



HANBELL

HANBELL VACUUM TECHNOLOGY CO., LTD.

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.



Application:

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

PS Series Technical Specification

Model* ²		Unit	PS80	PS160	PS180	PS602	PS752	PS902	PS1302	PS1802
Pumping Speed 抽氣速度 (50Hz/60Hz)		l/min	1300 / 1600	2150 / 2600	2500 / 3000	8300 / 10000	10000/12000	12500/ 15000	17500/21000	25000/30000
		m ³ /hr	80 / 96	130 / 156	150 / 180	500 / 600	600/720	750/900	1050/1260	1500/1800
		cfm	47 / 57	77 / 92	88 / 106	294 / 353	354/425	441 / 530	618 / 742	883 / 1060
Ultimate Pressure 終極壓力		Torr	≤7.5×10 ⁻³			≤7.5×10 ⁻⁴				
		mbar	≤1×10 ⁻²			≤1×10 ⁻³				
		Pa	≤1			≤0.1				
Motor 馬達	Frequency 頻率	Hz	50/60							
	Voltage 電壓	V	220 or 380 or 440 （3Phase）							
	Rated Power 額定功率	kW	3.7	5.5		3.7+3.7	5.5+3.7	5.5+3.7	5.5+5.5	
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	4L/min18°C ~ 8L/min30°C							
	Temp. 溫度	°C								
N2 氮氣	壓力 Purge Pressure	MPa	0.15~0.2							
	流量 Purge Flow	slm	5~60* ¹							
Dim. 尺寸	L×W×H* ³	mm	814×380×687	895×410×702	920×430×674	814×380×939	814x429x993	895×410×967	920×430×981	920×430×1030
Weight 重量		kg	280	300	320	450	470	520	540	545
Noise 噪音		dB(A)	<68	<70	<70	<70	<70	<70	<70	<70

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

*2. Model classification and it’s application description. PS/PD(XXX)-(Y)(Z)(V).

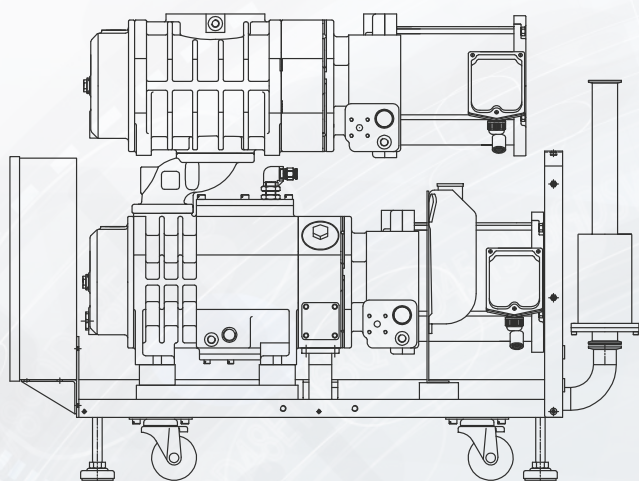
*3. Max. Rated power of motor, limited by motor temperature also.

*4. -A type dimension.

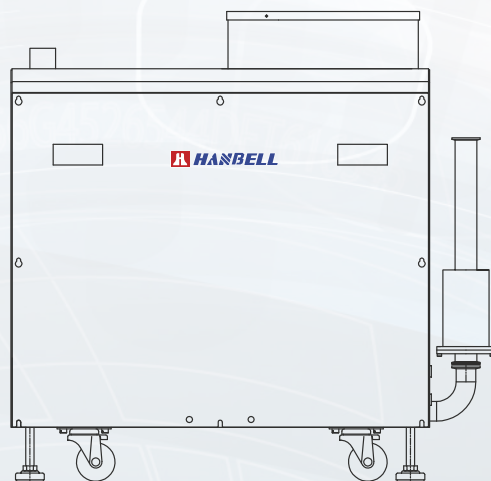
Series	Model	-	Type	Cover	Controller	N2 Heater	Coating	Inverter
PS/PD	(XXX)	-	(Y)				(Z)	(V)
PS/PD	80~3052		S				D:Defric N:Ni H:Ni-Teflon C:NMC	1:BP 2:DP+BP
			C	☉				
			N		☉			
			A	☉	☉			
			H	☉	☉	☉		

