

**MAGLEV
TURBOMOLECULAR PUMPS**
ATH M and ATP M SERIES



A new and comprehensive range from 500 to 3200 l/s Magnetically levitated Adixen Turbomolecular pumps

**MY PROCESS REQUIRES
A CLEAN, DRY TURBO PUMP**

**DO YOU OFFER MAINTENANCE
FREE TURBO PUMPS ?**

**HOW RELIABLE ARE
YOUR MAGLEV TURBO PUMPS**

**AND WHAT ABOUT
PERFORMANCE ?**



Maintenance-free bearings, high-performance turbo pumps

Leading Adixen maglev applications include:

Semiconductor Industry processes

- Harsh processes : Metal / Poly / Oxide Etch
- DRIE (Si deep etch)
- CVD / PVD / HDPCVD
- Ion implantation
- Lithography
- Load lock pumping

Si industry

- Photovoltaic industry
- Flat Panel Display
- Micro Machining System

Coating and other industries

- Glass Coating
- Thin film deposition
- Sputtering
- Hard Disk manufacturing
- Load lock pumping

Instrumentation

- Electron microscopy
- Ion milling
- Medical imaging

Research and development

- Particle accelerators



ATH 2303 M with OBC

THE ADIXEN MAGLEVS ARE CLEAN, DRY HIGH VACUUM PUMPS

The magnetic bearing is frictionless and does not require any grease.

THE ADIXEN MAGLEV BEARINGS ARE MAINTENANCE FREE

Because the magnetic bearing of the ATH M series is maintenance free, the pumps can run for years without any interruption on a clean process. This gives the ATH M series a significant cost of ownership advantage over ball bearing turbo pumps.

THE ATH M ARE THE MOST RELIABLE TURBOS ON THE MARKET

The pumping cells of the ATH M pumps are designed for minimal stress on difficult applications. Furthermore, the pump can accept multiple landings at full speed on the emergency dry, back-up bearings.

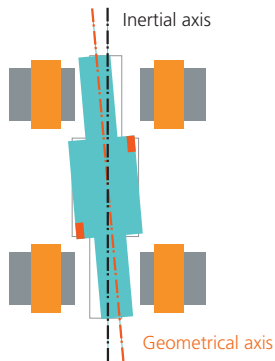
THE ATH M OFFERS THE BEST PERFORMANCE/SIZE RATIOS ON THE MARKET

Sophisticated software tools helps us to develop the highest performing pumps for a given size. The pumps offer either high flow at high pressure as well as very low ultimate pressure.

Rotor control

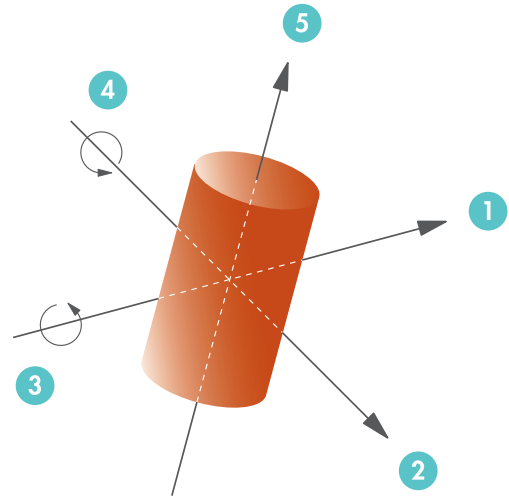
Automatic balancing system

This device compensates in real time for any imbalance of the rotor due to accumulation of deposits.



5-axis control

A 5-axis magnetic bearing provides control of the rotor at high speed.



Pump protection

Purge

An inert gas purge is built into the pump. It may be used to prevent corrosive attack or deposition build-up inside the pumps.

Heated version pumps for corrosive applications



The MT model features a temperature management system which controls an integrated heater band. The heater band and water cooling maintain the

pump internal surface at a constant temperature (up to 75° C) in order to minimize the condensation of by-products inside the pump.

Pump safety

Power failure

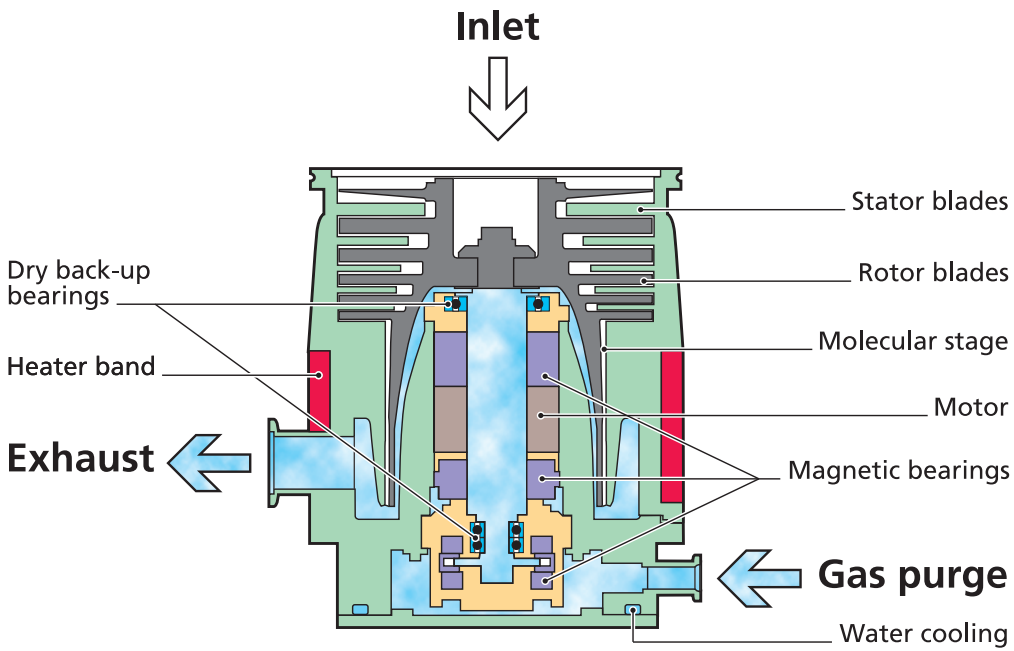
In the event of a power failure, the maglev rotor acts as a generator to convert the rotor energy into electrical power to supply the controller. Thus, the rotor remains levitated and slows down, until gently landing on the back-up bearings. No battery is required.

