

# WOB-L<sup>™</sup> Piston Air Compressors and Vacuum Pumps

#### **MODELS**



#### **FEATURES**

- Service free and oil-less
- Compact design
- Balanced for smooth, low vibration operation
- Suitable for continuous running
- Wetted parts
  - Series 8003/8005/8006
     heat resistant high performance plastic,
    - Elastomer valves
  - Series 8009 corrosion resistant aluminium parts, stainless steel valves
  - Long-life, high performance piston seal (PTFE compound)

#### **TYPICAL APPLICATIONS**

- Medical industry
- Laboratory and Analysis technology
- Automotive
- Equipment manufacturing

Consult factory for customized solutions



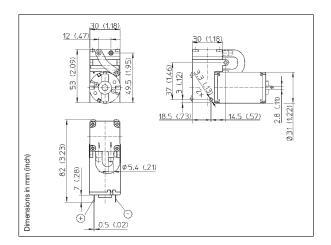


#### **WOB-L Piston Compressor** 8003D DC

Flow	3,0 l/min
Max. pressure	2,0 bar





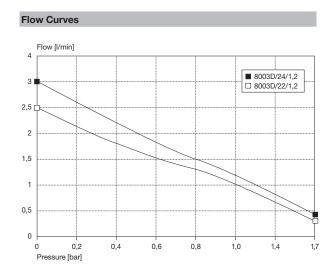


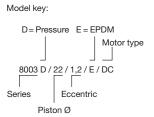
Pneumatic Data		
Description	8003D/22/1,2/E/DC	8003D/24/1,2/E/DC
12 V DC	80030054	80030055
24 V DC	80030057	80030058
Max. flow	2,5 l/min	3,0 l/min
Max. pressure	2,0 bar	2,0 bar
Max. continuous pressure	1,0 bar	0,8 bar
Max. restart pressure	1,0 bar	0,8 bar

Electrical Data		
Motor type	Direct current	Direct current
Nominal voltage	12 V/24 V DC	12 V/24 V DC
Nominal speed	3000 rpm	3000 rpm
Power consumption	7,5 W	8,5 W
Motor insulation class	A	A

General Data			
Ambient temperature	10 to 40 °C	10 to 40 °C	
Media temperature	10 to 60 °C	10 to 60 °C	
Weight	0,19 kg	0,19 kg	
Port direction	D	D	

All listed values measured at standard atmospheric conditions.





8003... Stock programme
Option:
Low cost DC-motor

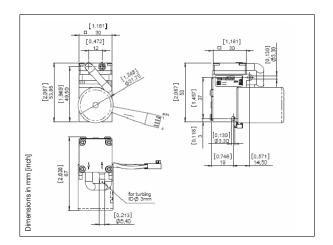


#### WOB-L Piston Compressor 8003D BLDC

Flow	4,3 l/min	
Max. pressure	2,0 bar	







<b>Pneumatic Data</b>		
Description		8003D/24/1,2/E/BLDC
Part number	12 V DC	80030802
	24 V DC	80030803
Max. flow		4,3 l/min
Max. pressure		2,0 bar
Max. continuous pressure		1,0 bar
Max. restart pressure		2,0 bar

<b>Electrical Data</b>		
Motor type		Brushless DC
Nominal speed		04.600 rpm
Nominal voltage		12/24 V DC
Drive electronics		integrated with reverse supply voltage protection
Max. power cons	umption	8,5 W
Motor insulation	class	В
Protection class		IP20
Connector	Housing:	Molex KK 22-01-2045
	Terminal:	Molex KK 08-50-0031

Wiring diagram

Optional: Adapter for 2-wire duty incl. potentiometer for speed adjustment

General Data	
Ambient temperature	1540°C
Media temperature	1540°C
Weight	160 g
Port direction	D

Flow Curves vs. Speed Control Input

0,6

	Function	Colour	Control
Pin 1	V Supply	Red	12 VDC (max. voltage range: 1018 VDC) 24 VDC (max. voltage range: 1028 VDC)
Pin 2	Ground	Black	Ground for Vsupply (PIN 1) and Speed Control (PIN3)
Pin 3	Speed control	White	analog: 05 VDC (max. 28V) PWM: 620 kHz - 1496% Speed voltage input threshold: 0,2 V
Pin 4	Tacho out	Green	18 pulses per revolution Pulse time "LOW": 195 µs Output level "LOW": 0 / max. 0,5 V Output level "HIGH": min. 4 V / max. 5 V

# 

1,0 1,2

Pressure [bar]

1,8

 Wetted Parts

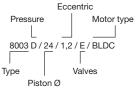
 Pump head
 PAA (IXEF)

 Cylinder sleeve
 PPS

 Piston sealing
 PTFE

 Valves
 EPDM

Model key:



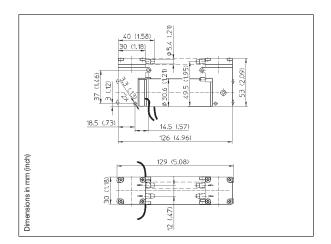


#### WOB-L Piston Compressor 8003ZDP DC

Flow	5,4 l/min
Max. pressure	2,0 bar







<b>Pneumatic Data</b>			
Description		8003ZDP/24/1,2/E/DC	
Part number	12 V DC	80030300	
Max. flow		5,4 l/min	
Max. pressure		2,0 bar	
Max. continuous	pressure	0,3 bar	
Max. restart pressure		0.5 bar	

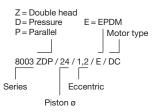
Electrical Data		
Motor type	Direct current	
Nominal voltage	12 V DC	
Nominal speed	2800 rpm	
Power consumption	13 W	
Motor insulation class	F	

General Data		
Ambient temperature	10 to 40 °C	
Media temperature	10 to 60 °C	
Weight	0,35 kg	
Port direction	CB	
Configuration	Parallel	

All listed values measured at standard atmospheric conditions.

