# **380Z Series**

## FEATURES

- > Easy to use BLDC technology/operation
- > Onboard, integrated motor controller
- > Eight convenient fixed speed output selections
- >PWM signal input option for full range flexibility
- > RoHS and REACH compliant
- > Lightweight, compact design
- >Quiet/cool running
- >Wetted parts treated for corrosion resistance
- >Oil-less operation
- > Proven WOB-L® technology
- >Internal cooling air flow fan (no supplemental cooling required)

Declaration documentation available upon request

## TYPICAL APPLICATIONS

- >O<sub>2</sub> Concentrator
- >Blood or Laboratory Analyzers
- >IPV Therapy
- > Surgical Eye Care Equipment
- >Lithotripsy Device
- >Fuel Atomization



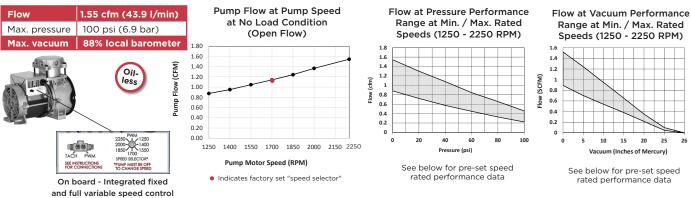
### BASE MODELS

380ZC32/24 (24V BLDC) 380ZC32/48 (48V BLDC)





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NOTE: All test values are nominal and for reference only. They are not guaranteed maximum or minimum limits, nor do they imply mean or median.

PERFORMANCE DATA	T21-0200 & T20-0	0282-1					
Model Number	380ZC32/24 or 380ZC32/48						
Nominal Input Voltage	24V or 48V BLDC versions available as shown in model numbers above						
Speed Setting	1250 RPM	1400 RPM	1550 RPM	1700 RPM	1850 RPM	2000 RPM	2250 RPM
Open Air Flow - cfm (I/min)	0.88 (24.9)	0.95 (26.9)	1.05 (29.7)	1.14 (32.3)	1.24 (35.1)	1.37 (38.8)	1.55 (43.9)
Max. rated pressure - psi (bar)	100 (6.9)	100 (6.9)	100 (6.9 )	100 (6.9 )	100 (6.9 )	100 (6.9 )	100 (6.9 )
Flow at rated pressure - cfm (I/min)	0.23 (6.5)	0.26 (7.4)	0.29 (8.2)	0.34 (9.6)	0.37 (10.4)	0.41 (11.6)	0.47 (13.3)
Current at rated max. pressure at 24V (A)	4.7	4.7	4.8	5.1	5.3	5.8	6.5
Current at rated pressure at 48V (A)	2.4	2.4	2.4	2.5	2.6	2.8	3.2
Power consumption at rated pressure (W)	114	113	115	121	127	137	152
Max. pressure restart - psi (bar)	35 (2.4)	35 (2.4)	35 (2.4)	35 (2.4)	35 (2.4)	35 (2.4)	35 (2.4)
Max. vacuum - % local barometer	84	85	85.5	86	87	87.5	88
Max. vacuum restart - % local barometer	84	85	85.5	86	87	87.5	88

Shaded column indicates factory pre-set "speed selector"

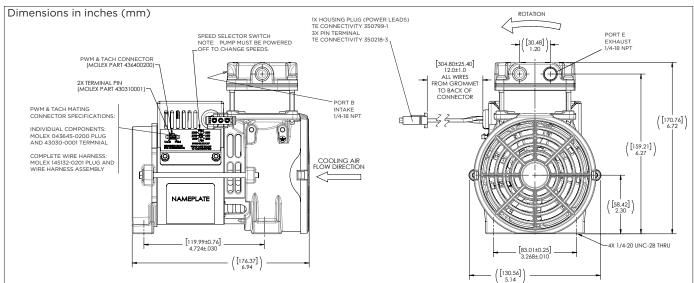
Motor type	24V or 48V BLDC, 8 pole, 3 phase delta options		
Motor insulation class	F		
Motor protection	Thermal fuse - One shot		
Thermal fuse open temperature	167°C +0/-0.5°C		
Power lead wire color, gauge	Black, 16 AWG   Green w/yellow, 18 AWG   Red, 16 AWG		
Power lead wire color function/pin ID	Black: 0 VDC/Pin 1   Green w/yellow: Ground/Pin 2   Red: +48VDC nominal/Pin 3		
I/O lead wire color function/pin ID	White: PWM/Pin1 Blue: Tach out/Pin 2 (See Speed Selection Instructions included with pump)		

#### GENERAL DATA

ELECTRICAL DATA

Operating ambient temperature	50° to 104°F (10°C TO 40°C)*
Pump functionality	Pump pre-set to 1700 RPM. 6 additional fixed speeds or PWM (1250-2250 RPM) may be selected
Net weight	6.94 lbs (3.15 kg)

#### PRODUCT DIMENSIONS



#### PUMP AND COMPRESSOR SOLUTIONS FOR OEMS WORLDWIDE gd-thomas.com





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