

COMPACT DRY PUMPING SYSTEMSDRYTEL SERIES



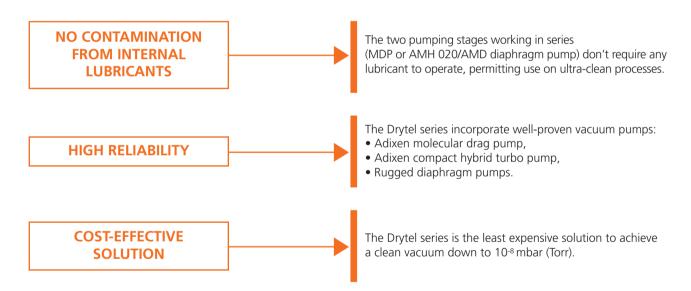
Dry pumping units

The Drytel series of products are dry pumping systems that include an Adixen molecular drag pump (MDP) or a hybrid turbo pump (AMH) and an oil-free forepump. Designed to be used on a bench top or easily integrated into a system, these units provide a dry, clean vacuum from atmosphere to 10-8 mbar (Torr).

"Open Concept": a new generation of Adixen's turbo pumping group...

Benefits

- Flexible: many versions provide the most suitable configuration
- Easy to maintain: direct access to the system component
- Compact
- Cost effective



Applications

The Drytel series is recommended for all applications where a dry, clean vacuum is required, such as in industry (semiconductor, analytical instrumentation, pharmaceutical, chemicals...) and research and development laboratories.

They can be used in various types of applications:

- Backing of turbomolecular pumps
- Loadlock pumping
- Mass spectrometry
- Surface analysis
- Ion pump evacuation
- Cryopump regeneration
- Calibration
- Gas industry
- Gas lines



Application on a calibration bench

Standard configurations: Drytel 1025

Based on the "Open Concept", this unique compact and flexible pumping system is available in several versions which can perfectly suit your needs.

According to your requirements, it may include :

- an Adixen MDP 5011 molecular drag pumps (7.5 l/s) or a compact AMH 020 hybrid turbo molecular pump (30 l/s).
- a 4 m³/h AMD4 NT dry roughing pump, with a 10,000 hour maintenance interval.



Chemical configurations: Drytel 1025 C

With the same "Open Concept", several versions are dedicated to the corrosives applications, with protection pumps devices.

According to your requirements, it may

- an Adixen MDP 5011 CP molecular drag pumps (7.5 l/s) or a compact AMH 020 C hybrid turbo molecular pump (30 l/s).
- a 4 m³/h AMD4C NT dry roughing pump, with a 10,000 hour maintenance interval.
- a purge device protect the ball bearing of the turbo molecular pump.
- an additional purge on the high pressure stage of the AMD4C NT is an option for the pumping of corrosive gases and to avoid gas condensation.



Standard configurations: Drytel 1025

The Drytel 1025 is a small, robust pumping system which provides a solution for backing turbomolecular pumps or pumping a system down to 10-8 mbar (Torr).

This flexible system is available in several versions which can perfectly suit your needs.



Primary pump: AMD 1/AMD4 NT and Turbo: MDP 5011/AMH 020



Primary pump: AMD4C NT and MDP 5011 CP/AHM 020 C

Standard versions



Drytel 1025 with MDP 5011 and AMD1



Drytel 1025 with MDP 5011 and AMD4 NT



Drytel 1025 with AMH 020 and AMD1



Drytel 1025 with AMH 020 and AMD4 NT

Chemical versions



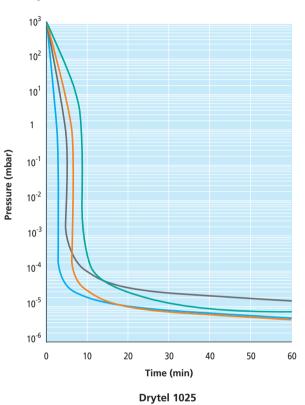
Drytel 1025C with MDP 5011 CP and AMD4C

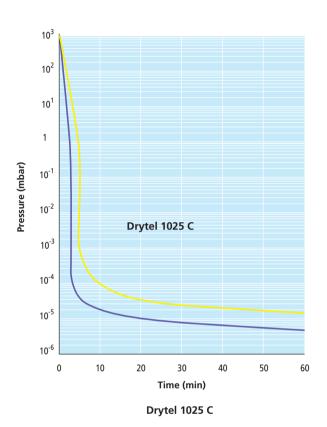


Drytel 1025C with AMH 020C and AMD4C

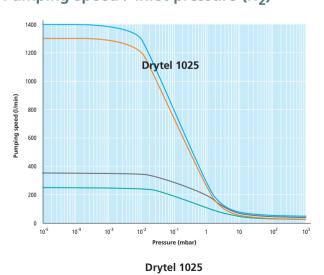
Technical data

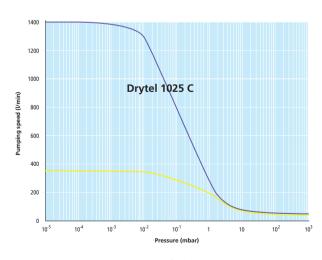
Pump down curves on a 30 l volume of N_2





Pumping speed / Inlet pressure (N₂)





Drytel 1025 C

AMH 020 and AMD1 on 30 L
 MDP 5011 and AMD1 on 30 L

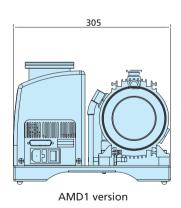
AMH 020 and AMD4 NT on 30 L
 MDP 5011 and AMD4 NT on 30 L

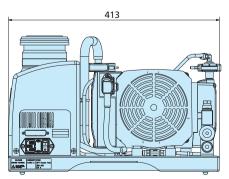
- AMH 020 C and AMD4C NT - MDP 5011 CP and AMD4C NT

