

WOB-L™



# 327 SERIES

## MODELS

### Standard models 327CDC40/12

*Other models based  
on availability and  
minimum purchase.*

327CDC50/12  
327CDC56/12  
327CDC40/24  
327CDC50/24  
327CDC56/24  
327DDC56/12



327CDC Series



327DDC Series

## FEATURES

- Oil-less
- Die cast aluminum components
- Steel mounting brackets with vibration isolators
- Stainless steel valves
- PTFE piston ring
- Thermally protected motor
- Intermittent duty only
- All wetted aluminum parts treated for corrosion protection from moisture
- All other wetted parts stainless steel
- Radiated Emissions Suppression (Optional)

Consult factory for custom applications

ISO 9001  
CERTIFIED

**THOMAS**  
A Gardner Denver Product

# 327 Series Performance Data

		Standard							
MODEL NUMBER		327CDC40/12		327CDC50/12		327CDC56/12		327CDC40/24	
HEAD CONFIGURATION		Pressure/Vacuum		Pressure/Vacuum		Pressure/Vacuum		Pressure/Vacuum	
STROKE		.400 Inches		.500 Inches		.560 Inches		.400 Inches	
PRESSURE		Flow @ 12v		Flow @ 12v		Flow @ 12v		Flow @ 24v	
CFM @ PSI	LPM @ bar								
PSI	bar	CFM	LPM	CFM	LPM	CFM	LPM	CFM	LPM
0	0	1.12	31.2	1.23	34.8	1.08	30.6	1.05	29.7
20	2	0.94	24.8	1.11	27.2	0.98	25.5	0.89	23.4
40	4	0.81	18.7	0.96	24.5	0.82	20.7	0.76	19.0
60	6	0.66	15.0	0.84	20.2	0.73	17.4	0.67	14.5
80	8	0.57	11.6	0.74	17.3	0.66	14.6	0.54	11.3
100	10	0.49	9.3	0.64	15.0	0.57	11.6	0.49	9.3
120		0.41		0.58		0.50		0.40	
140		0.33		0.50		0.41		0.33	
<b>MAX. CONTINUOUS PRESSURE</b>									
<b>MAX. INTERMITTENT PRESSURE</b>		150 PSI	10.3 bar	150 PSI	10.3 bar	150 PSI	10.3 bar	150 PSI	10.3 bar
<b>MAX. DUTY CYCLE (MINUTES ON/OFF AT 23°C and 100 PSI)</b>		40% (13 on / 20 off)		30% (8.5 on / 20 off)		30% (8.5 on / 20 off)		40% (13 on / 20 off)	
<b>VACUUM</b>		Flow @ 12v DC		Flow @ 12v DC		Flow @ 12v DC		Flow @ 24v DC	
CFM @ IN. hg	LPM @ mbar (gauge)								
IN. hg	mbar (gauge)	CFM	LPM	CFM	LPM	CFM	LPM	CFM	LPM
0	0	1.12	31.2	1.23	34.8	1.08	30.6	1.05	29.7
5	-100	0.69	22.9	0.99	32.2	0.76	26.0	0.62	20.1
10	-200	0.48	19.8	0.72	28.3	0.55	21.5	0.43	17.6
15	-400	0.30	13.8	0.45	20.3	0.34	15.8	0.25	11.9
20	-600	0.24	8.4	0.36	13.0	0.26	10.1	0.20	6.5
<b>MAX. VACUUM</b>		25.0" hg	844.2 mbar	25.0" hg	844.2 mbar	25.0" hg	844.2 mbar	25.0" hg	844.2 mbar
<b>MAX. AMBIENT AIR TEMP.</b>		158° F	70°C	158° F	70°C	158° F	70°C	158° F	70°C
<b>MIN. AMBIENT START TEMP.</b>		-40° F	-40°C	-40° F	-40°C	-40° F	-40°C	-40° F	-40°C
<b>MAX. RESTART PRESSURE</b>		150 PSI	10.3 bar	150 PSI	10.3 bar	150 PSI	10.3 bar	150 PSI	10.3 bar
<b>MAX. RESTART VACUUM</b>		25.0"hg	844.2 mbar	25.0"hg	844.2 mbar	25.0"hg	844.2 mbar	25.0"hg	844.2 mbar
<b>MOTOR VOLTAGE/FREQUENCY</b>		12v DC		12v DC		12v DC		24v DC	
<b>MOTOR TYPE</b>		Permanent Magnet		Permanent Magnet		Permanent Magnet		Permanent Magnet	
<b>CURRENT AT RATED LOAD (AMPS)</b>		16.5		19.6		17.2		6.4	
<b>POWER AT RATED LOAD (WATTS)</b>									
<b>STARTING CURRENT (LOCKED ROTOR, AMPS)</b>		110		110		110		60	
<b>CAPACITOR VALUE</b>									
<b>MIN. FULL LOAD SPEED (RPM)</b>		3100		3000		3100		3100	
<b>THERMAL PROTECTOR</b>		Yes		Yes		Yes		Yes	
<b>NET WEIGHT</b>		6 lbs.	2.72 kg	6 lbs.	2.72 kg	6 lbs.	2.72 kg	6 lbs.	2.72 kg