# Flow Curves Flow [l/min] 6 5 4 3 2,5 2 1,5 1 0,5 0 0 0,2 0,4 0,6 0,8 1,0 1,4 1,7 Pressure [bar]

#### Model key:



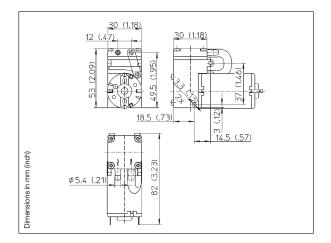


### WOB-L Piston Vacuum Pump 8003V DC

Flow	3,0 l/min
Max. vacuum	59 %







	8003V/22/1,2/E/DC	8003V/24/1,2/E/DC
12 V DC	80030067	80030068
24 V DC	80030071	80030072
	2,5 l/min	3,0 l/min
	58 %	59 %
	58 %	59 %
	Direct current	Direct current
	12 V/24 V DC	12 V/24 V DC
	3000 rpm	3000 rpm
	5,5 W	6 W
		12 V DC 80030067 24 V DC 80030071 2,5 l/min 58 % 58 % Direct current 12 V/24 V DC 3000 rpm

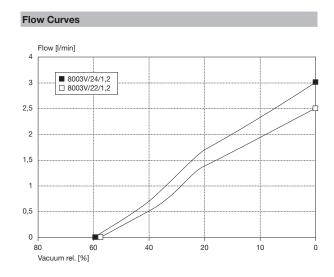
General Data			
Ambient temperature	10 to 40 °C	10 to 40 °C	
Media temperature	10 to 60 °C	10 to 60 °C	
Weight	0,19 kg	0,19 kg	
Port direction	D	D	

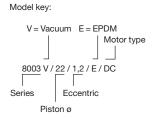
Α

All listed values measured at standard atmospheric conditions.

Α

Power consumption Motor insulation class





8003... Stock programme Option: Low cost DC-motor

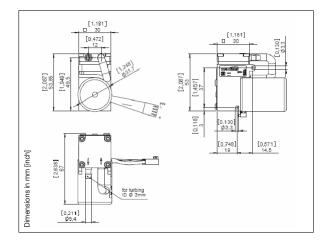


#### WOB-L Piston Vacuum Pump 8003V BLDC

Flow	4,3 l/min	
Final Vacuum	65 %	







Pneumatic Data		
Description		8003V/24/1,2/E/BLDC
Part number	12 V DC	80030800
	24 V DC	80030801
Max. flow		4,3 l/min
Max. intermittent vacuum		65 %
Max. continuous vacuum		65 %
Max. restart vacuum		65 %

<b>Electrical Data</b>		
Motor type		Brushless DC
Nominal speed		04.600 rpm
Nominal voltage		12/24 V DC
Drive electronics		integrated with reverse supply voltage protection
Max. power cons	umption	7 W
Motor insulation	class	В
Protection class		IP20
Connector	Housing:	Molex KK 22-01-2045
	Terminal:	Molex KK 08-50-0031

Wiring diagram

Optional: Adapter for 2-wire duty incl. potentiometer for speed adjustment

General Data	
Ambient temperature	1540°C
Media temperature	1540°C
Weight	160 g
Port direction	D

Flow Curves vs. Speed Control Input

70 60 Vacuum rel. [%]

	Function	Colour	Control
Pin 1	V Supply	Red	12 VDC (max. voltage range: 1018 VDC) 24 VDC (max. voltage range: 1028 VDC)
Pin 2	Ground	Black	Ground for Vsupply (PIN 1) and Speed Control (PIN3)
Pin 3	Speed control	White	analog: 05 VDC (max. 28V) PWM: 620 kHz - 1496% Speed voltage input threshold: 0,2 V
Pin 4	Tacho out	Green	18 pulses per revolution Pulse time "LOW": 195 µs Output level "LOW": 0 / max. 0,5 V Output level "HIGH": min. 4 V / max. 5 V

# 

 Wetted Parts

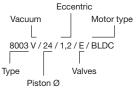
 Pump head
 PAA (IXEF)

 Cylinder sleeve
 PPS

 Piston sealing
 PTFE

 Valves
 EPDM

Model key:



The information presented in this material is based on technical data and test results of nominal units. It is believed to be accurate and reliable and is offered as an aid to help in the selection of Thomas products. It is the responsibility of the user to determine the suitability of the product for the intended use and the user assumes all risk and liability whatsoever in connection therewith. Thomas does not warrant, quarantee or assume any obligation or liability in connection with this information.

