

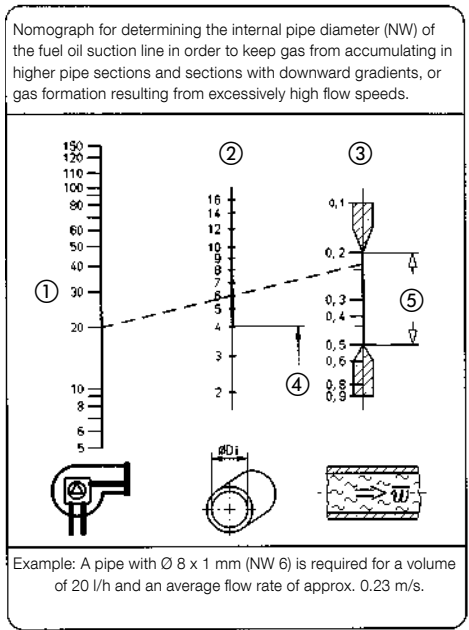
Automatic fuel oil de-aerator comparison



	Automatic fuel oil de-aerators		Automatic fuel oil de-aerators with filter		
Version	Flow-Control 3/K	Flow-Control 3/K HT	FloCo-Top-1K	FloCo-Top-2 KM Si	FloCo-Top-2 Optimum MC-18
Catalogue page	See page 140.	See page 141.	See page 145.	See page 142.	See page 144.
Application area	Single-line systems with return line				
Media	<ul style="list-style-type: none"> Fuel oil EL Diesel fuel Biofuel or bio-diesel with up to 20 % FAME 	<ul style="list-style-type: none"> Fuel oil EL Diesel fuel Biofuel or bio-diesel with up to 100 % FAME Vegetable oils (colza oil) 	<ul style="list-style-type: none"> Fuel oil EL Diesel fuel Biofuel or bio-diesel with up to 20 % FAME 	<ul style="list-style-type: none"> Fuel oil EL Diesel fuel Biofuel or biodiesel with up to 20 % FAME 	
Function	Continuous de-aeration		Continuous de-aeration and oil filtration	Continuous de-aeration and multiple oil filtration	
Filters	-	-	Sintered plastic filter	Sintered plastic filter	Opticlean ultra-fine filters
Vacuum gauge	-	-	-	-0.7/+0.9 bar	
Approval for construction products	Conformity certificate (ÜHP) as per EN 12514-2				

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Our tip
 Only installation by expert companies certified according to the applicable regulations ensures optimum operation of the automatic de-aerators. For optimum combustion, longer nozzle and filter service life and reliable function, the expert determines the following prior to installation and compares the values with the nomograph:

- Oil throughput per hour at burner nozzle
- Inside diameter of the (installed) oil suction line
- Vacuum (overpressure) in the oil carrying pipe upstream of the burner

The oil suction line is often too large. The flow rates of 0.2/0.5 m/s, required according to DIN 4755-2, are often not reached in systems converted from dual-line to single-line mode. The nomograph shows the proper values for sizing the suction line.

① Nozzle consumption l/h
 ② Inside diameter of the suction line in mm
 ③ Flow rate of the fuel oil in m/s
 ④ $\text{Ø} 4$ not advisable
 ⑤ Recommended range as per DIN 4755-T2

Automatic fuel oil de-aerator Flow-Control 3/K TÜV-tested



- **Trouble-free operation due to automatic de-aeration**
- **Dual float safety system keeps oil foam from escaping**
- **Considerably increased fuel oil filter service life - the amount of oil drawn from the tank corresponds exactly to the oil actually burnt**
- **The suction line can usually have a smaller cross section**



"PROOFED BARRIER" if installed with vent hose

Application

For single-line systems with return line in oil fired systems for continuous de-aeration. Suitable for the following media: fuel oil EL (DIN 51603-1) and diesel fuel (EN 590) as well as biofuel and biodiesel with max. 20 % FAME. Also for use in flood hazard areas. The risk of a leak in the return line going unnoticed is removed with Flow-Control. It is no longer necessary to regularly check the return line for leaks.

Description

Automatic fuel oil de-aerator consisting of a diecast zinc housing with female G $\frac{1}{4}$ connection thread at the tank end and male G $\frac{3}{8}$ connection threads with 60° cone at the burner end for connection of the burner hoses. De-aerator hood made of transparent plastic. Flow-Control 3/K features two separate float chambers. The lower float chamber contains the operating float; the upper float chamber contains the safety float. The upper float chamber keeps oil foam from escaping via the vent opening (e.g. during commissioning/filter exchange) and indicates malfunctions of the vent valve. An oil hose with ball-shaped sealing for 60° cone and a G $\frac{3}{8}$ union nut is supplied for connection to the fuel oil filter. Watertight up to 10 m water column. All Flow-Control versions are TÜV-tested.

Flow-Control 3/K (G $\frac{1}{4}$) with G $\frac{1}{4}$ female thread instead of G $\frac{3}{8}$ male thread.

Technical specifications

Burner connection

G $\frac{3}{8}$ male with 60° cone for burner hose or G $\frac{1}{4}$ female (part no. 69978)

Tank connection

G $\frac{1}{4}$ female or oil hose G $\frac{1}{4}$ male x G $\frac{3}{8}$ union nut for connection to filter

Nozzle capacity

Max. 100 l/h

Return flow

Max. 120 l/h

Separating capacity air/gas

Approx. 4 l/h

Mounting position

Float housing vertical to the top

Operating temperature range

Medium: Max. 60 °C
Ambient: Max. 60 °C

Operating overpressure

Max. 0.7 bar
corresponds to static oil column of approx. 8 m

Test pressure

6 bar

Dimensions

W x H x D: 95 x 147 x 95 mm

Approval

TÜV-tested (S 133 2013 E2)

Approval for construction products

Conformity certificate (ÜHP)
as per EN 12514-2

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The devices must not be subjected to undiluted additives, alcohol and acids.

DG: G, PG: 1			Part no.	Price €
Flow-Control 3/K	1	-	69930	
Flow-Control 3/K (G$\frac{1}{4}$)	1	-	69978	