



Automatic filter pureliQ:AX

Intended use

The automatic filters pureliQ:AX are designed for the filtration of drinking water.

The filters can be used for positive pressure and negative pressure applications. However, a backwash is only possible under pressure.

The automatic filters pureliQ:AX are designed according to the stipulations of DIN EN 13443-1 and DIN 19628 and are intended for installing into the drinking water installation according to DIN EN 806-2 (installation immediately downstream from the water meter).

They protect the water pipes and connected water-carrying system parts from malfunctions and corrosion damage due to

undissolved impurities (particles) such as rust particles, sand, etc.

The filters can only be used in combination with the cliQlock module system.

The filters are not suitable for circulation water that is treated with chemicals.

The filters are neither suitable for oils, greases, solvents, soaps and other lubricating media, nor for the separation of water-soluble substances.



Mode of operation

The unfiltered drinking water flows into the filter through the inlet side and from the outside in through the filter element and to the pure water outlet. Thus, foreign particles of > 100 µm in size are retained.

Depending on their size and weight, the foreign particles either stick to the filter element or they fall straight down into the filter cylinder.

The controller automatically releases the backwash as per the setting. Backwash intervals of 7, 30, 60 and 90 days can be set.

A backwash can be initiated manually at any time. The drain

is opened by triggering a backwash. The water flows through the primary screen to the filter element and then flows through the filter element in the reverse direction to normal filtration. Thanks to Grünbeck's innovative Vortex technology, particles sticking to the filter element are detached and washed out to the drain.

The backwash process takes about 50 seconds. In case some particles still remain on the filter element, the backwash must be triggered again manually.

Structure

- closed, easy-to-clean device surface
- Cover to protect the filter cylinder and filter element from UV light
- inspection window integrated in the cover to determine the degree of impurities in the filter element
- Filter head made of pressure-resistant plastic and interval indicator for the backwash interval
- Filter element made of stainless steel mesh
- flexible drain connection with integrated free outlet
- all parts in contact with water comply with the German Drinking Water Ordinance. Test regulations: KTW, DVGW W 270, DIN 50930-6

Scope of supply

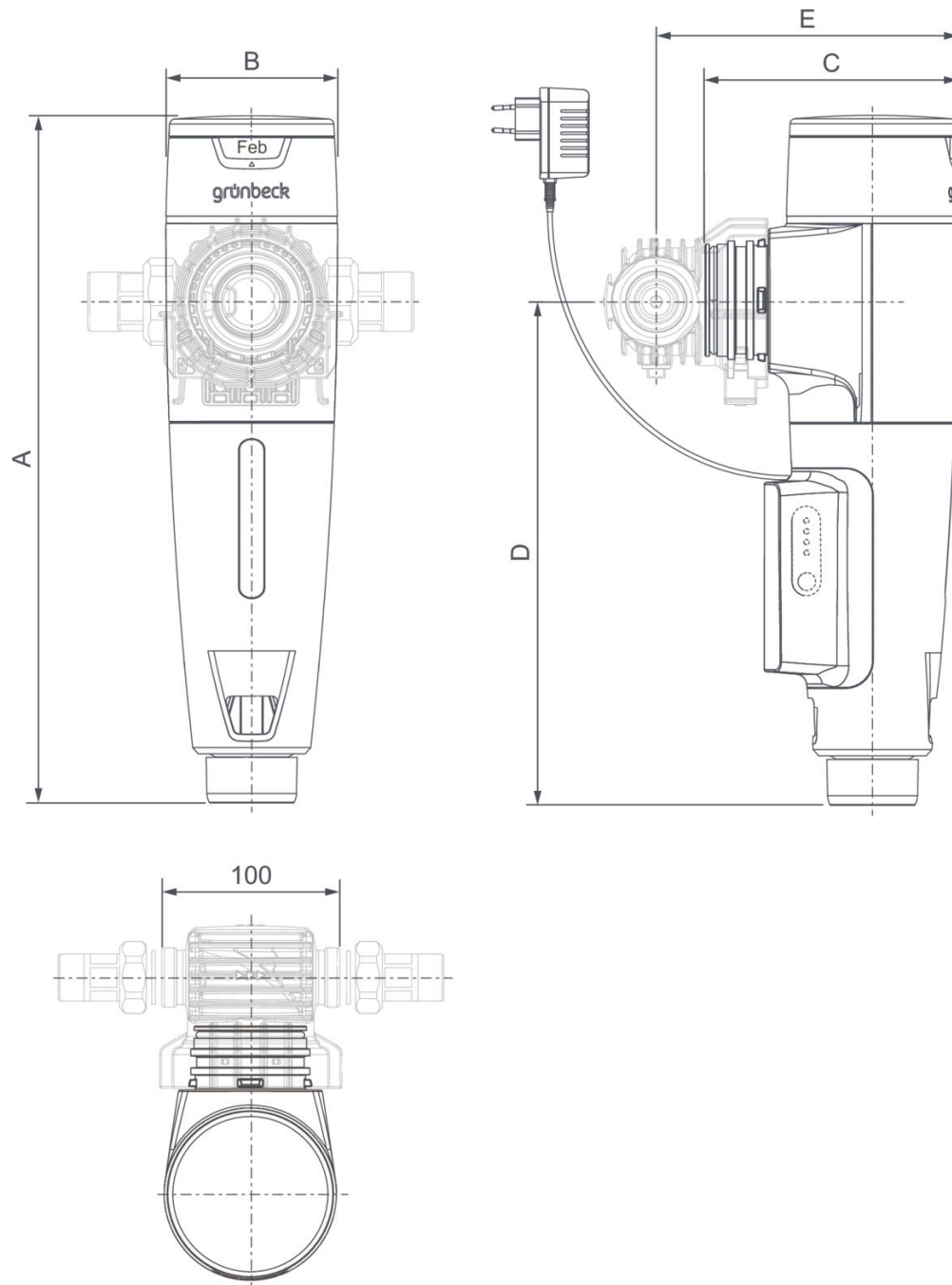
- Automatic filter pureliQ
- 100 µm filter element
- Mounting and connection material

