



Tuthill Vacuum & Blower Systems
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tuthillvacuumblower.com

TECHNICAL BULLETIN #41

Obsolete Models

External Lube on PD Plus 3200-4000-5500

Effective 1/1/2012 PD Plus 3200-4000-5500 blowers with external lubrication will no longer be available. Parts support will remain intact but replacement parts will not be maintained in inventory. This will impact delivery time of replacement parts.

External lubrication was used for applications in remote areas where checking oil was difficult, Low rpm blowers which operate below the minimum recommended speed or high temperature applications to extend oil life. Be sure to review the application with the customer to assure correct countermeasures are applied to assure satisfactory performance.

Obsolete Series	Replace With
18/85	17/46
54/84	57/81
65/68	64/67

External Lube on PD Plus 7000 – 18/85, 54/84, 65/68

Effective 1/1/2012 all PD Plus 7000 series blowers with external lubrication will no longer be available.

External lubrication is the same as above.

Obsolete Series	Replace With
18/85	17/46
54/84	57/81 or 55/82
65/68	64/67 or 66/69

Vent to Inlet on PD Plus 17/46 series blowers

Effective 1/1/2012 V (Vent to inlet) is no longer available with 17/46 and V (vent to inlet) is no longer available with “H” high pressure option.

Vent to Inlet has been utilized on 17/46 series PD Plus to reduce leakage of air past the labyrinth seals. The small amount of air leakage past the labyrinth seals is required for oil-free air delivery. We do not support the incorporation of external vent tubing on high pressure (20-100 PSIG) blowers as the possibility of damage to vent tubing under pressure outweighs any benefit perceived by the presence of the vent piping.

Obsolete Series	Replace With
17V/46V	57/81
18V/85V	57/81
19V/86V	57/81 or 55/82



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TECHNICAL BULLETIN #41 (CONT.)

Obsolete Models

PTFE coated Viton & Aflas O-Rings

Effective 1/1/2012 all PD Plus mechanical seal blowers with PTFE coated or Aflas o-rings are no longer available.

PTFE powder or PTFE impregnated paint has been used to reduce sticking of PTFE mechanical seal o-rings. The chemical resistance of the o-ring remains the same as Viton. Replace with Viton.

Aflas has been provided for steam use only. Some problems have occurred where the steam is contaminated with solvents and Aflas does not have good chemical resistance beyond steam. Use Kalrez for steam applications.

PD Plus Gearhead blowers

Effective 1/1/2012 PD Plus Gearhead blowers are no longer available.

These have been used in the past to adapt direct drive motors to have different rpm's. VFD's have made these obsolete. These will be replaced by belt drives, direct drive with different size blowers or direct drive with VFD's.

TECHNICAL BULLETIN #41 (CONT.)

Obsolete Models

Competitor Low noise 21 Series

Effective 1/1/2012 noise control (3N) and 3-lobe rotors are no longer available on 21 series. Replace with 3 lobe N series 22 blowers. Same sizing applies.

Obsolete Series	Replace With
21T3, 21T3N	22T3N
21B3, 21B3N	22B3N
21R3, 21R3N	22R3N
21L3, 21L3N	22L3N

PD Plus 4006, 5509, 5516, 5520, 9012

Effective 7/1/2009 all models and seal series associated with these gear/rotor combinations are being deleted. Ex: 4006-46L3, 67L3, 81L3, 90L2..... Etc..

Additional options can be found using BlowerXpert and entering your process conditions. All replacement selections should be confirmed with BlowerXpert or by the factory.

Things to consider when selecting a replacement for these deleted models are:

- Conditions - Flow, blower speed, discharge temperature
- Port Size
- Port to Port Distance
- Drive shaft size
- Distance from port center line to new sheave location. Most likely the motor will need to be relocated.
- New blower speed. The factory will be available to assist in any drive sizing that may be required.

PORT SIZE

Deleted Model	Port Size	Recommended Replacement	Port Size
PD 4006	3" NPT, 3" FLG	PD 4009	3" NPT, 4" FLG
		QX 3208	4" FLG
PD 5509	5" NPT, 6" FLG	PD 5507	4" NPT, 6" Inlet 3" Discharge FLG
		PD 5511	5" NPT, 6" FLG
PD 5516	8" FLG	PD 5514	6" FLG
PD 5520	8" FLG	PD 5518	8" FLG
PD 9012	10" FLG	PD 7017	10" FLG
9012 VB		7017 VB	10" FLG



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TECHNICAL BULLETIN #41 (CONT.)

Obsolete Models

DRIVE SHAFT DIAMETER

Deleted Model	Drive Shaft Diameter	Recommended Replacement	Drive Shaft Diameter
PD 4006	ALL SERIES 1.12	PD 4009	ALL SERIES 1.12
		QX 3208	ALL SERIES 1.37
PD 5509	17/57/46/81 1.75	PD 5507 / PD5511	17/57/46/81 1.75
PD 5516	64/67 1.50	PD 5514	64/67 1.50
PD 5520	90/91 1.37	PD 5518	90/91 1.50 after 7/1/2009
PD 9012	ALL SERIES 3.12	PD 7017	ALL SERIES 2.37
9012 VB		7017 VB	

PORT CENTER LINE TO END OF DRIVE SHAFT

Deleted Model	Port CL to D.S. (in)	Recommended Replacement	Port CL to D.S. (in)
PD 4006	17/57/46/81 12.81	PD 4009	17/57/46/81 14.31
	64/67 13.62		64/67 15.12
	90/91	QX 3208	90/91 13.00
PD 5509	17/57/46/81 17.37	PD 5507	17/57/46/81 16.62
	64/67 16.93		64/67 17.81 as of 7/1/09
	90/91 18.56	PD 5511	90/91 17.81
			17/57/46/81 18.37
			64/67 19.56 as of 7/1/09
			90/91 19.56
PD 5516	17/57/46/81 20.87	PD 5514	17/57/46/81 19.87
	64/67 20.43		64/67 21.06 as of 7/1/09
	90/91 22.06		90/91 21.06
PD 5520	17/57/46/81 22.87	PD 5518	17/57/46/81 21.87
	64/67 22.43		64/67 23.06 as of 7/1/09
	90/91 24.06		90/91 23.06
PD 9012	ALL SERIES 27.12	PD 7017	ALL SERIES 29.75
9012 VB		7017 VB	

PORT TO PORT DISTANCE

PD 4006	NPT 12.50, FLG 18.37	PD 4009	NPT 12.50, FLG 15.00
		QX 3208	ALL SERIES 13.54
PD 5509	NPT 17.0, FLG 20.00	PD 5507	NPT 17.00, FLG 20.00
		PD5511	
PD 5516	ALL SERIES 20.00	PD 5514	ALL SERIES 20.00
PD 5520	ALL SERIES 20.00	PD 5518	ALL SERIES 20.00
PD 9012	ALL SERIES 30.75	PD 7017	ALL SERIES 24.00
9012 VB		7017 VB	

Updated drawings are available at www.tuthill.com or contact Tuthill Vacuum & Blower Systems for certified drawings.