

EPX180L Dry pump



The new compact EPX180 high vacuum drypump offers enhanced performance with reduced cost of ownership. Using a unique patent protected mechanism the EPX180 is capable of pumping from atmosphere to ultimate pressures of $<7 \times 10^{-5}$ Torr.

Based on the successful award winning IPX range, the modular EPX180 offers outstanding performance in a package that is 20% lighter, 30% smaller and requires 40% less power than the IPX.

Features & Benefits

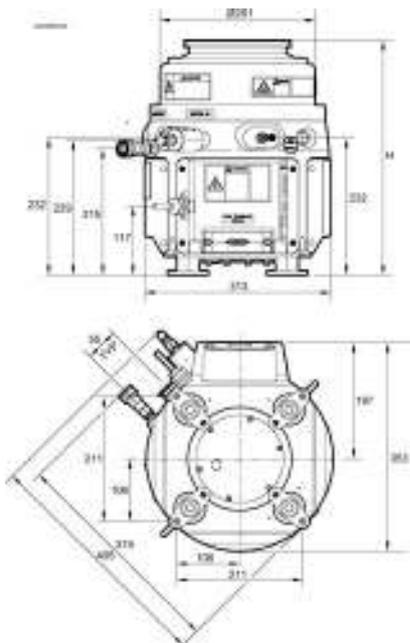
- Compact footprint - as one of the smallest on-tool pumps available, the EPX offers outstanding savings in footprint. EPX can be mounted directly onto the tool saving foreline and installations costs or remotely if preferred.
- Low cost of ownership - EPX requires only 1.4 kW of power and incorporating idle mode to maximize power efficiency.
- Unique patent protected pumping mechanism - the EPX can pump down from atmosphere to turbomolecular base pressure and can operate continuously at all inlet pressures.
- Ultra clean mechanism - conventional high vacuum bearings under grease use grease lubrication which can be a source of contamination in process tools. EPX pumps have no high vacuum bearings under grease and present no other source of potential contamination.
- Extremely reliable - based on field proven IPX technology, the EPX has a $MTBF_p = 13$ years (SEMI E10) with service periods of around every 5 years to maximize the life of the pump.

Applications

The EPX series covers a broad range of applications from wafer handling through to medium duty processes.

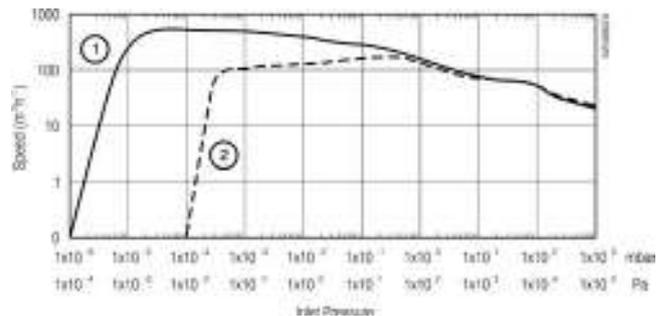
The EPX 'L' Series has been designed for use clean duty applications pumping inert gas mixtures, such as loadlock, whereby control is provided by the process tool interface.

Dimensions

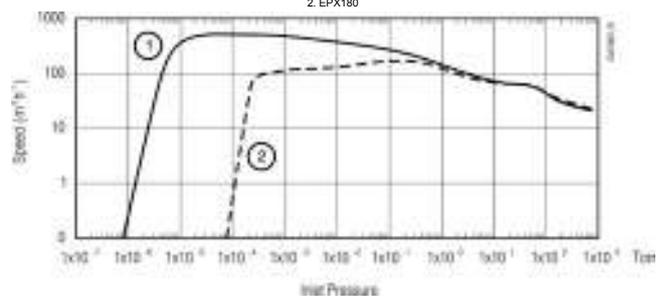


H = 388 (EPX180)
H = 397 (EPX500)

Performance Curves



1. EPX500
2. EPX180



1. EPX500
2. EPX180

Technical Data

Peak speed	170 m ³ h ⁻¹ 105 ft ³ min ⁻¹ 2835 lmin ⁻¹
Ultimate vacuum	<1 x 10 ⁻⁴ mbar <7.5 x 10 ⁻⁵ Torr <1 x 10 ⁻² Pa
Warm-up time (to nominal performance)	30 min
Inlet flange	ISO63
Outlet flange	NW25
Noise	<59 dB(A)
Water connectors	3/8 in Quick
Minimum cooling water flow rate	2 lm ⁻¹
Cooling water temperature	15 – 35 °C
Electrical Supply	200/208 V, 50/60 Hz 3 phase
Power at ultimate	1.4 kW
Rated motor power	3.0 kW
TIM	C3
Weight	43.5 kg