PD Series Technical Specification

Model ^{*2}		Unit	PD120	PD300	PD500	PD800	PD702	PD1902	PD2052	PD3052	PD3012
Pumping Speed 抽氣速度 (50Hz/60Hz)		l/min	1336/2000	4500/5500	6900/8300	11100/13330	9700/12000	26000/31000	26750/32100	41500/50000	41500/50000
		m ³ /hr	80/120	270/330	410/500	660/800	580/700	1580/1900	1610/1930	2500/3000	2500/3000
		cfm	47/70	160/195	240/295	393/478	340/400	930/1110	945/1135	1470/1700	1470/1700
Ultimate Pressure 終極壓力		Torr	≤7.5×10 ⁻³				≤7.5×10 ⁻⁴				
		mbar	≤1×10 ⁻²				≤1×10 ⁻³				
		Pa	≤1				≤0.1				
Motor 馬達	Frequency 頻率	Hz	50/60								
	Voltage 電壓	V	220 or 380 or 440（3Phase）								
	Rated Power 額定功率	kW	3.7	7.5	15	22.5	3.7+3.7	7.5+5.5	15+5.5	15+15	22.5+15
Connection 連接口	Inlet 進氣口		NW50	ISO63	ISO100	ISO100	ISO100(bolted)	ISO160(bolted)		ISO200(bolted)	
	Outlet 排氣口		NW40	NW40	NW50	ISO63	NW40	NW40	NW50	NW50	ISO63
Cooling Water 冷卻水	Min. Flow 最低流量	l/min	4L/min18℃～ 8L/min30℃		6L/min18℃～ 10L/min28℃		4L/min18℃～ 8L/min30℃		6L/min18℃～ 10L/min28℃		
	Temp. 溫度	℃									
N2 氮氣	壓力 Purge Pressure	MPa	0.15~0.2								
	流量 Purge Flow	slm	5~60 ^{*1}								
Dim. 尺寸	L×W×H ^{*3}	mm	814×380×687	1053×430×716	1505×525×515	2238×695×1293	814×380×939	1052×430×964	1483×538×1115	1505×525×965	2238×695×1365
Weight 重量		kg	280	350	500	1050	450	560	730	1000	1910
Noise 噪音		dB(A)	<70	<70	<75	<85	<70	<70	<75	<75	<85

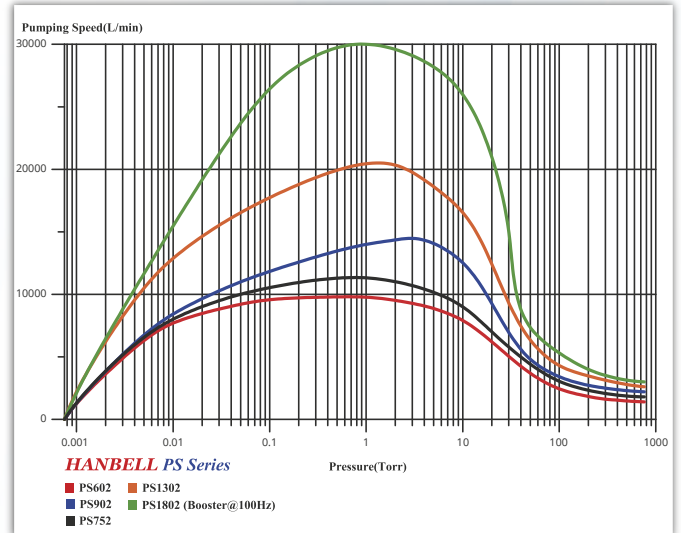
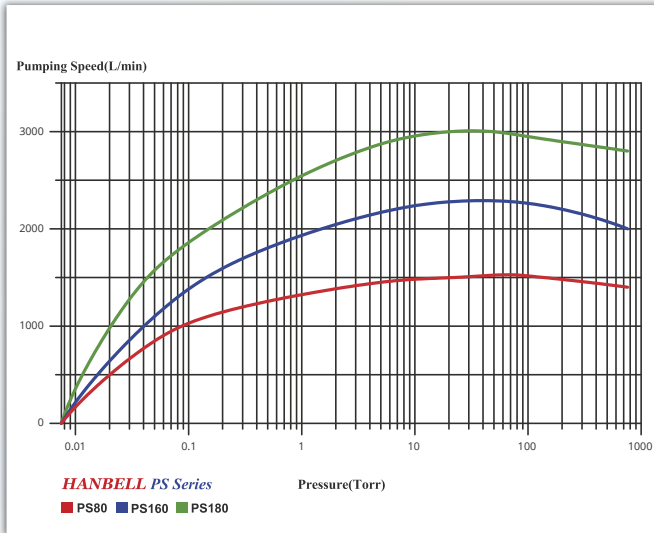


