

LiquiPure

oil-water separators



The condensate removed from compressed air networks contains large quantities of oil and other impurities. If discharged into public drains or sewers this would result in extensive and unreparable environmental damage. Consequently most countries have now implemented strictly controlled discharge limits, with heavy fines if these are violated. LiquiPure represents the safest and most economical solution to ensure that the discharged condensate meets the environmental legislations. Installed directly on site, it removes the oil from the condensate, allowing this to be simply discharged into the ambient. The small amount of separated oil can then be economically disposed of. LiquiPure is further proof of MTA's quest for environmental awareness.



Cooling, conditioning, purifying.

LIQUIPURE BENEFITS

- Complies with industrial discharge regulations.
- Protects the environment.
- Ideal for applications operating according to ISO14000.
- No power supply required.
- Highly reliable, no moving parts.
- Made from recyclable materials.
- Reduced disposal costs leading to rapid pay-backs.
- Simple to install, operate and maintain.
- Standard sampling valve for quick water quality verification.
- Strong corrosion proof construction, no chance of leaks.
- Easily cleanable large particle collector, lengthens filter life and reduces maintenance.
- Special model for portable installations (SAO16).
- Large pre-filter and carbon section for increased operating life.
- Easy to substitute filtration kit for quick and clean maintenance.

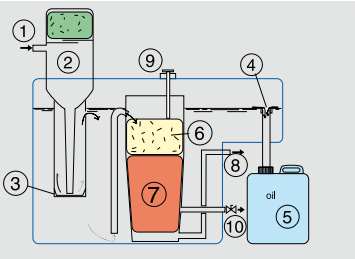


LiquiPure features a multiple separation sequence to ensure quality separation.

Optional thermostatically controlled heater for areas where there is a risk of freezing.

3 input connector allows the whole compressed air network to be served by a single SAO.

Easy to use maintenance kit allows for quick and clean maintenance operations.



HOW LIQUIPURE WORKS

The inlet condensate (1) is de-pressurized in the expansion chamber (2). Large particles are removed in the waste collector (3). It then enters the separator, where the oil is separated out to form a thick layer at the top. An adjustable funnel (4) siphons out the oil, which passes into a removable oil container (5) with an overflow protection. The condensate then passes through the oleophilic pre-filter (6) and the activated carbon filter (7) (twin filters on SAO340-1020), ensuring any remaining oil is removed. Clean water exits the unit (8) and can be discharged without any risk of environmental damage. The water level can be verified using a level indicator (9).

LIQUIPURE SELECTION

Correct SAO selection is imperative to ensure proper operation. The SAO must be sized according to geographic location and condensate levels. Also, oils which form stable emulsions are not suitable for SAO. Please contact MTA for correct SAO selection.

climatic zone	model	airflow (oil injected rotary screw and vane compressors)								airflow (1 or 2 stage reciprocating compressors)			
		turbine oil		VDL-oil		VCL-oil		synthetic oil		turbine oil		VDL-oil or synthetic oil	
		m ³ /min	cfm	m ³ /min	cfm	m ³ /min	cfm	m ³ /min	cfm	m ³ /min	cfm	m ³ /min	cfm
	SAO 16	1.5	52.2	1.3	45	1.0	34.7	0.3-1.0	10.4-37.7	1,0	34,7	0,4-0,7	13,9-24,3
	SAO 33	4.0	139	3.5	121	2.5	86.9	1.2-2.5	41.7-86.9	2,0	69,5	0,7-1,4	24,3-48,7
	SAO 100	8.5	295	7.0	243	5.5	191	2.3-5.5	80.0-191	4,4	153	1,4-3,3	48,7-114
	SAO 190	16.5	574	14.5	504	11.0	382	5.5-11.0	191-382	8,8	306	3,3-6,5	114-226
	SAO 340	33.0	1148	30.0	1043	22.0	765	11.0-22.0	382-765	22,0	765	6,5-6,8	226-236
SAO 1020	105	3652	90.0	3130	70.0	2435	25.0-70.0	869-2435	70,0	2435	17,0-52,0	591-1808	
	SAO 16	2.5	86.9	2.0	69.5	1.5	52.2	0.5-1.5	17.4-52.2	1,2	41,7	0,5-0,9	17,4-31,1
	SAO 33	4.5	156	4.0	139	3.0	104	1.4-3.0	48.7-104	2,4	83,4	0,9-1,6	31,1-55,6
	SAO 100	10.0	347	9.0	313	7.0	243	2.5-7.0	86.9-243	5,6	194	2,5-4,5	86,9-156
	SAO 190	21.0	730	18.0	626	14.0	486	6.0-14.0	208-486	11,2	389	5,0-10,5	174-365
	SAO 340	45.0	1565	40.0	1391	30.0	1043	14.0-30.0	486-1043	24,0	834	10,0-20,0	347-695
SAO 1020	120	4174	100	3478	80.0	2782	35.0-80.0	1217-2782	80,0	2782	35,0-75,0	1217-2608	
	SAO 16	1.0	34.7	0.7	24.3	0.5	17.4	0.2-0.5	6.9-17.4	0,4	13,9	0,2-0,4	6,9-13,9
	SAO 33	2.5	86.9	2.0	69.5	1.5	52.2	1.0-1.5	34.7-52.2	1,0	34,7	0,5-1,0	17,4-34,7
	SAO 100	5.5	191	4.5	156	3.5	121	2.0-3.5	69.5-121	2,8	97,4	1,4-2,8	48,7-97,4
	SAO 190	10.5	365	9.0	313	7.0	243	4.5-7.0	156-243	5,6	194	2,5-5,6	86,9-194
	SAO 340	23.0	800	20.0	695	15.0	521	10.0-15.0	347-521	12,0	417	5,0-12,0	174-417
SAO 1020	60.0	2087	50.0	1739	40.0	1391	22.0-40.0	765-1391	40,0	1391	15,0-35,0	521-1217	

LiquiPure performance depends upon the climatic zone. These can be summarised into three: **PALE BLUE** for mild climates (e.g. Central and Southern Europe, Central America); **DARK BLUE** for dry and/or cold climates (e.g. Northern Europe, Canada, Northern USA, Central Asia, Northern Africa); **RED** for wet, tropical climates (e.g. South-East Asia coastal regions, Pacific, Amazonia and Congo). To select the correct SAO model, refer to the performance table with the same colour as the relevant climatic zone.

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