Ordering Information

Product Description	Order No.
EPX180L Dry pump 400V, 3/8 Quick connects	A41941014
EPX180L Dry pump 208V C3 TIM 9/16 water connector	A41941132
EPX180L Dry pump 208V SPI TIM 3/8 water connector	A41941212
EPX180L Dry pump 208V SPI TIM 1/4 water connector	A41941222
EPX180L Dry pump 208V E73 TIM 3/8 water connector	A41941312
EPX180L Dry Pump 400V E73 TIM 3/8 water connectors	A41941314
EPX180L Dry pump 208V TEL TIM 3/8 water connector	A41941412
EPX180L Dry Pump 400V LAM TIM 3/8 water connectors	A41941514
EPX180L Dry Pump 208V MCM TIM 3/8 water connector	A41941712
EPX180L Dry pump 400V, 3/8 Water connectors	A41941014
EPX180L Dry pump 200V	A41941002
EPX180L Dry pump 200V, 3/8 water connector	A41941012
EPX180L Dry pump 208V C3 TIM 3/8 water connector	A41941112
EPX180L Dry pump 400V 1/4 water connector	A41941024
EPX180L Dry pump 208V C3 TIM 3/8 water connector	A41941142
EPX180L Dry pump 208V C3 TIM 3/8 water connector	A41941152
EPX180L Dry pump 400V SPI TIM 3/8 water connector	A41941214

EPX180LE Dry Pump



The new compact EPX180 high vacuum drypump offers enhanced performance with reduced cost of ownership. Using a unique patent protected mechanism the EPX180 is capable of pumping from atmosphere to ultimate pressures of $<7 \times 10^{-5}$ Torr.

The EPX LE series of pumps has an End User Controller (EUC). The End User Controller enables local control for stand-alone use as well as the ability to connect to a fab-wide network for remote control and monitoring.

Features & Benefits

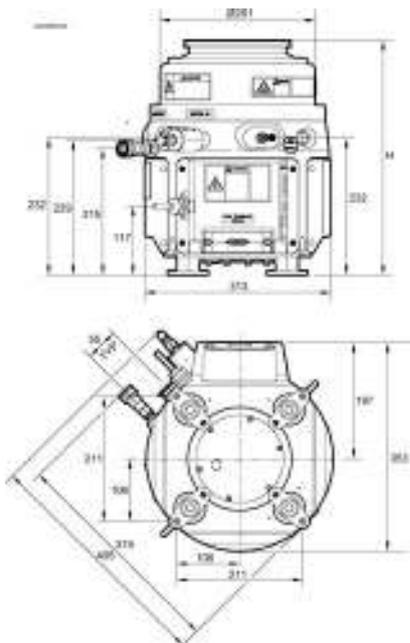
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- Low cost of ownership - EPX requires only 1.4 kW of power and incorporating idle mode to maximize power efficiency.
- Unique patent protected pumping mechanism - the EPX can pump down from atmosphere to turbomolecular base pressure and can operate continuously at all inlet pressures.
- Ultra clean mechanism - conventional high vacuum bearings under grease use grease lubrication which can be a source of contamination in process tools. EPX pumps have no high vacuum bearings under grease and present no other source of potential contamination.
- Extremely reliable - based on field proven IPX technology, the EPX has a $MTBF_p = 13$ years (SEMI E10) with service periods of around every 5 years to maximize the life of the pump.

Applications

The EPX series covers a broad range of applications from wafer handling through to medium duty processes.

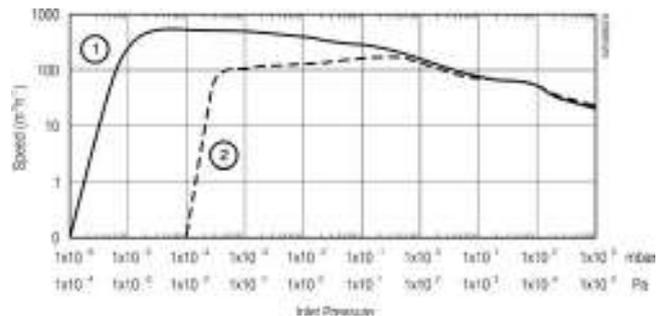
The EPX 'LE' Series has been designed for use clean duty applications pumping inert gas mixtures, such as loadlock, whereby control is provided by the process tool interface.

Dimensions

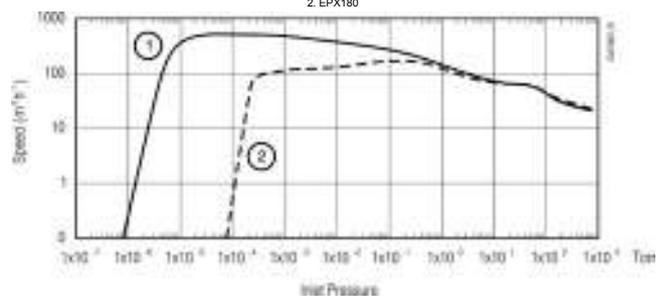


H = 388 (EPX180)
H = 397 (EPX500)

Performance Curves



1. EPX500
2. EPX180



1. EPX500
2. EPX180

Technical Data

Peak speed	170 m ³ h ⁻¹ 105 ft ³ min ⁻¹ 2835 lmin ⁻¹
Ultimate vacuum	<1 x 10 ⁻⁴ mbar <7.5 x 10 ⁻⁵ Torr <1 x 10 ⁻² Pa
Warm-up time (to nominal performance)	30 min
Inlet flange	ISO63
Outlet flange	NW25
Noise	<59 dB(A)
Water connectors	3/8 in Quick
Minimum cooling water flow rate	2 lmin ⁻¹
Cooling water temperature	15 – 35 °C
Electrical Supply	200/208 V, 50/60 Hz 3 phase
Power at ultimate	1.4 kW
Rated motor power	3.0 kW
TIM	None
Weight	43.5 kg

