

Danfoss COM Compressor Oil Management

# Best-in-class **oil management solution** for **superior system reliability**

With its robust magnetic float and precise hall-sensor technology, the COM Compressor Oil Management solution ensures a continuous oil-level control for reliable and long compressor operation. This modular solution is compatible with systems featuring semi-hermetic, scroll and reciprocating compressors, and it is easy to install.

## Continuous and accurate

oil level control  
secures system  
reliability



# Best-in-class Active Compressor Oil Management

**A sufficient oil level is key to long compressor reliability and to safeguard people, goods, and food in critical applications. The Danfoss active oil-level regulator system ensures reliable operations under varying conditions.**

Danfoss COM 10 and COM 20 active compressor oil management regulators feature hall effect sensor and built-in magnetic float technology for precise oil level sensing. The oil-level control system offers oil supply and alarm function enabling safe compressor shut down. This provides best-in-class reliable performance even with foaming or dirty oil, and under different operating conditions such as defrost cycles and seasonal variations.

With its modular compressor adapters and plug & play cable set, the COM Compressor Oil Management solution is compatible with an extensive range of system designs — ensuring a simplified installation and safe commissioning process. Among other applications, it fits well in chillers, rooftop units, heat pumps, and compressor racks.

The COM solution comes with a maximum working pressure up to PS 130 bar and a maximum opening pressure differential up to 100 bar operation.



## High System Reliability

- Best oil-level measurement with float technology
- Continuous oil-level control
- Adaptive Power-on logic with fast-time response
- Alarm relay enables compressor shut down in case of too low oil level
- Informative operation status: LEDs



## Easy Selection and Installation

- Wide range of adapters for various compressor types and brands
- Extensive range of cable lengths for flexible system design
- Easy installation



## Application Oriented Design

- MWP: Max. working pressure up to PS 130 bar
- MOPD: Max. opening pressure differential up to 100 bar operation
- Suitable for 50 Hz and 60 Hz, 24 VAC or 230 VAC
- Lightweight and compact design



## Energy Efficient

- Energy-efficient solenoid valve operation



## Global Applicability

- CE, RoHS, EAC



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## Three-step selection

The COM compressor oil management solution consists of a base unit, an adaptor, and a cable set. Choose your solution in three simple steps:

1. Select oil level regulator base unit
2. Select compressor adaptor type
3. Select power and relay cable length



Type	Code no.	Description
<b>Oil level regulator</b>	040B0119	Single pack COM 10C base unit incl coil 230VAC, MWP 60 bar, MOPD 40 bar
	040B0120	Single pack COM 10C base unit incl coil 24VAC, MWP 60 bar, MOPD 40 bar
	040B0121	Single pack COM 20C base unit incl coil 230VAC MWP 130 bar, MOPD 80 bar (100 bar)
	040B0122	Single pack COM 20C base unit incl coil 24VAC MWP 130 bar, MOPD 80 bar
	040B0100	Industrial pack COM 20C base unit incl coil 230VAC, MWP 130 bar, MOPD 80 bar (100 bar)
<b>Compressor adaptor</b>	040B0123	Single pack COM-AD-000 adaptor set 3-4 hole flange
	040B0124	Single pack COM-AD-034-14 adaptor set 3/4"-14 NPT
	040B0125	Single pack COM-AD-114 adaptor set Rotalock 1-1/4"
	040B0126	Single pack COM-AD-134 adaptor set for Rotalock 1-3/4"
	040B0127	Single pack COM-AD-D06 adaptor set 6-hole flange
	040B0128	Single pack COM-AD-118-18 adaptor set 1-1/8"-18 UNEF
	040B0129	Single pack COM-AD-118-18L adaptor set 1-1/8"-18 UNEF
	040B0130	Single pack COM-AD-118-18 (With Danfoss Adapter-Ring) adaptor set 1-1/8"-18 UNEF
	040B0131	Single pack COM-AD-118-18 (With Dorin Alu seal) adaptor set 1-1/8"-18 UNEF
	040B0145	Single pack COM-AD-241 adaptor set M24x1
040B0146	Single pack COM-AD-214 adaptor set Rotalock 2-1/4"	
<b>Power cable</b>	040B0101	Industrial pack cable COM-P (5m) 24-230VAC
	040B0102	Industrial pack cable COM-P (10m) 24-230VAC
	040B0103	Industrial pack cable COM-P (15m) 24-230VAC
	040B0104	Industrial pack cable COM-P (20m) 24-230VAC
	040B0147	Single pack COM-P (3m) 24-230VAC
	040B0149	Single pack COM-P (6m) 24-230VAC
	040B0151	Single pack COM-P (5m) 24-230VAC
	040B0153	Single pack COM-P (10m) 24-230VAC
	040B0155	Single pack COM-P (15m) 24-230VAC
	040B0157	Single pack COM-P (20m) 24-230VAC
<b>Relay cable</b>	040B0111	Industrial pack Cable COM-S (5m) 24-230VAC
	040B0112	Industrial pack Cable COM-S (10m) 24-230VAC
	040B0113	Industrial pack Cable COM-S (15m) 24-230VAC
	040B0114	Industrial pack Cable COM-S (20m) 24-230VAC
	040B0148	Single pack COM-S (3m) 24-230VAC
	040B0150	Single pack COM-S (6m) 24-230VAC
	040B0152	Single pack COM-S (5m) 24-230VAC
	040B0154	Single pack COM-S (10m) 24-230VAC
	040B0156	Single pack COM-S (15m) 24-230VAC
	040B0158	Single pack COM-S (20m) 24-230VAC

### Accessories and spare parts

<b>Differential pressure valve</b>	040B0163	Single pack ORD-015H 60 bar PS, 1.5 bar dP
	040B0164	Single pack ORD-035H 60 bar PS, 3.5 bar dP
	040B0165	Single pack ORD-050H 60 bar PS, 5.0 bar dP
<b>Spare part</b>	040B0159	Single pack spare part set for COM10C (Sealings sight glass, oil inlet filter)
	040B0160	Single pack spare part set for COM20C (Sealings sight glass, oil inlet filter)
	040B0161	Single pack spare part coil 24VAC 50/60Hz
	040B0162	Single pack spare part coil 230VAC 50/60Hz

## Compressor compatibility

The COM – Compressor Oil Management solution is compatible with a wide range of compressors. The adapter sets – hole flange and short or long version – are also compatible with various BOCK® compressor types, including for CO<sub>2</sub> applications. See details of compressor compatibility in the [data sheet](#).



### Compatibility with BOCK® compressors

Compressor adapter, between comp interface and base unit	BOCK® compressor type	Compressor size	Compressor interface
AD-000 3-4 hole flange 	F	2	4 hole M6
		3	
		4	
		5	
		14	
		16	
		18	
	HA	76	3 hole M6
		88	
		44e	
		4	
		5	
		6	
HG	7	3 hole M6	
	8		
	44e		
	56e		
	66e		
	88e		
	7		
AD118-18 _ 1-1/8" UNEF, AD118-18 or AD118118-18L "Long" 	HA	22e	1-1/8" UNEF
		34e	
	HG	12	
		24	
		34	
		46	
		12P+e	
		22P+e	
		24e	
		34P+e	

The adapters fit with all commonly used refrigerants, except NH<sub>3</sub>. Long adapters fit to all 1-1/8" interfaced BOCK® compressors. Short adapters according to application design.

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