NEXTorr[®] D 100-5



HIGHLIGHTS

General Features

- High pumping speed for all active gases
- Pumping speed for noble gases and methane
- Constant pumping speed for active gases in UHV-XHV
- No intrinsic pressure limitations
- Minimal power requirement during operations
- Extremely compact and light pump
- Reduced magnetic interference
- Able to measure pressure lower than 10⁻⁹ mbar

Applications

- Improvement of the ultimate vacuum in UHV-XHV systems
- Reduction of the footprint and weight of vacuum systems
- Scanning /transmission electron microscopes
- Surface science equipments
- Portable analysers vacuum instrumentations
- General purpose UHV systems
- Particle accelerators, synchrotron radiation sources and related equipments



The NEXTorr[®] D 100-5 is an extremely compact pump able to sorb gases very effectively and with large capacity down to the XHV level.

The getter cartridge is made of porous sintered getter disks (St 172) stacked in a highly efficient gas trapping structure featuring pumping speed in excess of 100 l/s (H₂). The cartridge is integrated into a CF 35 flange containing a heating element for the getter activation. After the activation is carried out ($500^{\circ}C \times 1 h$), the pump removes gases at room temperature without any need for electric power to operate. On the other side of the same flange, a diode ion pump featuring 6 l/s (Ar) is connected. Gas flows from the vacuum system to the ion pump through an optimized conductance. The optimized conductance and the special internal design of the ion pump allow the maximum exploitation of the ion pump sorption performance.



Total pump weight (magnets included)	2.2 kg
Total pump volume	0.5 litre
Type of ion pump	Diode
Operation Voltage Ion Element	5.0 kVdc
Operation Voltage NEG Element	9.0 Vdc



Initial pumping speed (I/s)	Gas	NEG activated	NEG saturated
	0 ₂	100	4
	H ₂	100	6
	СО	70	5
	N ₂	40	4
	CH ₄	15	5
	Argon ¹	6 (0.3)	6 (0.3)
Sorption capacity (Torr·l)	Gas	Single run capacity ²	Total capacity ³
	0 ₂	5	>500
	H ₂	135	N/A ⁴
	СО	0.6	>120
	N ₂	0.3	>25
	CH4	30	50,000 hours at 10 ⁻⁶ Torr
NEG section	Getter a	lloy type	St 172
	Alloy cor	nposition	ZrVFe
	Getter	mass (g)	13.5 g
	Getter surface (cm ²)		114
ION section	Voltage applied		DC+5kV
	Number of I	Penning cells	4
	Standard bake-o	out temperature	150 °C

2 Capacity values with the NEG element at room temperature, corresponding to a drop of the pumping speed to 10% of its initial value. A drop to 50% has been considered in the case of CH₄.

3 Total capacity values for each single gas obtained after many reactivations (getter fully consumed). Capacity values for the various gases are not additive (a getter fully reacted with one gas specie will not sorb another gas).

4 After the getter element has reached its room temperature H₂ capacity (135 Torr·I) it can be "regenerated". The regeneration process extracts the H₂ stored in the getter. After being regenerated, the pump can start pumping H₂ again.

Ordering Information

Product	Product description	Code
NEXTorr PUMP diode version	NEXTorr D 100-5	5H0169
NEXTorr PUMP noble diode version	NEXTorr D 100-5 ND	5H0183
Pump power supply	NEXTorr PS NIOPS-03	3B0408
Power supply cables	NEXTorr KIT OF CABLES-03	3B0409
Power supply input cable	NIOPS INPUT CABLE	3B0398
Output cable ION element	NIOPS03-OUTPUT CABLE ION-3MT	3B0410
Output cable NEG element	NIOPS03-OUTPUT CABLE NEG-3MT	3B0411

The NEXTorr® product line incorporates and exploits the patented concept of a combined pumping system comprising a getter pump and an ion pump, and have global Intellectual Property Rights coverage with patents already granted in the US (8,287,247), Europe (2,409,034), Japan (5,372,239), China (102356236).