Landing

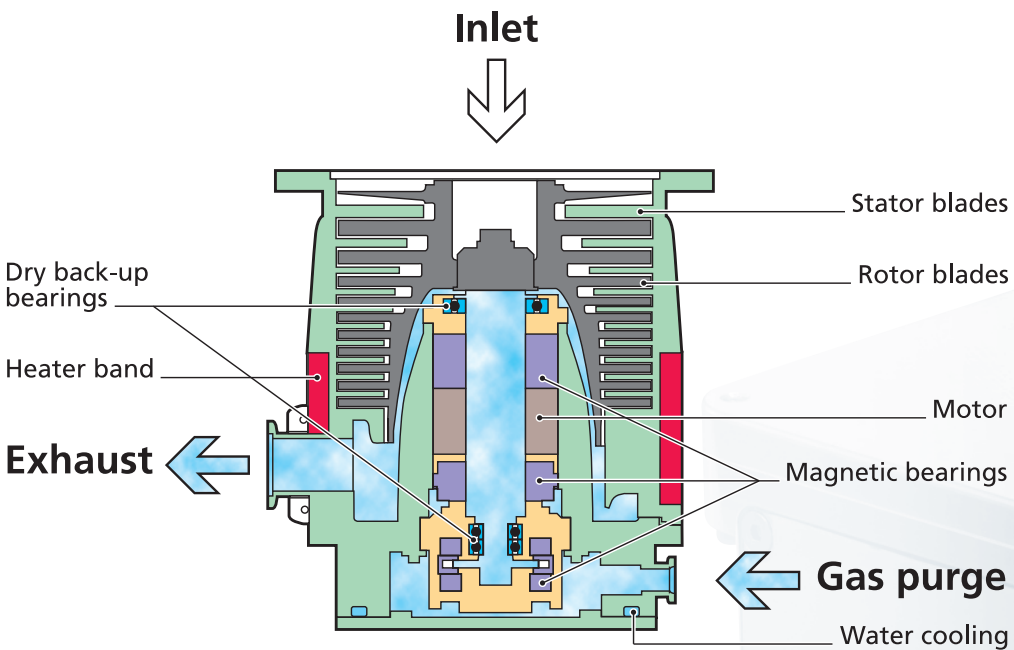
The pump emergency back-up bearings can withstand multiple landings at full speed in the exceptional event of an accidental cable disconnection, or a massive air inrush. The controller monitors the status of the backup bearing life.

