LiquiPure - LP

Oil / Water Separators

Nominal arif flow 4 – 35,5 m³/min



Operation

As condensate flows into the LP Oil/Water separators, the oil is filtered out through 3 stages of separation.

Condensate enters the large depressurizing chamber, where oil particles are separated from water thanks to the coalescing effect. The second and third stages of separation are carried out by two different oil filter cartridges. The condensate moves to the second filtration stage where oleophilic polypropilene fibers remove the bigger part of the oil particles. The final stage of filtration is carried out by a large bed of activated carbon, contained in a bag, which adsorbs any residual oil from condensate. The final result is clean condensate suitable to be easily and safely discharged.

Benefits

- Works with any type od condensate drain.
- Can handle and separate any type of oil.
- Test valve and test set included for sampling purposes.
- Simple to install.
- · Easy to maintain.
- No condensate settling tank is required (therefore no bacteria build-up).
- Small compact design.

Standard features

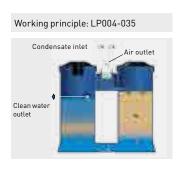
- Operating media: Condensate (air, water, oil) non-agressive. Suitable for any type of oil. Not suitable for emulsions.
- Housing material: HDPE.
- Fittings: brass, brass-zinc plated, steel (LP004÷035). Sealing: NBR.
- Filters materials: PP (polypropylene), AC (Active Carbon).
- Water quality test kit: standard (LP004÷035).

Operating limits

- Operating temperature: 1,5-65 °C (for T > 45 °C, performance may decrease).
- LP004÷035: max condensate volume per condensate drain single discharge is 0,250 ltr.

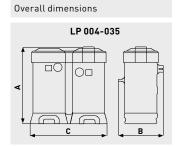
Maintenance rules

- 4000 operating hours of compressor with oil carryover 2,5 mg/m³.
- 12 months regardless compressor operating hours.
- Oil concentration in outlet reaches concentration determined with local directives and laws









Model	Nominal Air flow	Connections			Dimensions (mm)				Weight
	m³/min	inlet / outlet	n° of inlet connections	n° of outlet connections	A	В	С	D	(Kg)
LP 004	4,04	Hosetail for pipe Ø int. 10 mm	1	1	411	243	416	/	5,3
LP 008	8,40	Hosetail for pipe Ø int. 10 mm	2	1	680	343	730	/	18,3
LP 020	20,50	Hosetail for pipe Ø int. 10 mm	2	1	940	366	820	/	29,7
LP 035	35,50	Hosetail for pipe Ø int. 10 mm	4	1	1137	386	960	/	38,0

LP performance: oil residue value: < 10 mg/l (LP004 \div 035).

Model	Cold climate zone 15 °C 60% UR	Mild climate zone 25°C 60% UR	Hot climate zone 40°C 100% UR			
	2,89	2,43	1,23	Max oil adsorption (kg)		
LP 004	4,82 / 170,22	4,04 / 142,80	2,05 / 72,32	Max FAD (m³/min) / (scfm)		
	2,3	3,4	6,3	Max condensate flow (l/h) ^(*)		
	6,01	5,04	2,55	Max oil adsorption (kg)		
LP 008	10,01 / 353,55	8,40 / 296,60	4,25 / 150,21	Max FAD (m³/min) / (scfm)		
	4,7	7,1	13,1	Max condensate flow (l/h) ^(*)		
	14,64	12,28	6,22	Max oil adsorption (kg)		
LP 020	24,40 / 861,73	20,47 / 722,92	10,37 / 366,12	Max FAD (m³/min) / (scfm)		
	11,4	17,2	32,0	Max condensate flow (l/h) ^(*)		
	25,40	21,31	10,79	Max oil adsorption (kg)		
LP 035	42,34 / 1495,07	35,52 / 1254,24	17,99 / 635,21	Max FAD (m³/min) / (scfm)		
	19,8	29,8	55,6	Max condensate flow (l/h)[*]		

(*) Max condensate volume per condensate drain single discharge is 0,250 ltr.









Viale Spagna, 8 - ZI 35020 Tribano (PD) - Italy Tel. +39 049 9588611 Fax +39 049 9588612 info@mta-it.com www.mta-it.com