Model for S/N Type

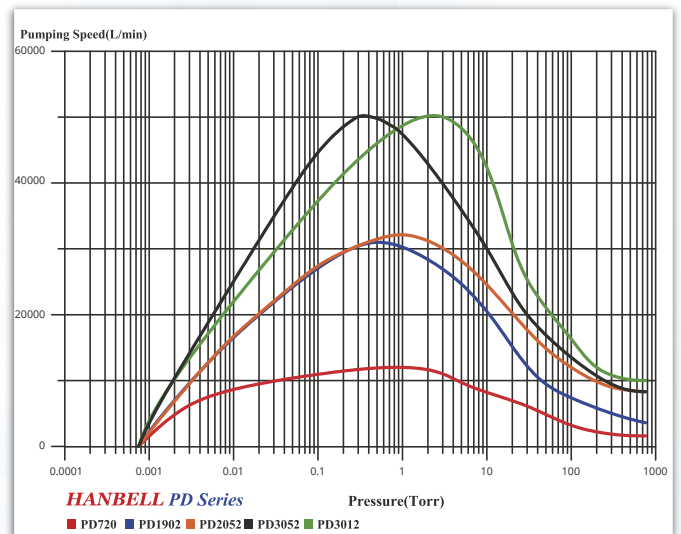
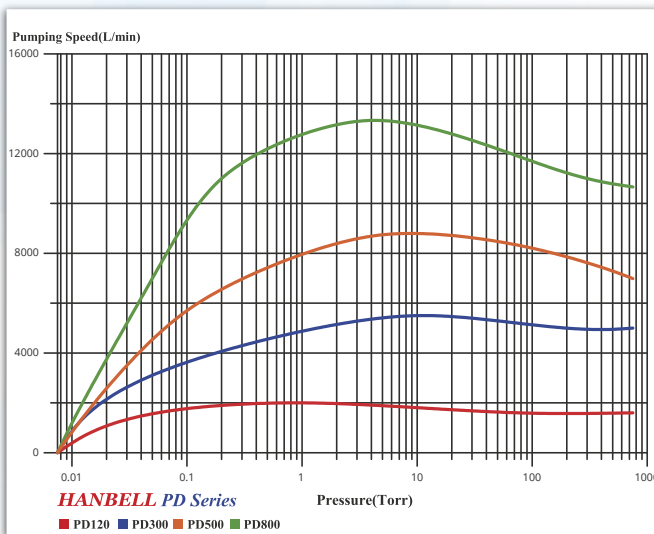


Model for A/H Type

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 quility water supply.
PSC/PDC Series C-Flanged for NEMA/IEC, Special Coating, Special Shaft Seal.

Ihr Händler und Servicepartner: **Infraserv Vakuumservice GmbH**

Gleiwitzer Straße 8, 85386 Eching | www.vakuumservice.de | mail@infraservgmbh.com | phone: +49 89 319 01 03