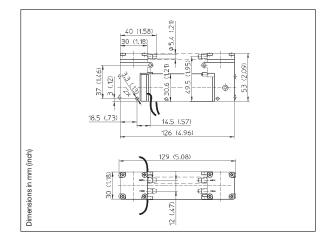


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# WOB-L Piston Vacuum Pump 8003ZVR/ZVP DC

Flow	5,4 l/min
Max. vacuum	80 %



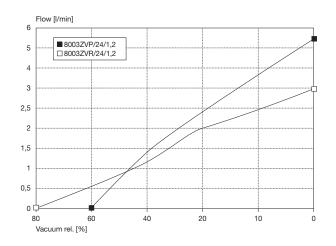


Pneumatic Data			
Description		8003ZVR/24/1,2/E/DC	8003ZVP/24/1,2/E/DC
Part number	12 V DC	80030321	80030320
Max. flow		2,9 l/min	5,4 l/min
Max. vacuum		80 %	59 %
Max. restart vacuum		80 %	59 %

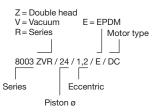
Electrical Data		
Motor type	Direct current	Direct current
Nominal voltage	12 V DC	12 V DC
Nominal speed	2800 rpm	2800 rpm
Power consumption	11 W	11 W
Motor insulation class	E	E

General Data		
Ambient temperature	10 to 40 °C	10 to 40 °C
Media temperature	10 to 60 °C	10 to 60 °C
Weight	0,35 kg	0,35 kg
Port direction	DD	СВ
Configuration	Series	Parallel

All listed values measured at standard atmospheric conditions.



#### Model key:



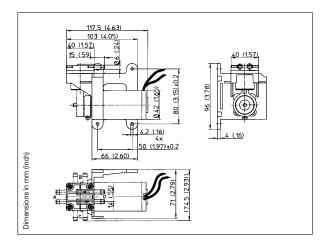


#### **WOB-L Piston Compressor** 8005D DC

Flow	7,2 l/min	
Max. pressure	2,5 bar	





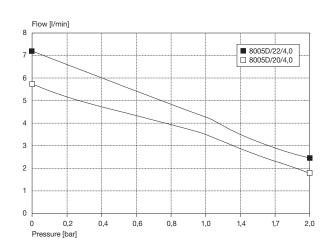


<b>Pneumatic Data</b>			
Description		8005D/20/4,0/V/DC	8005D/22/4,0/V/DC
Part number	12 V DC	80050062	80050077
	24 V DC*	80050064	80050079
Max. flow		5,8 l/min	7,2 l/min
Max. pressure		2,5 bar	2,5 bar
Max. continuous pressure 1,5 bar		1,5 bar	1,5 bar
Max. restart pressure 2,5 bar		2,5 bar	2,3 bar

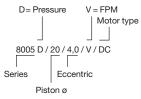
Electrical Data		
Motor type	Direct current	Direct current
Nominal voltage	12 V/24 V DC	12 V/24 V DC
Nominal speed	3500/3200 rpm	3500/3200 rpm
Power consumption	26 W	32 W
Motor insulation class	E	E

General Data			
Ambient temperature	10 to 40 °C	10 to 40 °C	
Media temperature	10 to 60 °C	10 to 60 °C	
Weight	1,1 kg	1,1 kg	
Port direction	D	D	

<sup>\*</sup> Due to a difference in nominal speeds the 24 V DC units have a 10% reduced flow rate when compared to the 12 V DC units. All listed values measured at standard atmospheric conditions.



#### Model key:



Option: Noise reduced head Brushless DC-motor

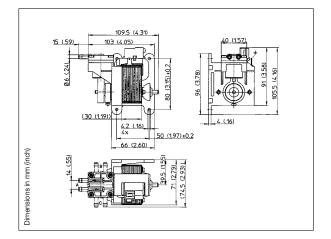


#### **WOB-L Piston Compressor** 8005D AC

Flow	6,0 l/min
Max. pressure	2,5 bar





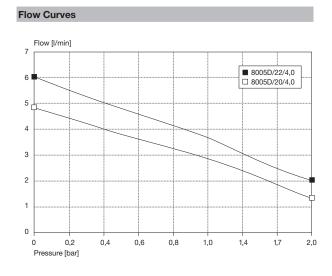


Pneumatic Data			
Description		8005D/20/4,0/V/AC	8005D/22/4,0/V/AC
Part number	230 V/50 Hz	80050063	80050078
Max. flow		4,8 l/min	6,0 l/min
Max. pressure		2,5 bar	2,5 bar
Max. continuous pressure		1,5 bar	1,5 bar
Max. restart pressure		0,5 bar	0,4 bar

Electrical Data		
Motor type	Shaded pole	Shaded pole
Nominal voltage	230 V/50 Hz	230 V/50 Hz
Nominal speed	2400 rpm	2400 rpm
Power consumption	135 W	135 W
Motor insulation class	F	F
Thermal switch	115 °C	115 °C

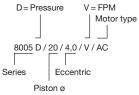
General Data			
Ambient temperature	10 to 40 °C	10 to 40 °C	
Media temperature	10 to 40 °C	10 to 40 °C	
Weight	1,1 kg	1,1 kg	
Port direction	A	A	

All listed values measured at standard atmospheric conditions.



