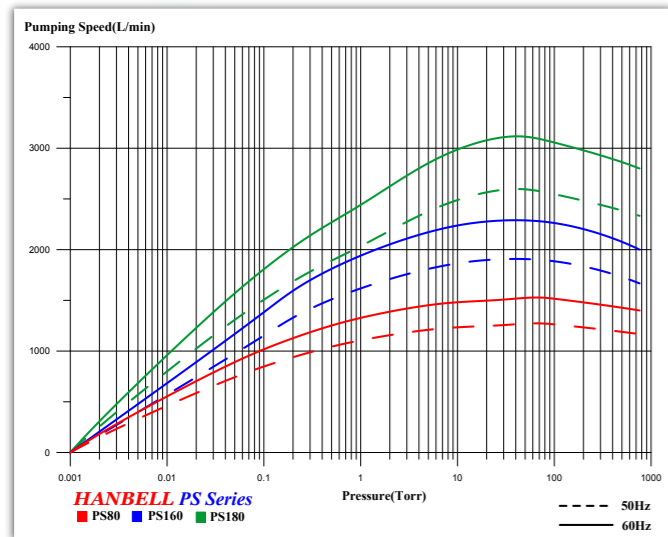


Dry Screw Pump

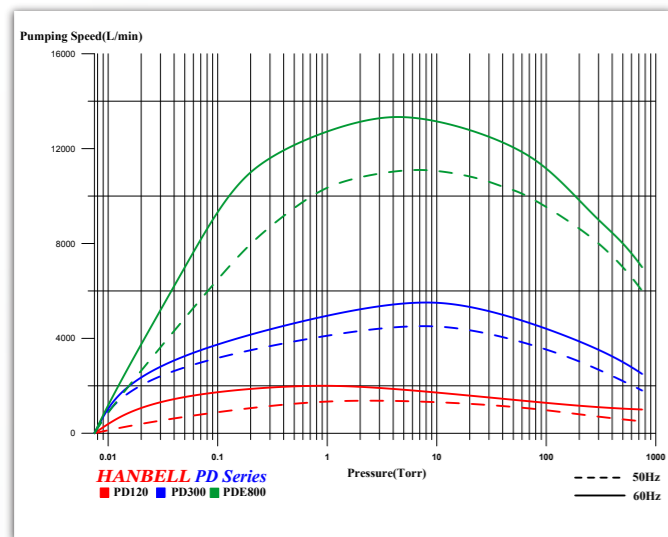
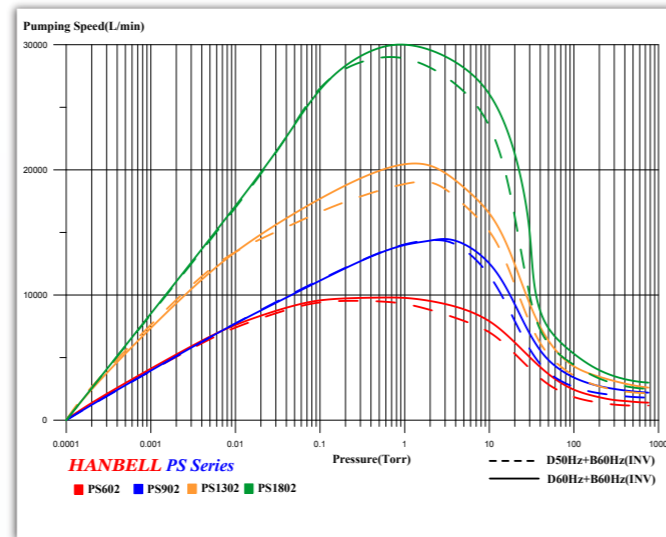
PS & PD Series

As a key component of vacuum systems, dry vacuum pump plays a major role of process quality factors, even in clean or harsh vacuum applications. HANBELL PS and PD series Dry Screw Vacuum Pumps can provide customer a high quality vacuum environment, and also can reduce the system setup capital and maintenance cost.