Cross section

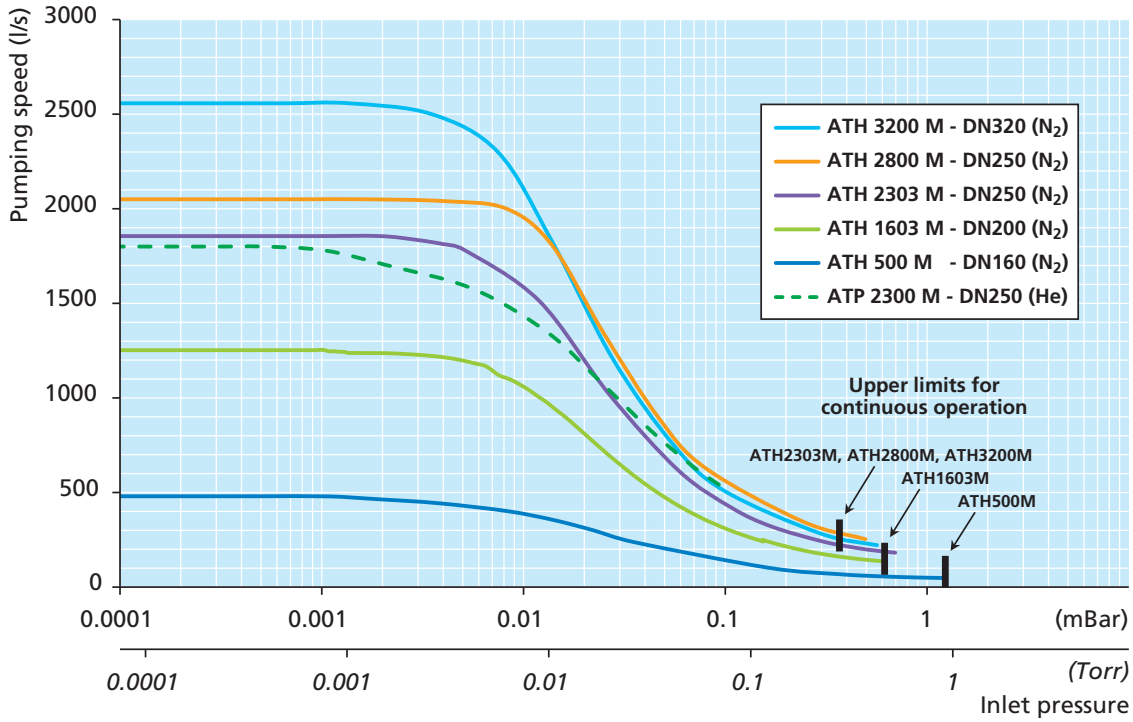
ATH M cross section



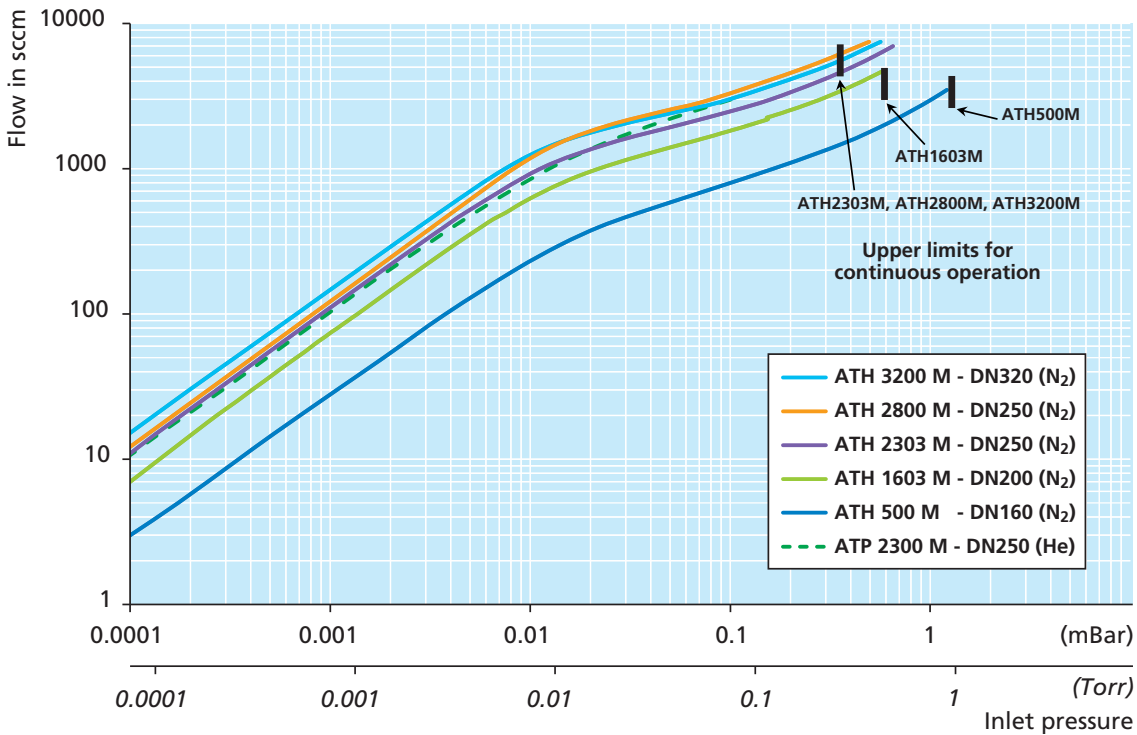
ATP M cross section



Pumping speed* versus inlet pressure



Flow rate* versus inlet pressure



High throughput at high inlet pressure or high pumping speed for light gases

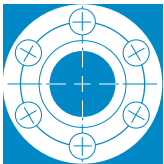
The ATH M pump series are designed for high pressure and high throughput, but also provide low ultimate pressure.

Adjustable rotational speed

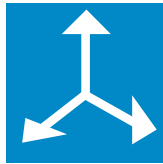
The ATH M series features adjustable rotational speed control, optimizing the pumping parameters. For instance, at high pressure, the throughput can be increased if the rotational speed is decreased.

Flange and orientation

Industry standard flanges are available. All maglevs can be installed in any orientation for easy integration.



ISO-K/CF-F/ISO-F/VG



Any orientation

Adixen's Magnetically levitated series

ATH 3200 M

Adixen **T**urbomolecular **H**ybrid pump - **M**agnetically levitated (ATH M series)
→ From 500 to 3200 l/s

ATP 2300 M

Adixen **T**urbomolecular **P**ump - **M**agnetically levitated (ATP M)
→ For light gas applications

ATH 3200 **MT**

T is for **T**hermal-controlled version

Technical data (measured specifications per PNEUROP standards)

		ATH 500 M		ATH 500 MT
Rotational Speed	rpm	50000		
Inlet Flange		DN100	DN160	DN160
Pumping Speed with inlet screen	N ₂ l/s	300	500	500
	Ar l/s	270	500	500
	He l/s	270	340	340
	H ₂ l/s	170	190	190
Compression ratio	N ₂	2 x 10 ⁷		
	Ar	8 x 10 ⁶		
	He	1 x 10 ⁴		
	H ₂	2 x 10 ²		
Ultimate Pressure	mbar	< 1 x 10 ⁻⁸		
Recommended Purge Flow Rate	sccm	50		
Maximum continuous inlet pressure N ₂ *	mbar	1	1.2	0.02
Maximum continuous exhaust pressure N ₂ **	mbar	1.7	1.8	1.7
Maximum throughput N ₂ (M: cold, MT: 65°C)*	sccm	3000		500
Maximum heating temperature	°C	N/A		65
Maximum baking temperature	°C	120		
Vibration level (displacement)	µm	< 0.01		
Recommended backing pump		ACP40		
Recommended cooling water flow rate	l/hour	60		
Cooling water temperature	°C	15-25		
Mounting orientation		Any		
Exhaust flange		DN25 ISOKF		DN40 ISO KF
N ₂ purge flange		1/8G (ISO228)		1/4VCR
Start up time (maximum)	mn	< 2.5		
Pump weight	kg (lb)	17 (37)		18 (39)
Remote Controller type		N/A		
Controller weight	kg (lbs)	N/A		
Start up Power	Watt	560		
Nominal Power	Watt	100		
Controller power supply		48 VDC		
Stainless steel inlet screen (factory setting)		yes		
OBC (on-board-control) control option	Profibus	yes		no
	Remote	yes		
	Device net	no		

*Depends on external conditions of water temperature, water flow, environment temperature

** Exhaust pressure limit without flow speed loss. Depends on certain external condition

		ATH 1603 M		ATH 1600 MT	
Rotational Speed	rpm	39000			
Inlet Flange		DN200	DN250	DN200	DN250
Pumping Speed with inlet screen	N ₂ l/s	1200	1220	1200	1220
	Ar l/s	1100	1150	1100	1150
	He l/s	1050	1050	1050	1050
	H ₂ l/s	550	550	550	550
Compression ratio	N ₂	6 x 10 ⁷			
	Ar	6 x 10 ⁷			
	He	8 x 10 ³			
	H ₂	3 x 10 ²			
Ultimate Pressure	mbar	< 6 x 10 ⁻⁹			
Recommended Purge Flow Rate	sccm	50			
Maximum continuous inlet pressure N ₂ *	mbar	0.6		0.01	
Maximum continuous exhaust pressure N ₂ **	mbar	2		1.8	
Maximum throughput N ₂ (M: cold, MT: 65°C)*	sccm	4000		1000	
Maximum heating temperature	°C	N/A		75	
Maximum baking temperature	°C	120			
Vibration level (displacement)	µm	< 0.01			
Recommended backing pump		ADS602			
Recommended cooling water flow rate	l/hour	60			
Cooling water temperature	°C	15-40			
Mounting orientation		Any			
Exhaust flange		DN40 ISO KF			
N ₂ purge flange		DN16 ISO KF			
Start up time (maximum)	mn	6			
Pump weight	kg (lb)	34 (75.5)			
Remote Controller type		Magpower		ACT1300M	
Controller weight	kg (lbs)	8.7 (19)		8 (18)	
Start up Power	Watt	650			
Nominal Power	Watt	300			
Controller power supply		200-240V - 50/60 Hz Single phase			
Stainless steel inlet screen (factory setting)		yes			
OBC (on-board-control) control option	Profibus	yes			
	Remote	yes			
	Device net	yes			

*Depends on external conditions of water temperature, water flow, environment temperature

** Exhaust pressure limit without flow speed loss. Depends on certain external condition

Technical data (measured specifications per PNEUROP standards)