Model key:

D=Pressure V=F



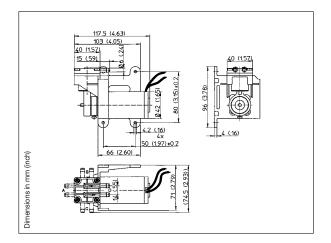


#### **WOB-L Piston Vacuum Pump** 8005V DC

Flow	7,2 l/min
Max. vacuum	78 %





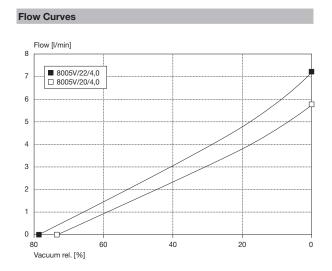


Pneumatic Data			
Description		8005V/20/4,0/V/DC	8005V/22/4,0/V/DC
Part number	12 V DC	80050034	80050039
	24 V DC*	80050044	80050049
Max. flow		5,8 l/min	7,2 l/min
Max. vacuum		73 %	78 %
Max. restart vacuum 73 %		73 %	78 %

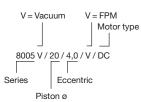
Electrical Data		
Motor type	Direct current	Direct current
Nominal voltage	12 V/24 V DC	12 V/24 V DC
Nominal speed	3500/3250 rpm	3500/3250 rpm
Power consumption	22 W	26 W
Motor insulation class	E	E

General Data			
Ambient temperature	10 to 40 °C	10 to 40 °C	
Media temperature	10 to 60 °C	10 to 60 °C	
Weight	1,1 kg	1,1 kg	
Port direction	D	D	

<sup>\*</sup> Due to a difference in nominal speeds the 24 V DC units have a 10% reduced flow rate when compared to the 12 V DC units. All listed values measured at standard atmospheric conditions.



Model key:



Option: Noise reduced head Brushless DC-motor

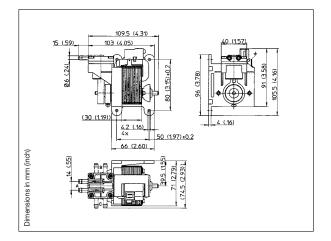


# WOB-L Piston Vacuum Pump 8005V AC

Flow	6,0 l/min
Max. vacuum	78 %





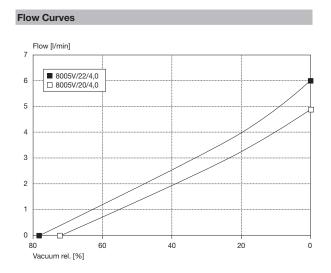


Pneumatic Data			
Description		8005V/20/4,0/V/AC	8005V/22/4,0/V/AC
Part number	230 V/50 Hz	80050017	80050022
Max. flow		4,8 l/min	6,0 l/min
Max. vacuum		73 %	78 %
Max. restart vacuum		Ambient pressure	Ambient pressure
Electrical Data			

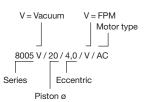
Electrical Data		
Motor type	Shaded pole	Shaded pole
Nominal voltage	230 V/50 Hz	230 V/50 Hz
Nominal speed	2400 rpm	2400 rpm
Power consumption	135 W	135 W
Motor insulation class	F	F
Thermal switch	115 °C	115 °C

General Data			
Ambient temperature	10 to 40 °C	10 to 40 °C	
Media temperature	10 to 40 °C	10 to 40 °C	
Weight	1,1 kg	1,1 kg	
Port direction	Α	A	

All listed values measured at standard atmospheric conditions.



Model key:



Option: Noise reduced head

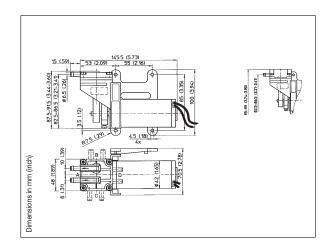


#### **WOB-L Piston Compressor** 8006D DC

Flow	15,8 I/min
Max. pressure	3,0 bar





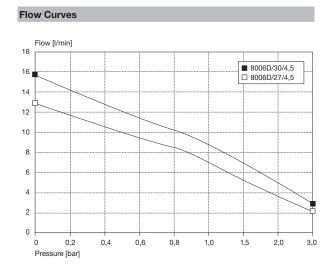


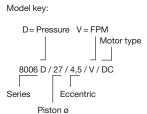
<b>Pneumatic Data</b>			
Description		8006D/27/4,5/V/DC	8006D/30/4,5/V/DC
Part number	12 V DC	80060057	80060071
	24 V DC	80060110	80060079
Max. flow		13,0 l/min	15,8 l/min
Max. pressure		3,0 bar	3,0 bar
Max. continuous	pressure	1,0 bar	1,0 bar
Max. restart press	sure	1,0 bar	0,4 bar

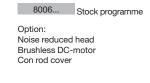
Electrical Data		
Motor type	Direct current	Direct current
Nominal voltage	12 V/24 V DC	12 V/24 V DC
Nominal speed	2800 rpm	2800 rpm
Power consumption	40 W	46 W
Motor insulation class	E	E

General Data			
Ambient temperature	10 to 40 °C	10 to 40 °C	
Media temperature	10 to 60 °C	10 to 60 °C	
Weight	1,2 kg	1,2 kg	
Port direction	D	D	

All listed values measured at standard atmospheric conditions.







