

GB/T 18801-2002

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3.4 3.5 3. 10

5.6. 2.1

5.6.2.2

5.6.2.3

6. 2.1 6.2.2 6.2.3

6.8.2 6.8.3 6.8.4

A

B

C

(SAC/TC 46)

2002 9

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1

220 V

380 V

2

GB/T 191

(GB/T 191-2008 | ISO 780:1997 MOD)

GB/T 1019

GB/T 2828.1

1

(AQL)

(GB/T 2828.1-2003, | ISO 2859-1:2003, | DT)

GB/T 2829

GB/T 4214.1-2000
(IEC 60704-1:1997, EQV)

1

GB 4706.45
IEC 60335-2-65:2005, IDT)

(GB 4706.45-1999)

GB 5296.2 2

GB/T 13306

GB/T 18883-2002

3

3.1

air cleaner

3.2

multi function air cleaner

3.3

clean air delivery rate

(CADR) Q

(m³/h 11:1)

3.4

efficiency of clean

(m³/h V)

3.5

total efficiency of clean

(m³/h V)

3.6

natural decay

3.7

total decay

3.8

cleaning life span

50

%

3.9

test chamber

A

3.10

air pollutants

4

4.1

a) G-

b) X-

c) L_

5.1

5.2

5.3

90%

5.4

90%

5.5

1

1

(CADR)/(m ³ /h)	/dB(A)
150	55
150<Q 400	60
>400	65
CADR	

5.6

5.6.1

(1)

$$\eta = \frac{Q}{W}$$

..... (1)

[m³/h(h W)];

(m³/h)

Q

W

(W)

5.6.2

A B C D4

2 3 4

5.6.2.1

2

2

1	
	(n) / [m ³ /(h W)]
A	n 2.00

B	1. 50<n<2.00
c	1. 00 n<1.50
D	0. 50<n<1.00

5.6.2.2

3

3	
	(n) [n β /h(h ν)]
A	n 0.80
B	0.60<n<0.80
c	0.40<n<0.60
D	0.20<n<0.40

5.6.2.3

4

4

4

1	
	n / [n β /(h ν)]
A	n 1.60
B	1.20<n<1.60
c	0.80<n<1.20
D	0.40<n<0.80

5.6.3

5.6.3.1

2 3

D

5.6.3.2

2 3 D

4 D

6

6.1

a) (25 2)

b) (50 \pm 10)%

6.2

6.2.1

0.5

1.0

6.2.2

0.5

6.2.3

0.5%

6.3

5.1

6.4

0.3 μ m

6.4.1 6.4.2

6.4.1

- a) A
- b) 0.5m 0.5m-1.5m
- c) 1
- d) 0.3um
- e) [6.4.1d]

[6.4.1f]

10min

- f) 0.3um
- g) $2 \times 10^6 / L$ $c_0(t=0 \text{ min})$ 2 min
- h) 20min 9 2
- i) B
- j) B R2 R2 0.98

6.4.2

- a) 6.4.1a) 6.4.1e)
- b) 0.3um
- c) $2 \times 10^6 / L$ $c_0(t=0 \text{ min})$ 2 min 20 min 9
- d) 2
- e) B
- f) B R2 R2 0.98

6.4.3

(2)

$$Q = 60 \times (k_s - k_n) \times V$$

..... (2)

Q (m³/h)

—
—

V- (m³)

6.5

6.4.1 6.4.2

6.5.1

a) A

b) 0.5m 1.5m 1 0.5m

c) 10min

d) [6.4.1f]

e) t=0 c0

f) 5L 5min 8 12

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g) 10min 1

60min

h) GB/T 18883-2002

i) B

j) B R2 R2 0.98

k)

6.5.2

a) 6.5.1a) 6.5.1e)

b) (t=0) co

c) 5L 5min 8 12

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d) 10min 1 60min

e) GB/T 18883-2002

f) B

g) B R2 Rz 0.98

6.5.3

(2)

6.6

6.6.1 A

6.6.2 6.4 6.5

6.6.3

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100

10%

6.6.4 t=0
 6.4 6.5
 50%
 6.6.5
 6.6.6 B 5.4
 6.7
 5.2
 6.8
 6.8.1
 GB/T 4214.1-2000
 6.8.2 GB/T 4214.1-2000 6
 6.8.3 GB/T 4214.1-2000 7
 6.8.4 GB/T 4214.1-2000 8
 7
 7.1
 7.2
 7.2.1 5 2 3 4
 5
 7.2.2 GB/T 2828.1

5				
1	a	A	GB 4706.45	GB 4706.45
2		A	8.1 8.2	
3		B	8.3 8.3	
4		c	5.1	
5		A	5.2	6.7
6		A	5.3	6.4 6.5
7		B	5.4	6.6
8		B	5.5	6.8
9		B	5.6	6.4 6.5
a GB 4706.45				

7.3
 7.3.1
 a) 1
 b)
 c)
 d)
 7.3.2 GB 4706.45 5
 7.3.3 GB/T 2829 2
 1 3 6 1 1
 6

	A	B	c
	30	65	100
	Ac	0	1
	Re	1	2

7.4

8

8.1

GB/T 13306 GB 4706.45

a)

b)

c)

d)

