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TECHNOLOGY GROUP

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Alcatel ATP-80, 100, 150, 400, 900

Technical Specifications

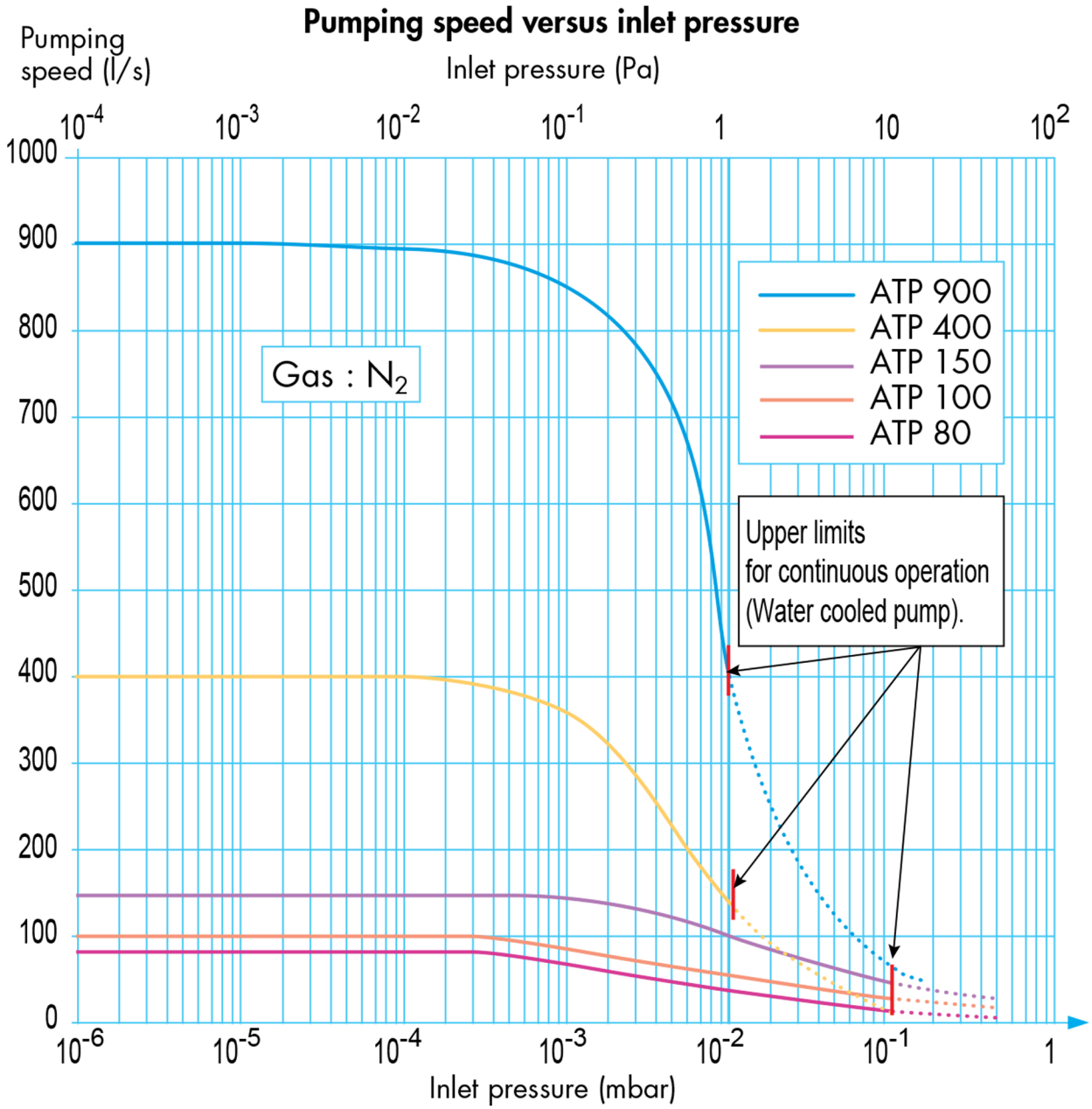
Characteristics			ATP 80	ATP 100	ATP 150	ATP 400	ATP 900
Inlet flange			DN63 ISO-K DN63 CF-F	DN100 ISO-K DN100 CF-F	DN100 ISO-K DN100 CF-F	DN160 ISO-K DN160 CF-F	DN200 ISO-K DN200 CF-F
Pumping speed	N_2	l/s	80	100	140	400	900
	He	l/s	50	60	100	300	540
	H_2	l/s	40	40	80	250	300
Compression ratio	N_2		$8x10^7$	$8x10^7$	$7x10^8$	$7x10^8$	$1x10^9$
	He		2500	2500	$1.2x10^4$	$1.5x10^4$	$2x10^4$
	H_2		300	300	$1x10^3$	$1x10^3$	$2x10^3$
Ultimate pressure (1)(2)		mbar	$5x10^{-9}$	$5x10^{-9}$	$5x10^{-10}$	$8x10^{-10}$	$5x10^{-10}$
Maximum continuous inlet pressure (2)		mbar	$1x10^{-1}$	$1x10^{-1}$	$1x10^{-1}$	$2x10^{-2}$	$2x10^{-2}$
Maximum exhaust pressure (2)		mbar	$2x10^{-1}$	$3x10^{-1}$	$4x10^{-1}$	$2x10^{-1}$	$3x10^{-1}$
Minimum recommended fore pump			Pascal 2005	Pascal 2005	Pascal 2005	Pascal 2015 (4)	Pascal 2021(4)
