

# DFP-80

## Air-cooled Diffusion Pump

Diffusion pump is a practical vacuum equipment to seal the pumped vessel and remove all kinds of gases which have no chemical reaction to the working fluid in the high vacuum system. It uses a high speed jet of vapor to direct gas molecules in the pump throat down into the bottom of the pump and out the exhaust. It is widely used in both industrial and research applications. Most diffusion pumps use silicone oil or polyphenyl ethers as the working fluid.

### Features

- Exceptional pumping speeds (80L/s) and compression ratios
- Huge install base of turbopumps with proven reliability
- Air cooling system simplifies utility requirements
- Individual intelligent controller with built-in protections
- Less maintenance compared to other technologies saves time and money
- Compact design makes integration into space-limited equipment easy



### Parameters

Model	DFP-80
——— TECHNICAL DATA ———	
Vacuum Speed [L/s]	80
Ultimate Vacuum [Pa]	$10 \times 10^{-4}$
Cracking Pressure [Pa]	< 10
Compression Ratio	$\leq 200:1$
Preheat Time [min]	12
Cooling Method	Air Cold
Ambient Temperature [°C]	10-35°C
Working Humidity	$\leq 85\%$
Material	SS304&Duralumin 6260
——— ELECTRICAL REQUIREMENTS ———	
Voltage	220V
Phase	1P
Frequency	50/60HZ
Total Power [W]	212
Heating Power [W]	200   12
Fan Power [W]	
——— PUMP OIL ———	
Pump Oil Volume [ml]	30-50
Pump Oil Viscosity	Dowcorning DC-701/702

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——INTERFACE SPECIFICATIONS——

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Inhale Interface

KF50

Exhaust Interface

KF25

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——WEIGHT | DIMENSION——

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Unit Weight [Kg]

2.5

Dimension [mm]

160x135x200

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## Packages

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W (mm)

CBM (m3)

D (mm)

Weight (kg)

H (mm)

\* Technical details and dimensions are subject to change. No liability is accepted for errors or omissions. Illustrations can deviate from the original.