NEXTorr® D 100-5

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NEXTorr[®] D 200-5



HIGHLIGHTS

General Features

- High pumping speed for all active gases
- Pumping speed for noble gases and methane
- Constant pumping speed for active gases in UHV-XHV
- No intrinsic pressure limitations
- Minimal power requirement during operations
- Extremely compact and light pump
- Reduced magnetic interference
- Able to measure pressure lower than 10⁻⁹ mbar

Applications

- Improvement of the ultimate vacuum in UHV-XHV systems
- Reduction of the footprint and weight of vacuum systems
- Scanning /transmission electron microscopes
- Surface science equipments
- Portable analysers vacuum instrumentations
- General purpose UHV systems
- Particle accelerators, synchrotron radiation sources and related equipments



The NEXTorr[®] D 200-5 is an extremely compact pump able to sorb gases very effectively and with large capacity down to the XHV level.

The getter cartridge is made of porous sintered getter disks (St 172) stacked in a highly efficient gas trapping structure featuring pumping speed in excess of 200 l/s (H₂). The cartridge is integrated into a CF 35 flange containing a heating element for the getter activation. After the activation is carried out (500 °C x 1 h), the pump removes gases at room temperature without any need for electric power to operate. On the other side of the same flange, a diode ion pump featuring 6 l/s (Ar) is connected. Gas flows from the vacuum system to the ion pump through an optimized conductance. The optimized conductance and the special internal design of the ion pump allow the maximum exploitation of the ion pump sorption performance.



Total pump weight (magnets included)	2.2 kg
Total pump volume	0.5 litre
Type of ion pump	Diode
Operation Voltage Ion Element	5.0 kVdc
Operation Voltage NEG Element	12 Vdc



Initial pumping speed (I/s)	Gas	NEG activated	NEG saturated
	0 ₂	200	4
	H ₂	200	6
	СО	140	5
	N ₂	80	4
	CH ₄	13	5
	Argon ¹	6 (0.3)	6 (0.3)
Sorption capacity (Torr·l)	Gas	Single run capacity ²	Total capacity ³
	0 ₂	9	>1000
	H ₂	280	N/A ⁴
	СО	0.8	>240
	N ₂	0.3	>50
	CH ₄	55	50,000 hours at 10 ⁻⁶ Torr
NEG section	Getter a	lloy type	St 172
	Alloy composition		ZrVFe
	Getter mass (g)		28 g
	Getter sur	face (cm ²)	238
ION section	Voltage	applied	DC+5kV
	Number of F	Penning cells	4
	Standard bake-o	out temperature	150 °C

Capacity values with the NEG element at room temperature, corresponding to a drop of the pumping speed to 10% of its initial 2 value. A drop to 50% has been considered in the case of CH₄.

Total capacity values for each single gas obtained after many reactivations (getter fully consumed). Capacity values for the various 3 gases are not additive (a getter fully reacted with one gas specie will not sorb another gas).

4 After the getter element has reached its room temperature H_2 capacity (280 Torr-I) it can be "regenerated". The regeneration process extracts the H_2 stored in the getter. After being regenerated, the pump can start pumping H_2 again.

Ordering Information

Product description	Code
NEXTorr D 200-5	5H0170
NEXTorr D 200-5 ND	5H0184
NEXTorr PS NIOPS-03	3B0408
NEXTorr KIT OF CABLES-03	3B0409
NIOPS INPUT CABLE	3B0398
NIOPS03-OUTPUT CABLE ION-3MT	3B0410
NIOPS03-OUTPUT CABLE NEG-3MT	3B0411
	Product description NEXTorr D 200-5 NEXTorr D 200-5 ND NEXTorr PS NIOPS-03 NEXTorr KIT OF CABLES-03 NIOPS INPUT CABLE NIOPS03-OUTPUT CABLE ION-3MT NIOPS03-OUTPUT CABLE NEG-3MT

