

## Technical Data

## RBS - B/BCS Roots Pump Systems

		<b>251/D40B</b>	<b>251/D65B</b>	<b>501/D40B</b>	<b>501/D65B</b>
RUVAC (WA/WAU/WS/WSU possible)		251	251	501	501
TRIVAC backing pump		D 40 B/BCS	D 65 B/BCS	D 40 B/BCS	D 65 B/BCS
Pumping speed @ 0.1 Torr	cfm (m <sup>3</sup> x h <sup>-1</sup> )	140 (237)	150 (254)	232 (394)	267 (453)
Ultimate total pressure	Torr (mbar)	2 x 10 <sup>-4</sup> (< 4 x 10 <sup>-4</sup> )	2 x 10 <sup>-4</sup> (< 4 x 10 <sup>-4</sup> )	2 x 10 <sup>-4</sup> (< 4 x 10 <sup>-4</sup> )	2 x 10 <sup>-4</sup> (< 4 x 10 <sup>-4</sup> )
Connecting flanges					
Inlet port					
WSU	DN	3" ANSI	3" ANSI	3" ANSI	3" ANSI
Outlet port	DN	40 ISO-KF	40 ISO-KF	40 ISO-KF	40 ISO-KF
Operating voltage	V	208/230/460	208/230/460	208/230/460	208/230/460
Phase / Frequency <sup>1)</sup>	- / Hz	3 / 60	3 / 60	3 / 60	3 / 60
Full load amps <sup>2)</sup>					
RUVAC WSU		5.5/5.5/3.2	5.5/5.5/3.2	9.0/9.0/5.2	9.0/9.0/5.2
TRIVAC		9.0/8.8/4.5	9.0/8.8/4.5	9.0/8.8/4.5	9.0/8.8/4.5
Displacement					
RUVAC	cfm (m <sup>3</sup> x h <sup>-1</sup> )	179 (304)	179 (304)	357 (606)	357 (606)
TRIVAC	cfm (m <sup>3</sup> x h <sup>-1</sup> )	32 (54)	53 (90)	32 (54)	53 (90)
Maximum differential pressure	Torr (mbar)	60 (80)	60 (80)	60 (80)	60 (80)
Normal starting pressure <sup>3)</sup>	Torr (mbar)	20 (27)	30 (40)	12 (16)	16 (21)
Oil capacity					
RUVAC WSU	qt (l)	0.75 (0.7)	0.75 (0.7)	1.10 (1.0)	1.10 (1.0)
TRIVAC	qt (l)	2.70 (2.6)	3.40 (3.2)	2.70 (2.6)	3.40 (3.2)
Nominal rotation speed					
RUVAC	rpm (min <sup>-1</sup> )	3600 (3600)	3600 (3600)	3600 (3600)	3600 (3600)
TRIVAC	rpm (min <sup>-1</sup> )	1800 (1800)	1800 (1800)	1800 (1800)	1800 (1800)
Motor power					
RUVAC WSU	hp (kW)	1.9 (1.4)	1.9 (1.4)	3.3 (2.4)	3.3 (2.4)
TRIVAC	hp (kW)	3.0 (2.2)	3.0 (2.2)	3.0 (2.2)	3.0 (2.2)

## Ordering Information

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	<b>251/D40B</b>	<b>251/D65B</b>	<b>501/D40B</b>	<b>501/D65B</b>
	<b>Part. No.</b>			
RBS - B/BCS Roots pump system (supplied with hydrocarbon oil)	<b>Ordering Information see right page</b>			

<sup>1)</sup> For 50 Hz systems, consult the factory

<sup>2)</sup> Determined by operating voltage

<sup>3)</sup> WSU pumps permit start-up at atmospheric pressure (760 Torr)