



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	3 (6.6)	3 (6.6)	-	-	-	
		CF-F	4.3 (9.5)	4.3 (9.5)	-	-	-	
Weight air cooled	kg (lb)	ISO-K	4 (8.8)	4 (8.8)	6.5 (14.3)	9 (19.8)	17.5 (38.5)	
		CF-F	5.3 (11.7)	5.3 (11.7)	6.5 (14.3)	9 (19.8)	18.5 (40.8)	
Weight water cooled	kg (lb)	ISO-K	3.4 (7.5)	3.5 (7.7)	6.5 (14.3)	9 (19.8)	17 (37.5)	
		CF-F	4.4 (9.7)	4.7 (10.3)	6.5 (14.3)	9 (19.8)	18 (39.7)	
Controller			ACT 200T	ACT 200T	ACT 600T	ACT 600T	ACT 1000T	
			ACT 100	ACT 100	ACT 250	ACT 250		
Controller weight	kg (lb)		2.6 (5.7)	2.6 (5.7)	4 (8.84)	4 (8.84)	8.5 (18.8)	
			2.6 (5.7)	2.6 (5.7)	1.8 (3.96)	1.8 (3.96)		
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 Pneuop standards (CPF flange, after 48 hours of baking with an exhaust pressure below to 10² mbar)

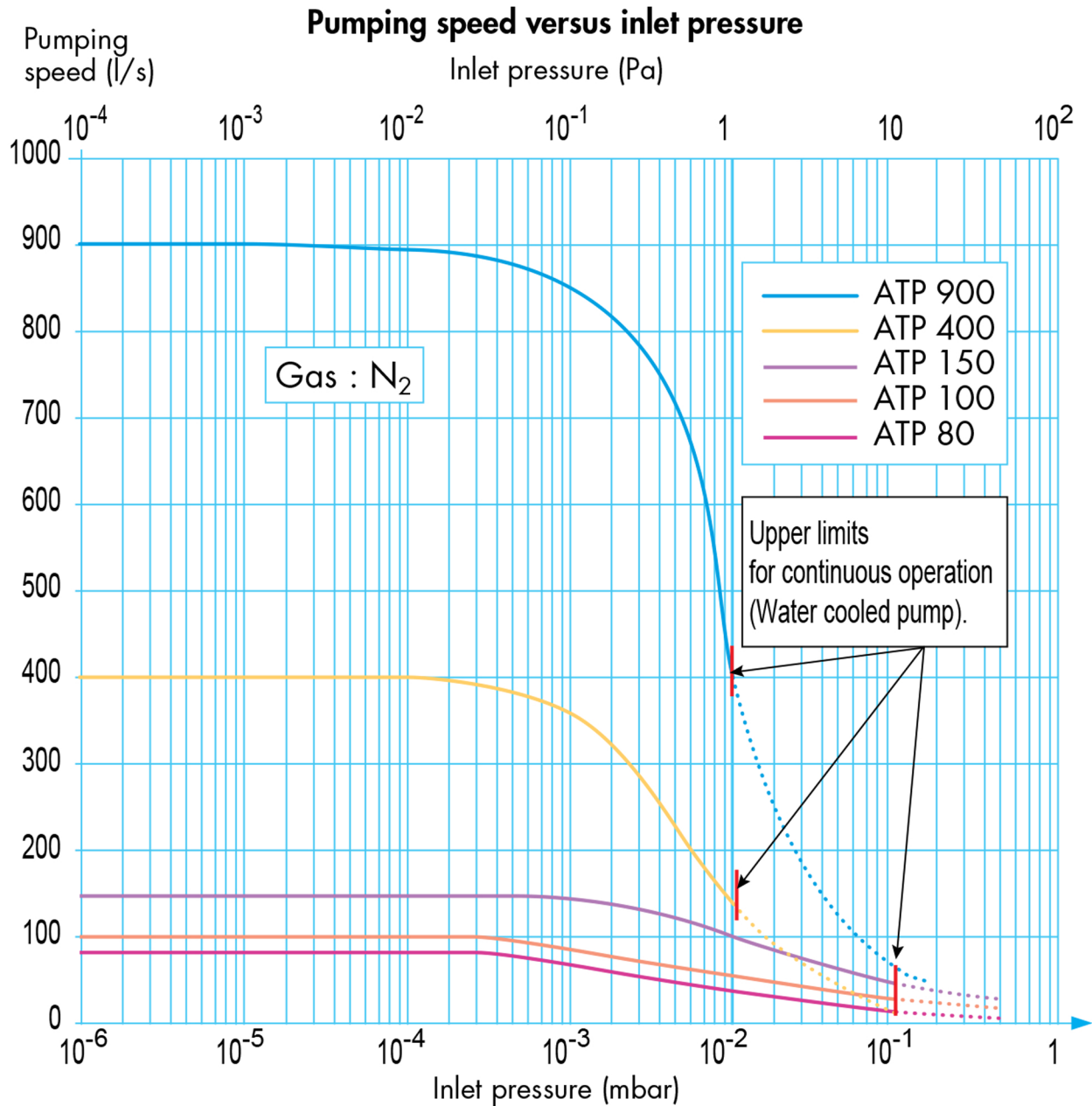
(2) Water cooled model with CF-F inlet flange

(3) For ACT 200T, ACT 250, ACT 600T, ACT 1000T only

(4) Note: a flange reducer 40/25 is necessary (see page C26.09).



