



Alcatel ASM-180T, 180TD, 180TD+

Technical Specifications

MODELS	ASM 180T
VERSIONS	Compact
Standard Roughing System	20 m ³ /h (15 cfm) oil sealed pump
High vacuum pump	130 l/s Hybrid pump
*Smallest detectable signal at full pumping speed (atm.cc/s)	5.10 ⁻¹²
Helium signal reading range (atm.cc/s)	2.10 ⁻¹¹ to 1.10 ⁻¹
Helium pumping speed at Inlet port (l/s)	4.4
Cross-over pressure at inlet (mbar) (for Large Leak test mode)	6
Power consumption (kVA)	1.2
Width (mm / inch)	600 / 23.6
Depth (mm / inch)	410 / 16.1
Height (mm / inch)	450 / 17.7
Weight (kg / lbs)	80 / 176
Inlet port size (DN)	40

(*): according to AVS 2.1 and ISO 3530 standards.

	ASM 180 TD	ASM 180 TD+
	Standard	Standard
Roughing (primary) pump	4 m ³ /h (2.4 cfm) + 10 l/s	25 m ³ /h (15 cfm) + 10 l/s
Hybrid turbomolecular pump (air)	130 l/s	
Measurement range	2.10 ⁻¹¹ to 10 ⁻¹ mbar.l/s	
Electronic response time	< 0.1 s	
8 decade log recording output	1 V/dec.	
Setpoint setting - Fine leak	10 ⁻¹¹ to 10 ⁻² mbar.l/s	
Setpoint setting - Gross leak	10 ⁻⁸ to 10 ⁻¹ mbar.l/s	
Inlet pressure display	10 ³ to 10 ⁻³ mbar	
Triode pressure display (Spectro)	10 ⁻⁵ to 10 ⁻³ mbar	
Emission current display	0.2 to 2 mA	
Cell sensitivity	3.10 ⁻⁴ A/mbar	
He pumping speed at detector inlet port	4.4 l/s	
Air pumping speed at spectrometer	110 l/s	
He pumping speed at spectrometer	30 l/s	
TMP exhaust pressure safety limit	6 mbar	
Start-up time	3 min	
Cycle time, inlet port blanked off (GL - FL mode)	2 - 4 s	
Power voltage	100, 115, 200, 220, 230, 240 V	
Power frequency	50/60 Hz single-phase	
Power consumption	1.2 kVA	1.5 kVA
Ambient operating temperature	10 to 40 °C	
Weight	73 kg (160lb)	96 kg (210lb)
Noise level (at 1 m; alarm not operational)	54 dB	65 dB
Inert gas purge:	absolute pressure	1.4±0.1 bar abs.
	flow rate	1.10 ⁻² mbar.l/s