

BYD case -- kengzi branch

Project nature and name

Engineering property: kengzi byd phase ii
Project name: kengzi branch exhaust gas treatment project

Project site

Project location: shenzhen

Project background

The company's business scope includes domestic and foreign vehicle parts supporting business, lithium battery processing produces a large number of dust particles, non-methane total hydrocarbons and other harmful substances. The exhaust gas has a pungent smell and is slightly toxic. Such exhaust gas not only damages the health of operators, but also causes serious pollution to the surrounding environment. In order to protect the health of production personnel and protect the environment, waste gas must be treated.

Commissioned by the company, according to our years of experience in treating similar waste gas, in line with a serious and responsible attitude, we hereby put forward the following design process: "swirl spray tower" + "activated carbon adsorption technology". It is expected that after treatment, the waste gas can be discharged up to standard after treatment, and the operating cost can be reduced.

Design basis

- (1) environmental protection law of the People's Republic of China;
- (2) emission standards for waste gas and pollutants (gb14554-93);
- (3) comprehensive emission standards for air pollutants (gb16297-1996);
- (4) the maximum allowable emission concentration in the second period of guangdong province's local emission standard "emission limits of air pollutants" (db4427-2001);
- (5) guangdong provincial standard db44/814-2010
- (6) code for power supply and distribution system design gb50052-2009;
- (7) noise standards for industrial enterprises (12348-2008);
- (8) code for design of building water supply and drainage;
- (9) basic materials such as the eia report and site layout provided by the construction party.

List of main equipment and materials

BYD laboratory ventilation system

NO.	Description of goods	Size	Unit
P5 system			
1	PP flame retardant tube	1000*500*5T	M
2	PP flame retardant tube	1000*500*5T	M
3	PP flame retardant tube	1000*500*5T	M
4	PP flame retardant 45 ° elbow	1000*500*5T	PCS
5	PP flame retardant 90 ° elbow	1000*500*5T	PCS
6	PP flame retardant silencer box	1500*1200*1200*8T	PCS
7	PP flame retardant tube size head	1000*500-900*500*5T	PCS
8	PP flame retardant tube	900*500*5T	M
9	PP flame retardant tube size head	900*500-800*500*5T	PCS
10	PP flame retardant tube	800*500*5T	M
11	PP flame retardant tube size head	800*500-700*500*5T	PCS
12	PP flame retardant tube	700*400*5T	M
13	PP flame retardant tube size head	700*400-400*400*5T	PCS
14	PP flame retardant tube	600*400*5T	M
15	PP flame retardant tube	400*400*5T	M
Square tube combined			
16	PP flame retardant tube	315	M
17	PP flame retardant tube directly	315	PCS
18	PP flame retardant tube	250	M
19	PP flame retardant tube directly	250	PCS
20	PP flame retardant 45 ° elbow	250	PCS
21	PP flame retardant 90 ° elbow	250	PCS
22	PP flame retardant electric control valve	250	PCS
23	PP flame retardant electric control valve	250	PCS
24	PP flame retardant electric control valve	315	PCS
25	PP flame retardant electric control valve	315	PCS
26	PP flame retardant 90 ° elbow	315	PCS

Circular tube combined			
P4 system			
1	PP flame retardant tube	700+400+5T	M
2	PP flame retardant tube	700*400*5T	M
3	PP flame retardant tube	700*400*5T	M
4	PP flame retardant 45 ° elbow	700*400*5T	PCS
5	PP flame retardant 90 ° elbow	700*400*5T	PCS
6	PP flame retardant silencer box	1200*1000*1100*8T	PCS
7	PP flame retardant tube size head	700*400-600*400*5T	PCS
8	PP flame retardant tube	600*400*5T	M
9	PP flame retardant tube size head	600*400-500*400*5T	PCS
10	PP flame retardant tube	500*400*5T	M
11	PP flame retardant tube size head	500*400-400*400*5T	PCS