Not included in scope of supply

- cliQlock basic module



Technical specifications



Dimensions and weights			AX (DN 20)	AX (DN 25)	AX (DN 32)
A	Height	mm	385	385	385
B	Width	mm	96	96	96
C	Depth	mm	145	145	145
D	Height connection	mm	285	285	285
E	Depth connection	mm	170	170	170
Product weight empty			kg	1,3	1,3
Shipping weight			kg	1,5	1,5

Connection data with cliQlock basic module		Automatic filter pureliQ:AX		
Nominal diameter		DN 20	DN 25	DN 32
Connection diameter		¾"	1"	1 ¼"

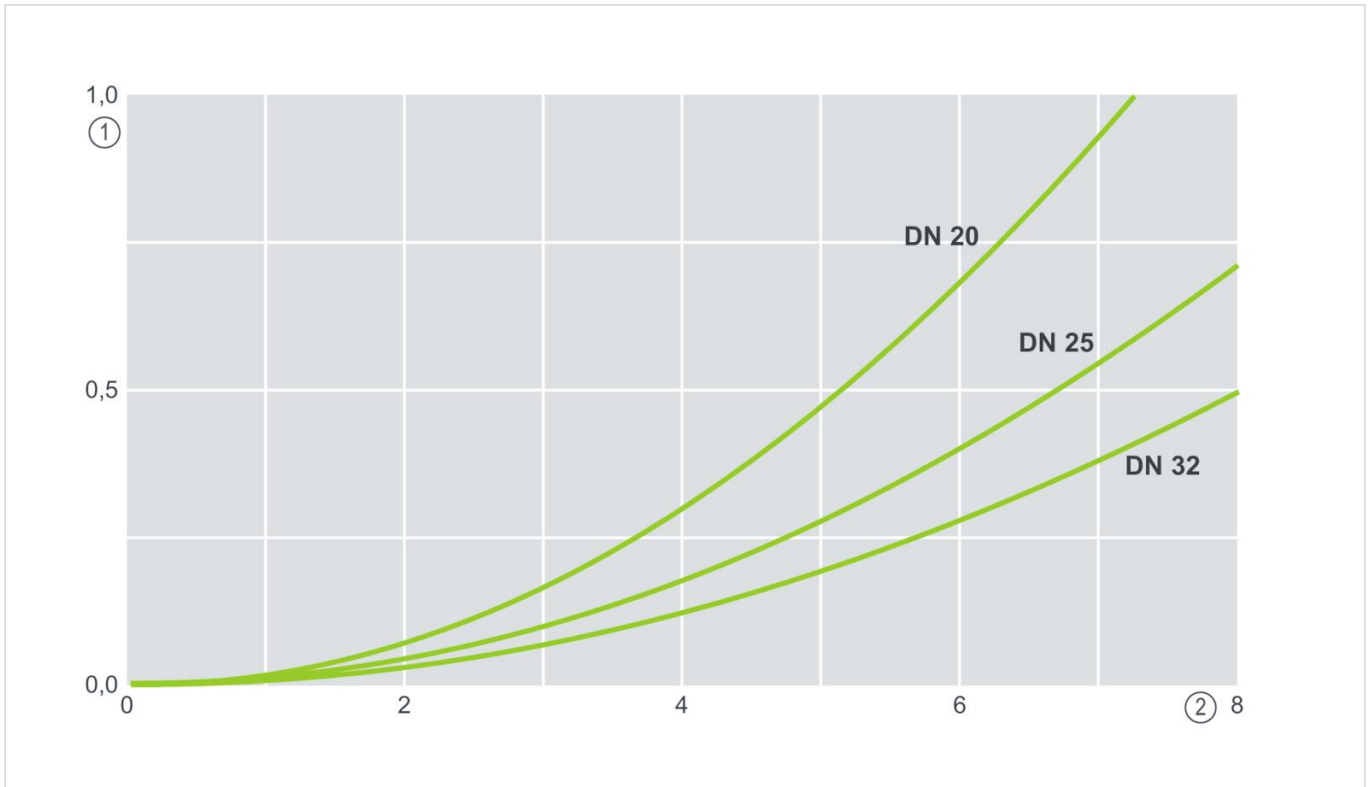
Connection data		AX (DN 20)	AX (DN 25)	AX (DN 32)
Mains connection voltage	VAC	100 - 240	100 - 240	100 - 240
Mains connection frequency	Hz	50/60	50/60	50/60
Electrical power input operation	W	2	2	2
Power input in standby	W	≤ 0,08	≤ 0,08	≤ 0,08
Protection		IP42	IP42	IP42
Protection class		II	II	II