Drytel 1025 - Drytel 1025 C: technical data

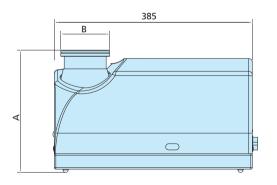
Drytel		Unités	1025 standard		1025 C			
High vacuum pump			MDP	5011	AMI	H 020	MDP 5011CP	AMH 020 C
Primary pum			AMD1	AMD4 NT	AMD1	AMD4 NT	AMD4C NT	AMD4C NT
H.P. pump. speed (60 Hz)		m³/hr	1.4	4	1.4	4		4
L.P. pump. speed	N2 He H2	/s /s /s		.5 4 3	2	80 20 4	7.5 4 3	30 20 14
Ult. pressure		mbar	1	0-6	<10)-8(*)	<10-5(**)	<10-8(**)
Start-up time		min		2		2	2	
Cooling system			A	Air	Д	Air	Air	
Maximum ambient temperature		°C	0 to	o 40	0 to	o 40	0 to 40	
Maximum power consumption		VA	< 160	< 310	< 160	< 310	<	310
Weight		kg (lb)	16 (34)	26 (56)	16 (34)	26 (56)	26	(56)
Standard flange			63 I	SO-K	63 ISO-K	or 63 CF-F	63 ISO-K	63 ISO-K or 63 CF-F
Size	L	mm	385	385	385	385	385	385
	W	mm	305	410	305	410	410	410
	Н	mm	265	265	240	240	265	240

^{*:} with CF-F 63 housing after 48 hours of baking according to Pneurop standard. **: with purge.





AMD4 NT or AMD4C NT versions



Inlet flange	Α	В
MDP 5011 : DN 63 ISO K-F	265	95
MDP 5011 CP : DN 63 ISO-KF	265	95
AMH 020 : DN 63 ISO-KF	240	95
AMH 020 C : DN 63 ISO-KF	240	95
AMH 020 : DN 63 CF-F	240	113

Drytel 1025 and 1025 C: options and accessories

It is possible to order the Drytel 1025 with several types of options. They must be incorporated at time of original order.

Options Drytel 1025



- Automatic gas ballast: improves the pumping of light gases and reduces condensation inside the Drytel.
- Exhaust connection: allows the collection of pumped gases to prevent release into the atmosphere.



• Interface board: allows the remote operation of the Drvtel (start/stop and monitoring of the pumping system status), also available on Drytel 1025 C.

Options Drytel 1025 C

Several options are possible:

• Purge connection: it can be equiped with a guick and anti such back connector or a DN16 electrical valve (24 V DC supplied by customer) normally closed.



Quick connector



DN16 Electrical valve

• An additionnal purge (100 sccm) on the high pressure stage of the AMD4C NT for pumping of corrosive gases and avoid condensation.



Purge on high pressure stage

Accessories for Drytel 1025 and 1025 C

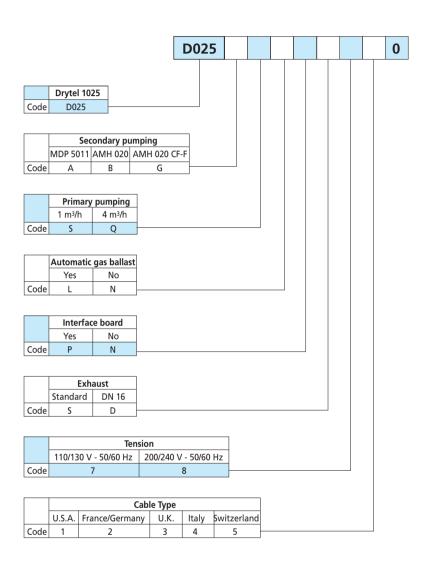
The following accessories are available for the Drytel 1025 and 1025 C. In particular, an inlet screen should be used to prevent foreign material from entering the pump.

Description			
Inlet screen (DN 63 ISO-K) - 2.5 mm mesh size	102565		
Dense mesh filter (DN 63 ISO-K) - 20 µm mesh size	102668		
Aluminium centering ring (DN 63) special for MDP 5011 (without o-Ring)	063212		



Standard and dense mesh inlet screen

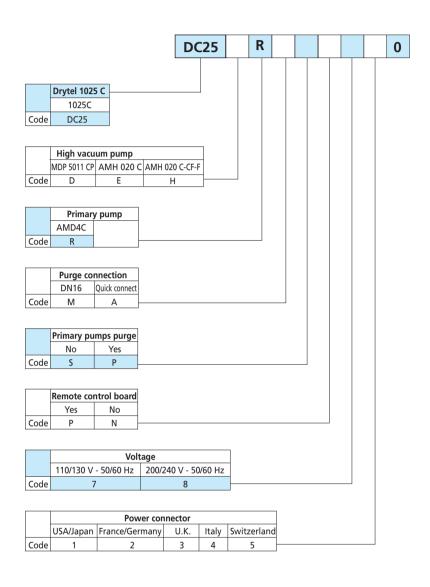
Drytel 1025: ordering information





Drytel D025
Secondary A pumping
Primary S pumping
Gas ballast L Interface board P Exhaust DN 16 D 110/130 V - 50/60 Hz U.S.A. 1

Drytel 1025 C: ordering information



For example You need ...

Drytel DC25 High vacuum D pump Primary pump DC25 Р Ρ Purge connection **A** Primary pumps purge Remote control **P** board Voltage 7 U.K.

Customization

If you do not see the configuration that you need, we can customize the pumping system. We offer product customization and integration of accessories, such as:

- Valves
- Gauges

Please consult us.





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