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NEXTorr[®] D 300-5



HIGHLIGHTS

General Features

- High pumping speed for all active gases
- Pumping speed for noble gases and methane
- Constant pumping speed for active gases in UHV-XHV
- No intrinsic pressure limitations
- Minimal power requirement during operations
- Extremely compact and light pump
- Reduced magnetic interference
- Able to measure pressure lower than 10⁻⁹ mbar

Applications

- Improvement of the ultimate vacuum in UHV-XHV systems
- Reduction of the footprint and weight of vacuum systems
- Scanning /transmission electron microscopes
- Surface science equipments
- Portable analysers vacuum instrumentations
- General purpose UHV systems
- Particle accelerators, synchrotron radiation sources and related equipments



The NEXTorr[®] D 300-5 is an extremely compact pump able to sorb gases very effectively and with large capacity down to the XHV level.

The getter cartridge is made of porous sintered getter disks (St 172) stacked in a highly efficient gas trapping structure featuring pumping speed in excess of 300 l/s (H₂). The cartridge is integrated into a CF 63 flange containing a heating element for the getter activation. After the activation is carried out (500 °C x 1 h), the pump removes gases at room temperature without any need for electric power to operate. On the other side of the same flange, a diode ion pump featuring 6 l/s (Ar) is connected. Gas flows from the vacuum system to the ion pump through an optimized conductance. The optimized conductance and the special internal design of the ion pump allow the maximum exploitation of the ion pump sorption performance.



Total pump weight (magnets included)	3.1 kg
Total pump volume	0.6 litre
Type of ion pump	Diode
Operation Voltage Ion Element	5.0 kVdc
Operation Voltage NEG Element	20 Vdc



Initial pumping speed (I/s)	Gas	NEG activated	NEG saturated
	02	300	4
	H ₂	300	6
	CO	200	5
	N ₂	100	4
	CH ₄	13	5
	Argon	6 (0.3)	6 (0.3)
Sorption capacity (Torr·l)	Gas	Single run capacity	Total capacity
	02	13	>1500
	H ₂	410	N/A
	CO	1.1	>360
	N ₂	0.6	>75
	CH ₄	82	50,000 hours at 10 ⁻⁶ Torr
NEG section	Getter a	lloy type	St 172
	Alloy cor	nposition	ZrVFe
	Getter mass (g)		41 g
	Getter surface (cm ²)		342
ION section	Voltage	applied	DC+5kV
	Number of F	Penning cells	4
	Standard bake-o	out temperature	150 °C

2 Capacity values with the NEG element at room temperature, corresponding to a drop of the pumping speed to 10% of its initial value. A drop to 50% has been considered in the case of CH₄.

3 Total capacity values for each single gas obtained after many reactivations (getter fully consumed). Capacity values for the various gases are not additive (a getter fully reacted with one gas specie will not sorb another gas).

4 After the getter element has reached its room temperature H₂ capacity (410 Torr-I) it can be "regenerated". The regeneration process extracts the H₂ stored in the getter. After being regenerated, the pump can start pumping H₂ again.

Ordering Information

Product	Product description	Code
NEXTorr PUMP	NEXTorr D 300-5	5H0171
NEXTorr PUMP noble diode version	NEXTorr D 300-5 ND	5H0191
Pump power supply	NEXTorr PS NIOPS-04	3B0415
Power supply cables	NEXTorr KIT OF CABLES-04-06	3B0416
Power supply input cable	NIOPS INPUT CABLE	3B0398
Output cable ION element	NIOPS04-06 - OUTPUT CABLE ION - 3 MT	3B0418
Output cable NEG element	NIOPS04-06 - OUTPUT CABLE NEG - 3 MT	3B0419

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NEXTorr[®] D 500-5



HIGHLIGHTS

General Features

- High pumping speed for all active gases
- Pumping speed for noble gases and methane
- Constant pumping speed for active gases in UHV-XHV
- No intrinsic pressure limitations
- Minimal power requirement during operations
- Extremely compact and light pump
- Reduced magnetic interference
- Able to measure pressure lower than 10⁻⁹ mbar

Applications

- Improvement of the ultimate vacuum in UHV-XHV systems
- Reduction of the footprint and weight of vacuum systems
- Scanning /transmission electron microscopes
- Surface science equipments
- Portable analysers vacuum instrumentations
- General purpose UHV systems
- Particle accelerators, synchrotron radiation sources and related equipments



The NEXTorr[®] D 500-5 is an extremely compact pump able to sorb gases very effectively and with large capacity down to the XHV level.

