





Pump structure

**DSZH**<sup>®</sup>

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Pump structure and components



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	Model no	1 stage rotary vane vacuum pump							
ltem no		WK-115N	WK-125N	WK-115	WK-125	WK-135	WK-160	WK-180	WK-1100
Flow	50Hz	1.8CFM	2.5CFM	1.8CFM	2. 5CFM	3.5CFM	6. OCFM	8. 0CFM	10CFM
Rate	60Hz	2. 0CFM	3. 0CFM	2. 0CFM	3. 0CFM	4. 0CFM	7. 0CFM	9. 0CFM	12CFM
Ultimat	e vacuum		150microns						
Power	Power		1/4HP	1/4HP	1/4HP	1/3HP	1/2HP	3/4HP	1HP
0il Ca	pacity	140m1	140m1	230m1	180ml	240m1	430m1	520m1	500m1
Dimensions(mm)		270X101X202	270X101X202	290X124X227	290X124X227	303X127X249	350X140X263	404X158X275	427X158X275
Weight		4.2Kg	4.3Kg	5.2Kg	5.4Kg	8Kg	10Kg	14.7Kg	17Kg
Inlet Port		(Y <sub>1</sub> , λ.u)	1/4"Flare				1/4"&3/8"Flare		

Model no		2 stage rotary vane vacuum pump								
ltem no		WK-215	WK-225	WK-235	WK-245	WK-260	WK-280	WK-2100		
Flow	50Hz	1.5CFM	2.5CFM	3. 5CFM	4.5CFM	6. OCFM	8. 0CFM	10CFM		
Rate	60Hz	1.8CFM	3. 0CFM	4. 0CFM	5. 0CFM	7. 0CFM	9. 0CFM	12CFM		
Ultimate vacuum		15microns								
Power		1/4HP•	1/3HP	1/3HP	1/2HP	3/4HP	1HP	1HP		
Oil capacity		140m1 .	200m1	230m1	350m1	400m1	580m1	490m1		
Dimensions (mm)		290X124X227	331X127X249	331X127X249	350X140X263	404X158X275	427X158X275	427X158X275		
Weight		5.5Kg	8.1Kg	8.2Kg	10.5Kg	15.5Kg	16.3Kg	17Kg		
Inlet Port		1/4"Flare			1/4"&3/8"Flare					



## Pump structure



Pump structure and components



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Model no ltem no		1 stage rotary vane vacuum pump								
		115SV	125SV	135SV	160SV	180SV	1100SV			
Flow	50Hz	1.8CFM	2.5CFM	3. 5CFM	6. 0CFM	8. OCFM	10. OCFM			
Rate	60Hz	2. 0CFM	3. 0CFM	4. 0CFM	7. 0CFM	9. 0CFM	12. OCFM			
Ultimate vacuum		150microns								
Power		1/4HP	1/4HP	1/3HP	1/2HP	3/4HP	1HP			
Oil Capacity		230m1	180ml	240m1	430m1	520m1	500m1			
Dimensions (mm)		290X124X227	290X124X227	303X127X249	350X140X263	404X158X275	427X158X275			
Weight		5.5Kg	5.5Kg 5.7Kg		10.3Kg	15Kg	17.3Kg			
Inlet Port			1/	1/4"&3/8"Flare						

Model no ltem no			2 stage rotary vane vacuum pump							
		215SV	225SV	235SV	245SV	260SV	280SV	2100SV		
Flow	50Hz	1.5CFM	2.5CFM	3.5CFM	4.5CFM	6. OCFM	8. OCFM	10. 0CFM		
Rate	60Hz	1.8CFM	3. OCFM	4. OCFM	5. 0CFM	7. 0CFM	9. 0CFM	12. 0CFM		
Ultimate vacuum		15microns								
Power		1/4HP	1/3HP	1/3HP	1/2HP	3/4HP	1HP	1HP		
0il capacity		140m1	200m1	230m1	350m1	400m1	580m1	490m1		
Dimensions(mm)		290X124X227	331X127X249	331X127X249	350X140X263	404X158X275	427X158X275	427X158X275		
Weight		5.8Kg	8.4Kg	8.5Kg	10.8Kg	15.8Kg	16.6Kg	17.3Kg		
Inlet Port		· · · · · · · · · · · · · · · · · · ·	1/4"Flare			1/4"&3/8"Flare				

