TIDEWAY®

ZYB.....A Series
Oil-lubricant
Vacuum & Pressure
Combined Vacuum Pump

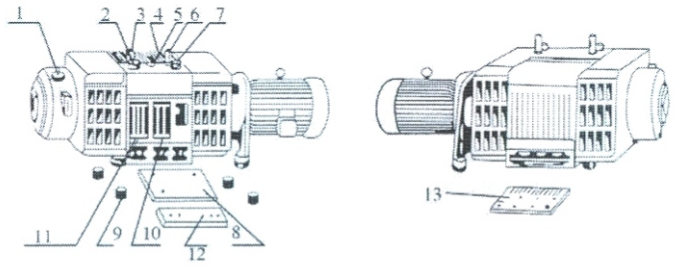
Operation Instruction

1.Application

Model ZYB sliding——vane vacuum / Pressure pump is an indispensable part of the modern printing machinery.In the case-of suction vacuum≥ — 60kPa, supplement vacuum≥ —20kPa and pressure≤60kPa,it can be used for suction, supplement and blow simultaneously.mainly for the papertransport or paperreceipt mechanis mof fullsize or folio printer.and for other-machines that need vacuum or pressure.

2.Construction

The pump consists of body.base.cooling air system, oil— air separating system and lubricating system.It is equipped with weal—proof fittings between vane and body.so as to—prolong the service 1ite The cooling air sysstem ensures the whole—pump good cooling effect and the oil—air separating system—a purified compressed air.



1.Filling plug
2.Vacuum regulating Valve knob
3.Suction nipple
4.Top cage
5.Supplement nipple
6.Compression nipple
7.pressure regulating valve knob
8.Rwservoir cover
9.Cap Screw
10.Supplement filter
11.Main suction filter
12.Front Cover
13.Rear cover

Specifications:-

Model		ZYB-40A	ZYB-60A	ZYB-80A	ZYB-130A
Displacement :	(m^3/h)	40	60	80	130
Rated Suction Vacuum :	kPa	-60	-60	-60	-60
	(mmHg)	(456)	(456)	(456)	(456)
Rated Supplement Vacuum :	kPa	-20	-20	-20	-35
	(mmHg)	(152)	(152)	(152)	(266)
Rated Pressure :	kPa	60	60	60	60
	(kgf/cm^2)	(0.6)	(0.6)	(0.6)	(0.6)
Temperature :	(ºC)	50	55	65	85
Outside Dia. Of Inlet & Outlet :	(mm)	Ø27	Ø27	Ø34	G½ G1¼ G1½
Overall Dimension :	(mm)	865 x 328 x 340	910 x 373 x 380	970 x 373 x 380	1213 x 407 x 450
Weight :	(kg)	85	105	120	210
Type Of Motor :		Y90L-4 IM B_5	Y100L-4 IM B_5	Y100L-4 IM B_5	Y132S-4 IM B_8
Speed :	(rpm)	1400	1420	1420	1440
Motor Power :	(kW)	1.5	2.2	3.0	5.5

3.Operation and Maintenance

1.The air pump should be set in a clean, cool and ventiating place, It must be placed horizon tally without any inclination.

2.Connect one end of the suction pipe to Nipple(3)and the other to paper transporting unit. Connect one end of the supplement pipe to Nipple(5)and the other to paperreceiving unit Connect the compression pipe to Nipple.(6).

3.The direction of pump rotation: Upon tnrning on the motor.observe if the direction is in acco+rdance with that of the arrow on the indicating plate.

4.Before starting a new pump.remove the plug(1)and pour in the filtered lubricant.and check the oil 1eve at least once a month.

5.The lubrication of the pump is accomplished by an oil pump when the oil—contained compressed air passes the oil—separator in the base.the lubricant is condensed and sent back to the oil tank.

6.Change or lubricant:

The oil tank should be cleaned and the oil changed affer an initial running of 300 hours and then changed once every 300 running hours:

7.Lubricant:

The lubricant for this pump is China—made No.19 commpressor oil.or other labricants having the properties listed below

(1)Relative viscosity:—22° E50 or 320mm^2 / s

(2)Flash point:240℃

(3)Conednsation point:15℃

8.Air filter clean:

Undo the cap screw(9)、remove the cover(8). then ktake out the filter(11)and(10),wipe out the dirts on surface with a brush and wash away the oil dirt If the filtering woolenn or paper pith is found damaged,it should be replaced.The filter is preferable to be cleaned in a period-of every one to two moths.

9.Oil-air separator sieve clean:

The separation of lubricant form the compressed air is acquired by the four oil-air separation sieves in the base these sleves should be cleaned at least once every year.To clean them untight the front cover(12)and arear cover(13)of the pump.tale out the sieves and clean them in petrol.

10.Regulating valve:

These two regulating valves are limited to their rated load valuse before delivery.In case the valuse are disecovered not up to the rated ones affer long period operation or overhaul.take off the knob(2)or(7).unscrew the set— screw on the brass ring,turn the adjusting screw at Ihe middle by meaans of a turning clockwise and edcreases the other way-round

11.The rubber ring of fiexiblecoupling should be checked at least ever half a year Replace it once breakagn is found.When replacing, first remove the motor.then rake off the clips on the pins of rubber ring. and the rubber ring is ready to come off See to it that there is a play about 1-2mm between the two half couplings when remountiong.You can observe it througnh the square hole of the motor connect ting frame、and under no circumstances should these ends touch each other.

12.Cooling system clean:

The dirts on cooling pipes should he cleaned every half a year.Upon removing the top cage(4) most of the dirts visible can be cleaned. Then. while the pump is running.clean the rest by blowing with comprssed air and the dirts will be brought out from the vent of the cooling fan.