The getter cartridge is made of porous sintered getter disks (St 172) stacked in a highly efficient gas trapping structure featuring pumping speed in excess of 500 l/s (H₂). The cartridge is integrated into a CF 63 flange containing a heating element for the getter activation. After the activation is carried out (500°C x 1 h), the pump removes gases at room temperature without any need for electric power to operate. On the other side of the same flange, a diode ion pump featuring 6 l/s (Ar) is connected. Gas flows from the vacuum system to the ion pump through an optimized conductance. The optimized conductance and the special internal design of the ion pump allow the maximum exploitation of the ion pump sorption performance.



Total pump weight (magnets included)	3.1 kg
Total pump volume	0.7 litre
Type of ion pump	Diode
Operation Voltage Ion Element	5.0 kVdc
Operation Voltage NEG Element	24 Vdc



Initial pumping speed (I/s)	Gas	NEG activated	NEG saturated
	0 ₂	500	4
	H ₂	500	6
	CO	340	5
	N ₂	200	4
	CH ₄	13	5
	Argon ¹	6 (0.3)	6 (0.3)
Sorption capacity (Torr·l)	Gas	Single run capacity ²	Total capacity ³
	0 ₂	17	>2500
	H ₂	680	N/A ⁴
	СО	1.4	>600
	N ₂	0.8	>125
	CH ₄	137	50,000 hours at 10 ⁻⁶ Torr
NEG section	Getter a	lloy type	St 172
	Alloy con	nposition	ZrVFe
	Getter i	mass (g)	68 g
	Getter sur	face (cm ²)	570
ION section	Voltage	applied	DC+5kV
	Number of F	Penning cells	4
	Standard bake-o	out temperature	150 °C

2 Capacity values with the NEG element at room temperature, corresponding to a drop of the pumping speed to 10% of its initial value. A drop to 50% has been considered in the case of CH₄.

3 Total capacity values for each single gas obtained after many reactivations (getter fully consumed). Capacity values for the various gases are not additive (a getter fully reacted with one gas specie will not sorb another gas).

4 After the getter element has reached its room temperature H₂ capacity (680 Torr-I) it can be "regenerated". The regeneration process extracts the H₂ stored in the getter. After being regenerated, the pump can start pumping H₂ again.

Ordering Information

Product	Product description	Code
NEXTorr PUMP	NEXTorr D 500-5	5H0172
NEXTorr PUMP diode version	NEXTorr D 500-5 ND	5H0192
Pump power supply	NEXTorr PS NIOPS-04	3B0415
Power supply cables	NEXTorr KIT OF CABLES-04-06	3B0416
Power supply input cable	NIOPS INPUT CABLE	3B0398
Output cable ION element	NIOPS04-06 - OUTPUT CABLE ION - 3 MT	3B0418
Output cable NEG element	NIOPS04-06 - OUTPUT CABLE NEG - 3 MT	3B0419

The NEXTorr® product line incorporates and exploits the patented concept of a combined pumping system comprising a getter pump and an ion pump, and have global Intellectual Property Rights coverage with patents already granted in the US (8,287,247), Europe (2,409,034), Japan (5,372,239), China (102356236).