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 his intended use and the user assumes all risk and liability whatsoever in connection therewith. Thomas Industries does not warrant, guarantee or assume any obligation or liability in connection with this information.

**NOTE:** Models pictured are representative of the series and do not represent a specific model number. Consult factory for detailed physical description.

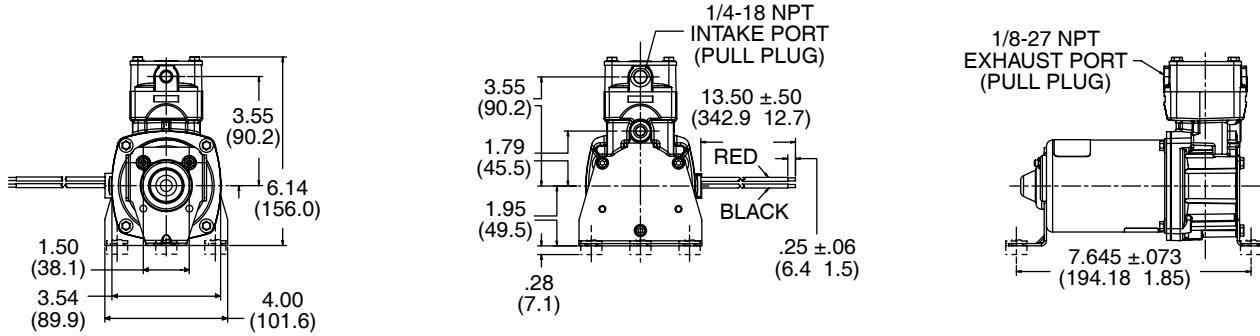
# 327 Series Performance Data

MODEL NUMBER		327CDC50/24		327CDC56/24		327DDC56/12*	
HEAD CONFIGURATION		Pressure/Vacuum		Pressure/Vacuum		Pressure	
STROKE		.500 Inches		.560 Inches		.560 Inches	
PRESSURE		Flow @ 24v		Flow @ 24v		Flow @ 12v	
CFM @ PSI	LPM @ bar						
PSI	bar	CFM	LPM	CFM	LPM	CFM	LPM
0	0	1.21	34.3	1.03	29.2	0.94	26.6
20	2	1.05	27.7	0.91	24.2	0.83	22.2
40	4	0.89	23.2	0.8	19.5	0.74	18.7
60	6	0.81	19.1	0.69	16.3	0.67	16.5
80	8	0.71	15.0	0.62	13.4	0.61	13.9
100	10	0.62	13.0	0.53	11.3	0.53	10.2
120		0.52		0.47		0.48	
140		0.44		0.40		0.38	
<b>MAX. CONTINUOUS PRESSURE</b>							
<b>MAX. INTERMITTENT PRESSURE</b>		150 PSI	10.3 bar	150 PSI	10.3 bar	150 PSI	10.3 bar
<b>MAX. DUTY CYCLE (MINUTES ON/OFF AT 23°C and 100 PSI)</b>		30% (8.5 on / 20 off)		35% (10.5 on / 20 off)		35% (10.5 on / 20 off)	
