

Safe to operate roots with its under vacuum canned motor



RSV151B

Long life-time running

- ▣ Shaft tightness with dynamic seal
- ▣ Rotation without contact
- ▣ High resistance to abrasion and corrosive gases
- ▣ Vertical pumping preventing condensate to accumulate
- ▣ External tightness guaranteed by helium leak testing

Main Applications

(combined with different backing pumps)

- ▣ Microelectronics
- ▣ Metallurgy
- ▣ Cryogenics
- ▣ Physics research
- ▣ R&D
- ▣ Chemical industry
- ▣ Gas circulation
- ▣ Freeze-drying
- ▣ Drying
- ▣ Leak detection
- ▣ Space simulation
- ▣ Laser technology



RSV301B

▣ Can be backed by :

- oil vane pumps
- dry pumps
- water-ring pumps
- roots pumps
- ▣ Easy maintenance , fully field serviceable



RSV601B

Simple-designed and reliable

- ▣ Conned under vacuum universal motor
- ▣ Efficient air cooling
- ▣ High compression ratio
- ▣ Start from atmospheric pressure with its built-in by-pass valve
- ▣ Compact and silent running
- ▣ Interchangeable parts
- ▣ Easy to clean and disassemble
- ▣ Low vibration level



Pumping unit with roots pump for microelectronic application

Technical Data

	Units	RSV 151	RSV 151B	RSV 301	RSV 301B	RSV 601	RSV 601B
Displacement at 50 /60 HZ nominal rotation speed	m ³ /h	150/180	150/180	300/360	300/360	600/720	600/720
	cfm	89/106	89/106	177/212	177/212	354/424	354/424
Pumping speed at 1 mbar (type of backing pump)	m ³ /h	125/145	125/145	260/330	260/330	430/510	430/510
	cfm	74/86	74/86	153/195	153/195	254/300	254/300
		(2033)	(2033)	(2063)	(2063)	(2063)	(2063)
Ultimate Total Pressure with 2 stage oil vane pump	mbar	2*10 ⁻⁴	2*10 ⁻⁴	2*10 ⁻⁴	2*10 ⁻⁴	2*10 ⁻⁴	2*10 ⁻⁴
Ultimate partial pressure with 2 stage oil vane pump	mbar	5*10 ⁻⁵	5*10 ⁻⁵	5*10 ⁻⁵	5*10 ⁻⁵	5*10 ⁻⁵	5*10 ⁻⁵
Maximum continuous Inlet Pressure	mbar	30	1000	15	1000	10	1000
Maximum differential running Pressure	mbar	100	-	60	-	40	-
Leak rate	< 10 ⁻⁷	< 10 ⁻⁷	< 10 ⁻⁷	< 10 ⁻⁹	< 10 ⁻⁷	< 10 ⁻⁹	< 10 ⁻⁷
Inlet/outlet connections	ISO-NW	63	63	63	63	100	100
Motor Power 50/60 hz	kW	0.75	0.75	1.1	1.1	1.5	1.5
Electrical supply	Volt	Triphase 200/240/80/415 (50hz)					
	volt	Triphase 200/240/80/480 (60hz)					
Gear Box Fluid Capacity	liter	0.4	0.4	0.7	0.7	0.7	0.7
Weight	Kg(lbs)	58/128	62/137	84/185	88/194	102/225	107/236