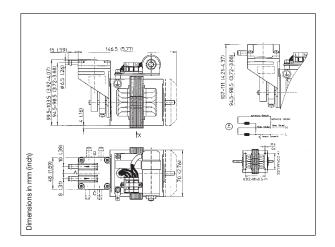


#### **WOB-L Piston Compressor** 8006D AC

Flow	15,8 l/min
Max. pressure	3,0 bar







Description		8006D/27/3,5/V/AC	8006D/27/4,5/V/AC	8006D/30/4,5/V/AC
Part number	230 V/50 Hz	80060096	80060098	80060007
Max. flow		10,1 l/min	13,0 l/min	15,8 l/min
Max. pressure		3,0 bar	3,0 bar	3,0 bar
/lax. continuous p	ressure	1,5 bar	1,2 bar	1,0 bar
lax. restart press	ure	Ambient pressure	Ambient pressure	Ambient pressure

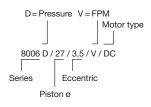
Electrical Data				
Motor type	Capacitor	Capacitor	Capacitor	
Nominal voltage	230 V/50 Hz	230 V/50 Hz	230 V/50 Hz	
Nominal speed	2800 rpm	2800 rpm	2800 rpm	
Power consumption	80 W	80 W	80 W	
Motor insulation class	F	F	F	
Thermal switch	150° C	150° C	150° C	

General Data				
Ambient temperature	10 to 40 °C	10 to 40 °C	10 to 40 °C	
Media temperature	10 to 40 °C	10 to 40 °C	10 to 40 °C	
Weight	1,5 kg	1,5 kg	1,5 kg	
Port direction	A	А	A	

All listed values measured at standard atmospheric conditions.

# Flow Curves Flow [l/min] 8006D/30/4,5 8006D/27/4,5 \$8006D/27/3,5 14 12 10 0 0,2 0,4 0,6 0,8 1,0 1,5 2,0 3,0 Pressure [bar]

Model key:



Option: Noise reduced head Con rod cover

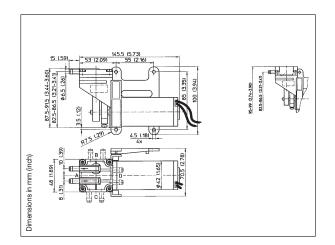


### WOB-L Piston Vacuum Pump 8006V DC

Flow	15,8 l/min
Max. vacuum	80 %

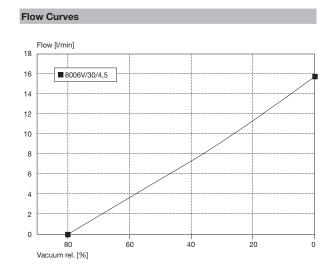


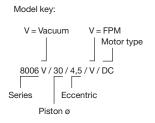




<b>Pneumatic Data</b>		
Description		8006V/30/4,5/V/DC
Part number	12 V DC	80061068
	24 V DC	80061075
Max. flow		15,8 l/min
Max. vacuum		80 %
Max. restart vacuu	um	Ambient pressure
Electrical Data		
Motor type		Direct current
Nominal voltage		12 V/24 V DC
Nominal speed		2800 rpm
Power consumption	on	39 W
Motor insulation c	lass	E
General Data		
Ambient temperat	ture	10 to 40 °C
Media temperature	e	10 to 60 °C
Weight		1,2 kg
Port direction	·	D

All listed values measured at standard atmospheric conditions.





8006... Stock programme
Option:
Noise reduced head
Brushless DC-motor
Con rod cover

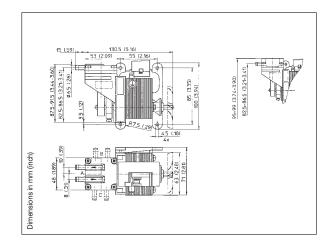


## WOB-L Piston Vacuum Pump 8006V AC

Flow	14,2 l/min
Max. vacuum	80 %

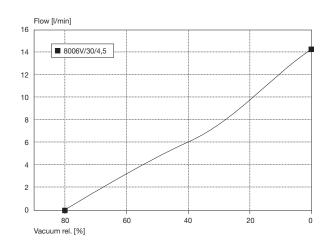


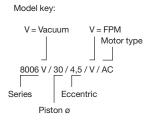




Pneumatic Data		
Description		8006V/30/4,5/V/AC
Part number	230 V/50 Hz	80060010
Max. flow		14,2 l/min
Max. vacuum		80 %
Max. restart vacuum		Ambient pressure
Electrical Data		
Motor type		Shaded pole
Nominal voltage		230 V/50 Hz
Nominal speed		2800 rpm
Power consumption		95 W
Motor insulation class		F
Thermal switch		150 °C
General Data		
Ambient temperature		10 to 40 °C
Media temperature		10 to 40 °C
Weight		1,5 kg
Port direction	·	A

All listed values measured at standard atmospheric conditions.





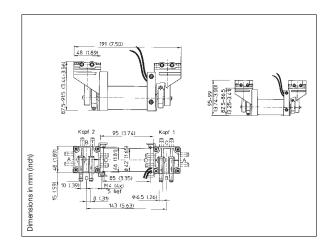
8006... Stock programme
Option:
Noise reduced head
Con rod cover



#### WOB-L Piston Vacuum Pump 8006ZV DC

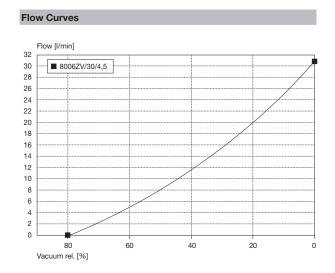
Flow	31,0 l/min
Max. vacuum	80 %



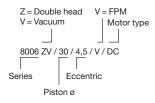


Pneumatic Data			
Description		8006ZV/30/4,5/V/DC	
Part number	12 V DC	80060131	
	24 V DC	80060135	
Max. flow		31,0 l/min	
Max. vacuum		80 %	
Max. restart vacuu	m	Ambient pressure	
Electrical Data			
Motor type		Direct current	
Nominal voltage		12 V/24 V DC	
Nominal speed		2800 rpm	
Power consumption	on	60 W	
Motor insulation cl	ass	E	
General Data			
Ambient temperatu	ure	10 to 40 °C	
Media temperature	9	10 to 60 °C	
Weight		0,93 kg	
Port direction		СВ	
Configuration		parallel	

All listed values measured at standard atmospheric conditions. Pneumatic data refer to parallel configuration.



