

## The technical characteristics

### The performances of the pumps

Model characteristics		ATH 400M		ATH 1000M		ATH 1000MT	
		ATH 400M	ATH 400MT	160 ISO-K	200 ISO-K	160 ISO-K	200 ISO-K
Inlet flange	DN	100 ISO-K	160 ISO-K	160 ISO-K	200 ISO-K	160 ISO-K	200 ISO-K
Rotation speed	rpm	<b>39000</b>		<b>33000</b>		<b>30000</b>	
Pumping speed*	N <sub>2</sub> l/s	320	410	710	850	610	800
	He l/s	290	360	650	750	600	650
	H <sub>2</sub> l/s	180	230	430	450	330	350
Compression rate*	N <sub>2</sub>	1x10 <sup>+8</sup>		2x10 <sup>+8</sup>			
	He	2x10 <sup>+3</sup>		1x10 <sup>+4</sup>			
	H <sub>2</sub>	1x10 <sup>+2</sup>		4x10 <sup>+2</sup>			
Ultimate pressure without purge, meas. according to Pneurop standard	mbar	8x10 <sup>-9</sup>		8x10 <sup>-9</sup>			
Maximum pressure at inlet in continuous operation**	mbar	1		1x10 <sup>-1</sup>			
Maximum permissible pressure at exhaust**	mbar	5		5			
Noise level	dB(A)	≤ 39		≤ 39			
Start-up time	min	< 3		< 5			
Maximum start-up power	W	650		650			
Maximum operating power	W	300		300			
N <sub>2</sub> purge flow rate	SCCM	50		50			
Cooling water flow rate	l/h	< 60		< 60			
Water temperature	°C	15 < T < 25°C		15 < T < 25°C			
Maximum ambient temperature	°C	40		40			
Weight	kg	19		28			
Recommended forepump		ADP 31		ADP 81			

\* See curves in G 10 and G 20.

\*\* The two maximum pressure cannot occur at the same time.