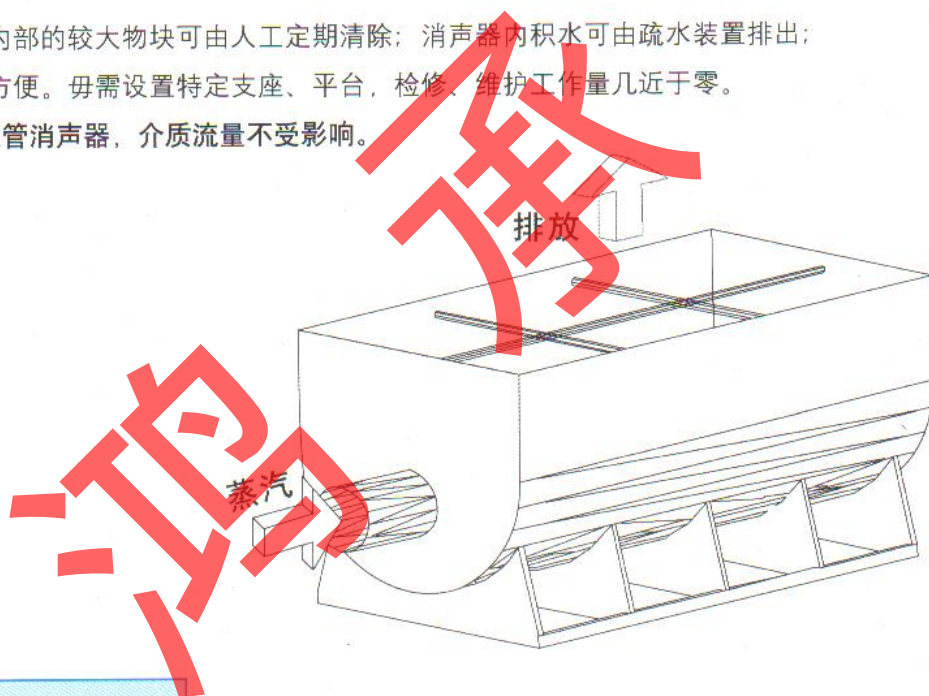
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◆ 吹管消声器

DJCh子系列吹管消声器系九十年代中期以来研制、开发的降噪产品属DJ系列大孔降压消声器的一个子系列。它根据大孔降压消声的原理，采用优化设计，广泛适用于电力、冶金、石油、化工、轻纺等工业各等级参数锅炉、压力容器的蒸汽热力管网、化工气体管网汽（气）体吹洗的降噪需要。

◆ 产品特点

- (1) 消声量大，达 35dB(A)及以上；
 - (2) 大孔结构，锈皮、焊渣等杂物可直接由大孔排出，而不会造成堵塞；
 - (3) 设计新颖，结构合理，吹洗介质向上排放，地面污染面积小；
 - (4) 整体全钢结构，内部无吸声材料，能够承受高速汽（气）流和杂物的冲击，并可重复使用，消声效果稳定、持久、使用成本低；
 - (5) 管网吹至消声器内部的较大物块可由人工定期清除；消声器内积水可由疏水装置排出；
 - (6) 安全可靠，使用方便。毋需设置特定支座、平台，检修、维护工作量几近于零。
- 特别说明：使用本吹管消声器，介质流量不受影响。



◆ 订货说明

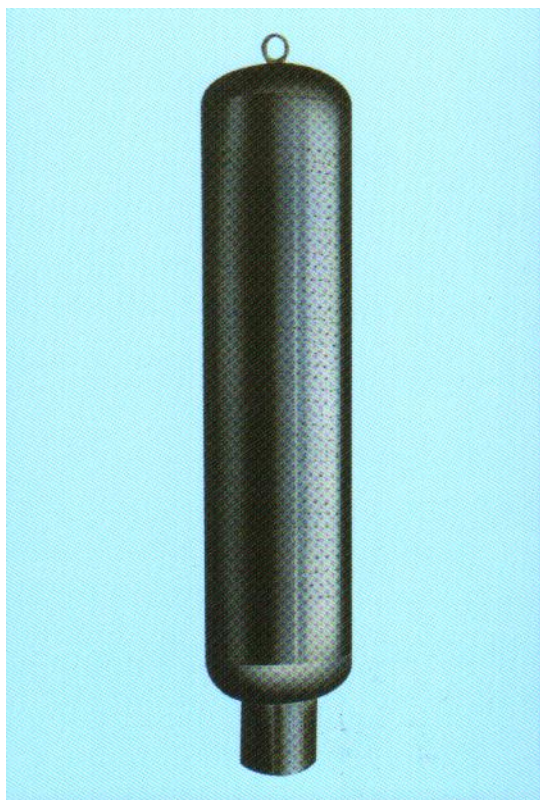
对 300MW 及以下锅炉机组吹管，用一台吹管消声器即可满足需要；

对 600MW 锅炉机组吹管，须二台吹管消声器同时使用；

吹管介质参数：5Mpa、400℃，最高：6Mpa、450℃。

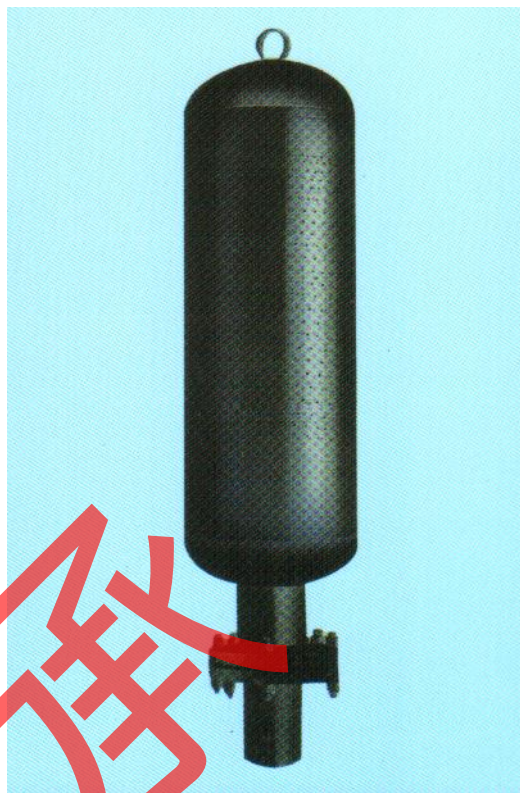
对其它蒸汽热力管网、化工气体管网的吹洗，在介质参数不高于上述“吹管介质参数”、临时管道尺寸为 $\phi 750 \times 10$ 吋，用本吹管消声器可满足需要；

另外，对特殊介质参数及其它临时管道尺寸等，我厂可免费专门设计，特殊供货。



DJP 子系列消音器

DJP Subseries mufflers



DJA 子系列消音器

DJA Subseries mufflers

内蒙古鸿承电力科技设备有限公司

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