#### Model key:



Option: Noise reduced head Brushless DC-motor Con rod cover

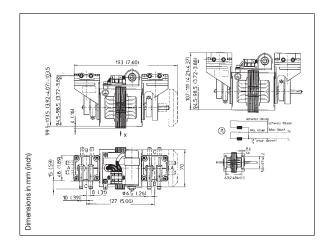


#### WOB-L Piston Vacuum Pump 8006ZV AC

Flow 29,0 l/min
Max. vacuum 95 %





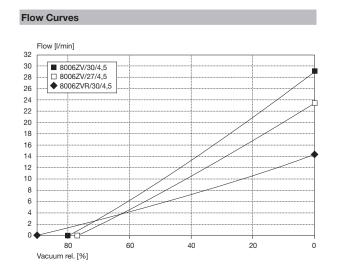


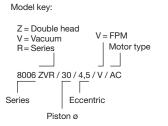
Pneumatic Data				
Description		8006ZVR/30/4,5/V/AC	8006ZV/27/4,5/V/AC	8006ZV/30/4,5/V/AC
Part number	230 V/50 Hz	80060442	80060105	80060109
Max. flow		14,2 l/min	23,5 l/min*	29,0 l/min*
Max. vacuum		95 %	78 %*	80 %*
Max. restart vacuum		Ambient pressure	Ambient pressure*	Ambient pressure*

Electrical Data				
Motor type	Capacitor	Capacitor	Capacitor	
Nominal voltage	230 V/50 Hz	230 V/50 Hz	230 V/50 Hz	
Nominal speed	2800 rpm	2800 rpm	2800 rpm	
Power consumption	85 W	85 W	85 W	
Motor insulation class	F	F	F	
Thermal switch	150 °C	150 °C	150 °C	

General Data				
Ambient temperature	10 to 40 °C	10 to 40 °C	10 to 40 °C	
Media temperature	10 to 40 °C	10 to 40 °C	10 to 40 °C	
Weight	2,0 kg	2,0 kg	2,0 kg	
Port direction	СВ	СВ	CB	
Configuration	series	parallel	parallel	

All listed values measured at standard atmospheric conditions.





8006... Stock programme
Option:
Noise reduced head
Con rod cover



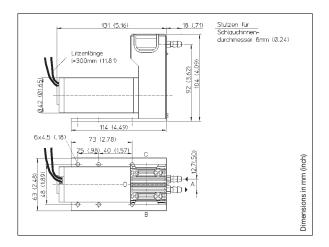
<sup>\*</sup>Pneumatic data refer to parallel configuration.

#### WOB-L Piston Compressor 8009D DC

Flow	14,0 l/min
Max. pressure	7,0 bar





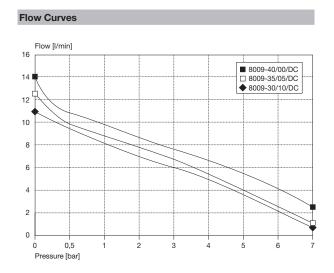


<b>Pneumatic Data</b>					
Description		8009-30/10/DC	8009-35/05/DC	8009-40/00/DC	
Part number	12 V DC	80091019	80091020	80091021	
	24 V DC	80091031	80091032	80091033	
Max. flow		11,0 l/min	12,5 l/min	14,0 l/min	
Max. pressure		7,0 bar	7,0 bar	7,0 bar	
Max. continuous	pressure	1,5 bar	1,2 bar	1,0 bar	
Max. restart press	sure	0,8 bar	0,6 bar	0,5 bar	

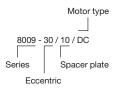
Electrical Data				
Motor type	Direct current	Direct current	Direct current	
Nominal voltage	12 V/24 V DC	12 V/24 V DC	12 V/24 V DC	
Nominal speed	2800 rpm	2800 rpm	2800 rpm	
Power consumption	50 W	58 W	65 W	
Motor insulation class	E	E	E	

General Data				
Ambient temperature	10 to 40 °C	10 to 40 °C	10 to 40 °C	
Media temperature	10 to 60 °C	10 to 60 °C	10 to 60 °C	
Weight	1,1 kg	1,1 kg	1,1 kg	
Port direction	A	А	A	

All listed values measured at standard atmospheric conditions.



Model key:



8009... Stock programme

Option: Different heads and outlet connectors

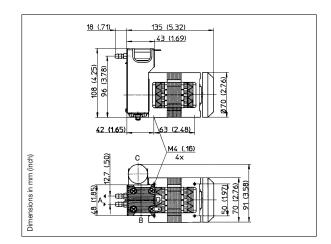


#### WOB-L Piston Compressor 8009D AC

Flow	11,8 I/min
Max. pressure	7,0 bar





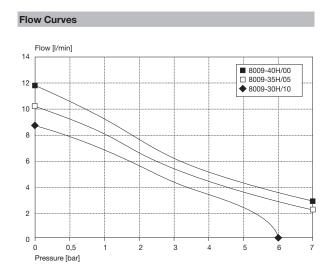


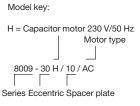
Pneumatic Data					
Description		8009-30H/10/AC	8009-35H/05/AC	8009-40H/00/AC	
Part number	230 V/50 Hz	80091037	80091038	80091039	
Max. flow		8,8 l/min	10,3 l/min	11,8 l/min	
Max. pressure		6,0 bar	7,0 bar	7,0 bar	
Max. continuous p	ressure	1,8 bar	1,4 bar	1,0 bar	
Max. restart pressi	ure	0,5 bar	Ambient pressure	Ambient pressure	