		ATH 2303 M		ATH 2300 MT		ATP 2300 M	
Rotational Speed	rpm	31000					
Inlet Flange		DN200	DN250	DN200	DN250	DN200	DN250
Pumping Speed with inlet screen	N ₂ l/s	1250	1850	1250	1850	1250	1750
	Ar l/s	1200	1750	1200	1750	1200	1650
	He l/s	1500	1600	1500	1600	1700	1800
	H ₂ l/s	1200	1200	1200	1200	1700	1700
Compression ratio	N ₂	> 1 x 10 ⁸				>1 x 10 ⁸	
	Ar	> 1 x 10 ⁸				>1 x 10 ⁸	
	He	> 3 x 10 ⁴				>1 x 10 ⁵	
	H ₂	>1 x 10 ³		>2 x 10 ³		>7 x 10 ³	
Ultimate Pressure	mbar	< 6 x 10 ⁻⁹				< 4 x 10 ⁻⁹	
Recommended Purge Flow Rate	sccm	50					
Maximum continuous inlet pressure N ₂ *	mbar	0.3		0.01		0.33	
Maximum continuous exhaust pressure N ₂ **	mbar	2.5		2.8		2.1	
Maximum throughput N ₂ (M: cold, MT: 65°C)*	sccm	4000		1000		2200	
Maximum heating temperature	°C	N/A		75		N/A	
Maximum baking temperature	°C	120					
Vibration level (displacement)	µm	< 0.01					
Recommended backing pump		ADS602					
Recommended cooling water flow rate	l/hour	60					
Cooling water temperature	°C	15-40					
Mounting orientation		Any					
Exhaust flange		DN40 ISO KF					
N ₂ purge flange		DN16 ISO KF					
Start up time (maximum)	mn	8				8	
Pump weight	kg (lb)	60 (132.3)				52 (112)	
Remote Controller type		Magpower					
Controller weight	kg (lbs)	8.7 (19)					
Start up Power	Watt	1000				1000	
Nominal Power	Watt	350				350	
Controller power supply		200-240V - 50/60 Hz Single phase					
Stainless steel inlet screen (factory setting)		yes					
OBC (on-board-control) control option	Profibus	yes					
	Remote	yes					
	Device net	yes					

*Depends on external conditions of water temperature, water flow, environment temperature

** Exhaust pressure limit without flow speed loss. Depends on certain external condition

		ATH 2800 M	ATH 2800 MT	ATH 3200 M	ATH 3200 MT
Rotational Speed	rpm	25000			
Inlet Flange		DN250		DN320	
Pumping Speed with inlet screen	N ₂ l/s	2050		2600	
	Ar l/s	2000		2400	
	He l/s	2150		2400	
	H ₂ l/s	1750		1800	
Compression ratio	N ₂	> 1 x 10 ⁸			
	Ar	> 1 x 10 ⁸			
	He	> 3 x 10 ⁴			
	H ₂	> 2 x 10 ³			
Ultimate Pressure	mbar	< 6 x 10 ⁻⁹			
Recommended Purge Flow Rate	sccm	50			
Maximum continuous inlet pressure N ₂ *	mbar	0.26	0.01	0.26	0.01
Maximum continuous exhaust pressure N ₂ **	mbar	1.8	1.8	1.8	1.8
Maximum throughput N ₂ (M: cold, MT: 65°C)*	sccm	5000	1000	5000	1000
Maximum heating temperature	°C	N/A	75	N/A	75
Maximum baking temperature	°C	120			
Vibration level (displacement)	µm	< 0.01			
Recommended backing pump		ADS602			
Recommended cooling water flow rate	l/hour	60			
Cooling water temperature	°C	15-40			
Mounting orientation		Any			
Exhaust flange		DN40/50 ISO KF			
N ₂ purge flange		DN16 ISO KF			
Start up time (maximum)	mn	10			
Pump weight	kg (lb)	85 (187.4)			
Remote Controller type		Magpower			
Controller weight	kg (lbs)	8.7 (19)			
Start up Power	Watt	1000			
Nominal Power	Watt	400			
Controller power supply		200-240V - 50/60 Hz Single phase			
Stainless steel inlet screen (factory setting)		yes			
OBC (on-board-control) control option	Profibus	No			
	Remote	No			
	Device net	No			

*Depends on external conditions of water temperature, water flow, environment temperature

** Exhaust pressure limit without flow speed loss. Depends on certain external condition

Ordering information

ATH 500 M

Note

- The ATH 500 M is supplied with a stainless steel inlet screen and standard 50 sccm purge flow reducer (at 1 bar relative pressure)
- ATH 500 M controller requires 48 VDC power supply

ATH 500 M / ATH 500 MT

Inlet Flange DN	ATH 500 M Water cooling Remote P/N	ATH 500 M Water cooling Profibus P/N	ATH 500 M Air cooling Remote P/N	ATH 500 M Air cooling Profibus P/N	ATH 500 MT Heated Remote P/N
100 ISO-K	V2312100	VY312100	V2311100	VY311100	VR312103
100 CF-F	V2322100	VY322100	V2321100	VY321100	VR322103
160 ISO-F	V2462100	VY462100	V2461100	VY461100	VR462103
160 ISO-K	V2412100	VY412100	V2411100	VY411100	VR412103
160 CF-F	V2422100	VY422100	V2421100	VY421100	VR422103



ATH 500 M with integrated controller and optional HHR

Ordering information

Accessories for ATH 500 M

Accessories

Item	Part Number
Hand Held Remote (HHR)	114461
3.5 meter Power cord (Power supply to pump)	A331328-035
230VAC to 48VDC Power supply	114866
Power Cord 2.5m Europe standard 200V-240V	Consult us
Power Cord 3.5m US standard 250V	A332106-035

Purge control

By default, 50 sccm air purge is included with ATH 500 M

Purge accessories	Part Number
Purge plug with O-ring	115298S
Purge valve kit (24 VDC)*	115303S

* User driven

Mounting bolts

Pump type	Inlet size	Housing type							
		ISO F		ISO K		CF-F		VG (2)	
		P/N	Description	P/N	Description	P/N	Description	P/N	Description
ATH 500 M	DN 100	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
	DN 160	110676S	12 CHC M10*35	117996	12 CHC M10*50	(1)	(1)	(1)	n/a

n/a: not applicable, not possible - (1) Please consult us - (2) Without centering ring

Inlet screen (stainless steel)

Inlet Flange DN	Part Number
DN100	118001
DN160	118002

Mesh size = 5 mm

By default, ATH 500 M is delivered with a stainless screen

Rotatable flange

Inlet Flange DN	Part Number
100 ISO-K	303127
160 ISO-K	303129

See Adixen catalog page C26.18 for more detail

Copper gasket

Inlet Flange DN	Part Number
100 CF-F	303291
160 CF-F	303292

See Adixen catalog page C26.20 for more detail

Centering ring with oring

Inlet Flange DN	Part Number
100 ISO-K / ISO-F	068349
160 ISO-K / ISO-F	068186

See Adixen catalog page C26.14 for a more detail

Valves

Item description	Part Number
Air venting valve DN25 24V	108348

Ordering information

ATH M and ATP M series

Note

Applicable for all of ATH M and ATP M series, except ATH 500 M.

