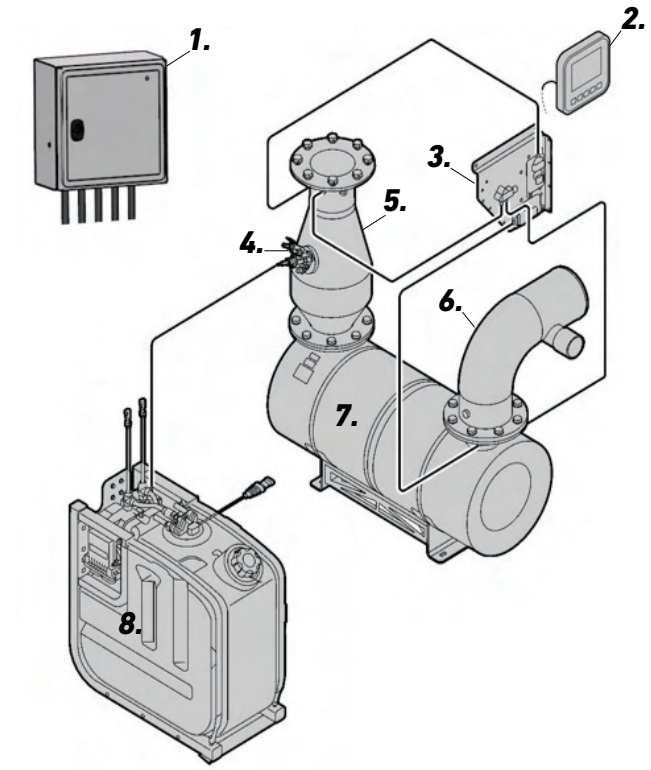
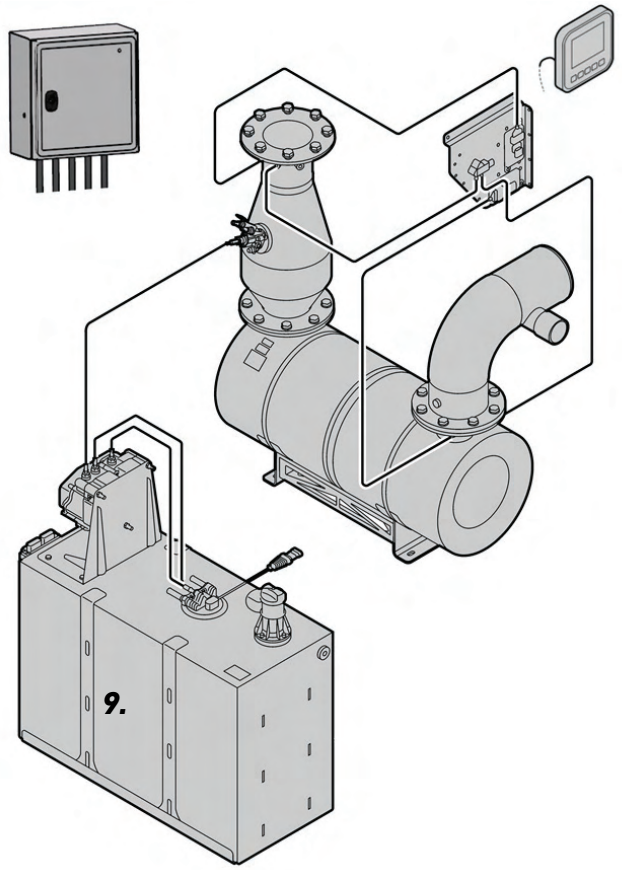
6LY SCR IMO Tier3 solution

YANMAR'S Selective Catalytic Reduction (SCR) solution for 6LY Series is an advanced active emissions control technology system that reduces emissions of nitrogen oxides (NOx) down to near-zero levels. Paired with the compact, efficient 6LY common rail engine, it meets and exceeds MARPOL IMO 3 regulations and is DNV-certified. The 6LY SCR IMO Tier 3 solution reflects YANMAR's commitment to a more sustainable future.

Engine series	YANMAR 6LY CR	
Supported power range	6LY400	6LY440
Max. output at crankshaft*	294 kW@3300 rpm [400 mhp@3300 rpm]	324 kW@3300 rpm [440 mhp @3300 rpm]
Fuel	Max allowable sulfur content 500 ppm. EN590 & ASTM D975.	
Weight (Engine+SCR, excl. DEF tank)	668 kg	[1472,7 lbs]
SCR operation conditions (exhaust temperatures °C)	T exh. min = 220°C is the min exhaust gas temp at the inlet of the SCR chamber for reductant injection. T exh. max = 600°C is the max exhaust gas temp at the inlet of the SCR chamber.	
Max exhaust back pressure (kPa)	Pmax = pressure 30 kPa.	
Pressure drop over the SCR	ΔP over the SCR without mixing elbow: 10.8 kPa. ΔP over the SCR with mixing elbow: 11.1 kPa.	
Power supply requirements (Vdc)	24V DC	
Reductant	Diesel exhaust fluid (DEF) 32.5%. According to AUS32 and ISO 22241. Consumption : at max load 3%.	
Adblue tank	50L DEF tank (plastic) 10 kg	[22 lbs]
	150L DEF tank (stainless) 71,5 kg	[157,6 lbs]
Exhaust emission compliance limit (g/kWh)	0.42/2.0 g/kWh	

* Fuel temperature 40°C at the inlet of the fuel injection pump (ISO 8665: 2006)





1. Interface box
2. SCR display
3. Sensor bracket
4. Injector
5. Mixer
6. SCR mixing elbow
7. Catalyst
8. 50L tank (plastic)
9. 150L tank (stainless steel)

YANMAR_DS_6LYSCR_04112024