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#### Maintenance & service

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### **1.PUMP OIL SELECT:**

The pump oil type and condition is an important factor to determine the vacuum degree. In order to maintain the best performance of the pump, we suggest to use our company pump oil **Security**. The oil is specially made and can keep the maximum viscosity under normal operating temperature, Advantageous to pmp cooling start

Tip: when the pump oil is emulsified and contaminated, please replace the pump oil in time.

## 2.REPLACE OIL PRECEDURE:

(1). Make sure pump in hot state, to running 1 minute before replace pump oil;

(2). Open inlet cap when pump running.force pump oil flow out,close pump switch then openoil blocked,Put the oil into a suitable container, and properly dispose;

(3). When the oil stops flowing, lean the pump body to eliminated residual oil completely Screw;

(4). Tighten oil blocked;

(5). Open oil blocked and refill new pump oil; (same with preparation work as page 3)

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#### **OPERATION GUIDE**

1. Take down inlet cap(5/8"-18 or 7/16"-20,as figure) connect extracted container, use short pipeline;



(Preventing gas and oil return connector)

- 2. Check the inlet connection and the pipeline is sealed and reliable;
- 3. After use, turn off pump and valve of extracted container;
- 4. Close the power switch on the pump, pull out power plug;
- 5. Final, cover the inlet and out let cap(except model without exhaust cap), To prevent dirt or floating particles into the pump; Tip: pay attention to the oil level change when use, refill oil up in timewhen the oil level drops to the bottom line.

#### SAFE WARNING

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- 1. Running with connection between air inlet and atmosphere shall not exceed 3 minutes;
- 2. Ambient temperature shall be 5°C ~40°C;
- This product uses the voltage should be 220V + 10%/50Hz, the power source socket must be grounded;
- 4. Please use a reliable method to extract the refrigerant gas from system before 6.the vacuum pump connected to the A/C-R system. Attention :under the high pressure state will damage the pump body, recommend to use special equipment.



### RANGE OF APPLICATION

**DSZH**<sup>•</sup> 1 & 2 stage Rotary vane vacuum pump are basic equipment that using for evacuating gas from sealed container. Suit for evacuating maintenance of refrigeration (including CFC,HCFC,HFC such as R12/R22/R134A), printing machine, vacuum package, gas analysis, hot forming industries. Also can be used as backing pump of high-vacuum apparatus.

### FEATURES

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- 1. Monolithic block structure, high accuracy and ultimate vacuum;
- 2. Mandatory pump lubrication to ensure high reliability;
- 3. larger sight glass, to prevent lack of oil;
- Anti-oil-returning design. Prevent pump oil from returning to contaminate vacuum vessel after the pump stops.

#### SAFETY WARNING

Warning! To avoid personal injury, please read and follow the operation manual carefully. Wear goggles when using refrigerants;

To avoid personal injury, Don't touch refrigerants directly;

When connecting the power supply requirements, all related equipment are grounded properly In order to prevent the risk of electric shock;

Because the pump will heat up when working, don't touch oil tank or motor housing.

## **DSZH**°

**Operation manual** 

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#### PREPARATION WORK BEFORE USING

- 1. check all power supply voltage and frequency is consistent with the product marked on the nameplate;
- 2. Make sure pump is closed before the power supply switch on.
- 3. Fill pump oil up:
- (1). Unscrew the gas plug, fill oil to the middle of oil window, As figure



(2). Turn on the power switch, Check the oil level after pump start running 1 minutes, fill oil up if the oil level too low

Attention:Check oil level before use and ensure oil level middle when running pump, The level is too low will reduce the performance of the pump, the oil level is too high will cause the oil mist sprayed.