- **Required accessories:** pumps require the following accessories for operation: Interconnecting cable, ACT, OBC, or Magpower controller, and heater cable for MT models.
- **OBC controller:** can be driven in I/O Remote, RS232/RS485 devicenet or Profibus mode (Factory setting). Pumps equipped with OBC include a permanent 50 sccm purge valve (under a 1 bar relative pressure). OBC devicenet is available on request. See note (*) for OBC pumps for glass coating application.
- **Inlet screen:** all ATH M and ATP M include a stainless inlet screen.

ATH 1603 M / ATH 1600 MT

Inlet Flange DN	ATH 1603 M P/N	ATH 1600 MT P/N	ATH 1603 M with OBC Profibus controller P/N (*)	ATH 1603 M with OBC Devicenet controller P/N (*)	ATH 1600 MT with OBC Profibus controller P/N (*)
200 ISO-F	Y256210A	P6562100	YY56210A	YV56210A	PX56210A
200 ISO-K	Y251210A	P6512100	YY51210A	YV51210A	PX51210A
200 CF-F	Y252210A	P6522100	YY52210A	YV52210A	PX52210A
250 ISO-F	Y266210A	P6662100	YY66210A	YV66210A	PX66210A
250 ISO-K	Y261210A	P6612100	YY61210A	YV61210A	PX61210A
250 CF-F	Y262210A	P6622100	YY62210A	YV62210A	PX62210A

ATH 2303 M / ATH 2300 MT

Inlet Flange DN	ATH 2303 M P/N	ATH 2300 MT P/N	ATH 2303 M with OBC Profibus controller P/N (*)	ATH 2303 M with OBC Devicenet controller P/N (*)	ATH 2300 MT with OBC Profibus controller P/N (*)
200 ISO-F	X2562100	Q6562100	XY56210A	XV56210A	QX56210A
250 ISO-F	X2662100	Q6662100	XY66210A	XV66210A	QX66210A
250 CF-F	X2622100	Q6622100	XY62210A	XV62210A	QX62210A

(*) For glass coating applications, replace the last two digits of P/N (0A) with (5A). Pumps for glass coating applications come with the following extra accessories: Clamp (DN32/40KF), stainless steel non rotatable (ISO-K only), inlet centering ring (ISO-F only), high strength screw kit, centering ring DN40KF, and purge valve. Contact us for more information.

Ordering information

ATH M and ATP M series

ATP 2300 M

Inlet Flange DN	ATP 2300 M P/N	ATP 2300 M with OBC Profibus controller P/N (*)	ATP 2300 M with OBC DeviceNet controller P/N (*)
200 ISO-F	T2562100	TY56210A	TV56210A
250 ISO-F	T2662100	TY66210A	TV66210A
250 ISO-K	T2612100	TY61210A	TV61210A
250 CF-F	T2622100	TY62210A	TV62210A

ATH 2800 M / MT

Inlet Flange DN	ATH 2800 M P/N	ATH 2800 MT P/N
250 ISO-F	U2662100	U6662100
VG250	U26A2100	U66A2100

For other inlet housing configurations, please consult us.

ATH 3200 M / MT

Inlet Flange DN	ATH 3200 M P/N	ATH 3200 MT P/N
320 ISO-F	U2C62100	U6C62100
VG350	U2DA2100	U6DA2100

For other inlet housing configurations, please consult us.

(*) For glass coating applications, replace the last two digits of P/N (0A) with (5A). Pumps for glass coating applications come with the following extra accessories: Clamp (DN32/40KF), stainless steel non rotatable (ISO-K only), inlet centering ring (ISO-F only), high strength screw kit, centering ring DN40KF, and purge valve. Contact us for more information.

Multiple controller options for compact and effective electronic monitoring – ACT 1300 M, Magpower and OBC (pump mounted)

Adixen maglev pump controller offering:

		ACT 1300 M	Magpower	OBC
Controller type	1/2 rack	●	●	
	Pump mounted			●
Associated pump	ATH 1603 M		●	●
	ATH 1600 MT	●		●
	ATH 2303 M		●	●
	ATH 2300 MT		●	●
	ATP 2300 M		●	●
	ATH 2800 M / MT		●	
	ATH 3200 M / MT		●	
Power supply	200-240 VAC		●	●
	Universal	●		

Rack controllers: ACT 1300 M and Magpower

- Light weight: 8 kg / 19 lbs
- Compact 1/2 rack

Pump mounted controller: OBC

- Compact , up to 40% volume reduction
- No cables required
- Devicenet and Profibus network
- LEDs for pump status / HHR (Hand Held Remote) option for maintenance

All controllers feature:

- Inputs
 - Remote control of START/ STOP/ STANDBY/ INHIBIT functions
- Outputs
 - Pump starting
 - Pump at speed
 - Stand-by on
 - Venting valve on/off (OBC only)
 - Selectable 0 – 10 volts output for speed, pump current or temperature (not for OBC)

Convenient Interface

- User friendly menu (For OBC, with HHR option)
- Digital display of:
 - Rotational speed
 - Pump current
 - Pump and controller temperatures
 - Fault codes

Full interchangeability

No pump to controller matching: any controller may be used with any Adixen Maglev pump, without the need for tuning or adjustment (not for ACT 1300 M)



ATP 2300 M with Magpower controller



ATH 1603 M with OBC and HHR



ACT 1300 M controller

Ordering information

Accessories for ATH M and ATP M series (except ATH 500 M)

Remote ACT controller or Magpower controller

Item description	Part Number	Applicable pump
ACT 1300 M controller (universal Voltage) ⁽¹⁾	114462	ATH 1600 MT
ACT 1300 M Lon controller (universal Voltage) ⁽¹⁾	114463	ATH 1600 MT
Magpower controller (200-240 VAC) ⁽¹⁾	114679	ATH 1603 M, ATH 2303 M, ATP 2300 M, ATH 2300 MT, ATH 2800 M / MT, ATH 3200 M / MT

⁽¹⁾ ROHS

Interconnecting cable: pump to rack controllers

Length	ACT 1300 M	Magpower
	Part Number	Part Number
1 m	104624	A215300-010-C6-D
3.5 m	103719	A215300-035-C6-D
5 m	103720	A215300-050-C6-D
10 m	103721	A215300-100-C6-D
20 m	A214574	A215300-200-C6-D

Note : Interconnecting cable is not required on pumps equipped with OBC controllers

Valve cable (controller to vent valve)

Length	ACT 1300 M	Magpower
	Part Number	Part Number
1 m	106052	A462403-010
3.5 m	105172	A462403-035
5 m	105173	A462403-050
10 m	105174	A462403-100
20 m	A459362	A462403-200

Note : Valve cable is not required on pumps equipped with OBC controllers

Heater band cables (MT pumps and ACT 1300 M only)

Interconnecting cable between heater band and controller. This cable includes water valve cable.

