

ROOTS VACUUM PUMP



It is a mechanical pump with high evacuating speed also referred to as mechanical booster pump. The rotors rotate synchronously in opposite directions and high speeding. The pump cannot be used singly, it must be used as boosters combined with a backing pump such as a rotary piston or a rotary vane vacuum pump, or a liquid ring vacuum pump. These vacuum systems can get higher vacuum, a stable, fairly high pumping speed can be gained in effective pressure range. The backing pump decides the ultimate pressure of roots pump. The data of the list is lowest ultimate pressure with the standard equipment (equipped double stage oil machine vacuum pump).

Typical Applications:

It can be used widely used in vacuum moulding, vacuum smelting, vacuum gas pumping, vacuum coating industry, vacuum distilling and vacuum drying of chemical and pharmaceutical industry etc. The pump is insensitive to a little dust.

Model	Ultimate Pressure		Pumping Speed	Inlet Diam	Outlet Diam	Max. permissible Diff. pressure		Diff.pressure at overflow valve		Motor power
	M.BAR	torr				L/S	mm	mm	m.Bar	
RB-150	5×10^{-4}	3.7×10^{-4}	150	100	100	100	75			2.2
RB-300	5×10^{-4}	3.7×10^{-4}	300	150	150	53	40			4
RB-600	5×10^{-4}	3.7×10^{-4}	600	200	200	53	40			7.5
RB-1200A	5×10^{-4}	3.7×10^{-4}	1200	250	200	53	40			11
RB-70	5×10^{-4}	3.7×10^{-4}	70	80	50			40	30	1.1
RB-150	5×10^{-4}	3.7×10^{-4}	150	100	100			40	30	2.2
RB-300	5×10^{-4}	3.7×10^{-4}	300	150	150			40	30	4
RB-600	5×10^{-4}	3.7×10^{-4}	600	200	200			27	20	7.5
RB-1200	5×10^{-4}	3.7×10^{-4}	1200	250	200			27	20	11
RB-2500	1×10^{-3}	8×10^{-4}	2500	320	320			27	20	22