Performance data		AX (DN 20)	AX (DN 25)	AX (DN 32)
Nominal flow at Δp 0.2 bar	m³/h	3,2	4,2	5,0
Nominal flow at Δp 0.5 bar	m³/h	5,1	6,7	8,0
KV value	m³/h	7,2	9,5	11,3
Pore size	µm	100	100	100
Lower and upper filtration fineness	µm	80 - 120	80 - 120	80 - 120
Nominal pressure		PN 16	PN 16	PN 16
Operating pressure	bar	2,0 - 16,0	2,0 - 16,0	2,0 - 16,0

General data		AX (DN 20)	AX (DN 25)	AX (DN 32)
Media temperature	°C	5 - 30	5 - 30	5 - 30
Ambient temperature	°C	5 - 40	5 - 40	5 - 40
Backwash water volume at an inlet pressure of 4 bar	l	≤ 14	≤ 14	≤ 14
Order no.		101000050000	101000050000	101000050000



Pressure loss curve



Designation

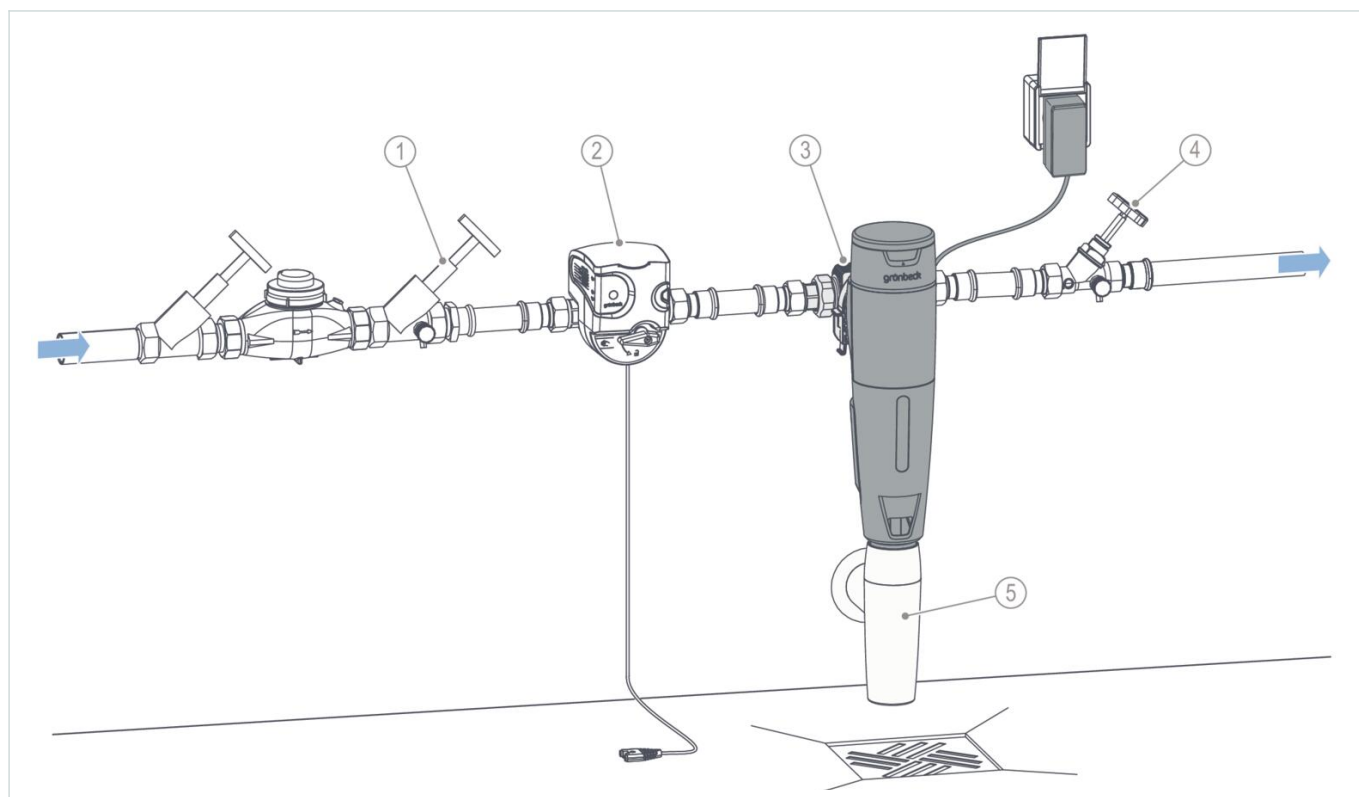
1 Differential pressure in bar

Designation

2 Flow rate in m³/h



Installation example



Designation

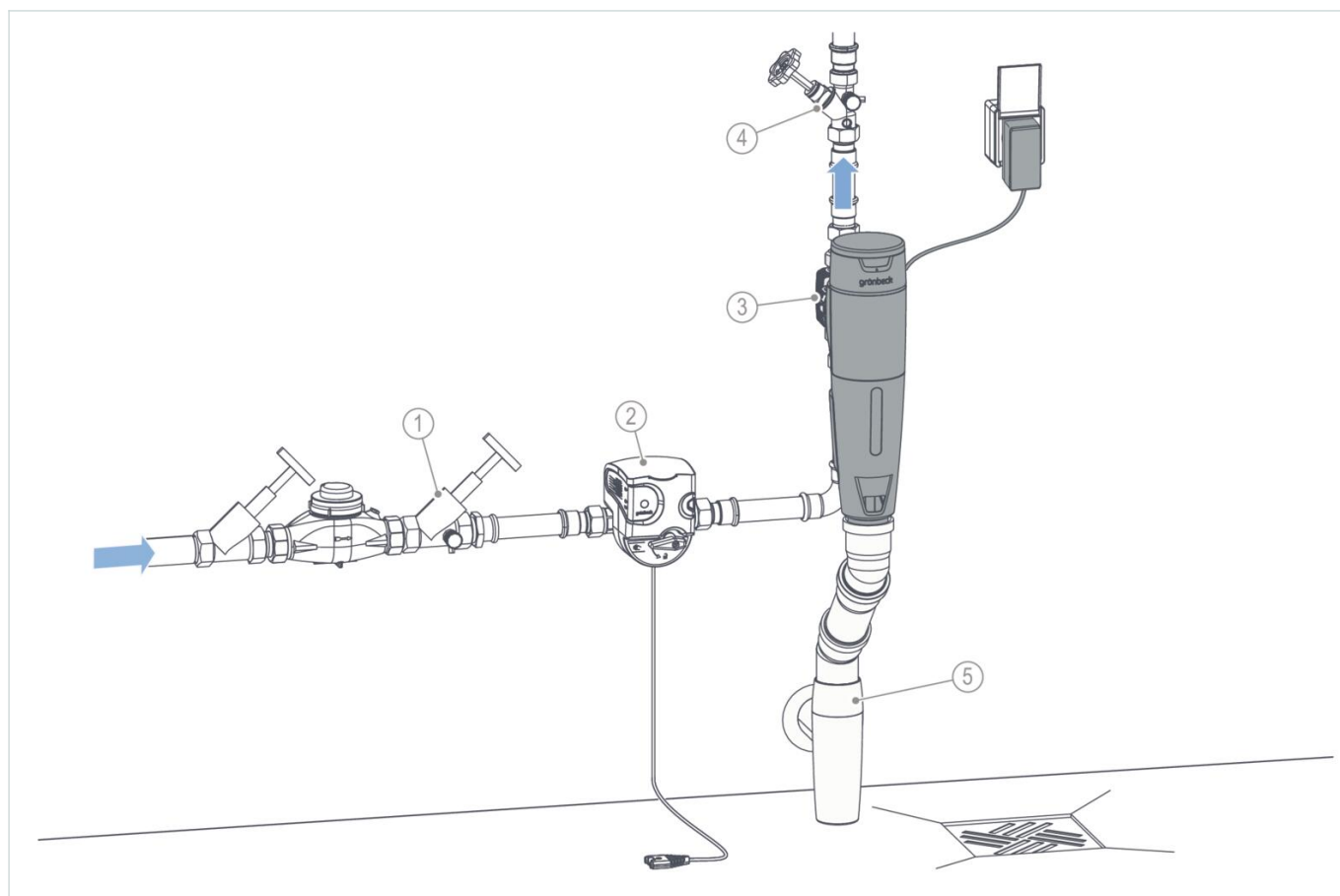
- 1 Inlet shut-off valve
- 2 Safety device protectliQ
- 3 cliQlock basic module