Ordering Information

Product Description	Order No.
EPX180LE Dry Pump 208V No TIM 3/8 water connector	A41943012
EPX180LE Dry Pump 400V No TIM 3/8 water connectors	A41943014
EPX180LE Dry Pump 208V No TIM 1/4 water connector	A41943022
EPX180LE Dry Pump 400V No TIM 1/4 water connectors	A41943024
EPX180LE Dry Pump 208V C3 TIM 3/8 water connector	A41943112
EPX180LE Dry Pump 208V SPI TIM 3/8 water connector	A41943212
EPX180LE Dry Pump 208V SPI TIM 1/4 water connector	A41943222
EPX180LE Dry Pump 400V SPI TIM 1/4 water connectors	A41943224
EPX180LE Dry Pump 208V TEL TIM 3/8 water connector	A41943412
EPX180LE Dry Pump 208V Hitachi TIM 3/8 water connector	A41943612
EPX180LE Dry Pump 208V MCM TIM 3/8 water connector	A41943712
EPX180LE Dry Pump 400V MCM TIM 3/8 water connectors	A41943714
EPX180LE Dry Pump 208V MCM TIM 1/4 water connector	A41943722

EPX180N Dry pump



The new compact EPX180 high vacuum drypump offers enhanced performance with reduced cost of ownership. Using a unique patent protected mechanism the EPX180 is capable of pumping from atmosphere to ultimate pressures of $<7 \times 10^{-5}$ Torr.

Based on the successful award winning IPX range, the modular EPX180 offers outstanding performance in a package that is 20% lighter, 30% smaller and requires 40% less power than the IPX.

Features & Benefits

- Compact footprint - as one of the smallest on-tool pumps available, the EPX offers outstanding savings in footprint. EPX can be mounted directly onto the tool saving foreline and installations costs or remotely if preferred.
- Low cost of ownership - EPX requires only 1.4 kW of power and incorporating idle mode to maximize power efficiency.
- Unique patent protected pumping mechanism - the EPX can pump down from atmosphere to turbomolecular base pressure and can operate continuously at all inlet pressures.
- Ultra clean mechanism - conventional high vacuum bearings under grease use grease lubrication which can be a source of contamination in process tools. EPX pumps have no high vacuum bearings under grease and present no other source of potential contamination.
- Extremely reliable - based on field proven IPX technology, the EPX has a $MTBF_p = 13$ years (SEMI E10) with service periods of around every 5 years to maximize the life of the pump.

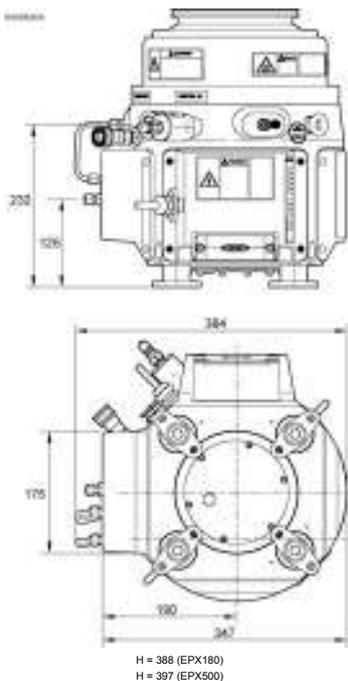
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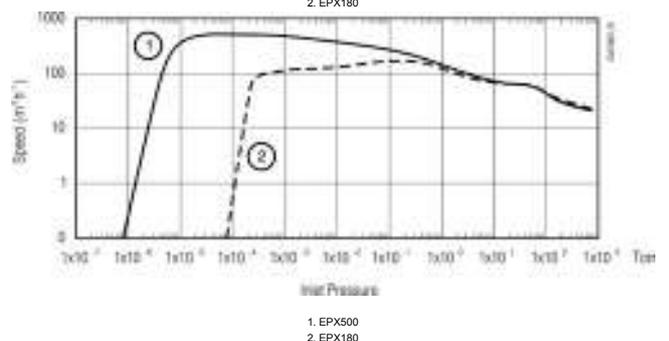
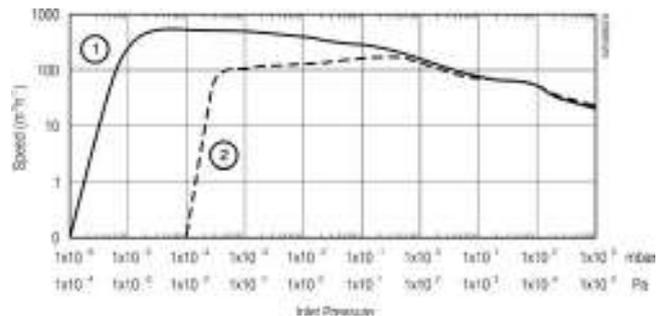
The EPX 'N' Series include a gas module that provides Nitrogen purge extending the application range to medium processes in which low levels of corrosive vapours and particulates are expected:

- Load Lock
- Transfer Chamber
- PVD sputtering
- Ashing/PR Strip

Dimensions



Performance Curves



Technical Data

Peak speed	170 m ³ h ⁻¹ 105 ft ³ min ⁻¹ 2835 lmin ⁻¹
Ultimate vacuum	<1 x 10 ⁻⁴ mbar <7.5 x 10 ⁻⁵ Torr <1 x 10 ⁻² Pa
Warm-up time (to nominal performance)	30 min
Inlet flange	ISO63
Outlet flange	NW25
Noise	<59 dB(A)
Water connectors	3/8 in Quick
Minimum cooling water flow rate	2 lmin ⁻¹
Cooling water temperature	15 – 35 °C
Nitrogen supply interface	1/4 in (6.5 mm) tube
Nitrogen supply pressure	3 x 10 ⁵ – 7 x 10 ⁵ pa
Minimum nitrogen purity	99.95%
Electrical Supply	200/208 V, 50/60 Hz 3 phase
Power at ultimate	1.4 kW
Rated motor power	3.0 kW
TIM	C3
Weight	43.5 kg

Ordering Information

Product Description	Order No.
EPX180N Dry pump 208V C3 TIM 3/8 water connector	A41942112
EPX180N Dry pump 208V SPI TIM 3/8 water connector	A41942212
EPX180N Dry pump 208V SPI TIM 1/4 water connector	A41942222
EPX180N Dry pump 208V E73 TIM 3/8 water connector	A41942312
EPX180N Dry pump 208V TEL TIM 3/8 water connector	A41942412
EPX180N Dry pump 400V TEL TIM 3/8 water connectors	A41942414
EPX180N Dry pump 208V MCM TIM 3/8 water connector	A41942712
EPX180N Dry pump 400V MCM TIM 3/8 water connectors	A41942714
EPX180N Dry pump 400V, 3/8 water connector	A41942014

EPX180NE Dry pump



The new compact EPX180 high vacuum drypump offers enhanced performance with reduced cost of ownership. Using a unique patent protected mechanism the EPX180 is capable of pumping from atmosphere to ultimate pressures of $<7 \times 10^{-5}$ Torr.

The EPX NE series of pumps has an End User Controller (EUC). The End User Controller enables local control for stand-alone use as well as the ability to connect to a fab-wide network for remote control and monitoring.

Features & Benefits

- Compact footprint - as one of the smallest on-tool pumps available, the EPX offers outstanding savings in footprint. EPX can be mounted directly onto the tool saving foreline and installations costs or remotely if preferred.
- Low cost of ownership - EPX requires only 1.4 kW of power and incorporating idle mode to maximize power efficiency.
- Unique patent protected pumping mechanism - the EPX can pump down from atmosphere to turbomolecular base pressure and can operate continuously at all inlet pressures.
- Ultra clean mechanism - conventional high vacuum bearings under grease use grease lubrication which can be a source of contamination in process tools. EPX pumps have no high vacuum bearings under grease and present no other source of potential contamination.
- Extremely reliable - based on field proven IPX technology, the EPX has a $MTBF_p = 13$ years (SEMI E10) with service periods of around every 5 years to maximize the life of the pump.

Applications

- The EPX series covers a broad range of applications from wafer handling through to medium duty processes.

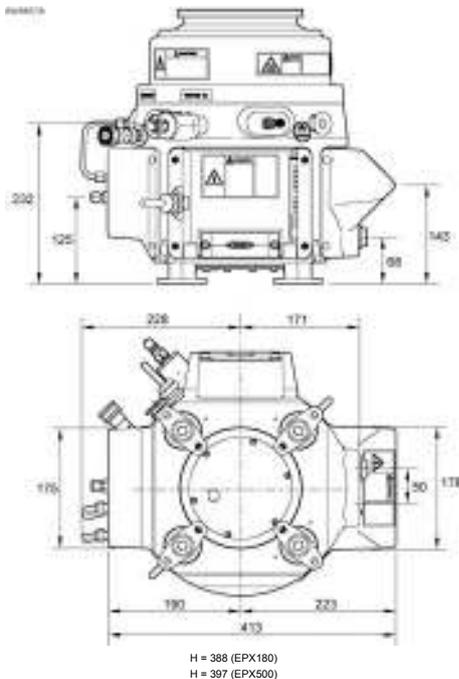
The EPX 'N' Series include a gas module that provides Nitrogen purge extending the application range to medium processes in which low levels of corrosive vapours and particulates are expected:

- Load Lock
- Transfer Chamber
- PVD sputtering
- Ashing/PR Strip

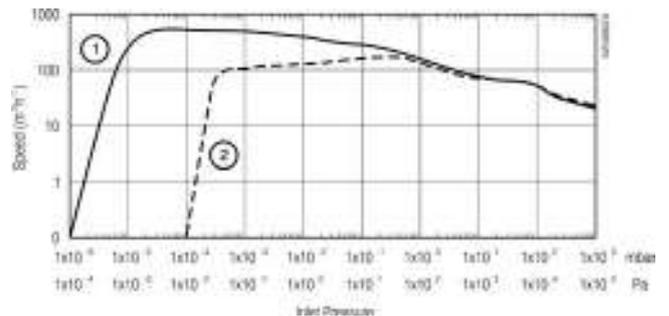
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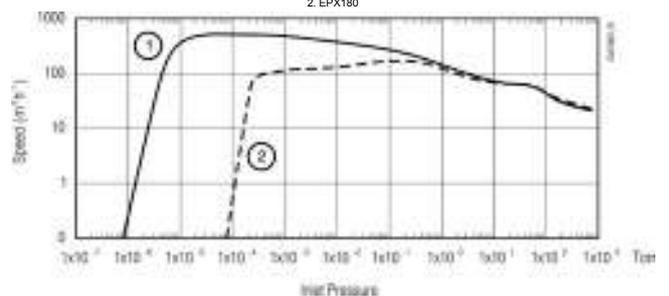
Dimensions



Performance Curves



1. EPX500
2. EPX180



1. EPX500
2. EPX180

Technical Data

Peak speed	170 m ³ h ⁻¹ 105 ft ³ min ⁻¹ 2835 lmin ⁻¹
Ultimate vacuum	<1 x 10 ⁻⁴ mbar <7.5 x 10 ⁻⁵ Torr <1 x 10 ⁻² Pa
Warm-up time (to nominal performance)	30 min
Inlet flange	ISO63
Outlet flange	NW25
Noise	<59 dB(A)
Minimum cooling water flow rate	2 lmin ⁻¹
Cooling water temperature	15 – 35 °C
Nitrogen supply interface	1/4 in (6.5 mm) tube
Nitrogen supply pressure	3 x 10 ⁵ – 7 x 10 ⁵ pa
Minimum nitrogen purity	99.95%
Electrical Supply	400 V, 50/60 Hz 3 phase
Power at ultimate	1.4 kW
Rated motor power	3.0 kW
TIM	None
Weight	43.5 kg

Ordering Information

Product Description	Order No.
EPX180NE Dry pump 208V SPI TIM 3/8 water connector	A41944212
EPX180NE Dry pump 400V SPI TIM 1/4 water connectors	A41944224
EPX180NE Dry pump 208V TEL TIM 3/8 water connector	A41944412
EPX180NE Dry pump 400V TEL TIM 3/8 water connectors	A41944414
EPX180NE Dry pump 400V TEL TIM 1/4 water connectors	A41944424
EPX180NE Dry pump 208V LAM TIM 3/8 water connector	A41944512
EPX180NE Dry pump 400V LAM TIM 3/8 water connectors	A41944514
EPX180NE Dry pump 208V MCM TIM 3/8 water connector	A41944712
EPX180NE Dry pump 400V MCM TIM 3/8 water connectors	A41944714
EPX180NE Dry pump 400V MCM TIM 1/4 water connectors	A41944724
EPX180NE Dry pump 208V No TIM 3/8 water connector	A41944012
EPX180NE Dry pump 400V No TIM 3/8 water connector	A41944014

EPX500L Dry Pump



The new compact EPX500 high vacuum drypump offers enhanced performance with reduced cost of ownership. Using a unique patent protected mechanism the EPX500 is capable of pumping from atmosphere to ultimate pressures of $<7 \times 10^{-5}$ Torr.

Based on the successful award winning IPX range, the modular EPX500 offers outstanding performance in a package that is 20% lighter, 30% smaller and requires 40% less power than the IPX.

Features & Benefits

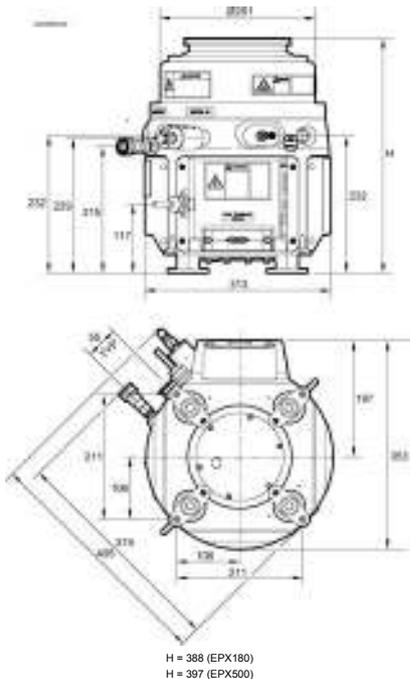
- Compact footprint - as one of the smallest on-tool pumps available, the EPX offers outstanding savings in footprint. EPX can be mounted directly onto the tool saving foreline and installations costs or remotely if preferred.
- Low cost of ownership - EPX requires only 1.4 kW of power and incorporating idle mode to maximize power efficiency.
- Unique patent protected pumping mechanism - the EPX can pump down from atmosphere to turbomolecular base pressure and can operate continuously at all inlet pressures.
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Applications