<b>VACUUM</b>		Flow @ 24v DC		Flow @ 24v DC		Flow @ 12v DC	
CFM @ IN. hg	LPM @ mbar (gauge)						
IN. hg	mbar (gauge)	CFM	LPM	CFM	LPM	CFM	LPM
0	0	1.21	34.3	1.03	29.2		
5	-100	0.70	22.9	0.62	21.0		
10	-200	0.49	19.8	0.42	17.8		
15	-400	0.27	14.2	0.23	12.7		
20	-600	0.21	7.9	0.21	7.1		
<b>MAX. VACUUM</b>		25.0" hg	844.2 mbar	25.0" hg	844.2 mbar		
<b>MAX. AMBIENT AIR TEMP.</b>		158° F	70°C	158° F	70°C	158° F	70°C
<b>MIN. AMBIENT START TEMP.</b>		-40° F	-40°C	-40° F	-40°C	-40° F	-40°C
<b>MAX. RESTART PRESSURE</b>		150 PSI	10.3 bar	150 PSI	10.3 bar	150 PSI	10.3 bar
<b>MAX. RESTART VACUUM</b>		25.0"hg	844.2 mbar	25.0"hg	844.2 mbar		
<b>MOTOR VOLTAGE/FREQUENCY</b>		24v DC		24v DC		12v DC	
<b>MOTOR TYPE</b>		Permanent Magnet		Permanent Magnet		Permanent Magnet	
<b>CURRENT AT RATED LOAD (AMPS)</b>		9.8		8.2		17.2	
<b>POWER AT RATED LOAD (WATTS)</b>							
<b>STARTING CURRENT (LOCKED ROTOR, AMPS)</b>		60		60		90	
<b>CAPACITOR VALUE</b>							
<b>MIN. FULL LOAD SPEED (RPM)</b>		2900		3000		3100	
<b>THERMAL PROTECTOR</b>		Yes		Yes		Yes	
<b>NET WEIGHT</b>		6 lbs.	2.72 kg	6 lbs.	2.72 kg	7.7 lbs.	3.5 kg

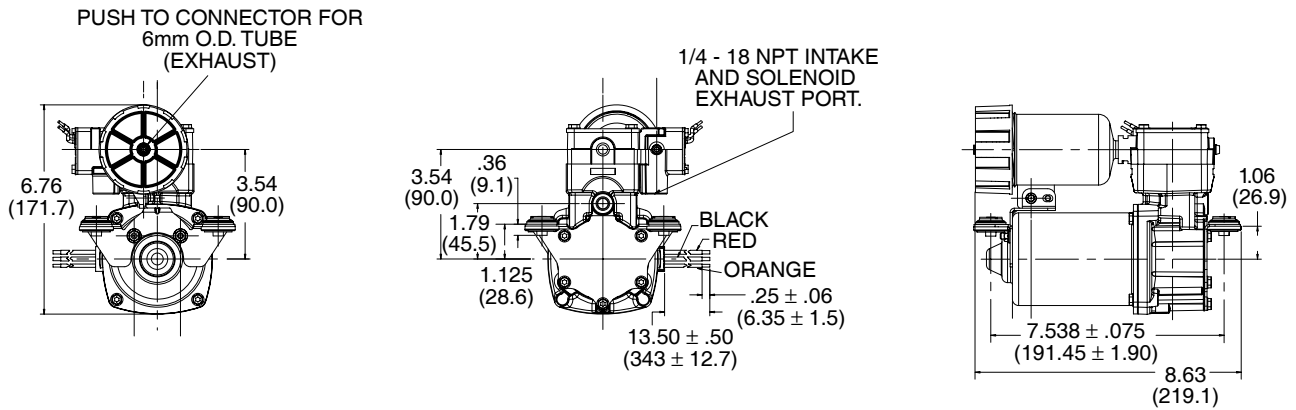
\* Unit meets Radiated Emissions performance per 95/54 EC

# Dimensions

## 327CDC



## 327DDC



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