Length	Heater band cables	
	110-120V – 50-60hz	200-240V – 50-60hz
	Part Number	Part Number
1 m	A328698A	A328697A
3.5 m	A328698B	A328697B
5 m	A328698C	A328697C
10 m	A328698D	A328697D
20 m	A328698F	A328697F

Ordering information

Accessories for ATH M and ATP M series (except ATH 500 M)

Heater band and water valve cables (MT pumps and Magpower only)

Length	Heater cable	Water valve cable
	200-240V – 50/60hz	24VDC
	Part Number	Part Number
1 m	A460082-010	A462401-010
3.5 m	A460082-035	A462401-035
5 m	A460082-050	A462401-050
10 m	A460082-100	A462401-100
20 m	A460082-200	A462401-200

Mounting bolts

For safety reasons, we recommend installing the high strength bolts and washers specified below

Pump type	Inlet size	Housing type							
		ISO F		ISO K		CF-F		VG (2)	
		P/N	Description	P/N	Description	P/N	Description	P/N	Description
ATH 1600 M	200	110675	12 CHC M10*30 ⁽²⁾	117996	12 CHC M10*50	111664	24 CHC M8*65	(1)	
		110676S	12 CHC M10*35 ⁽³⁾						
	250	110675	12 CHC M10*30 ⁽²⁾	117996	12 CHC M10*50	111665	32 CHC M8*65	113189	12 CHC M12*45
		110676S	12 CHC M10*35 ⁽³⁾						
ATH 1603 M	200	110675	12 CHC M10*30 ⁽²⁾	(1)		(1)		(1)	
		110676S	12 CHC M10*35 ⁽³⁾	(1)		(1)		(1)	
	250	110675	12 CHC M10*30 ⁽²⁾	(1)		(1)		(1)	
		110676S	12 CHC M10*35 ⁽³⁾	(1)		(1)		(1)	
ATH 2300 M	200	114510	12 stub M10*35	114510	12 stub M10*35	(1)		(1)	
	250	110034	12 CHC M10*30 ⁽²⁾	117996	12 CHC M10*50	118690	32 stub M8*35	(1)	
		110676S	12 CHC M10*35 ⁽³⁾						
ATP 2300 M	200	114510	12 stub M10*35 ⁽³⁾	(1)		(1)		(1)	
	250	110034	12 CHC M10*30 ⁽²⁾	117996	12 CHC M10*50	118690	32 stub M8*35	(1)	
		110676S	12 CHC M10*35 ⁽³⁾						
ATH 2303 M	200	114510	12 stub M10*35	(1)		(1)		(1)	
	250	110034	12 CHC M10*30 ⁽²⁾	(1)		118690	32 stub M8*35	(1)	
		110676S	12 CHC M10*35 ⁽³⁾						
ATH 2800 M	250	110034	12 CHC M10*30 ⁽²⁾	(1)		(1)		113189	12 CHC M12*45
		110676S	12 CHC M10*35 ⁽³⁾						
ATH 3200 M	320	113189	12 CHC M12*45 ⁽³⁾	(1)		n/a		n/a	
	350	n/a		n/a		(1)		113189	12 CHC M12*45

n/a: not applicable - (1) Please consult us - (2) Without centering ring - (3) With centering ring

Power cord

Item description	ACT 1300 M (universal voltage) and Magpower (220 VAC)	
	Part Number	
Power Cord 2.5m Europe standard 200-240V AC	A328405	
Power Cord 2.5m US standard 100-120V AC	A328406	
Power Cord 2.5m US standard 200-240V AC	A331729	

Valves

Item description	Part Number	Applicable controller
Air Venting DN 40 24 VDC normally = closed, 11 SLM	114280	Magpower and OBC

For other specific requests, please consult us.

Inlet Screen

By default, all pumps are delivered with a stainless steel inlet screen

Inlet Flange DN	Part Number		Applicable pump
	Stainless steel	Aluminium	
200 ISO-K / ISO-F / CF-F	108872	109200	ATH 1603 M, ATH 1600 MT, ATP 2300 M, ATH 2303 M, ATH 2300 MT
250 ISO-K / ISO-F / VG	108762	111640	ATH 1603 M, ATH 1600 MT, ATP 2300 M, ATH 2303 M, ATH 2300 MT
250 ISO-F / CF-F / VG	112128		ATH 2800 M
320 ISO-K / ISO-F / CF-F	112132		ATH 3200 M
350 VG	114683		ATH 3200 M

Hand Held Display Module

Item description	Part Number
Hand Held Remote (HHR) Display Module (OBC controller only)	114461

Rotatable flange

Inlet Flange DN	Part Number
200 ISO-K / ISO-F / CF-F	303131
250 ISO-K / ISO-F / CF-F	303133

See Adixen catalog page C26.18 for more detail

Centering ring with oring

Inlet Flange DN	Part Number
200 ISO-K / ISO-F	112007
250 ISO-K / ISO-F	114583
320 ISO-K / ISO-F	113130

See Adixen catalog page C26.14 for more detail

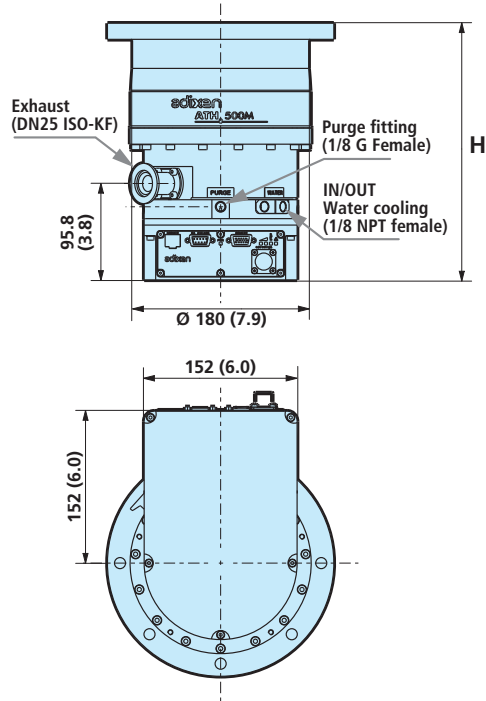
Copper Gasket

Inlet Flange DN		Part Number
200 CF-F	(set of 10)	303293
250 CF-F	(set of 1)	303294

See Adixen catalog page C26.20 for more detail

Dimensions mm (inches)

