



Si100 Diffusion Pump 90V
BOCE Product No.: B34450090
Air cooled
Speed (air) 65/ Is-1 90 V 50/60Hz 1Ø

Scientific and R & D applications require special vapor pumps and accessories. It is important to minimize any backstreaming of the vapor pump fluid, and the number of elastomer seals used in system design needs to be kept to a minimum, to give clean pumping with minimal outgassing. For bench-top or transportable instruments, compact air-cooled pumps are essential.

BOC Edwards offers a range of vapor pumps and accessories, which are designed to meet these needs.

The SI100 is an air cooled, compact, fast warm-up diffusion pump with an integral Peltier baffle. The pump has been designed for high vacuum performance with low backstreaming for use in scientific instruments.

The design of the pump and Peltier baffle is optimized to give extremely low levels of backstreaming, while maintaining a high pumping speed for helium.

- The SI100 is a compact, fast warm-up, air cooled diffusion pump. The pump has an integral Peltier baffle.
- The design of the pump and Peltier baffle is optimized to give extremely low levels of backstreaming, while maintaining a high pumping speed for helium.
- The compactness, high compression ratios for light gases and air-cooled design mean that the SI100 is ideally suited for use in desk-top or mobile scientific instruments that require high pumping speed for helium and hydrogen.

Technical Data

Pumping speed	
Helium	100 ls ⁻¹
Nitrogen	65 ls ⁻¹
Argon	60 ls ⁻¹
Throughput at 4 × 10 ⁻³ mbar	
RV3 backing pump	0.15 mbar ls ⁻¹
RV5 backing pump	0.27 mbar ls ⁻¹
Critical backing pressure (Santovac 5)	0.4 mbar
Ultimate pressure (Santovac 5)	5 × 10 ⁻⁸ mbar
Fluid charge	20 ml
Recommended fluid	Santovac 5
Minimum backing pump displacement	5 m ³ h ⁻¹
Inlet connection	ISO100 compatible
Backing connection	NW16
Heater power	230 W
Warm-up time	10 min
Weight	4.2 kg