

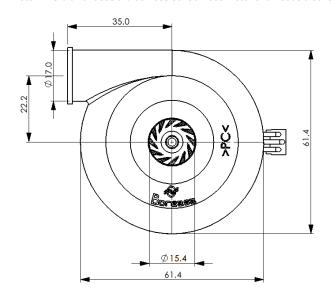
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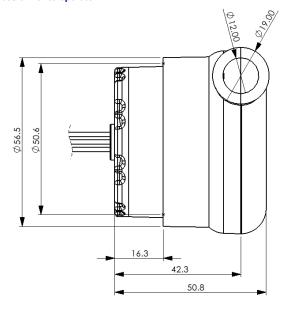
Miniature Centrifugal Blowers C60S1-xxPR-05-Lx Series

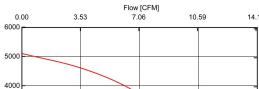
61.4 x 61.4 x 50.8 mm (2.42 x 2.42 x 2.00 in)

- * Housing and Impeller materials: Thermoplastics
- * Lead Wire: 235 ±10 mm (3 x AWG22)
- * Weight: 221 gr. (7.80 oz)
- Operational Temperature: -20 to 40°C / -4 to 104°F
- Three Phase Brushless Motor Sensor Less
- Connectors: 2510-3P
- Available in 12 V on demand
- Note: This blower uses a brushless sensor-less motor and needs a sensor-less driver to operate



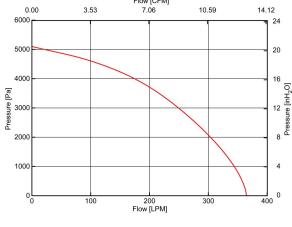


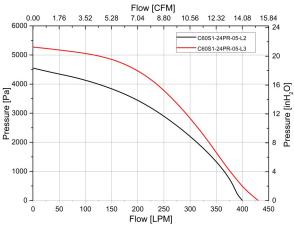




C60S1-12PR-05-L2







NOTES: - Performances are dependent on the driver used and the test conditions. The data in this spec. sheet was obtained using Boreasa test chamber at 20°C (±2°C) and sea level, and using a Boreasa D30/5/4QF-E2 driver. It may be different than data measured in other conditions or with other drivers.

Specifications are subject to change without notice.

⁻ Boreasa blowers have been designed and are manufactured to meet the medical device industry requirements. However, it is not possible to test blowers in all conceivable customer application configurations. Consequently, to be used in life support equipment, blowers must be life tested and validated by customers, in their actual application conditions, in a statistically meaningful quantity.



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Technical Data



		C60S1-12PR-05 C60S1-24PR-05				
		L2	L2	L3		
V _{CC} Nominal Voltage	V	12	24			
V _{CC} Voltage Range	V	9~14	10~28			
R _{Phase-Phase}	Ohm	0.42	0.83	0.75		
L Inductance	mH	0.15	0.46	0.42		
I _{N freeblowing @Nom. Volt.}	А	3.13	1.67	2.13		
I _{N work.} point @Nom. Volt.	А	2.68	1.30	1.59		
I _{N static @Nom. Volt.}	А	1.25	0.62	0.69		
n freeblowing @Nom. Volt.	rpm	32'150	35'100	37'900		
n work. point @Nom. Volt.	rpm	36'000	36'500	38'900		
n _{static @Nom.} Volt.	rpm	39'150	37'200	40'900		
V freeblowing @Nom. Volt.	l/min	365	400	430		
V work. point @Nom. Volt.	l/min	196	210	235		
P work. point @Nom. Volt.	Pa	3'915	3'480	4'172		
P static @Nom. Volt.	Pa	5'100	4'550	5'275		
MTTF (L10)	Hr	>20'000				
I _{Inertia}	g*mm²	2'750				
LpA work. point	dB(A)	<48.5				

- NOTES: Working point is an example close to 50% max flow.
 - Measured at distance of 1 meter from inlet, with open inlet, outlet connected to breathing tube and 4 mm orifice in sound chamber at 1 kPa.
 - The phase inductance and impedance are measured by LCR at 1 kHz, including the connector.
 - Tolerances based on specified speed data according to ISO 13348, Grade 4: pressure ±10%, power ±16%, speed ±5% and flowrate ±5%.





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Electrical Connections	Wire	Description		Connector Pin 2510-3P	
3 2 1	Red Yellow Brown	V W U	Motor winding 2 Motor winding 3 Motor winding 1	PIN 1 PIN 2 PIN 3	
Blower Limits and Warning	 No Hot-Swap allowed Max. allowed temperature on Heat Sink: Max. cont. speed: Blocking the impeller more than 20 seconds may destruction of the blower, unless current is limited. 				
Manufacturing System	Blowers manufactured by ISO9001-2015 certified manufacturer				