ATH 500 M/MT

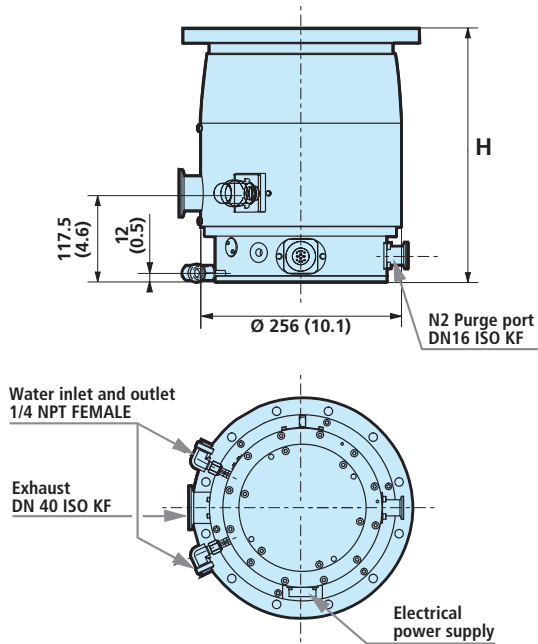


Inlet Flange	H*	
	mm	inches
DN 160 ISO-F	256	10.1
DN 160 ISO-K	256	10.1
DN 160 CF-F	277	10.9
DN 100 ISO-K	296	11.7
DN 100 CF-F	306	12.1

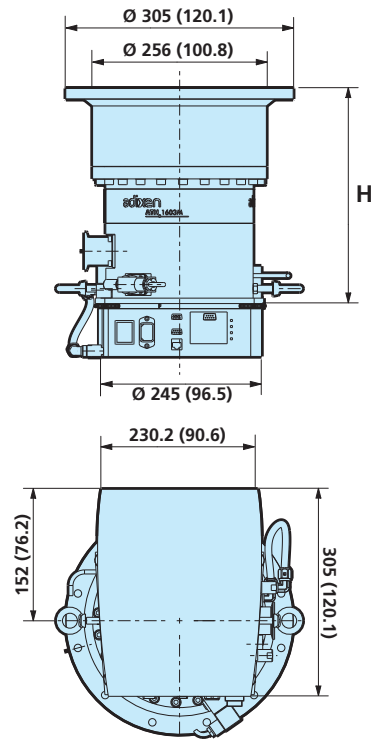
All dimensions in mm (inches)

* Height without mesh

ATH 1600 MT



ATH 1603 M



Inlet Flange	H*	
	mm	inches
DN 250 ISO-F	317.4	12.5
DN 250 ISO-K	317.4	12.5
DN 250 CF-F	328.9	13.0
DN 200 ISO-F	317.4	12.5
DN 200 ISO-K	317.4	12.5
DN 200 CF-F	343.9	13.5

Contact us for dimension with OBC

Inlet Flange	H*	
	mm	inches
DN 200 ISO-F	320.15	12.6
DN 250 ISO-F	317.15	12.5

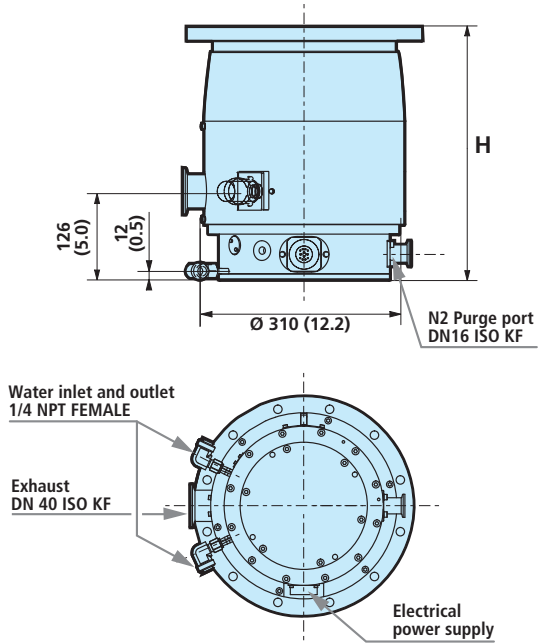
Contact us for dimension with OBC

All dimensions in mm (inches)

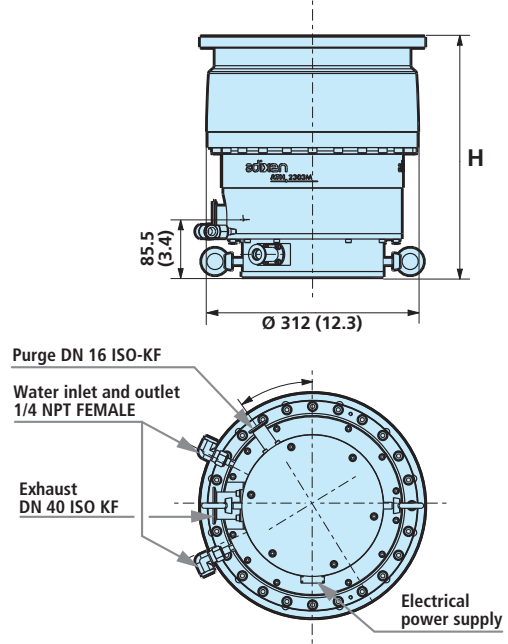
* Height without mesh

Dimensions mm (inches)

ATH 2300 MT



ATH 2303 M



Inlet Flange	H*	
	mm	inches
DN 250 ISO-F	358.5	14.1
DN 250 ISO-K	358.5	14.1
DN 250 CF-F	402.5	15.9
DN 200 ISO-F	402.5	15.9
DN 200 CF-F	402.5	15.9

Inlet Flange	H*	
	mm	inches
DN 250 ISO-F	358.1	14.1
DN 250 CF-F	403.0	15.9
DN 200 ISO-F	416.0	16.4

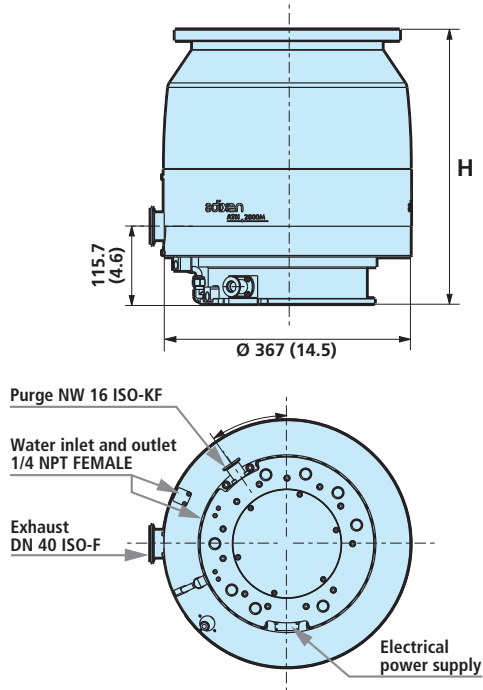
Contact us for dimension with OBC

Contact us for dimension with OBC

All dimensions in mm (inches)

