

Alcatel-Annecey ATP 80  
**Turbomolecular Pump**



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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 <sub>2</sub>	l/s	80	100	140	400	900	
	He	l/s	50	60	100	300	540	
	H <sub>2</sub>	l/s	40	40	80	250	300	
Compression ratio	N <sub>2</sub>		8x10 <sup>7</sup>	8x10 <sup>7</sup>	7x10 <sup>8</sup>	7x10 <sup>8</sup>	1x10 <sup>9</sup>	
	He		2500	2500	1.2x10 <sup>4</sup>	1.5x10 <sup>4</sup>	2x10 <sup>4</sup>	
	H <sub>2</sub>		300	300	1x10 <sup>3</sup>	1x10 <sup>3</sup>	2x10 <sup>3</sup>	
Ultimate pressure (1)(2)		mbar	5x10 <sup>-9</sup>	5x10 <sup>-9</sup>	5x10 <sup>-10</sup>	8x10 <sup>-10</sup>	5x10 <sup>-10</sup>	
Maximum continuous inlet pressure (2)		mbar	1x10 <sup>-1</sup>	1x10 <sup>-1</sup>	1x10 <sup>-1</sup>	2x10 <sup>-2</sup>	2x10 <sup>-2</sup>	
Maximum exhaust pressure (2)		mbar	2x10 <sup>-1</sup>	3x10 <sup>-1</sup>	4x10 <sup>-1</sup>	2x10 <sup>-1</sup>	3x10 <sup>-1</sup>	
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)			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)			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<sup>-2</sup> 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).



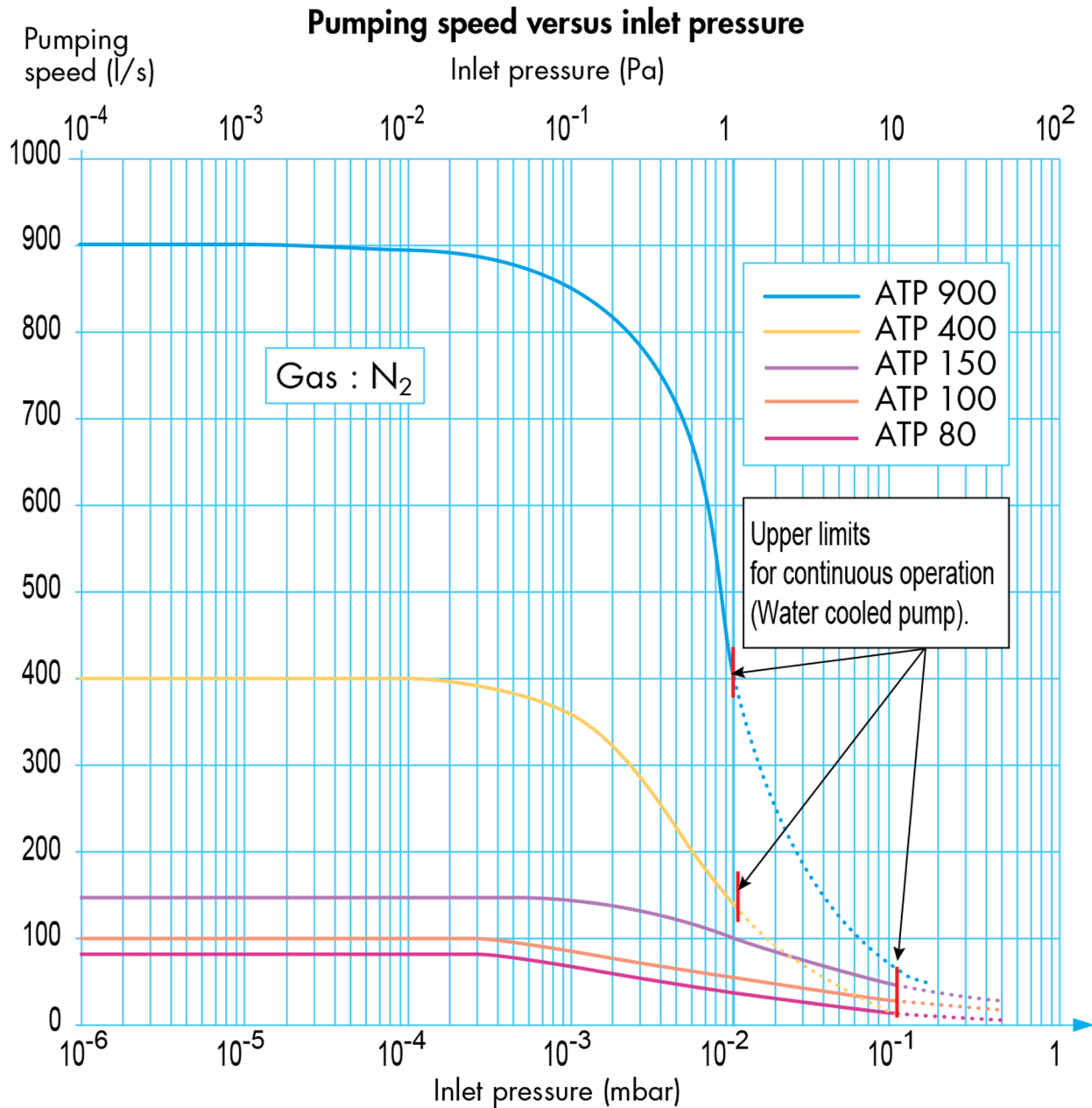
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# Alcatel ATP-80, 100, 150, 400, 900 Pumping Curves