D 500-5

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NEXTorr[®] D 1000-10



HIGHLIGHTS

General Features

- High pumping speed for all active gases
- Pumping speed for noble gases and methane
- Constant pumping speed for active gases in UHV-XHV
- No intrinsic pressure limitations
- Minimal power requirement during operations
- Extremely compact and light pump
- Reduced magnetic interference
- Able to measure pressure lower than 10⁻⁹ mbar

Applications

- Improvement of the ultimate vacuum in UHV-XHV systems
- Reduction of the footprint and weight of vacuum systems
- Scanning /transmission electron microscopes
- Surface science equipments
- Portable analysers vacuum instrumentations
- General purpose UHV systems
- Particle accelerators, synchrotron radiation sources and related equipments

Saes group The NEXTorr[®] D 1000-10 is an extremely compact pump which integrates sputter ion pump (SIP) and NEG pump technologies with larger pumping speed and capacity to sorb gases very effectively down to the XHV level. The getter cartridge is made of porous sintered getter disks stacked in a highly efficient gas trapping structure featuring pumping speed in excess of 1000 l/s (H₂). The cartridge is integrated into a CF 100 flange containing heating elements for the getter activation. After the activation is carried out (500°C x 1 h), the NEG cartridge removes gases at room temperature without any need for electric power. On the other side of the same flange, an ion pump featuring 10 l/s for Ar and 30 l/s for CH₄ is connected. Gas flows from the vacuum system to the ion pump through an optimized conductance. The optimized conductance and the special internal design of the ion pump allow the maximum exploitation of the ion pump sorption performance. The NEXTorr D1000-10 is very suitable for particle accelerator and synchrotron applications where larger pumping speed and capacity in a very compact pump package are required to keep UHV conditions or below. It is very suitable also for analytical equipment like surface science systems (XPS, UPS, STM, and so on), MBE and vacuum deposition systems.



Total pump weight (magnets included)	6.5 kg
Total pump volume	1.7 litre
Type of ion pump	Noble Diode
Operation Voltage Ion Element	5.0 kVdc
Operation Voltage NEG Element	50 Vdc



NEXTorr[®] D 1000-10

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speed (I/s)	Gas	NEG activated	NEG saturated
	02	850	9
	H ₂	1000	13
	CO	580	11
	N ₂	320	9
	CH ₄	32	17
	Argon ¹	10 (2.5)	10 (2.5)
Sorption capacity (Torr·l)	Gas	Single run capacity ²	Total capacity ³
	0 ₂	150	>5000
	H ₂	1125	N/A ⁴
	CO	4.3	>800
	N ₂	1.4	>110
NEG section	Getter alloy type		St 172
	Alloy composition		ZrVFe
	Getter mass (g)		112.5 g
	Getter surface (cm ²)		950
ION section	ION section Voltage applied		DC+5kV
	Number of Penning cells		18
	Standard bake-out temperature		150 °C

1 Measured at 3x10⁻⁶ Torr. Unsaturated pump (saturated pump).

2 Capacity values with the NEG element at room temperature, corresponding to a drop of the pumping speed to 10% of its initial value.

3 Total capacity values for each single gas obtained after many reactivations (getter fully consumed). Capacity values for the various gases are not additive (a getter fully reacted with one gas specie will not sorb another gas).

4 After the getter element has reached its room temperature H₂ capacity (1125 Torr-I) it can be "regenerated". The regeneration process extracts the H₂ stored in the getter. After being regenerated, the pump can start pumping H₂ again.

Ordering Information

Initial numbing

Product	Product description	Code
NEXTorr PUMP	NEXTorr D 1000-10	5H0180
Pump power supply	NEXTorr PS NIOPS-06	3B0440
Power supply cables	NEXTorr KIT OF CABLES-04-06	3B0416
Power supply input cable	NIOPS INPUT CABLE	3B0398
Output cable ION element	NIOPS04-06-OUTPUT CABLE ION-3MT	3B0418
Output cable NEG element	NIOPS04-06-OUTPUT CABLE NEG-3MT	3B0419

The NEXTorr® product line incorporates and exploits the patented concept of a combined pumping system comprising a getter pump and an ion pump, and have global Intellectual Property Rights coverage with patents already granted in the US (8,287,247), Europe (2,409,034), Japan (5,372,239), China (102356236).