* Height without mesh

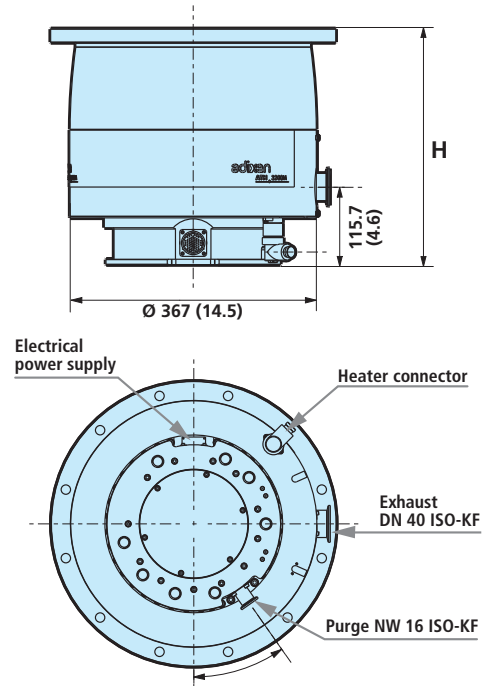
ATH 2800 M/MT



Inlet Flange	H*	
	mm	inches
DN 250 ISO-F	409.0	16.1
VG250	409.0	16.1

Contact us for dimension with OBC

ATH 3200 M/MT



Inlet Flange	H*	
	mm	inches
DN 320 ISO-F	351.4	13.8
VG350	351.4	13.8

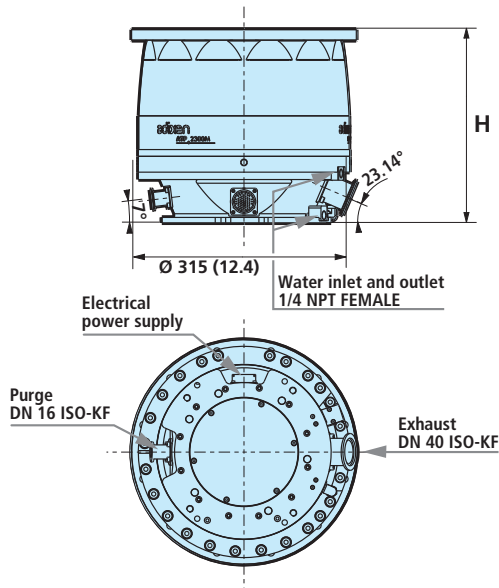
Contact us for dimension with OBC

All dimensions in mm (inches)

* Height without mesh

Dimensions mm (inches)

ATP 2300 M



Inlet Flange	H*	
	mm	inches
DN 250 ISO-F	289.2	11.4
DN 250 ISO-K	289.2	11.4
DN 250 CF-F	333.2	13.1
DN 200 ISO-F	350.2	13.8
DN 200 ISO-K	350.2	13.8

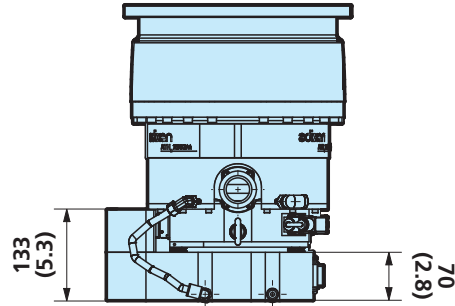
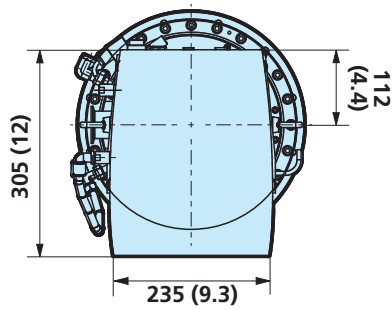
Contact us for dimension with OBC

All dimensions in mm (inches)

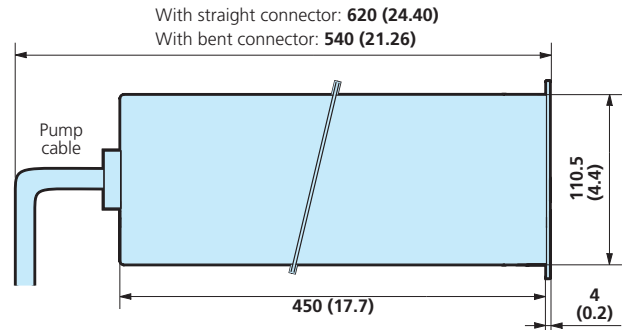
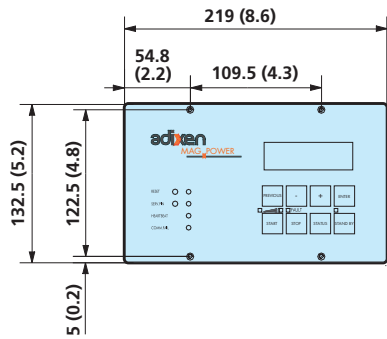
* Height without mesh

Controller dimensions mm (inches)

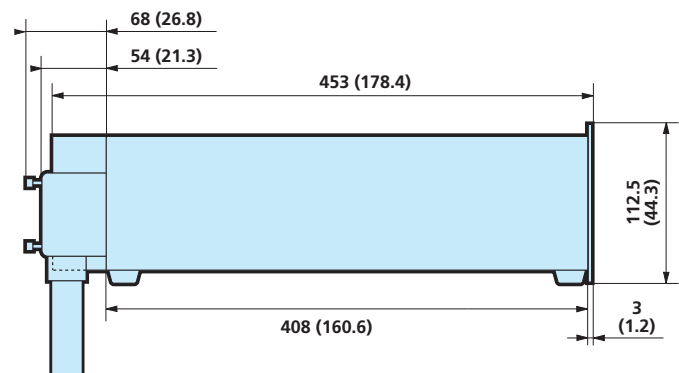
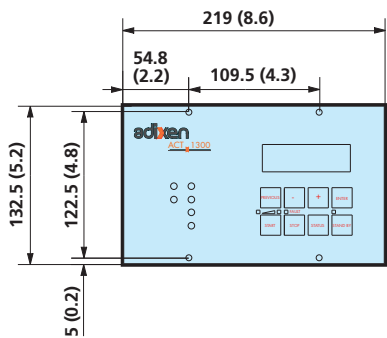
OBC (pump mounted)



Magpower Controller



ACT 1300 M Controller



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