



## STF/N series physical purification plants to treat water coming from car washes

Waste water containing biodegradable surfactants, before being drained and following grit and oil removal treatment, must be sent for filtration on sand and carbon to reduce the pollutant elements.

The quartz sand filter, upstream of the active carbon ones, is necessary to reduce suspended solids still in the sludge and to protect the active carbon filters.

The granular type carbon used is activated with high temperature vapour and has the ability to absorb a broad spectrum of organic substances from the water.

This carbon has the ability to capture a quantity of organic substance equalling approximately 30 percent (30%) of its weight.

Once saturation is reached, the exhausted active carbon load must be replaced with a fresh load.

All the equipment was designed for an automatic operating cycle to load and drain water, the only manual operation is occasional filter backwashing.

### The supply includes:

a self-priming centrifugal supply pump, with level regulators and electrical panel; a sand filter (with filling materials, delivered separately) created in a galvanised steel bath, with ball valves, for execution of the operating and washing phases, and gauges; a carbon filter, created as for the sand filter. The plant is also equipped with a control meter for the quantity of water produced.

The pump and filters are supplied pre-assembled on a frame manufactured in galvanised carbon steel profiles.

The plants are dimensioned taking into consideration an inbound pollution, in terms of COD, equal to 500 mg/l. For different pollution, the plant must be dimensioned ad hoc.

PLANT MODEL	HOURLY FLOW RATE l/h	DAILY FLOW RATE l/day	VEHICLES PER DAY no.	MAX DIMENSIONS		
				MAX LENGTH cm.	WIDTH cm.	HEIGHT cm.
STF/N 250	250	2400	16	150	50	250
STF/N 500	500	4800	32	170	60	260
STF/N 750	750	7200	48	200	70	260
STF/N 1000	1000	9600	64	200	80	270
STF/N 1250	1250	12000	80	220	100	280
STF/N 1500	1500	14400	96	230	100	280

The values given are approximate. IDRODEPURAZIONE S.r.l. reserves the right to make changes at any time and without prior notification

