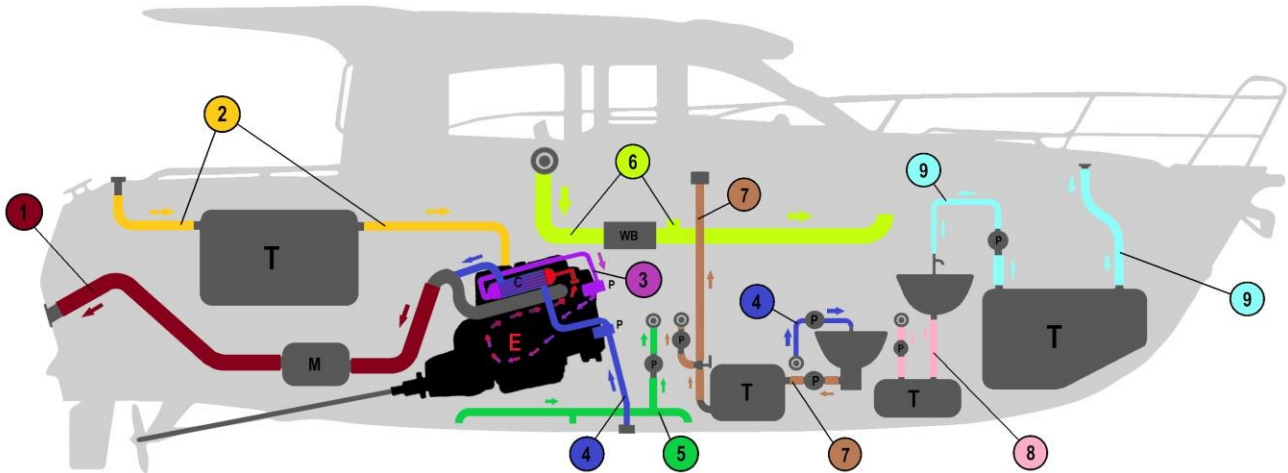




## Hoses for motor boats and yachts

The installations in a motor boat/yacht are made up of rigid piping and sections of suction and discharge hoses of various types and sizes. The basic installations are shown in the drawing:



1 - wet exhaust (exhaust and seawater); 2 - fuel system (see chapter "Hoses for petroleum products"); 3 - engine cooling (glycol solution, see also chapter "Automotive hoses and connectors"); 4 - seawater; 5 - bilge water; 6 - ventilation and heating (air, see chapter "Extraction and ventilation hoses"); 7 - faecal matter; 8 - grey water with detergents; 9 - drinking and washing water, cold and hot; T - tanks, M - muffler; P - pumps; E - engine; C - radiator, WB - heating

### Hoses for wet exhaust of motor boats

Boat and yacht wet exhaust hoses are designed for so-called wet exhaust systems for stationary diesel or petrol engines. Engine cooling water is drawn from overboard, pumped into the engine cooling system radiator and then mixed with the exhaust gas from the exhaust manifold and ejected overboard under low pressure. Mixing the very hot exhaust gases with water reduces their temperature to a few tens of degrees and allows sections of rubber hoses to be used to lead the exhaust to an outlet at the stern of the boat located above the water surface. The rubber hoses must be resistant internally to the effects of the exhaust and also to the occurrence of a cooling water supply failure due to, for example, a pump failure. The hoses must then withstand a temporary rise in internal exhaust gas temperature of up to several hundred degrees (°C), which should be signalled by a sensor. The requirements for wet exhaust hoses and the tests they must pass are described in standards e.g. ISO 13363 or SAE J2006 and the requirements of classification societies (Lloyd's Register, DNV, ABS, Bureau Veritas, RINA). The requirements in this respect depend on the size and intended use of the boat or yacht and should be known to the potential user/designer.



## AMALFI LL / AMALFI LO

**Motor boat wet exhaust hose** Inner layer: black synthetic rubber

**Reinforcement:** synthetic cord, steel spiral

**Outer layer:** black synthetic rubber (notched for AMALFI LO)

**Operating temperature:** -30°C to +100°C

Lightweight, flexible suction and discharge hose for water-cooled exhaust systems of diesel engines of motor boats up to 24 m in length and yachts (low-pressure free ejection of mixed exhaust gas and cooling water). Used in sections between system components. Exhaust-resistant inner layer. Steel spiral for vacuum resistance. Outer layer resistant to abrasion, oil and weathering, for LO version corrugated. Conforms to ISO 13363:2016 type 2B, SAE J2006:2013 type R2. Type certified by Lloyds LR2003044TA and RINA DIP021521CS/002 (AMALFI LL) and RINA DIP021521CS/003 (AMALFI LO). Other diameters and AMALFI CORD discharge hose (without steel spiral) available on special request.

index	internal diameter [mm]	external diameter [mm]	wall thickness (overall) [mm]	working pressure [bar]	Bursting pressure* ≥ [bar]	vacuum [bar]	radius bends [mm]	mass [kg/m]	length rolls [m]
IV-AMALFI-LL-040	40	50	5	~	2,5	~	160	1,01	40
IV-AMALFI-LL-051	51	61	5	~	2,5	~	180	1,29	20
IV-AMALFI-LO-076	76	~ 88	~ 6	~	2,5	~	230	1,74	20
IV-AMALFI-LO-090	90	~ 102	~ 6	~	2,5	~	315	2,03	20
IV-AMALFI-LO-125	125	~ 138	~ 6,5	~	2,5	~	560	2,92	60
IV-AMALFI-LO-152	152	~ 165	~ 6,5	~	2,5	~	680	3,52	12

\* The stated minimum burst pressure value presents compliance with the standard.