Designation

- 4 Outlet shut-off valve
- 5 Drain connection DN 50 incl. siphon acc. to DIN EN 1717



Installation example



Designation

- 1 Inlet shut-off valve
- 2 Safety device protectliQ
- 3 cliQlock basic module

Designation

- 4 Outlet shut-off valve
- 5 Drain connection DN 50 incl. siphon acc. to DIN EN 1717



Requirements for the installation site

Comply with local installation directives, general guidelines and technical specifications.

- Protection from frost, severe heat exposure and direct sunlight
- Protection from chemicals, dyes, solvents and their vapours
- Ambient temperature and radiation temperature in the immediate vicinity
 - ≤ 25 °C for applications in the drinking water sector
 - ≤ 40 °C for purely technical applications
- Protection from heat sources (e. .g. heating systems, boilers and hot water pipes)
- Access for maintenance work (take required space into consideration)

- Sufficiently illuminated as well as aerated and ventilated
- Pipe with sufficient load-bearing capacity to support the operating weight of the product

Water installation

- Floor drain or corresponding safety device with water stop function (e. g. Safety device protectliQ)
- Shut-off valves upstream and downstream of the product

Electrical installation

- Schuko socket (type F, CEE 7/3) with continuous power supply (max. 1.2 m from the control unit). The socket must not be coupled with light switches, emergency heating switches or the like.

Accessories

Availability may vary depending on the country.

		AX (DN 20)	AX (DN 25)	AX (DN 32)
	cliQlock basic module DN 20			
	Order no.: 101000070000 For installing the pureliQ X series filters or the softliQ:SE water softeners in the drinking water installation.	✓	—	—
	cliQlock basic module DN 25			
	Order no.: 101000080000 For installing the pureliQ X series filters or the softliQ:SE water softeners in the drinking water installation.	—	✓	—
	cliQlock basic module DN 32			
	Order no.: 101000090000 For installing the pureliQ X series filters or the softliQ:SE water softeners in the drinking water installation.	—	—	✓
	Drain connection DN 50 acc. to DIN EN 1717			
	Order no.: 188875 Drain connection DN 50 with siphon according to DIN EN 1717 - for small softening systems, backwash filters and system separators.	✓	✓	✓



Recommended products

Availability may vary depending on the country.

		AX (DN 20)	AX (DN 25)	AX (DN 32)
	Dosing system exaliQ:KC6 Order no.: 117400 For volume-based dosing of exaliQ mineral solutions into the drinking and industrial water pipes.	✓	✓	✓
	Dosing system exaliQ:SC6 Order no.: 117405 For volume-based dosing of exaliQ mineral solutions into the drinking and industrial water pipes.	✓	✓	✓
	Water softener softliQ:SE21 Order no.: 189000030000 Single water softener for the softening and partial softening of drinking water.	✓	✓	✓
	Safety device protectliQ:A20 Order no.: 126400 For protection against water damage in detached and semi-detached houses	✓	–	–
	Safety device protectliQ:A25 Order no.: 126405 For protection against water damage in detached and semi-detached houses	–	✓	–
	Safety device protectliQ:A32 Order no.: 126410 For protection against water damage in detached and semi-detached houses	–	–	✓

