



Turbomolecular MagLev

Model **EMT**



Reliability

5 active axis MagLev technology



Compact Design

Installation in ANY orientation
Semiconductor OEM tool
retrofit kits available



Process Capable

Corrosive resistant versions
for Etch and CVD



Precise Temperature Control

Temperature Management System
for extended MTBF



Performance

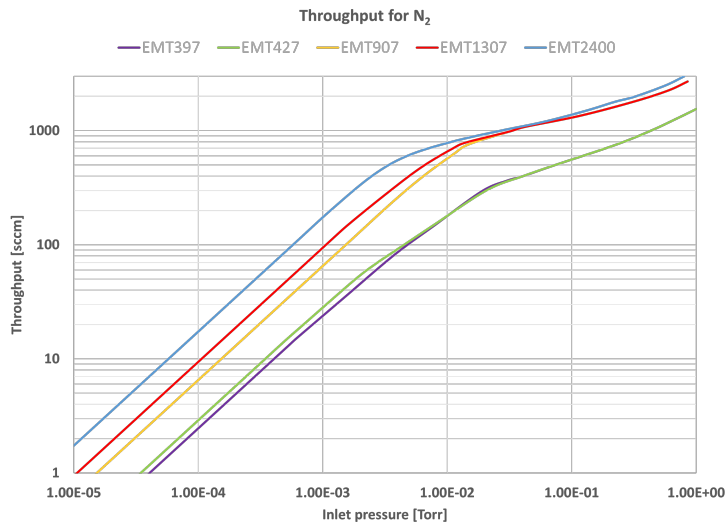
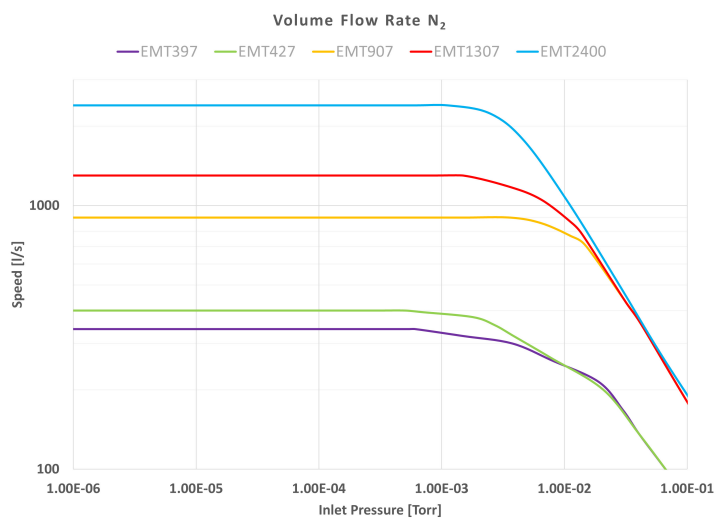
Pumping speeds from 340 l/sec to 2400 l/sec



Max
N₂ **3** slm
Ar **1.5** slm



Specifications	EMT397	EMT427	EMT907	EMT1307	EMT2400	
Inlet flange	ISO-K100	ISO-F160	ISO-F160	ISO-F200	ISO-F250	
Outlet flange	KF25	KF25	KF40	KF40	KF40	
Volume flow rate	N ₂	340 L/s	400 L/s	900 L/s	1300 L/s	2400 L/s
	H ₂	290 L/s	300 L/s	1050 L/s	1200 L/s	1100 L/s
Maximum compression ratio	N ₂	> 1×10 ⁸	> 1×10 ⁸	> 1×10 ⁸	> 1×10 ⁸	> 1×10 ⁸
	H ₂	4.5×10 ³	4.5×10 ³	1.5×10 ⁴	1.5×10 ⁴	1.4×10 ³
Base pressure (ISO flange)	< 1×10 ⁻⁶ Pa [7.5×10 ⁻⁹ Torr]	< 1×10 ⁻⁶ Pa [7.5×10 ⁻⁹ Torr]	< 1×10 ⁻⁶ Pa [7.5×10 ⁻⁹ Torr]	< 1×10 ⁻⁶ Pa [7.5×10 ⁻⁹ Torr]	< 1×10 ⁻⁶ Pa [7.5×10 ⁻⁹ Torr]	
Maximum throughput	N ₂	3680 Pa·L/s [2000 sccm]	3680 Pa·L/s [2000 sccm]	55200 Pa·L/s [3000 sccm]	55200 Pa·L/s [3000 sccm]	5520 Pa·L/s [3000 sccm]
	Ar	1840 Pa·L/s [1000 sccm]	1840 Pa·L/s [1000 sccm]	2760 Pa·L/s [1500 sccm]	2760 Pa·L/s [1500 sccm]	3680 Pa·L/s [2000 sccm]
Maximum backing pressure	400 Pa [3 Torr]	400 Pa [3 Torr]	500 Pa [3.8 Torr]	500 Pa [3.8 Torr]	200 Pa [1.5 Torr]	
Vibration (0 - peak)	<0.01 μm	<0.01 μm	<0.01 μm	<0.01 μm	<0.01 μm	
Rated rotational speed	40800 min ⁻¹	40800 min ⁻¹	33600 min ⁻¹	33600 min ⁻¹	31200 min ⁻¹	
Mounting orientation	Any	Any	Any	Any	Any	
Approx. Weight	16 kg	19 kg	37 kg	45 kg	45 kg	



RCU Specifications	ETC030M	ETC030MT (with TMS)			
Input AC Voltage	200 - 240V 1ph 50/60Hz				
Voltage Fluctuation	-15% / +10%				
Short circuit current rating [SCCR]	5 kA				
Power Input	Model	397M/427M	907M/1307M	397MI/427MI	907MI/1307MI
	Max. Current	2.4A	5A	3.4A	6.5A
	Req. Power	0.4kVA	0.9kVA	0.8kVA	1.5kVA
Overvoltage Category (IEC60664-1)	III				
Protection Rating	IP20				
Approx. Weight	8 kg				
Communication Interface Options	Analog (std), RS232, RS485, Devicenet, Profibus, EtherCat				
Dimensions (W x D x H)	210 x 132 x 400 (compliant with EIA 19" 3U)				