



Alcatel 5081, 5101

Technical Specifications

- Pumping speeds* at the inlet :

		5101 TMP	5081 TMP
- Nitrogen	N2	100 l/s	80 l/s
- Helium	He	60 l/s	50 l/s
- Hydrogen	H2	40 l/s	40 l/s

- Compression ratios :

- N2 : $8 \cdot 10^7$
- He : 2500
- H2 : 300

- Ultimate pressure* measured with 2 stages RP and metal seal at inlet : $\leq 5 \cdot 10^{-9}$ mbar.

Maximum pressure in continuous operation **	TMP cooled by natural convection	TMP air cooled	TMP water cooled
at inlet	$1 \cdot 10^{-3}$ mbar	$1 \cdot 10^{-1}$ mbar	$1 \cdot 10^{-1}$ mbar
at exhaust	$1 \cdot 10^{-2}$ mbar	$1 \cdot 10^{-1}$ mbar	$1 \cdot 10^{-1}$ mbar

* : measured by a measuring dome following Pneurop method.

** : these two pressures can't be cumulated.

- Roughing pump recommended : 4 m³/h (3.2 cfm) -Alcatel model 2004 A-
- Rotational speed : 27 000 rpm.
- Startup : ≤ 1 mn 45 s
- Ambient temperature : 0 to 35° C (TMP cooled by natural convection) (32 to 95° F)
0 to 35° C (TMP air cooled or by natural convection) (32 to 95° F)
0 to 50° C (TMP water cooled) (32 to 132° F).
- Water flow : 0,2 to 1 l./mn with water temperature between 10 and 20 C.
- Pump weight : 3 kg. (6.6 lbs) for TMP 5081 NW 63 cooled by natural convection or 5.3 kg (11.7 lbs) for TMP 5101 UHV 100 CF air cooled