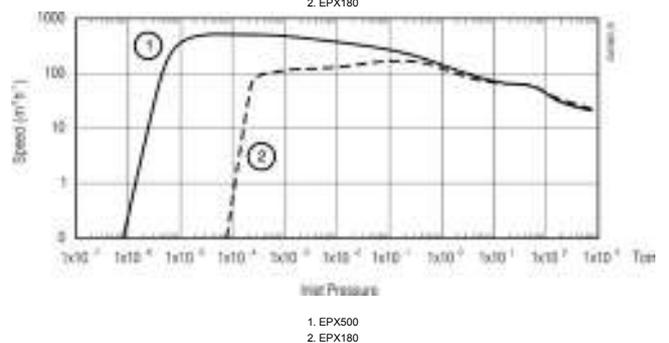
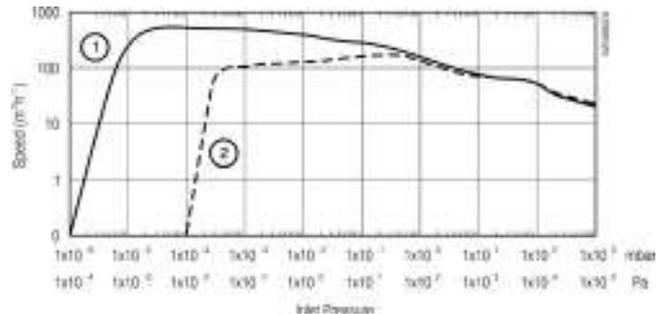
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Dimensions



Performance Curves



Technical Data

Peak speed	500 m ³ h ⁻¹ 295 ft ³ min ⁻¹ 8338 lmin ⁻¹
Ultimate vacuum	<1 x 10 ⁻⁶ mbar <7.5 x 10 ⁻⁷ Torr <1 x 10 ⁻⁴ Pa
Warm-up time (to nominal performance)	30 min
Inlet flange	ISO160
Outlet flange	NW25
Noise	<59 dB(A)
Minimum cooling water flow rate	2 lmin ⁻¹
Cooling water temperature	15 – 35 °C
Electrical Supply	200/208 V, 50/60 Hz 3 phase
Power at ultimate	1.4 kW
Rated motor power	3.0 kW
TIM	C3
Weight	45.2 kg

Ordering Information

Product Description	Order No.
EPX500L Dry Pump 208V SPI TIM 3/8 water connector	A41951212
EPX500L Dry Pump 400V SPI TIM 3/8 water connectors	A41951214
EPX500L Dry Pump 208V SPI TIM 1/4 water connector	A41951222
EPX500L Dry Pump 400V E73 TIM 3/8 water connectors	A41951314
EPX500L Dry pump 400V LAM TIM 3/8 water connectors	A41951514
EPX500L Dry Pump 400V MCM TIM No water connectors	A41951704
EPX500L Dry pump 208V MCM TIM 3/8 water connector	A41951712
EPX500L Dry pump 400V MCM TIM 3/8 water connectors	A41951714
EPX500L Dry Pump 208V C3 TIM 3/8 water connector	A41951112
EPX500L Dry Pump 200V	A41951002
EPX500L Dry Pump 400V	A41951004
EPX500L Dry Pump 400V SPI TIM 3/8 water connectors	A41951014

EPX500LE Dry pump



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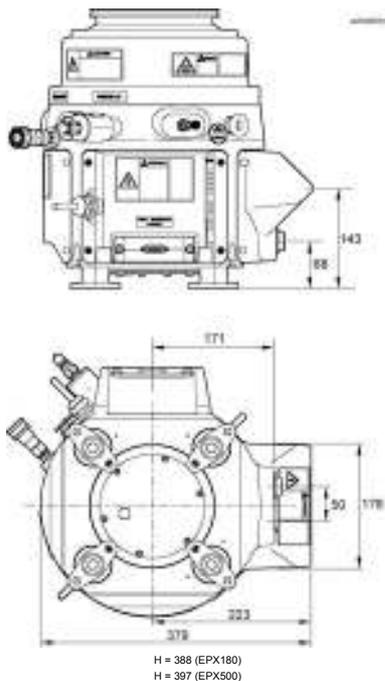
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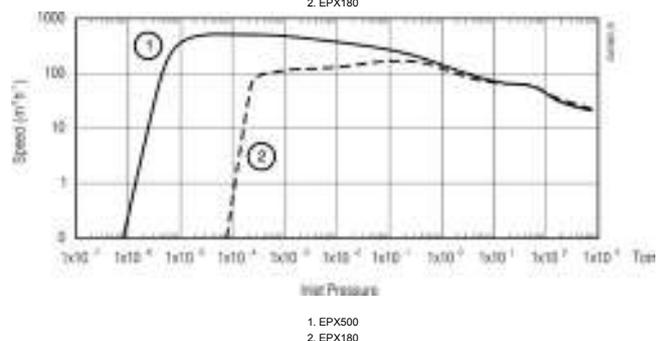
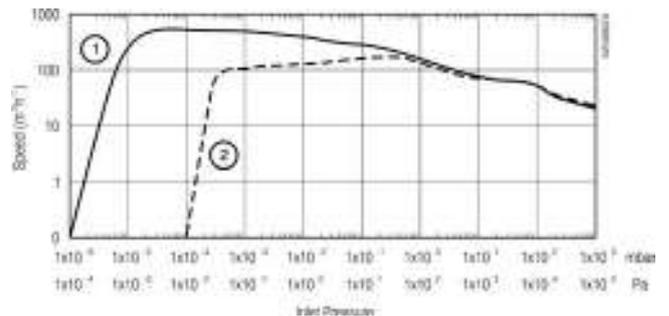
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Ultimate vacuum	<1 x 10 ⁻⁶ mbar <7.5 x 10 ⁻⁷ Torr <1 x 10 ⁻⁴ Pa
Warm-up time (to nominal performance)	30 min
Inlet flange	ISO160
Outlet flange	NW25
Noise	<59 dB(A)
Minimum cooling water flow rate	2 l min ⁻¹
Cooling water temperature	15 – 35 °C
Electrical Supply	200/208 V, 50/60 Hz 3 phase
Power at ultimate	1.4 kW
Rated motor power	3.0 kW
TIM	None
Weight	45.2 kg

