

KS Series High-vacuum Oil Diffusion Pumps

KS series high vacuum oil diffusion pumps are main equipments which are used in obtaining high vacuum and ultra vacuum states of 10^{-2} ~ 10^{-5} Pa. High vacuum pumping system is composed of they and vacuum components such as valve, cold trap, pipe, and mechanical vacuum pump etc. They can obtain ultrahigh vacuum of adopt cooling equipment of liquid nitrogen and so on and add measures such as roasting etc.

Features

Can be upgrade

Currency type

Applications

Vacuum coating

Vacuum heat treatment

Main Specifications

Model/ Parameter

KS-80

KS-100

KS-150

KS-200

KS-300

KS-320

KS-400

Ultimate Pa (Torr)

5×10^{-5}

3.8×10^{-3}

5×10^{-5}

3.8×10^{-3}

5×10^{-5}

3.8×10^{-3}

5×10^{-5}

3.8×10^{-3}

5×10^{-5}

3.8×10^{-3}

5×10^{-5}

3.8×10^{-3}

5×10^{-5}

3.8×10^{-3}

Pumping speed (L/s)

¥180

¥300

¥800

¥1500

¥3000

¥3500

¥6000

Critical backing pressure
(Pa/Torr)

¥30/

¥0.23

¥30/

¥0.23

¥30/

¥0.23

¥40/

¥0.3

¥40/

¥0.3

¥40/

¥0.3

¥40/

¥0.3

Heating power (kW)

0.45

0.55

0.95

1.5

2.4

3

3

Voltage of power supply (V)

220

220

220

220

220

220

380

Cooling water consumption (L/h)

40

100

140

260

450

480

600

Pump oil type

KS-3 or silicon oil-275

Pump oil consumption (L)

0.1

0.15

0.4

0.5

1.3

1.8

3.5

Backing pump pumping speed (L/s)

2

4

8

8

15

15

30

Pump side (L—W—H) mm

213*108

*320

253*218

*327

345*240

*492

440*310

*510

593*415

*780

578*424

*660

830*530

*986

Weight (kg)

7

11

23

29

73

85

140

Model/Parameter

KS-500

KS-600

KS-630

KS-800

KS-1000

KS-1200

Ultimate Pa

(Torr)

5×10^{-5}

$\hat{\alpha} \approx 3.8 \times 10^{-3}$

$\hat{\alpha} \approx 5 \times 10^{-5}$

$\hat{\alpha} \approx 3.8 \times 10^{-3}$

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$\hat{\alpha} \approx 5 \times 10^{-5}$

$\hat{\alpha} \approx 3.8 \times 10^{-3}$

Pumping speed (L/s)

$\hat{\alpha} \approx \text{¥}8000$

$\hat{\alpha} \approx \text{¥}12500$

$\hat{\alpha} \approx \text{¥}16000$

$\hat{\alpha} \approx \text{¥}21000$

$\hat{\alpha} \approx \text{¥}35000$

$\hat{\alpha} \approx \text{¥}45000$

Critical backing pressure (Pa)

$\hat{\alpha} \approx \text{¥}40$

Heating power (kW)

9-15

8.4

8.4

8.4

22

24

Voltage of power supply (V)

380

380

380

380

380

380

Cooling water consumption (L/h)

530

770

810

1230

1546

1900

Pump oil type

KS-3 or silicon oil-275

Pump oil consumption (L)

4-6

7

8

10

15

20

Backing pump pumping speed (L/s)

70

70

140

150

300

300

Pump side (L \bar{A} —W \bar{A} —H) mm

980*660

*1220

1175*780

*1365

1115*792

*1135

1520*92

0*1480

1200*1490

*1900

2200*1400

*2465

Weight (kg)

200

340

380

550

1060

1430

Connection dimensions of KS series high $i_{\xi}^{1/2}$
vacuum oil diffusion pumps

Type/Size

KS-80

KS-100

KS-150

KS-200

KS-300

KS-320

DNs

80

100

150

200

300

320

D1

145

170

220

275

380

370

D2

125

145

195

250

350

A

105

130

180

240

330

290

L

100

125

165

200

280

280

n1-?1

4-?9

4-?12

8-?12

8-?12

8-?14

dg

25

32

50

65

80

80

d1

70

78

110

125

145

110

d2

55

64

90

105

125

n2-?2

4-?7

4-?9

4-?9

4-?9

4-?9

H

267

310

474

486

755

645

Type/Size

KS-400

KS-500

KS-600

KS-630

KS-800

KS-1000

KS-1200

DN

400

500

600

630

800

1000

1200

D1

500

550

710

720

920

1140

1360

D2

465

670

880

1090

1310

A

440

630

660

550

880

780

1300

L

360

550

600

450

800

850

1200

n1-?1

8-?18

12-?21

20-?21

24-?23

28-?25

dg

100

125

150

160

200

200

300

d1

170

155

220

200

275

275

380

d2

145

195

250

250

350

n2-?2

4-?12

8-?12

8-?12

8-?12

8-?14

H

960

1200

1340

1115

1450

1800

2440