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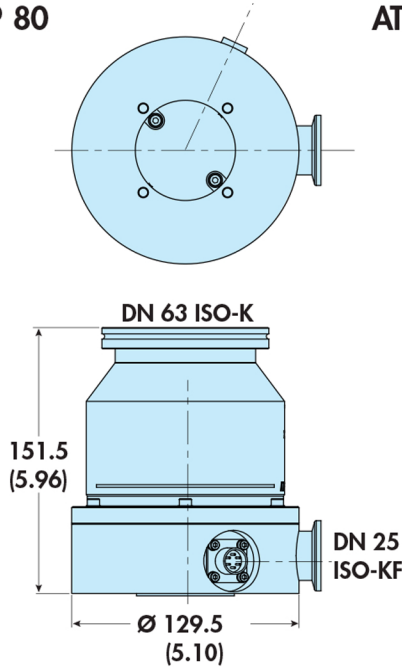
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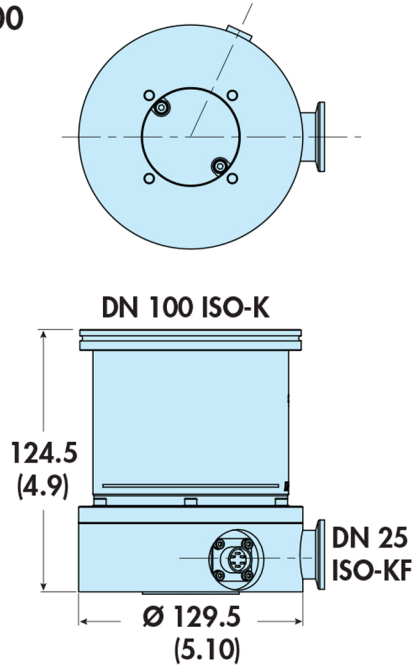
# Alcatel ATP-80, 100, 150, 400, 900

## Dimensions

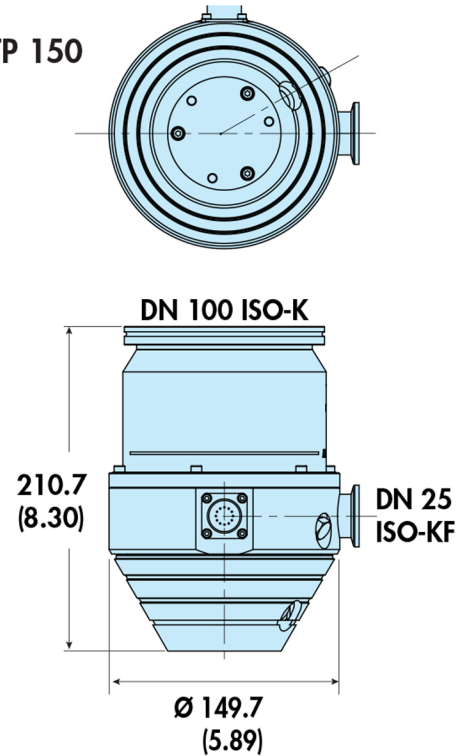
**ATP 80**



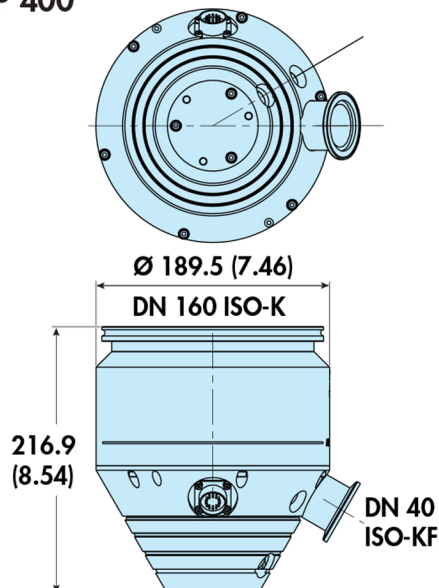
**ATP 100**



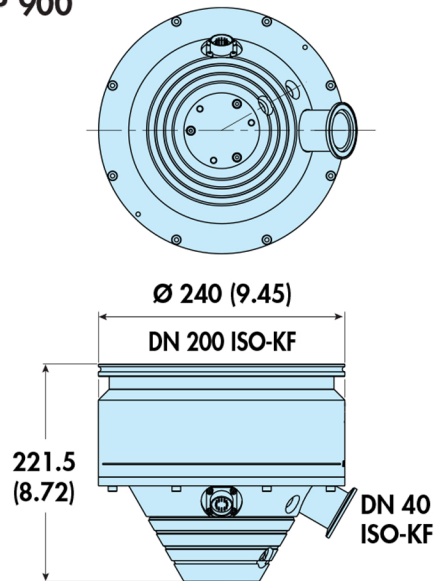
**ATP 150**



**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

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