



# CONDENSATE TREATMENT SYSTEMS

Atlas Copco

OSS oil water separator



## Condensate treatment

The condensate generated by a lubricated compressor contains traces of oil. It must be treated appropriately, as oil poses an environmental risk. Atlas Copco condensate management solutions separate and safely dispose of the oil in compressor condensate before it enters the sewage system.

## DEPENDABLY CLEAN

Atlas Copco's OSS offers absorption-based condensate management for oil-injected piston and rotary screw compressors below 60 cfm.

The oil water separator uses a new, advanced filter medium to remove oil traces to concentrations below 15 ppm<sup>1</sup>. Easy to install, use and replace, the OSS is the affordable condensate cleaning solution for smaller air systems.



To verify the oil concentration at the OSS' outlet, an optional sampling kit 8102046532 is available.

## FEATURES AND BENEFITS

### Clean water

After separation, oil-in-water concentrations are below 15 ppm<sup>1</sup>.

### Environmentally friendly

All materials are 100% recyclable.

### Economic solution

Avoid collection by a costly third party.

### Small footprint

Compact and lightweight design, optimized for small compressors.

### Excellent performance

Thanks to the use of advanced absorption media.

### Easy installation and replacement

A wall or plate mounting bracket is included.

<sup>1</sup> 15 ppm is generally well below the acceptance level for sewage disposal. Due to varying international and local guidelines, it is the user's responsibility to consult local waste water discharge regulations and ensure compliance.

# SIMPLE AND EFFICIENT ABSORPTION



- ① Condensate enters the OSS via the **inlet connection** at the top.
- ② **Depressurization slits** in the top cap allow pressurized condensate to be fed into the separator.
- ③ During pre-filtration, the oil-water mixture seeps through **polypropylene**-based filter media, absorbing and capturing the oil but not the water.
- ④ In the post-filtration stage, **advanced new filter media** absorbs the remaining oil.
- ⑤ The **anti-siphon vent** prevents the separator from completely draining when a flow passes through the outlet connection.
- ⑥ Clean condensate exits from the **outlet** with almost no residual oil content. As a result, the condensate can be discarded into the sewage drain.

## APPLICABLE COMPRESSORS (FLOW < 60 CFM)

### Piston compressors

- AR 2-10 (5hp to 20hp)
- LE/LT 2hp to 20hp

### Oil-injected rotary screw compressors

- GX 2-11 (3hp to 15 hp)
- GA 5-11 (7.5hp to 15hp)
- GA VSD+ 7-11 (10hp to 20hp)

## RECOMMENDED CAPACITY

Cold climate system FAD Recommended product replacement in running hours <sup>1</sup>	30 cfm 6000	50 cfm 4000	60 cfm 3000
Mild climate system FAD Recommended product replacement in running hours <sup>1</sup>	30 cfm 6000	50 cfm 4000	
Hot climate system FAD Recommended product replacement in running hours <sup>1</sup>	30 cfm 4000		
<b>Cold climate conditions:</b> ambient temperature 68°F – relative humidity 50% <b>System FAD</b> –Recommended product replacement in running hours <sup>1</sup>			
<b>Mild climate conditions:</b> ambient temperature 77°F – relative humidity 60% <b>System FAD</b> –Recommended product replacement in running hours <sup>1</sup>			
<b>Hot climate conditions:</b> ambient temperature 95°F – relative humidity 70% <b>System FAD</b> –Recommended product replacement in running hours <sup>1</sup>			

<sup>1</sup> In very hot and humid climates, more condensate is generated during compression. The presence of extra condensate shortens the contact time in the OSS, leaving less time for the media to absorb the oil.

The OSS is designed for mineral-based lubricants. It should not be used with synthetic polyglycol lubricants due to its increased solubility in water.

### Dimensions & weight

	Connections		Dimensions			Weight lbs
	Inlet	Outlet	A in	B in	C in	
OSS metric 8102046466	6 mm	10 mm	9.4	5.5	5.5	2.2
OSS imperial 8102046458	1/4"	3/8"				

