

LiquiPure

Oil-water separators
1,2 - 67,3 m³/min



pure energy



Purifying your compressed air,
increasing your efficiency.



Cooling, conditioning, purifying.

LIQUIPURE



CONDENSATE CONTAINS LARGE QUANTITIES OF OIL AND OTHER IMPURITIES, WHICH IF FREELY DISCHARGED CREATE SIGNIFICANT ENVIRONMENTAL DAMAGE. CONSEQUENTLY MOST COUNTRIES HAVE IMPLEMENTED STRICT CONDENSATE DISCHARGE LEGISLATIONS. SOLUTIONS WHICH DO NOT GUARANTEE THE REQUIRED DISCHARGE QUALITY LEAD TO THE RISK OF SIGNIFICANT FINES, WHILST TRADITIONAL TREATMENT SOLUTIONS PRESENT A NOTABLE FINANCIAL BURDEN.

LIQUIPURE OFFERS A LOW COST AND LOW MAINTENANCE SOLUTION WITH GUARANTEED SEPARATION IN ACCORDANCE WITH LOCAL LEGISLATIONS.



Increased performance

- LiquiPure's unique filter media sets new standards in separation performance.
- Advanced design solutions optimize overall system operation.
- The pre-separation module's pressure relief chamber removes turbulence, whilst the removable inlet chamber eliminates bulk dirt.

Guaranteed performance

- LiquiPure conforms to local discharge regulations.
- The independently performance verified filter media is continuously batch tested.
- The intelligent internal design eliminates filter stage by-passing and safeguards against oil leaking towards the outlet.

Advanced filter media

- The oleophilic pre-filter, with inside-to-out flow, improves performance.
- The filter material offers high porosity, optimized grain sizing, a large inner surface area and a low bulk density: the result is efficiency levels over 100% higher than traditional activated carbon solutions.

Suited to all applications

- LiquiPure operates with all major oil types and all air compressor configurations (piston included).
- The pressure relief chamber ensures perfect operation with all drain types.
- Numerous accessories allow LiquiPure to be personalised to all User needs.



Unique new pre-separation module



Protects the environment - guaranteed



Oleophilic pre-filter stage



The right choice for all Users

LIQUIPURE – A LOGICAL AND AN ECOLOGICAL CHOICE

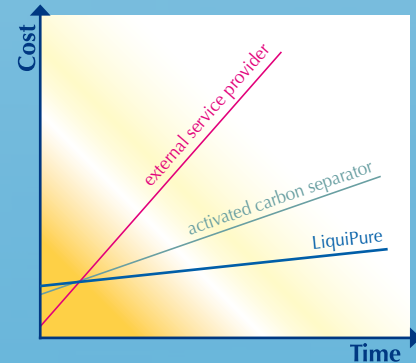
The motives – Compressed air needs to be clean and free of oil, consequently these undesired impurities must be removed from the compressed air network. But they cannot just be simply discharged into the ambient, as this provokes considerable environmental damage, as well as usually being illegal.

The logics – Disposing of condensate via external service providers may sound like an ideal solution, but has significant long-term cost implications. Traditional activated carbon separators may offer some initial investment savings, but the increased service costs quickly eradicate this advantage. LiquiPure is the most cost effective solution available today, with paybacks within only a few months.

The ecologics – LiquiPure allows the User to achieve absolutely the most ecological condensate discharge solution, in line with local legislations and ISO14000 requirements. Don't compromise with the environment!

LiquiPure operation – The inlet condensate is de-pressurized in the depressurization chamber (A), before passing to the separation tank (B). Large particles are removed in the waste collector (C). Gravity separation within the separation tank (B) creates an oil layer at the top, which disperses into a removable overflow-proof oil container (D). The condensate then passes through the oleophilic pre-filter (E), which also absorbs any residual oil floating in the separation tank. The CLEANCARTRIDGE filter (F) ensures any remaining oil is removed. The result is clean water which can be discharged directly into the sewage system without any risk of environmental damage.

LiquiPure selection – Correct OS selection, according to geographic location, compressor and oil type, is imperative to ensure proper operation.



Easy to install

- The condensate inlet can be rotated in 3 differing directions, increasing installation flexibility.
- LiquiPure does not need any connection to an external power source.
- Reduced footprints versus standard solutions ensure easy unit positioning.



Rotating inlet with 3 positions

CLEANCARTRIDGE filter

- CLEANCARTRIDGE technology offers absolutely the simplest filter substitution, with no dirty hands:
- Remove the spent cartridge using the levers and leave it to drip-dry within its upper bracket for a few minutes.
 - Insert the new cartridge without any need to pre-soak it.



CLEANCARTRIDGE filter

Reduced service needs

- Longer filter life (double the lifetime compared with activated carbon solutions).
- Fast, easy and clean filter substitution thanks to CLEANCARTRIDGE technology.
- No moving parts.
- Easy to clean bulk dirt chamber.