8.2

GB/T 191 GB 1019

8.3

8.4

GB 4706.45 GB 5296.2

8.5

8.6

A

A 1

A.1.8 A.1.9 A.1.10

A 1.1

3.5mm 3.4mm 2.5mm=30m8

A 1.2

76mm 44mm

A 1.3

5mm

A 1.4

0.8mm

A 1.5

A 1.6

A 1.7

1.4 m

A 1.8

630 mm x 630 mm 2

99.9%

1

60%

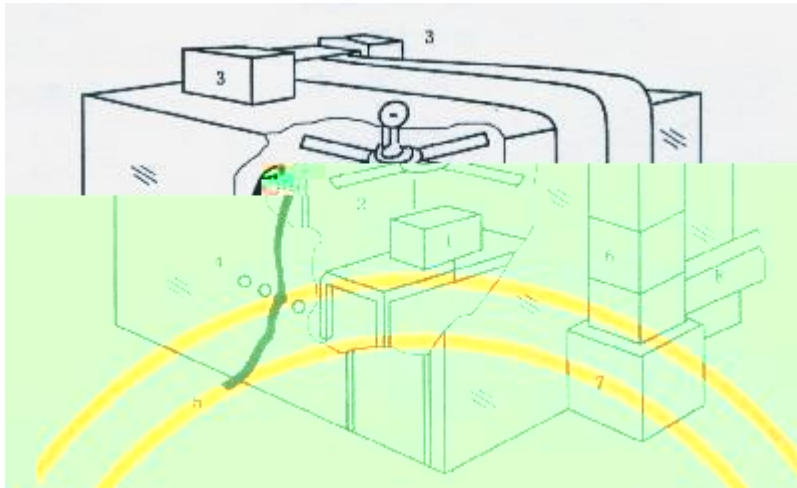
A 1.9

1 800 n8/h

A 1.10

0.05

A 2



1-

2-

3-

4-

5-

6-

7-

8-

A 1

A 3

A 4

B

B 1

1

2

B 2

B 2.1 (B 1)

$$C_t = C_0 e^{-kt}$$

..... (B 1)

$$q = \frac{f}{c} \quad \left(\frac{1}{L} \right) \quad (\text{mg/m}^3)$$

$$c = \frac{f}{t} \quad \left(\frac{1}{L} \right) \quad (\text{mg/m}^3)$$

$$t_i = \frac{f}{c} \quad (\text{min})$$

B 2.2 $\ln c_i$ vs t_i (B 2)

$$-k = \frac{\left(\sum_{i=1}^n t_i \ln c_i \right) - \frac{1}{n} \left(\sum_{i=1}^n t_i \right) \left(\sum_{i=1}^n \ln c_i \right)}{\left(\sum_{i=1}^n t_i^2 \right) - \frac{1}{n} \left(\sum_{i=1}^n t_i \right)^2}$$

..... (B 2)

$$t_i = \frac{f}{c_i}$$

$$\ln c_i = \ln \left(\frac{f}{t_i} \right)$$

B 3

RZ

0.98 (B 2)

$$R^2 = \frac{\left(\sum_{i=1}^n x_i y_i \right)^2}{\left(\sum_{i=1}^n x_i^2 \right) \left(\sum_{i=1}^n y_i^2 \right)}$$

..... (B 3)

$$R^2 = \frac{\left(\sum_{i=1}^n t_i \ln c_i \right)^2}{\left(\sum_{i=1}^n t_i^2 \right) \left(\sum_{i=1}^n \ln c_i^2 \right)}$$

$$\left(\sum_{i=1}^n x_i y_i \right)^2 = \left(\sum_{i=1}^n t_i \ln c_i \right)^2 - \frac{1}{n} \left(\sum_{i=1}^n t_i \right) \left(\sum_{i=1}^n \ln c_i \right)^2$$

$$\sum_{i=1}^n x_i^2 = \sum_{i=1}^n t_i^2 - \frac{1}{n} \left(\sum_{i=1}^n t_i \right)^2$$

$$\sum_{i=1}^n y_i^2 = \sum_{i=1}^n \ln c_i^2 - \frac{1}{n} \left(\sum_{i=1}^n \ln c_i \right)^2$$

EXCEL

R2

B 4

(B 4)

Tm=CaTa/Cs (B 4)

Tm (h)
Ca--- (cpn) (ng/m³)
Cs--- (cpn) (ng/m³)
Ta-- (h)

C

C 1

C 1.1

C 1.2

C 1.3

C 2

C 5

C 3

C 3.1

C 3.1.1

3

C 3.1.2

C 3.2

C 3.2.1

C 3.2.2

C 4

C 4.1

C 4.1.1

C 4.1.2

C 4.1.3

C 4.1.4

C 4.1.5

C 4.1.6

C 5

C 4.2

C 4.2.1 C 4.1.1 C 4.1.2 C 4.1.3

C 4.2.2

C 4.2.3

C 4.2.4

C 5

C 5

C 5.1

C 5.2

C 5.3 5d

C 5.4 20d

C 5.5

5d