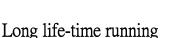
#### Safe to operate roots with its under vacuum canned motor



### RSV151B



- 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



RSV301B

- Can be backed by:
- -oil vane pumps
- -dry pumps
- -water-ring pumps
- -roots pumps
- Teasy maintenance, fully field serviceable



# RSV601B

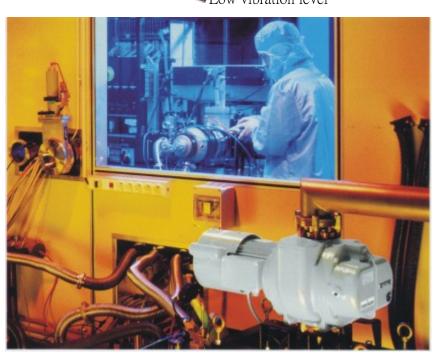
## Simple-designed and reliable

- ©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
- **②**Low vibration level

# 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



Pumping unit with roots pump for microelectronic application

# **Technical Data**

	Units	RS V 151	R SV 151B	R SV 301	RSV301B	RSV601	RSV601B
Displacem ent at 50 /60 HZ	m³/h	15 0/180	150/180	300/360	300/360	6 00/720	600/720
no minal ro tatio n speed	cfm	89/106	89/106	177/212	177/212	3 54/424	354/424
Pumping speed at 1 mbar (type of backing p ump)	m <sup>3</sup> /h cfm	12 5/1 45	125/145	260/330	260/330	430/510	430/510
		74/86	74/86	153/195	153/195	2 54/300	254/300
		(2033)	(2033)	(2063)	(2063)	(2063)	(2063)
Ultimate Total Pressure with 2 stage oil vane pump	mbar	2*10 4	2*10 <sup>-4</sup>	2*10 <sup>-4</sup>	2*10 <sup>-4</sup>	2*10 <sup>-4</sup>	2 *10 <sup>-4</sup>
Ultimate p artial p ressure w ith 2 stageoil vane pump	mbar	5*10 <sup>-5</sup>	5*10 <sup>-5</sup>	5*10 <sup>-5</sup>	5*10 <sup>-5</sup>	5*10 <sup>-5</sup>	5 *10 <sup>-5</sup>
M axi cont inuous I nlet Pressure	mbar	30	1 000	15	1 000	10	1000
M axi diffe rential r unning Pressure	mbar	100		60	78.0	40	-
Le ak rate	< 10 <sup>-7</sup>	< 10 -7	< 10 <sup>-7</sup>	< 10 3	< 10 <sup>-7</sup>	< 10 3	< 10 -7
In bt/outlet connections	ISO-NW	63	63	63	63	100	100
M otor Pow er 50/60 hz	kW	0.75	0.75	1.1	1.1	1.5	1.5
Electrical supply	V olt	Trip hase 20 0/24@80/415 (50hz)					
	vol	Trip hase 20 0/24@80/480 (60hz)					
Gear Box F huid Capacity	1iter	0.4	0.4	0.7	0.7	0.7	0.7
Weight	K g(15s)	58/128	62/137	84/185	88/194	1 02/225	107/236