Electrical Data				
Motor type	Capacitor	Capacitor	Capacitor	
Nominal voltage	230 V/50 Hz	230 V/50 Hz	230 V/50 Hz	
Nominal speed	2700 rpm	2700 rpm	2700 rpm	
Power consumption	78 W	78 W	78 W	
Motor insulation class	В	В	В	
Thermal switch	130 °C	130 °C	130 °C	

General Data				
Ambient temperature	10 to 40 °C	10 to 40 °C	10 to 40 °C	
Media temperature	10 to 40 °C	10 to 40 °C	10 to 40 °C	
Weight	1,7 kg	1,7 kg	1,7 kg	
Port direction	A	А	A	

All listed values measured at standard atmospheric conditions.





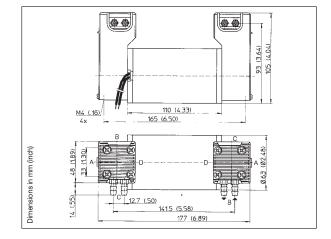
8009... Stock programme
Option:
Different heads and outlet connectors



#### WOB-L Piston Compressor 8009ZD DC

Flow	24,5 l/min
Max. pressure	7,0 bar





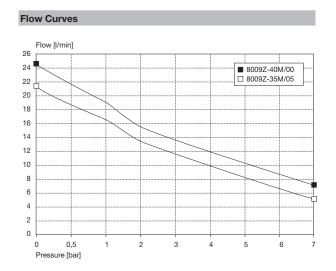
Pneumatic Data			
Description		8009Z-35M/05/DC	8009Z-40M/00/DC
Part number	24 V DC	80091066	80091067
Max. flow		21,4 l/min	24,5 l/min
Max. pressure		7,0 bar	7,0 bar
Max. continuous pressure		1,2 bar	1,0 bar
Max. restart pressi	ure	2,5 bar	2,0 bar

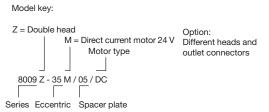
Electrical Data		
Motor type	Direct current	Direct current
Nominal voltage	24 V DC	24 V DC
Nominal speed	2900 rpm	2900 rpm
Power consumption	115 W	150 W
Motor insulation class	E	E

General Data			
Ambient temperature	10 to 40 °C	10 to 40 °C	
Media temperature	10 to 60 °C	10 to 60 °C	
Weight	2,1 kg	2,1 kg	
Port direction	СВ	СВ	
Configuration	parallel	parallel	

All listed values measured at standard atmospheric conditions.

Pneumatic data refer to parallel configuration.





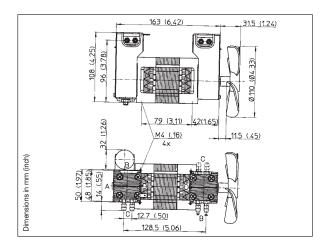


#### WOB-L Piston Compressor 8009ZD AC

Flow	22,4 I/min
Max. pressure	7,0 bar







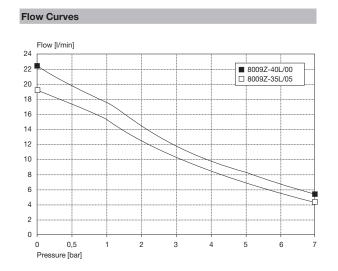
Pneumatic Data			
Description		8009Z-35L/05/AC	8009Z-40L/00/AC
Part number	230 V/50 Hz	80090378	80090435
Max. flow		19,6 l/min	22,4 l/min
Max. pressure		7,0 bar	7,0 bar
Max. continuous p	ressure	1,4 bar	1,0 bar
Max. restart pressu	ure	Ambient pressure	Ambient pressure

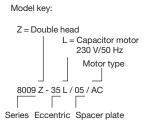
Electrical Data		
Motor type	Capacitor	Capacitor
Nominal voltage	230 V/50 Hz	230 V/50 Hz
Nominal speed	2700 rpm	2700 rpm
Power consumption	138 W	138 W
Motor insulation class	В	В
Thermal switch	130 °C	130 °C

General Data			
Ambient temperature	10 to 40 °C	10 to 40 °C	
Media temperature	10 to 40 °C	10 to 40 °C	
Weight	2,5 kg	2,5 kg	
Port direction	CB	CB	
Configuration	parallel	parallel	

All listed values measured at standard atmospheric conditions.

Pneumatic data refer to parallel configuration.