Mounting orientation			Any				
Rotational speed		rpm	27 000				
Start-up time		min	1 min 45s	1 min 45s	2 min	3 min	3 min
Maximum ambient temperature		°C	Pump 50°C / Controller 40°C				
Maximum bake out temperature on flange		°C	120	120	100	100	100
Exhaust flange		ISO-KF	DN 25	DN 25	DN 25	DN 40	DN 40
Weight	ambient cooled	kg (lb)	ISO-K CF-F	3 (6.6) 4.3 (9.5)	3 (6.6) 4.3 (9.5)	-	-
Weight	air cooled	kg (lb)	ISO-K CF-F	4 (8.8) 5.3 (11.7)	4 (8.8) 5.3 (11.7)	6.5 (14.3)	9 (19.8)	17.5 (38.5) 18.5 (40.8)
Weight	water cooled	kg (lb)	ISO-K CF-F	3.4 (7.5) 4.4 (9.7)	3.5 (7.7) 4.7 (10.3)	6.5 (14.3)	9 (19.8)	17 (37.5) 18 (39.7)
Controller			ACT 200T ACT 100	ACT 200T ACT 100	ACT 600T ACT 250	ACT 600T ACT 250	ACT 1000T
Controller weight		kg (lb)	2.6 (5.7) 2.6 (5.7)	2.6 (5.7) 2.6 (5.7)	4 (8.84) 1.8 (3.96)	4 (8.84) 1.8 (3.96)	8.5 (18.8)
Controller size			1/4 Rack	1/4 Rack	1/2 Rack	1/2 Rack	1/2 Rack
Power supply (3)			100 to 240 V - 50/60 Hz - Single phase				
Maximum power consumption		VA	100	100	300	300	800