Ordering Information

Product Description	Order No.
EPX500LE Dry pump 208V No TIM 3/8 water connector	A41953012
EPX500LE Dry pump 400V No TIM 3/8 water connectors	A41953014
EPX500LE Dry pump 208V E73 TIM 3/8 water connector	A41953312
EPX500LE Dry pump 208V TEL TIM 3/8 water connector	A41953412
EPX500LE Dry pump 208V MCM TIM 3/8 water connector	A41953712

EPX500N Dry Pump



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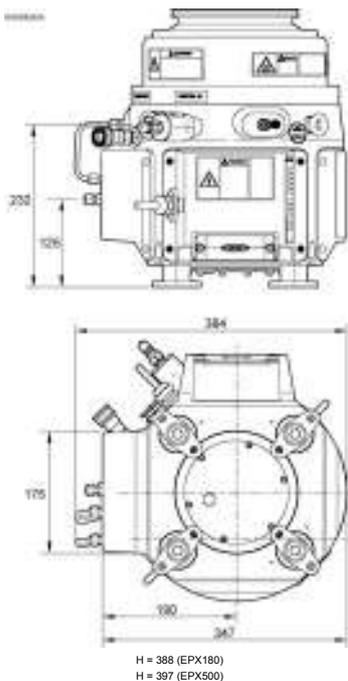
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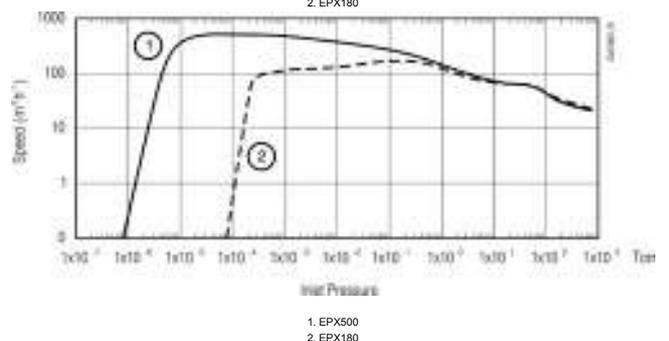
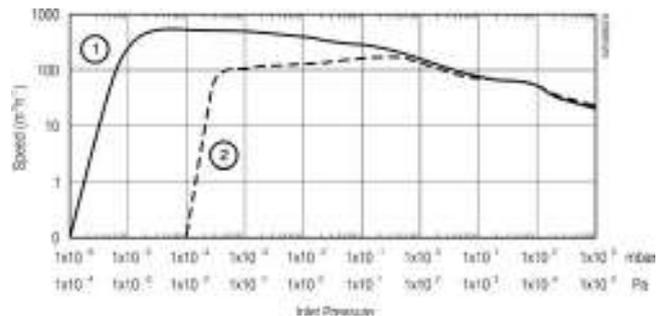
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- Load Lock
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- Ashing/PR Strip

Dimensions



Performance Curves



Technical Data

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Warm-up time (to nominal performance)	30 min
Inlet flange	ISO160
Outlet flange	NW25
Noise	<59 dB(A)
Minimum cooling water flow rate	2 lmin ⁻¹
Cooling water temperature	15 – 35 °C
Nitrogen supply interface	1/4 in (6.5 mm) tube
Nitrogen supply pressure	3 x 10 ⁵ – 7 x 10 ⁵ Pa
Minimum nitrogen purity	99.95%
Electrical Supply	200/208 V, 50/60 Hz 3 phase
Power at ultimate	1.4 kW
Rated motor power	3.0 kW
TIM	C3
Weight	45.2 kg

Ordering Information

Product Description	Order No.
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EPX500N Dry pump 208V SPI TIM 3/8 water connector	A41952212
EPX500N Dry pump 208V SPI TIM 1/4 water connector	A41952222
EPX500N Dry pump 400V TEL TIM 3/8 water connectors	A41952414
EPX500N Dry pump 208V TEL TIM 1/4 water connector	A41952422
EPX500N Dry pump 208V MCM TIM 3/8 water connector	A41952712
EPX500N Dry pump 400V, 3/8 water connector	A41952014

EPX500NE Dry pump



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- Low cost of ownership - EPX requires only 1.4 kW of power and incorporating idle mode to maximize power efficiency.
- Unique patent protected pumping mechanism - the EPX can pump down from atmosphere to turbomolecular base pressure and can operate continuously at all inlet pressures.
- Ultra clean mechanism - conventional high vacuum bearings under grease use grease lubrication which can be a source of contamination in process tools. EPX pumps have no high vacuum bearings under grease and present no other source of potential contamination.
- Extremely reliable - based on field proven IPX technology, the EPX has a $MTBF_p = 13$ years (SEMI E10) with service periods of around every 5 years to maximize the life of the pump.