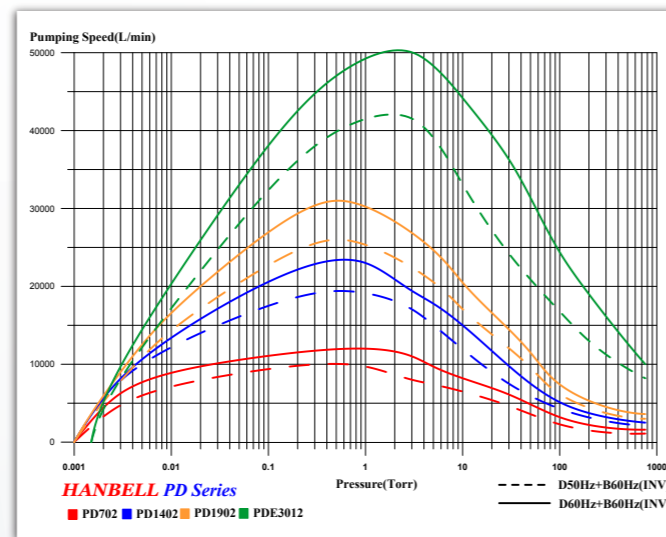
PS series is not just pumps, it is a total solution, it comes with fast pumping speed, robust construction and intelligent controller, PD series is based on PS series with innovated screw rotor design to provide the power saving solution.



PS Series Pumping Speed Curve



PD Series Pumping Speed Curve



There are other versions can be chose for the PS/PD series.

PSE/PDE series:

Air Cooled motor equipped, casing air cooled kit can be used for the bad quality water supply.

PSC/PDC Series:

C-Flanged for NEMA/IEC, Special Coating, Special Shaft Seal.



Application:

Industrial Vacuum, LED, Solar, Metallurgical System, Coating, Plasma Process, Vacuum Drying

PS Series Technical Specification

Model ^{*2}		Unit	PS80	PS160	PS180	PS602	PS902	PS1302	PS1802
Pumping Speed 抽氣速率 (50Hz/60Hz)	l/min		1300/1600	2150/2600	2500/3000	8300/10000	12500/15000	17500/21000	25000/30000
	m ³ /hr		80/96	130/156	150/180	500/600	750/900	1050/1260	1500/1800
	cfm		47/57	77/92	88/106	294/353	441/530	618/742	883/1060
Ultimate Pressure 終極壓力	Torr		$\leq 7.5 \times 10^{-3}$			$\leq 7.5 \times 10^{-4}$			
	mbar		$\leq 1 \times 10^{-2}$			$\leq 1 \times 10^{-3}$			
	Pa		≤ 1			≤ 0.1			
Motor 馬達	Frequency 頻率	Hz	50/60						
	Voltage 電壓	V	220~380 (3Phase)						
	Rated Power 額定功率	kW	3.7	5.5	3.7+3.7	5.5+3.7	5.5+5.5		
	Rated Current 額定電流 (220V/380V) ^{*4}	A	14/8.5	21/13	14+14/ 8.5+8.5	21+14/ 13+8.5	21+21 13+13/		
Connection 連接口	Inlet 進氣口		NW50		ISO100(bolted)		ISO160(bolted)		
	Outlet 排氣口		NW40		NW40		NW40		
Cooling Water 冷卻水	Min Flow 最低流量	l/min	3					4	
	Temperature 溫度	°C	18~25						
N2 氮氣	Purge Pressure 壓力	MPa	0.15~0.2 ^{*1}						
	Purge Flow 流量	slm	5~60 ^{*1}						
Dim. 尺寸	L×W×H ^{*3}	mm	814×380×663	895×410×678	920×430×650	814×380×915	895×410×943	920×430×957	920×430×1030
Weight 重量	kg		280	300	320	450	520	540	545
Noise 噪音	dB(A)		<68	<70	<70	<70	<70	<70	<70

*1. For different applications, the pressure and flow will have some change.

*2. Model classification and its application description. PS/PD(XXX)-(Y)(Z)(V). DP of PDE800/PDE3012 uses the air cooled motor.