Quick and clean maintenance

Accessories

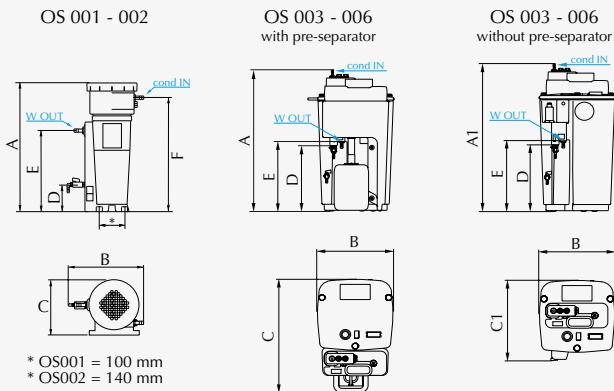
- Heating element (can also be easily retrofitted).
- Kit for operation with 40barg system pressures.
- 4 unit interconnection kit.
- Alarm sensor.
- Version without pre-separation (eg. for use with polyglycol lubricated compressors).



Optional retrofitable heater

Model	Tank Vol. (litres)	Connections			Dimensions (mm)								Weight (Kg)		Replacement kit
		inlet	outlet	oil outlet	A	A1	B	C	C1	D	E	F	with pre-sep.	without pre-sep.	
OS 001	10	2xG½ (Øi=10mm)	G½ (Øi=10mm)	-	528	-	290	222	-	110	330	464	-	3,5	50208800011
OS 002	18,6			-	595	-	387	254	-	110	368	534	-	5,75	50208800012
OS 003	30,6	3xG½ (Øi=10mm)	G½ (Øi=13mm)	DN25	698	719	350	544	397	320	340	A or A1	13,5	12,0	50208800013
OS 004	61,3	1xG1 (Øi=25mm)	G1 (Øi=25mm)		867	892	410	594	461	420	460	A or A1	18,5	16,0	50208800014
OS 005	115,5	3xG½ (Øi=13mm)		DN40	1088	1118	520	764	573	505	550	A or A1	36,5	32,0	50208800015
OS 006	228,4	1xG1 (Øi=25mm)			1158	1193	650	937	702	535	580	A or A1	53,0	42,0	50208800016

Data refers to the following working conditions: ambient air at 30°C / 70%RH, compressed air at 7 bar(g) pressure and with pressure dew point 3°C.
Operating limits: temperature 5-60°C, max 16 barg at OS inlet (optionally up to 40 barg).



Climatic zone	Model	Airflow (screw compressors) - m³/min					Airflow (1 or 2 stage reciprocating compressors) - m³/min			
		Turbine oil LTD	VDL oil	VCL oil	Synthetic oil		VDL oil	Synthetic oil		
					PAO	Ester			PAO	Ester
Zone A - low humidity	OS 001	2,8	2,8	2,1	2,1	1,8		1,9	1,6	1,8
Northern Europe Canada Northern USA Central Asia	OS 002	5,5	5,5	4,2	4,2	3,6		3,8	3,2	3,7
	OS 003	8,5	8,5	6,5	6,5	5,5		5,9	4,9	5,6
	OS 004	16,9	16,9	13,0	13,0	11,1		11,7	9,8	11,2
	OS 005	33,6	33,6	25,9	25,9	22,0		23,3	19,4	22,3
	OS 006	67,3	67,3	51,8	51,8	44,0		46,6	38,8	44,6
Zone B - average humidity	OS 001	2,4	2,4	1,9	1,9	1,6		1,7	1,4	1,6
Central & Southern Europe Central America	OS 002	4,9	4,9	3,8	3,8	3,2		3,4	2,8	3,2
	OS 003	7,3	7,3	5,6	5,6	4,8		5,1	4,2	4,9
	OS 004	14,6	14,6	11,3	11,3	9,6		10,1	8,4	9,7
	OS 005	29,3	29,3	22,5	22,5	19,1		20,3	16,9	19,4
	OS 006	58,5	58,5	45,0	45,0	38,3		40,5	33,8	38,8
Zone C - high humidity	OS 001	2,1	2,1	1,6	1,6	1,4		1,5	1,2	1,4
South-East Asian coastal regions Oceania Amazon and Congo	OS 002	4,2	4,2	3,2	3,2	2,8		2,9	2,4	2,8
	OS 003	6,2	6,2	4,8	4,8	4,0		4,3	3,6	4,1
	OS 004	12,5	12,5	9,6	9,6	8,2		8,7	7,2	8,3
	OS 005	24,9	24,9	19,1	19,1	16,3		17,2	14,3	16,5
	OS 006	49,7	49,7	38,3	38,3	32,5		34,4	28,7	33,0

Data refers to 20 mg/l outlet water purity; for 10 mg/l multiply by a correction factor of 0,9.
Performance levels may deviate by ± 20% for PAO oil and ± 40% for Ester oil.

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Cooling, conditioning, purifying.



MTA is ISO9001 certified, a sign of its commitment to complete customer satisfaction.



MTA products comply with European safety directives, as recognised by the CE symbol.

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