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NEXTorr® D 2000-10



HIGHLIGHTS

General Features

- High pumping speed for all active gases
- Pumping speed for noble gases and methane
- Constant pumping speed for active gases in UHV-XHV
- No intrinsic pressure limitations
- Minimal power requirement during operations
- Extremely compact and light pump
- Reduced magnetic interference
- Able to measure pressure lower than 10⁻⁹ mbar

Applications

- Improvement of the ultimate vacuum in UHV-XHV systems
- Reduction of the footprint and weight of vacuum systems
- Scanning /transmission electron microscopes
- Surface science equipments
- Portable analysers vacuum instrumentations
- General purpose UHV systems
- Particle accelerators, synchrotron radiation sources and related equipments



The NEXTorr[®] D 2000-10 is an extremely compact pump which integrates sputter ion pump (SIP) and NEG pump technologies with larger pumping speed and capacity to sorb gases very effectively down to the XHV level. The getter cartridge is made of porous sintered getter disks stacked in a highly efficient gas trapping structure featuring pumping speed in excess of 2000 l/s (H₂). The cartridge is integrated into a CF 100 flange containing heating elements for the getter activation. After the activation is carried out (500°C x 1 h), the NEG cartridge removes gases at room temperature without any need for electric power. On the other side of the same flange, an ion pump featuring 10 l/s for Ar and 30 l/s for CH₄ is connected. Gas flows from the vacuum system to the ion pump through an optimized conductance. The optimized conductance and the special internal design of the ion pump allow the maximum exploitation of the ion pump sorption performance.

The NEXTorr D2000-10 is very suitable for particle accelerator and synchrotron applications where larger pumping speed and capacity in a very compact pump package are required to keep UHV conditions or below. It is very suitable also for analytical equipment like surface science systems (XPS, UPS, STM, and so on), MBE and vacuum deposition systems.



Total pump weight (magnets includ	ed) 6.8 kg
Total pump volume	1.8 litre
Type of ion pump	Noble Diode
Operation Voltage Ion Element	5.0 kVdc
Operation Voltage NEG Element	110 Vdc



Initial pumping Gas **NEG** activated **NEG** saturated speed (I/s) 1700 0, 9 2000 H₂ 13 со 1100 11 N_2 640 9 32 17 CH₄ Argon¹ 10 (2.5) 10 (2.5) Sorption Single run Gas Total capacity³ capacity (Torr·l) capacity² 0, 300 >10000 H₂ 2250 N/A⁴ со 8 >1600 N_2 2.8 >220 NEG section Getter alloy type St 172 Alloy composition ZrVFe Getter mass (g) 225 g Getter surface (cm²) 1900 ION section Voltage applied DC+5kV Number of Penning cells 18 Standard bake-out temperature 150 °C

1 Measured at 3x10⁻⁶ Torr. Unsaturated pump (saturated pump).

2 Capacity values with the NEG element at room temperature, corresponding to a drop of the pumping speed to 10% of its initial value.

3 Total capacity values for each single gas obtained after many reactivations (getter fully consumed). Capacity values for the various gases are not additive (a getter fully reacted with one gas specie will not sorb another gas).

4 After the getter element has reached its room temperature H₂ capacity (2250 Torr-I) it can be "regenerated". The regeneration process extracts the H₂ stored in the getter. After being regenerated, the pump can start pumping H₂ again.

Ordering Information

Product	Product description	Code
NEXTorr PUMP	NEXTorr D 2000-10	5H0181
Pump power supply	NEXTorr PS NIOPS-06	3B0440
Power supply cables	NEXTorr KIT OF CABLES-04-06	3B0416
Power supply input cable	NIOPS INPUT CABLE	3B0398
Output cable ION element	NIOPS04-06-OUTPUT CABLE ION-3MT	3B0418
Output cable NEG element	NIOPS04-06-OUTPUT CABLE NEG-3MT	3B0419

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D 2000-10

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