

## Unicla Series III Oil Separators

**IMPROVE system reliability • EXTEND compressor life • INCREASE cooling performance**

### Oil separators are recommended when:

Oil in the heat exchangers affects efficiency in systems with marginal evaporator and condenser capacity

### Why?

- Less oil in the evaporator = Better evaporator saturation temperatures and optimum refrigerant heat absorption
- Less oil in the condenser = Improves refrigerant ability to reject heat and lowers operating discharge pressure

### How oil return to the compressor can be compromised by system design or adverse operating conditions:

- Extra-long hose runs (upwards of 6 m) = Pressure drop and reduced refrigerant / oil flow
- Large or multiple heat exchangers (such as rooftop units for bus / coach / mining = Places where oil can pool
- Continuous high-revving or high-ambient > 30°C operation = Excessive oil discharge from the compressor in relation to oil return

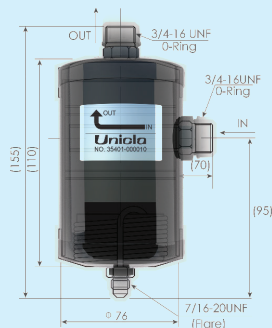
### The solution:

Unicla oil separators retain more than 70% of the original compressor oil level (COL) or approximately 40 – 60% of the recommended total system oil quantity (SOQ)

#### A-Type Oil Separator

Part No. 35401-000010

**Male insert O-ring connections (#8: 3/4-16 UNF) for easy integration in the discharge line, and a male flare (7/16-20 UNF) for the oil return line.** The A-Type oil separator is ideal for use with all Unicla 45 to 200 series compressors **45 to 200 cc.**



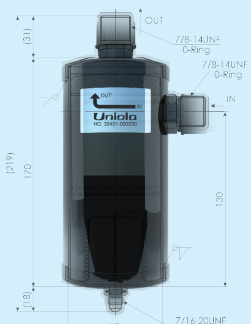
#### Suitable for:

**Sanden** SD7H15, SD7H13  
**Valeo** TM13, TM15, TM16, TM21  
**Unicla** 120 series, 150 series, 170 series, 200 series

#### B-Type Oil Separator

Part No. 35401-000030

**Male insert O-ring connections (#10: 3/4-16 UNF) for easy integration in the discharge line, and a male flare (7/16-20 UNF) for the oil return line.** The B-Type oil separator is ideal for use with all Unicla 200 and 330 series compressors **200 to 330 cc.**



#### Suitable for:

**Valeo** TM31  
**Unicla** 200 series, 330 series

**Note:** Suitable for 200 series and TM21 compressors where the line length is >6m

#### D-Type Oil Separator

Part No. 35401-000050

**Male insert O-ring connections (#12: 1-1/16-14 UNF) for easy integration in the discharge line, and a male flare (7/16-20 UNF) for the oil return line.** The D-Type oil separator is ideal for use with all Unicla 330 and 380 series compressors **330 to 380 cc.**



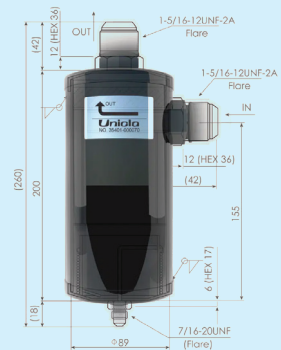
#### Suitable for:

**Valeo** TM43  
**Unicla** 330 series, 380 series

#### F-Type Oil Separator

Part No. 35401-000070

**Male flare connections (#16: 1-5/16-12 UNF-2A) for easy integration with the discharge line, and a male flare (7/16-20 UNF) for the oil return line.** The F-Type oil separator is ideal for use with all Unicla UWX series compressors **508 to 675 cc.**



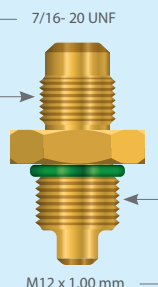
#### Suitable for:

**Valeo** TM55, TM65  
**Unicla** UWX series

## Part No. 42203-000161

Male flare (7/16-20 UNF) into compressor port M12 x 1.00 mm

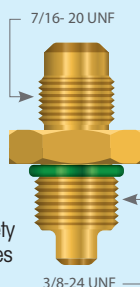
Supplied as standard  
on all Unicla F model  
compressors, and 200  
to UWX series  
compressors



## Part No. 42203-000280

Male flare with Schrader valve (7/16-20 UNF) into compressor port 3/8-24 UNF

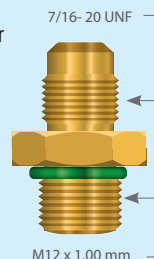
Direct installation of a variety of switches or oil return lines to Sanden compressors



## Part No. 42203-000150

Male flare with Schrader  
valve (7/16-20 UNF)  
into compressor port  
M12 x 1.00 mm

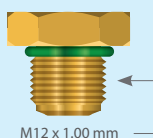
Direct installation of a variety of switches to both the low and high-side access ports



## Part No. 13201-000010

M12 x 1.00 mm

To blank off any access port



## Part No. OSH-2

Female Flare  
(7/16-20UNF) –  
Straight & 90° angle



## Part No. 11615-005740

(suits A-Type and B-Type)

Part No. 11615-005770

(suits D-Type and F-Type)

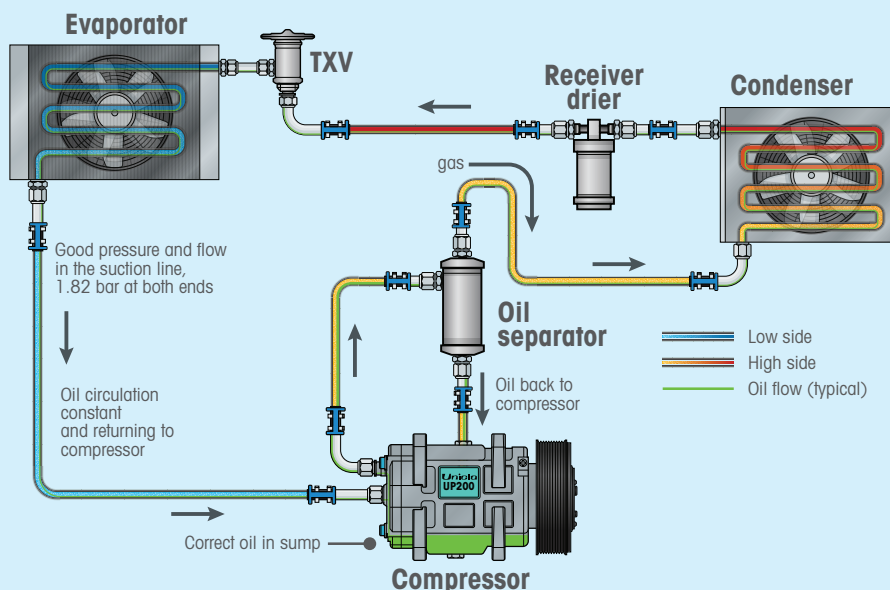


If you are after a specific part only, or require a shorter or longer oil return line, give your local branch a call using the individual part numbers listed above or the #4 assembled hose lines shown adjacent.

**NOTE:** Individual oil separators are supplied with a bracket as standard.

- Part No. OSH-1 | #4 Oil Return Line - 1m
- Part No. OSH-1.5 | #4 Oil Return Line - 1.5m
- Part No. OSH-2 | #4 Oil Return Line - 2.0m
- Part No. OSH-3 | #4 Oil Return Line - 3.0m

**This diagram shows a Unicla oil separator installed into the circuit with the oil return line connected to the top of the compressor oil return port, and the added benefit where compressor oil level (COL) is increased and oil in circulation (OIC) is reduced.**



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