

KSA Series High-vacuum Oil Diffusion Pumps

KSA series high vacuum oil diffusion pumps are main equipments which are used in obtaining high vacuum and ultra vacuum states of 10^{-1} ~ 10^{-5} Pa, the system has much eximious characteristic, includes low height, small volume, high pumping speed. New KSA series pumps adopt interiorly-heating technology. However, the system can offer high pumping speed under 1.3Å — 10^{-1} Pa and high critical backing pressure

Features

Low height, small volume, interiorly heating

High pumping speed (offer high pumping speed under 1.3Å — 10^{-1} Pa)

High critical backing pressure

Applications

Vacuum heat treatment

Vacuum coating

Main Specifications

Model/Parameter

KS
-200A

KS
-400A

KS
-600A

KS
-630A

KS
-800A

KS
-1000A

Ultimate Pa

(Torr)

$\hat{\alpha}\% \approx 5 \cdot 10^{-5}$

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

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

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

Pumping speed (L/s)

$\hat{\alpha} \approx \text{¥}150$

$\hat{\alpha} \approx \text{¥}6300 \sim 7200$

$\hat{\alpha} \approx \text{¥}14000$

$\hat{\alpha} \approx \text{¥}16500$

$\hat{\alpha} \approx \text{¥}26000$

$\hat{\alpha} \approx \text{¥}45000$

Critical backing pressure (Pa/Torr)

$\hat{\alpha} \approx \text{¥}40$

/ $\hat{\alpha} \approx \text{¥}0.3$

$\hat{\alpha} \approx \text{¥}40$

/ $\hat{\alpha} \approx \text{¥}0.3$

$\hat{\alpha} \approx \text{¥}40$

/ $\hat{\alpha} \approx \text{¥}0.3$

$\hat{\alpha} \approx \text{¥}50$

/ $\hat{\alpha} \approx \text{¥}0.38$

$\hat{\alpha} \approx \text{¥}50$

/ $\hat{\alpha} \approx \text{¥}0.38$

$\hat{\alpha} \approx \text{¥}50$

/ $\hat{\alpha} \approx \text{¥}0.38$

Heating power (kW)

1.8

5.4~6

8.4

12

18

24

Voltage of power supply (V)

220

380

380

380

380

380

Cooling water consumption (L/h)

300

600

800

930

1000

1500

Pump oil type

KS 3 or silicon oil

-- 275

Pump oil consumption (L)

0.55

3

7

5~9

8~10

12~25

Backing pump pumping speed (L/s)

15

70

140

140

140

300

Pump side (L—W—H) mm

420*330

*490

700*505

*725

950*760

*1070

1006*840

*1160

1205*960

*1460

1473*1130

*1890

Weight (kg)

25

120

300

320

450

620

Connection dimensions of KSA series high-vacuum & low back-streaming rate oil diffusion pumps

Type/Size

KS
-200A

KS
-400A

KS
-600A

KS
-630A

KS
-800A

KS
-1000A

DN

200

40

600

630

800

1000

D1

275

500

710

750

920

1120

D2

250

465

670

720

890

1090

A

220

324

480

540

600

800

L

200

285

440

630

800

1275

n1-Ð#1

8-Ð#12

8-Ð#18

12-Ð#21

20-Ð#14

24-Ð#14

32-Ð#14

dg

65

80

150

100

160

160

d1

125

145

220

165

225

225

d2

105

125

195

145

200

200

n2-Ð#2

4-Ð#9

4-Ð#9

8-Ð±12

8-Ð±12

8-Ð±10

8-Ð±10

H

470

694

1064

1145

1450

1880