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





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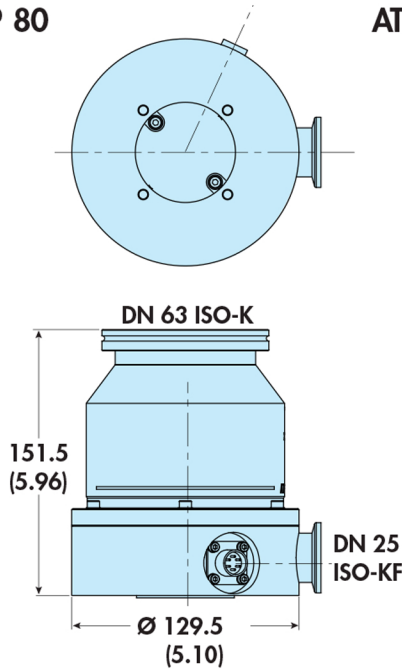
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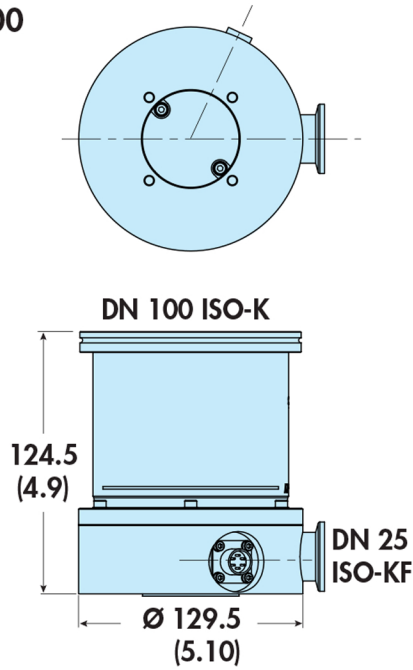
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Alcatel ATP-80, 100, 150, 400, 900 Dimensions

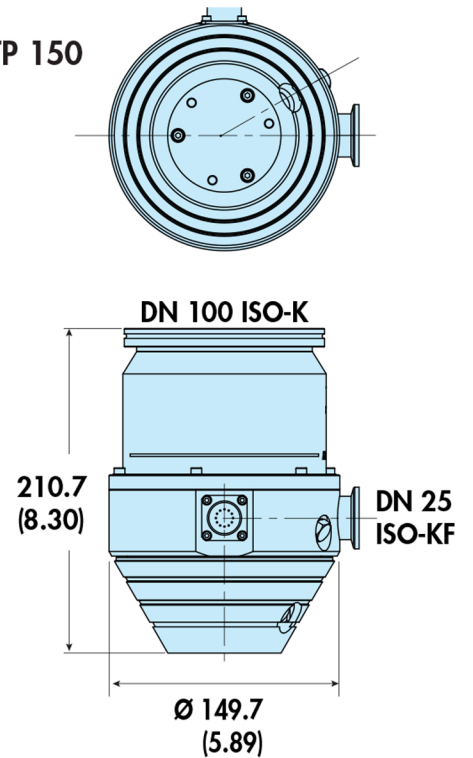
ATP 80



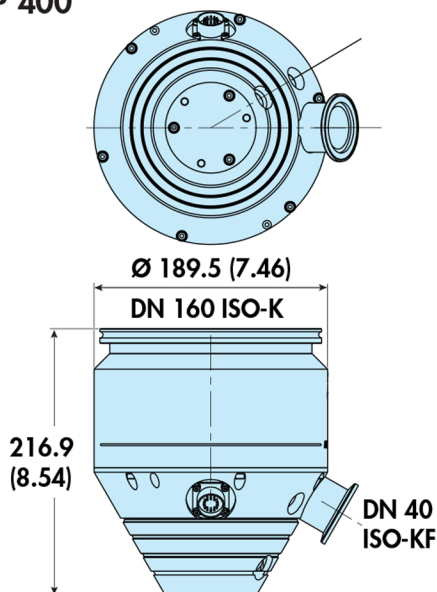
ATP 100



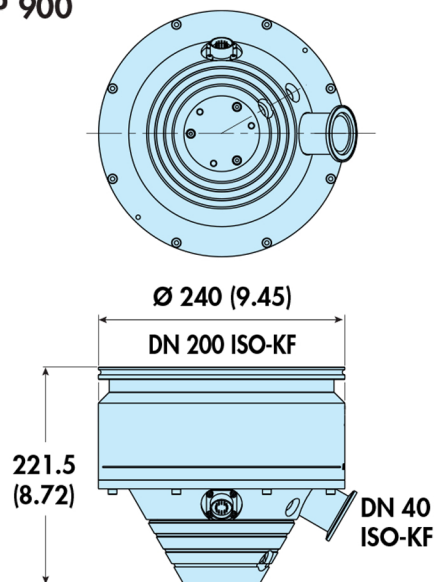
ATP 150



ATP 400



ATP 900





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

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