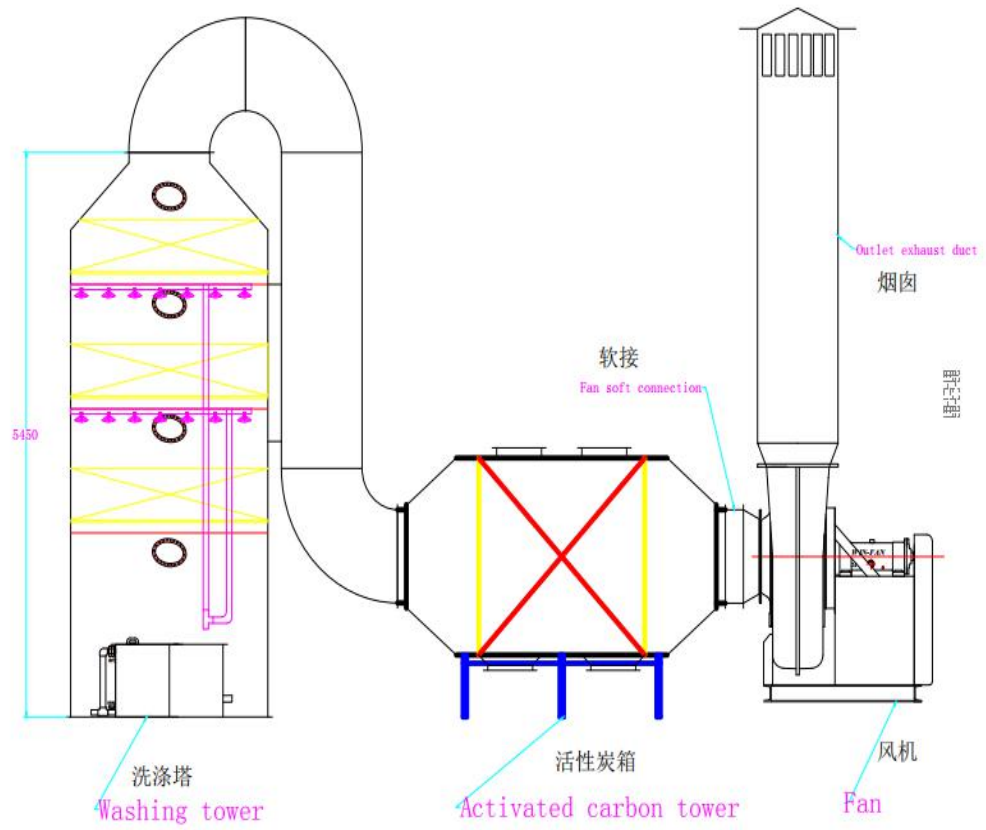
12	PP flame retardant tube	400*400*5T	M
13	PP flame retardant tube size head	400*400-315*5T	PCS

Square tube combined			
14	PP flame retardant tube	315	M
15	PP flame retardant tube directly	315	PCS
16	PP flame retardant tube	250	M
17	PP flame retardant tube directly	250	PCS
18	PP flame retardant tube	200	M
19	PP flame retardant tube directly	200	PCS
20	PP flame retardant tube	160	M

Circular tube combined			
P6 system			
1	PP flame retardant silencer box	1000*800*600*8T	PCS
2	PP flame retardant tube	250	M
3	PP flame retardant tube directly	250	PCS
4	PP flame retardant tube size head	250-200	PCS
5	PP flame retardant tube	200	M
6	PP flame retardant tube directly	200	PCS
7	PP flame retardant tube	160	M

NO.	Description of goods	Size	Unit
P1 system			
1	Explosion proof glass sodium centrifugal fan	1. Model no. : bf4-72-8c 2. Performance parameters: 13643-in fengli Circle 600-800 of 25297m ³ /h enigma tuyere Diameter can be fan cap with the size of the outlet	PCS
2	Anti - corrosion FRP centri fugal fan	1. Model: BLF4-72-6 - a 2. Performance parameters: in the air 6840-12720m ³ /h draught circle 500-700 caliber can vary with the outlet size of the fan	PCS
3	Anti - corrosion FRP centri fugal fan	1. Model: BLF4-72-4 a 2. Performance parameters: air 12020-4020m ³ /h air inlet circle 315-400 caliber can be the cap with the size of the fan outlet	PCS
4	Damping spring	80-100KG	PCS
5	Damping spring	30-50KG	PCS
6	Canvas soft pick up	2000*1000*3	m ²
7	Flame retardant PP board	51/61*1500*3000	PCS
8	Flame retardant PP board	81*1500*3000	PCS
9	Flame retardant PP board	101*1500*3000	PCS
10	PP flame retardant manual air regulating valve	2*φ 315	PCS
11	PP flame retardant electric wind regulating valve	2*φ 315	PCS
12	Pipeline static pressure sensor	Model No. MS-111	PCS
13	PID pipe static pressure controller	4-2DMA	PCS
14	Variations of exhaust frequency devices	380V/11KW	PCS
15	Variations of exhaust frequency devices	380V/4KW	PCS
16	cable	RVV3*6+1*4 ²	PCS
17	Control shielded wire	PVV2*0.75	PCS
18	PVC pipe line	DN32	M
19	PVC pipe through	DN32	PCS
20	Bend for PVC pipe	DN32	PCS

Product flow diagram



Other equipment installation site

