## 2380Z 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
- > Monolithic head
- > Wetted parts treated for corrosion resistance
- > Oil-less operation
- > Proven WOB-L® technology
- >Internal cooling air flow fans (no supplemental cooling required)

Declaration documentation available upon request

# **TYPICAL APPLICATIONS**

- > O<sub>2</sub> Concentrator
- > Blood or Laboratory Analyzers
- > IPV Therapy
- > Exoskeleton
- > Surgical Eye Care Equipment
- > Portable Electrostatic Sprayers



2380ZC32/24 (24V BLDC) 2380ZC32/48 (48V BLDC)





## 2380Z Series

 Flow
 3.14 cfm (88.9 l/min)

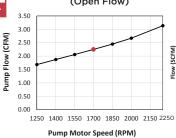
 Max. pressure
 100 psi (6.9 bar)

 Max. vacuum
 90% local barometer



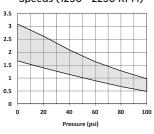
On board - Integrated fixed and full variable speed control

Pump Flow at Pump Speed at No Load Condition (Open Flow)

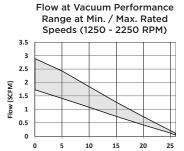


• Indicates factory set "speed selector"

Flow at Pressure Performance Range at Min. / Max. Rated Speeds (1250 - 2250 RPM)



See below for pre-set speed rated performance data



Vacuum (Inches of Mercury)

See below for pre-set speed rated performance data

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.

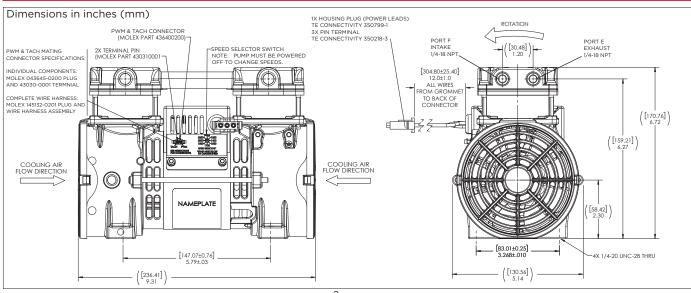
PERFORMANCE DATA	T21-0200 & T20-0	0282-1					
Model Number	2380ZC32/24 or 2380ZC32/48						
Nominal Input Voltage	24V or 48V BLDC versions available as shown in model numbers above						
Speed Setting	1250 RPM	1400 RPM	1550 RPM	1700 RPM	1850 RPM	2000 RPM	2250 RPM
Open Air Flow - cfm (I/min)	1.68 (47.6)	1.87 (53.0)	2.06 (58.3)	2.25 (63.7)	2.45 (69.4)	2.67 (75.6)	3.14 (88.9)
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)	0.45 (12.7)	0.51 (14.4)	0.58 (16.4)	0.66 (18.7)	0.75 (21.2)	0.79 (22.4)	0.93 (26.3
Current at rated max. pressure at 24V (A)	7.6	8.1	8.8	9.6	10.6	11.4	13.2
Current at rated pressure at 48V (A)	4.0	4.2	4.6	5.0	5.4	5.9	6.6
Power consumption at rated pressure (W)	186	198	214	234	256	275	314
Max. pressure restart - psi (bar)	30 (2.0)	30 (2.0)	30 (2.0)	30 (2.0)	30 (2.0)	30 (2.0)	30 (2.0)
Max. vacuum - % local barometer	88.5	89	89	89.5	89.5	89.5	90
Max. vacuum restart - % local barometer	88.5	89	89	89.5	89.5	89.5	90

Shaded column indicates factory pre-set "speed selector"

ELECTRICAL DATA	
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/Pin 1   Blue: Tach out/Pin 2 (See Speed Selection Instructions included with pump)

GENERAL 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	9.36 lbs (4.25 kg)				

#### PRODUCT DIMENSIONS



#### PUMP AND COMPRESSOR SOLUTIONS FOR OEMS WORLDWIDE







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