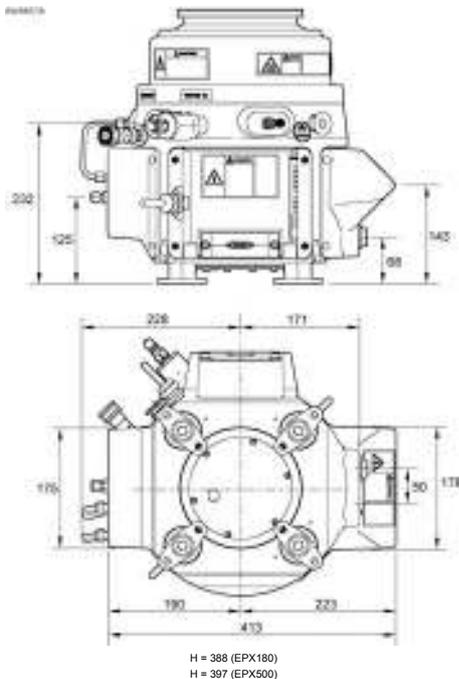
Applications

- The EPX series covers a broad range of applications from wafer handling through to medium duty processes.

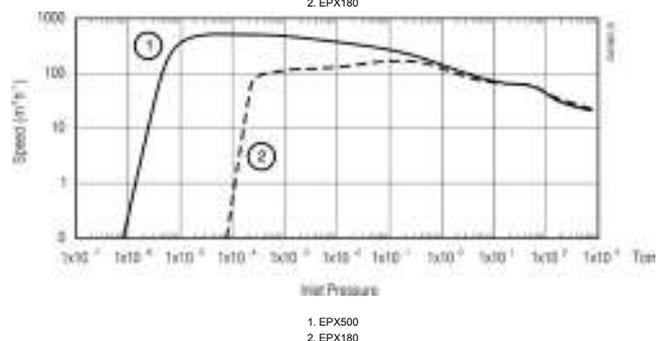
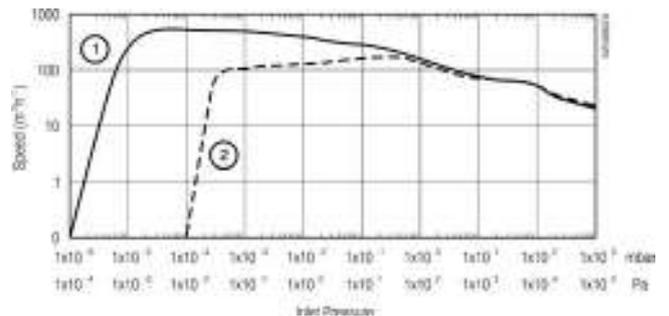
The EPX 'N' Series include a gas module that provides Nitrogen purge extending the application range to medium processes in which low levels of corrosive vapours and particulates are expected:

- Load Lock
- Transfer Chamber
- PVD sputtering
- Ashing/PR Strip

Dimensions



Performance Curves



Technical Data

Peak speed	500 m ³ h ⁻¹ 295 ft ³ min ⁻¹ 8338 lmin ⁻¹
Ultimate vacuum	<1 x 10 ⁻⁶ mbar <7.5 x 10 ⁻⁷ Torr <1 x 10 ⁻⁴ Pa
Warm-up time (to nominal performance)	30 min
Inlet flange	ISO160
Outlet flange	NW25
Noise	<59 dB(A)
Minimum cooling water flow rate	2 lmin ⁻¹
Cooling water temperature	15 – 35 °C
Nitrogen supply interface	1/4 in (6.5 mm) tube
Nitrogen supply pressure	3 x 10 ⁻⁵ – 7 x 10 ⁻⁵ Pa
Minimum nitrogen purity	99.95%
Electrical Supply	200/208 V, 50/60 Hz 3 phase
Power at ultimate	1.4 kW
Rated motor power	3.0 kW
TIM	None
Weight	45.2 kg

Ordering Information

Product Description	Order No.
EPX500NE 208V No TIM 3/8 water connector	A41954012
EPX500NE 400V No TIM 3/8 water connector	A41954014
EPX500NE 208V No TIM 1/4 water connector	A41954022
EPX500NE 208V SPI TIM 3/8 water connector	A41954212
EPX500NE 400V SPI TIM 1/4 water connectors	A41954224
EPX500NE 208V TEL TIM 3/8 water connector	A41954412
EPX500NE 400V TEL TIM 3/8 water connectors	A41954414
EPX500NE 400V TEL TIM 1/4 water connectors	A41954424
EPX500NE 208V LAM TIM 3/8 water connector	A41954512
EPX500NE 208V MCM TIM 3/8 water connector	A41954712
EPX500NE 400V MCM TIM 3/8 water connectors	A41954714