Different heads and outlet connectors

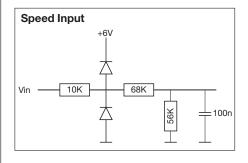
Option:

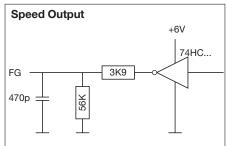
8009... Stock programme



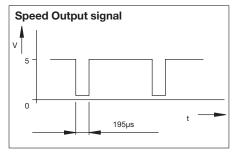
### Wiring diagram (8003 BLDC)

	Function	Colour	Control
Pin 1	V Supply	Red	12 VDC (max. voltage range: 1018 VDC)
			24 VDC (max. voltage range: 1028 VDC)
Pin 2	Ground	Black	Ground for Vsupply (PIN 1) and Speed Control (PIN3)
Pin 3	Speed control	White	analog: 05 VDC (max. 28V)
			PWM: 620 kHz - 1496%
			Speed voltage input threshold: 0,2 V
Pin 4	Tacho out	Green	18 pulses per revolution
			Pulse time "LOW": 195 μs
			Output level "LOW": 0 / max. 0,5 V
			Output level "HIGH": min. 4 V / max. 5 V





Optional: Adapter for 2-wire duty incl. potentiometer for speed adjustment



#### **Options / Accessories**

P/N 29011930 Adapter for BLDC motor

4-2 wire w/manual speed control

12VDC "red"

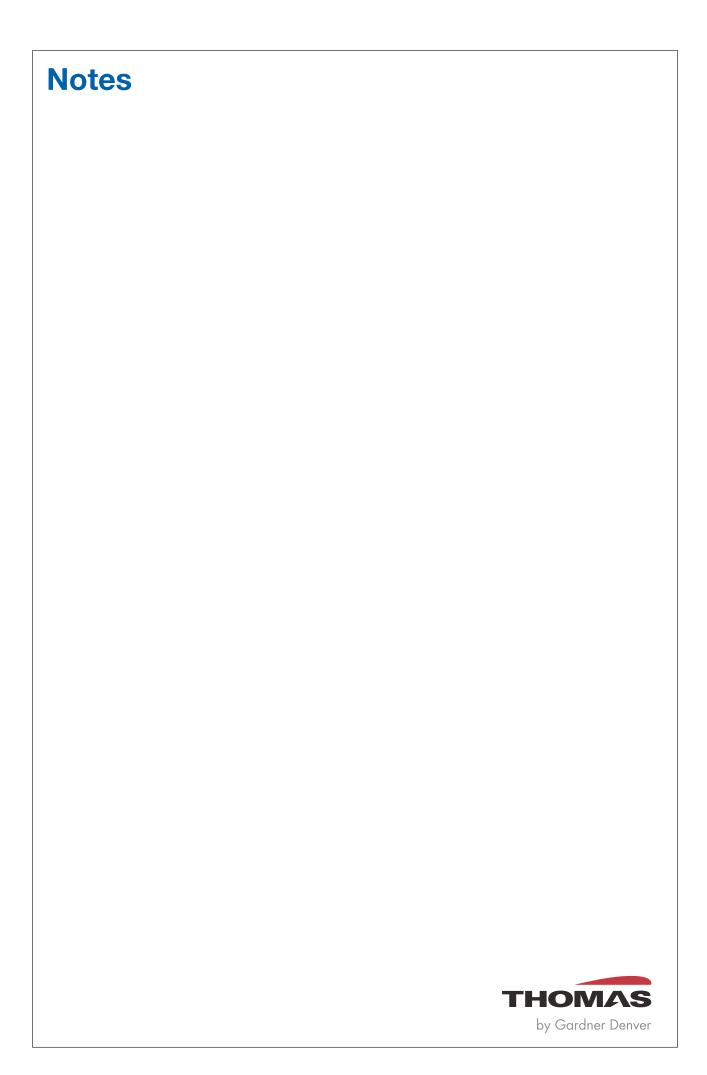
P/N 29011931 Adapter for BLDC motor

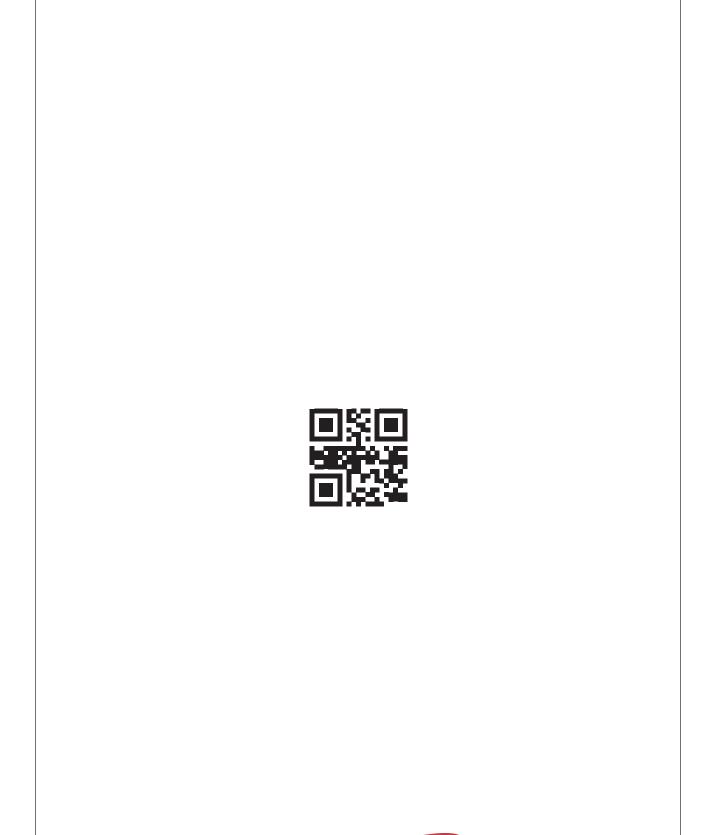
4-2 wire w/manual speed control

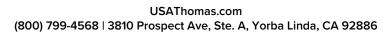
24VDC "black"











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**THOMAS** 

by Gardner Denver