(1) Measured to Pneurop standards (CPF flange, after 48 hours of baking with an exhaust pressure below to 10^{-2} mbar)
(2) Water cooled model with CF-F inlet flange
(3) For ACT 200T, ACT 250, ACT 600T, ACT 1000T only
(4) Note: a flange reducer 40/25 is necessary (see page C26.09).

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Pumping Curves

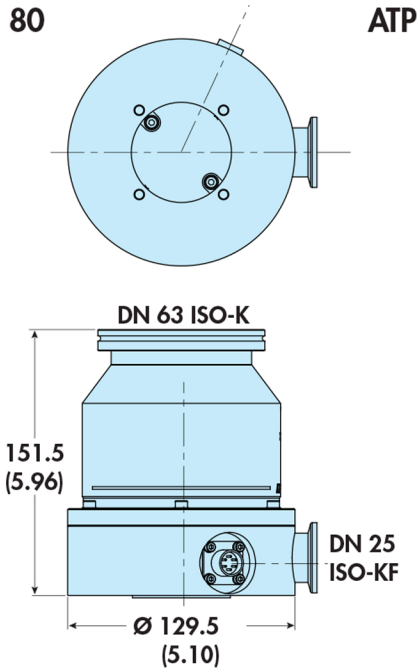


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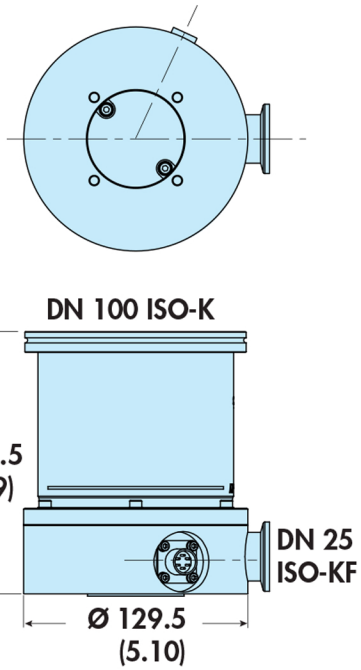
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Dimensions

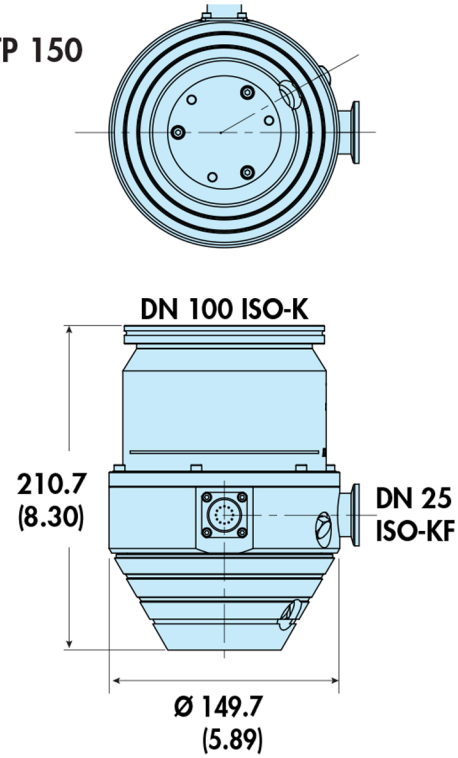
ATP 80



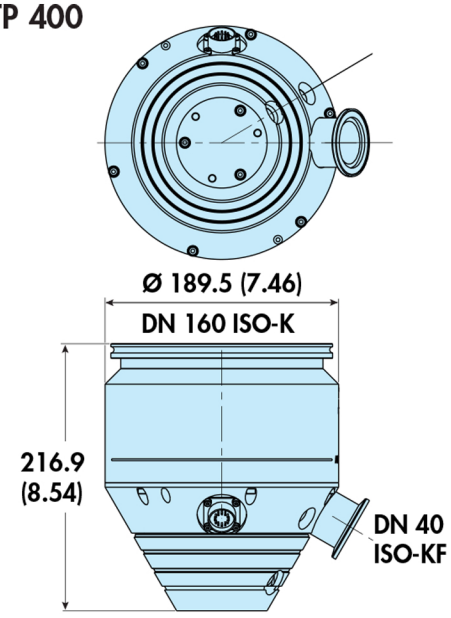
ATP 100



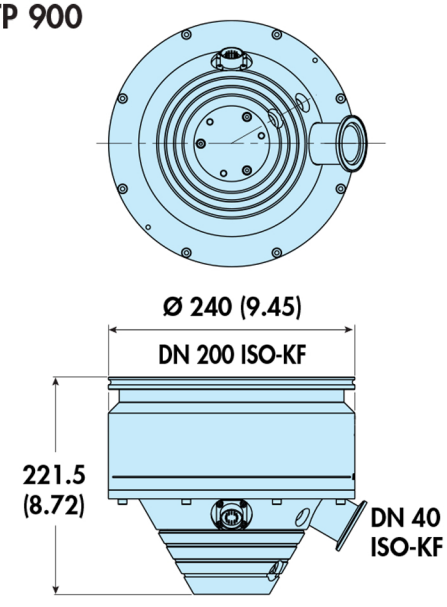
ATP 150



ATP 400



ATP 900



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Features & Benefits

- low cost of ownership
- mounting in any orientation
- lubricated ceramic ball bearings
- low ultimate vacuum, rotational speed
- increased resistance to air inrush, gyroscopic effect & low ball bearing stress



Applications

- space simulation • thin film deposition • ion pump evacuation • UHV system • particles accelerator • ion source • surface analysis • mass spectrometer • scanning electron microscope • leak detection

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