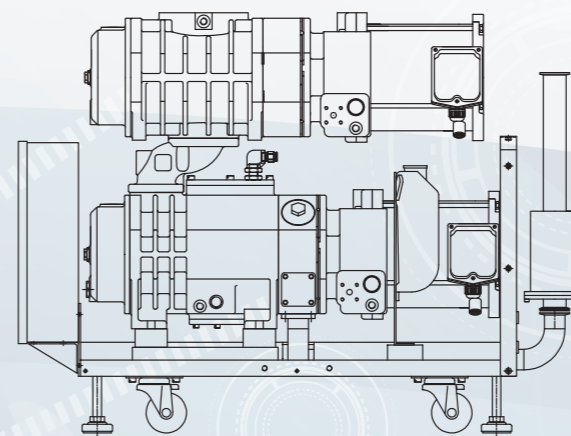
Series	Model	-	Type	Cover	Controller	N2 Heater	Coating	Inverter
PS/PD	(XXX)	-	(Y)				(Z)	(V)
PS/PD	80~3012		S				D:Defric N:Ni H:Ni-Teflon C:NMC	1:BP 2:DP+BP
			C	⊙				
			N		⊙			
			A	⊙	⊙			
			H	⊙	⊙	⊙		

*3. -A type dimension

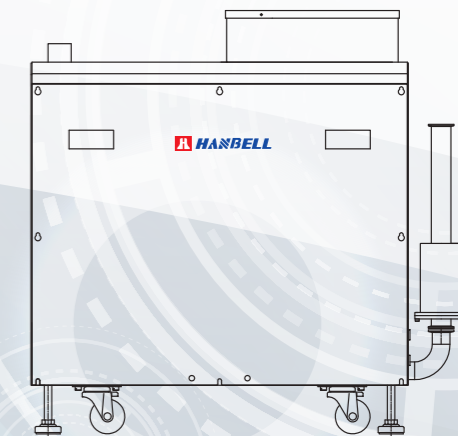
*4. Max. Rated power of motor, limited by motor temperature also. (Air cooled motor without Temp sensor.)

PD Series Technical Specification

Model ^{*2}		Unit	PD120	PD300	PDE800	PD702	PD1402	PD1902	PDE3012
Pumping Speed 抽氣速率 (50Hz/60Hz)	l/min		1336/2000	4500/5500	11100/13330	9700/12000	19400/23000	26000/31000	41500/50000
	m ³ /hr		80/120	270/330	660/800	580/700	1100/1400	1580/1900	2500/3000
	cfm		47/70	160/195	393/478	340/400	680/800	930/1110	1470/1700
Ultimate Pressure 終極壓力	Torr		$\leq 7.5 \times 10^{-3}$			$\leq 7.5 \times 10^{-4}$			
	mbar		$\leq 1 \times 10^{-2}$			$\leq 1 \times 10^{-3}$			
	Pa		≤ 1			≤ 0.1			
Motor 馬達	Frequency 頻率	Hz	50/60						
	Voltage 電壓	V	220/380 (3Phase)						
	Rated Power 額定功率	kW	3.7	6	22.5	3.7+3.7	6+5.5	6+5.5	22.5+6
	Rated Current 額定電流 (220V/380V) ^{*4}	A	14/8.5	25/14.5	NA/42	14+14/ 8.5+8.5	25+21/ 14.5+13	25+21/ 14.5+13	NA/ 42+14.5
Connection 連接口	Inlet 進氣口		NW50	ISO63	ISO100	ISO100	ISO160	ISO160	ISO200
	Outlet 排氣口		NW40	NW40	ISO63	NW40	NW40	NW40	ISO63
	Min.Flow 最低流量	l/min	3L/min 15°C ~7L/min 30°C		6L/min 18~20°C	3L/min 15°C~7L/min 30°C			6L/min 18~20°C
	Temp. 溫度	°C							
N2 氮氣	Purge Pressure 壓力	MPa	0.15~0.2 ^{*1}		0.05	0.15~0.2 ^{*1}			0.05
	Purge Flow ^{*1} 流量	slm	5~60		0~150	5~60			0~150
Dim. 尺寸	L×W×H ^{*3}	mm	814×380×687	1053×430×716	2238×695×1293	814×380×939	1052×430×964	1052×430×964	2238×695×1365
Weight 重量	kg		280	350	1050	450	550	560	1910
Noise 噪音	dB(A)		<70	<70	<95 (w/o housing)	<70	<70	<70	<95 (w/o housing)



Model for S/N Type



Model for A/H Type