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.

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

Global applicability

- CE, RoHS, EAC, UL

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Three-step selection

The COM compressor oil management solution consists of a base unit, an adapter, 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
Oil level regulator	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 coil24VAC MWP 130 bar, MOPD 80 bar
	040B0100	Industrial pack COM 20C base unit incl coil 230VAC, MWP 130 bar, MOPD 80 bar (100 bar)
Compressor adapter	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"
Power cable	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
Relay cable	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
Acessories and spare parts		
Differential pressure valve	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
Spare part	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

One code. One set.

The COM Oil Level Regulator Sets enable simpler and faster stocking and installation. Each set brings together all four essential components – the oil level regulator, compressor adapter, power cable, and relay cable – into one convenient code.

Sets	Code no.	Components included*	Code no.
COM 10C, 230V, AD000	040B0167	COM 10C base unit incl. coil 230VAC, MWP 60 bar, MOPD 40 bar	040B0119
		COM-AD-000 adapter set 3-4 hole flange	040B0123
COM 10C, 230V, AD114	040B0169	COM 10C base unit incl. coil 230VAC, MWP 60 bar, MOPD 40 bar	040B0119
		COM-AD-114 adapter set Rotalock 1-1/4"	040B0125
COM 10C, 230V, AD118	040B0174	COM 10C base unit incl. coil 230VAC, MWP 60 bar, MOPD 40 bar	040B0119
		COM-AD-118-18 (With Danfoss Adapter-Ring) adapter set 1-1/8"-18 UNEF	040B0130
COM 10C, 24V, AD000	040B0178	COM 10C base unit incl. coil 24VAC, MWP 60 bar, MOPD 40 bar	040B0120
		COM-AD-000 adapter set 3-4 hole flange	040B0123
COM 10C, 24V, AD114	040B0180	COM 10C base unit incl. coil 24VAC, MWP 60 bar, MOPD 40 bar	040B0120
		COM-AD-114 adapter set Rotalock 1-1/4"	040B0125
COM 10C, 24V, AD118	040B0185	COM 10C base unit incl. coil 24VAC, MWP 60 bar, MOPD 40 bar	040B0120
		COM-AD-118-18 (With Danfoss Adapter-Ring) adapter set 1-1/8"-18 UNEF	040B0130
COM 20C, 230V, AD000	040B0189	COM 20C base unit incl. coil 230VAC MWP 130 bar, MOPD 80 bar (100 bar)	040B0121
		COM-AD-000 adapter set 3-4 hole flange	040B0123
COM 20C, 230V, AD114	040B0191	COM 20C base unit incl. coil 230VAC MWP 130 bar, MOPD 80 bar (100 bar)	040B0121
		COM-AD-114 adapter set Rotalock 1-1/4"	040B0125
COM 20C, 230V, AD118	040B0196	COM 20C base unit incl. coil 230VAC MWP 130 bar, MOPD 80 bar (100 bar)	040B0121
		COM-AD-118-18 (With Danfoss Adapter-Ring) adapter set 1-1/8"-18 UNEF	040B0130
COM 20C, 24V, AD000	040B0200	COM 20C base unit incl. coil 24VAC MWP 130 bar, MOPD 80 bar	040B0122
		COM-AD-000 adapter set 3-4 hole flange	040B0123
COM 20C, 24V, AD114	040B0202	COM 20C base unit incl. coil 24VAC MWP 130 bar, MOPD 80 bar	040B0122
		COM-AD-114 adapter set Rotalock 1-1/4"	040B0125
COM 20C, 24V, AD118	040B0207	COM 20C base unit incl. coil 24VAC MWP 130 bar, MOPD 80 bar	040B0122
		COM-AD-118-18 (With Danfoss Adapter-Ring) adapter set 1-1/8"-18 UNEF	040B0130

** All sets include a 3m Power cable and a 3m Relay cable.*

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_2 applications.

See details of compressor compatibility in the **data sheet**.

Any information, including, but not limited to information on selection of product, its application or use, product design, weight, dimensions, capacity or any other technical data in product manuals, catalogues descriptions, advertisements, etc. and whether made available in writing, orally, electronically, online or via download, shall be considered informative, and is only binding if and to the extent, explicit reference is made in a quotation or order confirmation. Danfoss cannot accept any responsibility for possible errors in catalogues, brochures, videos and other material. Danfoss reserves the right to alter its products without notice. This also applies to products ordered but not delivered provided that such alterations can be made without changes to form, fit or function of the product. All trademarks in this material are property of Danfoss A/S or Danfoss group companies. Danfoss and the Danfoss logo are trademarks of Danfoss A/S. All rights reserved.

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