



Alcatel ATP-400C, ATP-900C

Technical Specifications

Characteristics			ATP 80 C	ATP 100 C	ATP 150 C	ATP 400 C	ATP 900 C
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 without purge (1)(2)		mbar	5x10 ⁹	5x10 ⁹	5x10 ¹⁰	8x10 ⁻¹⁰	5x10 ⁻¹⁰
Ultimate pressure with purge (2)		mbar	5x10 ⁸	5x10 ⁸	1x10 ⁷	1x10 ⁷	1x10 ⁷
Purging nitrogen flow rate		sccm			50		
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 C2	Pascal 2005 C2	Pascal 2021 C2	2033 C2	2063 C2
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	40	40	40	40	50 (pump)
Maximum bake out temperature on flange		°C	120	120	120	100	100
Exhaust flange		ISO-KF	DN 25	DN 25	DN 25	DN 40	DN 40
N ₂ purge flange		ISO-KF	DN 16				
Weight	air cooled	kg (lb)	4 (8.8)	4 (8.8)	6.5 (14.3)	9.1 (20)	17.7 (39)
		ISO-K CF-F	5.3 (11.7)	5.3 (11.7)			
Weight	water cooled	kg (lb)	3.4 (7.5)	3.5 (7.7)	6.5 (14.3)	9.2 (20.2)	17.2 (37.9)
		ISO-K CF-F	4.4 (9.7)	4.7 (10.3)			
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)	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

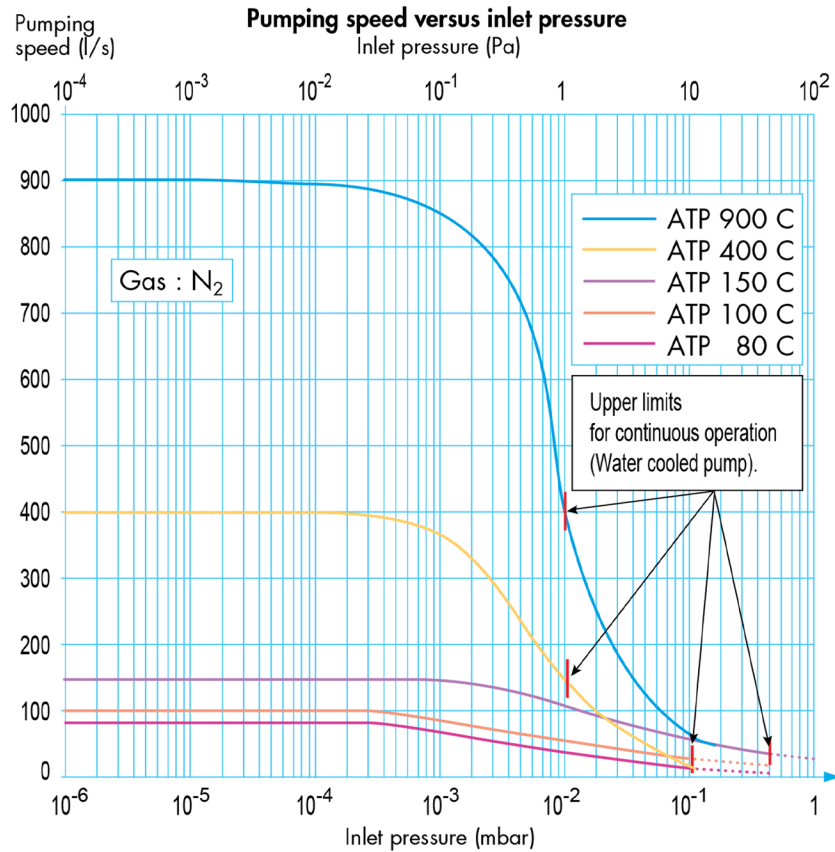
(1) Measured to Pneuop standards
(CF-F flange, after 48 hours of baking with
an exhaust pressure below 10² mbar)

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

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

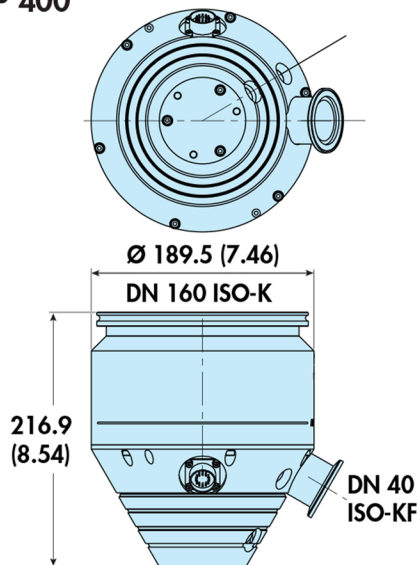


Alcatel ATP-400C, ATP-900C Pumping Curves

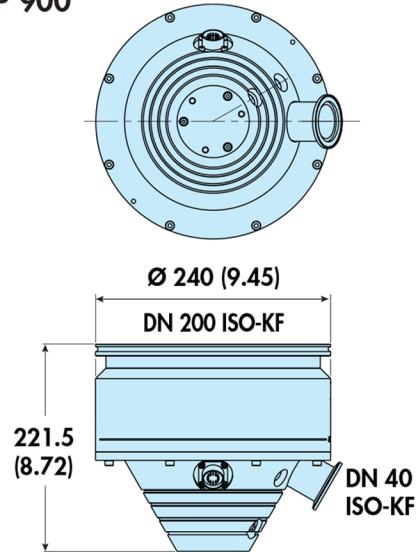


Dimensions

ATP 400



ATP 900





PROVAC

SALES

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Alcatel ATP-400C, ATP-900C

Features & Benefits

- for corrosive applications
- 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
- corrosive gas processes