

# Bosch air dryer cartridges

Reliably dry and clean – compressed air in commercial vehicles

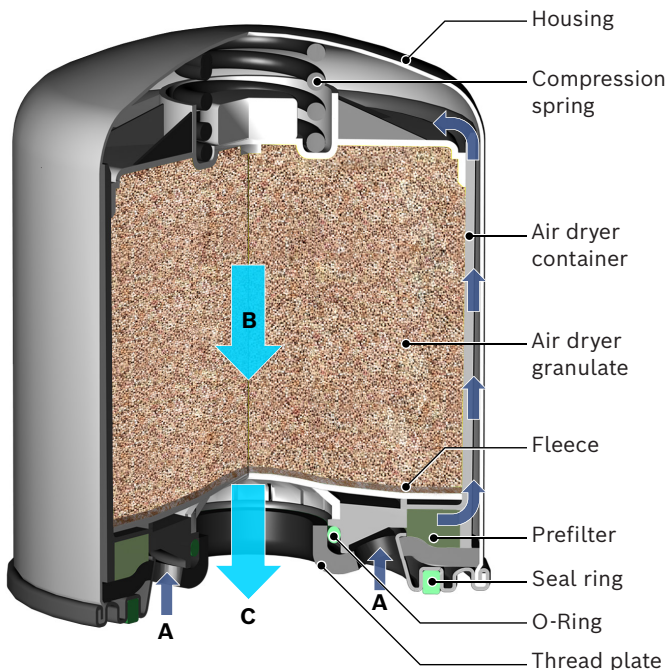
Air dryer cartridges protect the pneumatic system of commercial vehicles. They dehumidify compressed air and reliably remove particles and oil mist.

## Pneumatic systems in trucks

Compressed air is often used as energy source for numerous control and regulating processes in trucks. Among others there are:

- Service and parking brake systems
- Trailer braking systems
- Air suspension
- Traction control systems
- Door operation (e.g. in buses).

## Structure and function of an air dryer cartridge



- A** Compressed, humid air passes the prefilter, separation of coarse particles
- B** Drying of compressed air at the granulate container
- C** Dry, cleaned compressed air is returned to the pneumatic system



## Possible consequences of insufficient compressed air dehumidification

Under compression, the air warms up and absorbs water vapour which releases condensate when it cools down to the ambient temperature:

- Malfunction of the valves due to freezing of the water in the cold season
- Corrosion on air reservoirs, valves and cylinders
- Washing out the oil lubricating film in the components of the braking system

## Microstructure of desiccant granulate

The desiccant granulate features a grain size of 1–3 mm. Pores and tiny channels create a large internal surface for the collection of water molecules. The amount of granulate inside each air dryer cartridge – about 1 kg – has an internal surface of 1 million m<sup>2</sup>, which is equivalent to approx. 20 soccer pitches.



## Advantages of Bosch air dryer cartridges

- Protection of the pneumatic system
- High performance, even under difficult conditions
- Even longer service life with integrated oil separator

## Bosch air dryer cartridges at a glance

### Technical details of Bosch air dryer cartridges

Order number	Oil separation	Thread	Height	Short code
0 986 628 250	–	M39 x 1,5	Standard height 165 mm	Z 8250
0 986 628 251	–	M42 x 1,5	Standard height 165 mm	Z 8251
0 986 628 252	–	G1 1/4	Height with hexagon nut 178 mm	Z 8252
0 986 628 253	–	M41 x 1,5	Reduced height 135 mm	Z 8253
0 986 628 254	●	M39 x 1,5	Standard height 165 mm	Z 8254
0 986 628 255	●	M39 x 1,5 (Left-hand thread)	Standard height 165 mm	Z 8255
0 986 628 256	●	M42 x 1,5	Standard height 165 mm	Z 8256
0 986 628 257	●	M41 x 1,5	Reduced height 135 mm	Z 8257
0 986 628 258	●	G1 1/4	Height with hexagon nut 178 mm	Z 8258
0 986 628 259	●	M41 x 1,5	Standard height 165 mm	Z 8259
0 986 628 260	●	M39 x 1,5	Standard height 165 mm	Z 8260
0 986 628 261	●	M39 x 1,5	Height with hexagon nut 178 mm	Z 8261

### Bosch air dryer cartridges to replace third-party branded products

Order number	Mann	Mahle	Hengst	Knorr	WABCO
0 986 628 250	TB1374X	AL12	T250W	I140100F	4324100201
0 986 628 251	TB1374/4X	AL23	T390W	I138789F004	4324102202
0 986 628 252	TB1374/3X	AL14D	T300W	K087957	4324109272 4324152207
0 986 628 253	TB1364X	AL22	T200W	I141300F	4325200082
0 986 628 254	TB1394/1X	AL24	T280W	K039454 K039454X00	4324109362
0 986 628 255	TB1396/5X TB1394/17X TB1394/5X	AL26	T290W	K039453 K137956K50 (EconX line: K039453X00 K137956X50)	4329012332 4329012342 4329012452
0 986 628 256	TB1374/4X	AL23	T390W		4324102202
0 986 628 257	TB1364X	AL22	T200W	I141300F I139737F/004	4325200082
0 986 628 258	TB 1394/3X		T360W	K115979X00	4324109282 4329012262
0 986 628 259	TB1396/6X TB1394/6X	AL25	T260W	K039455 K039455X00	4329012462
0 986 628 260	TB1396X			K039454 K039454X00	4324102442
0 986 628 261	TB1394/13X		T400W	K096383	4329012532



Change intervals according to manufacturer specification