



**HYDROSERVICE**  
engineering & systems

# NITROGEN BOOSTER



## APPLICABILITY

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The purpose of NITROGEN BOOSTER is to charge the accumulators (local on HPU or inside the HPU) at the required nitrogen pre-charge, by using the nitrogen bottle, until 20 bar of residual nitrogen pressure inside them.

## INFORMATIONS

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The bladder or piston accumulators need to be checked from time to time (usually 3-6 months) on nitrogen side pressure and eventually recharged at required level of pressure.

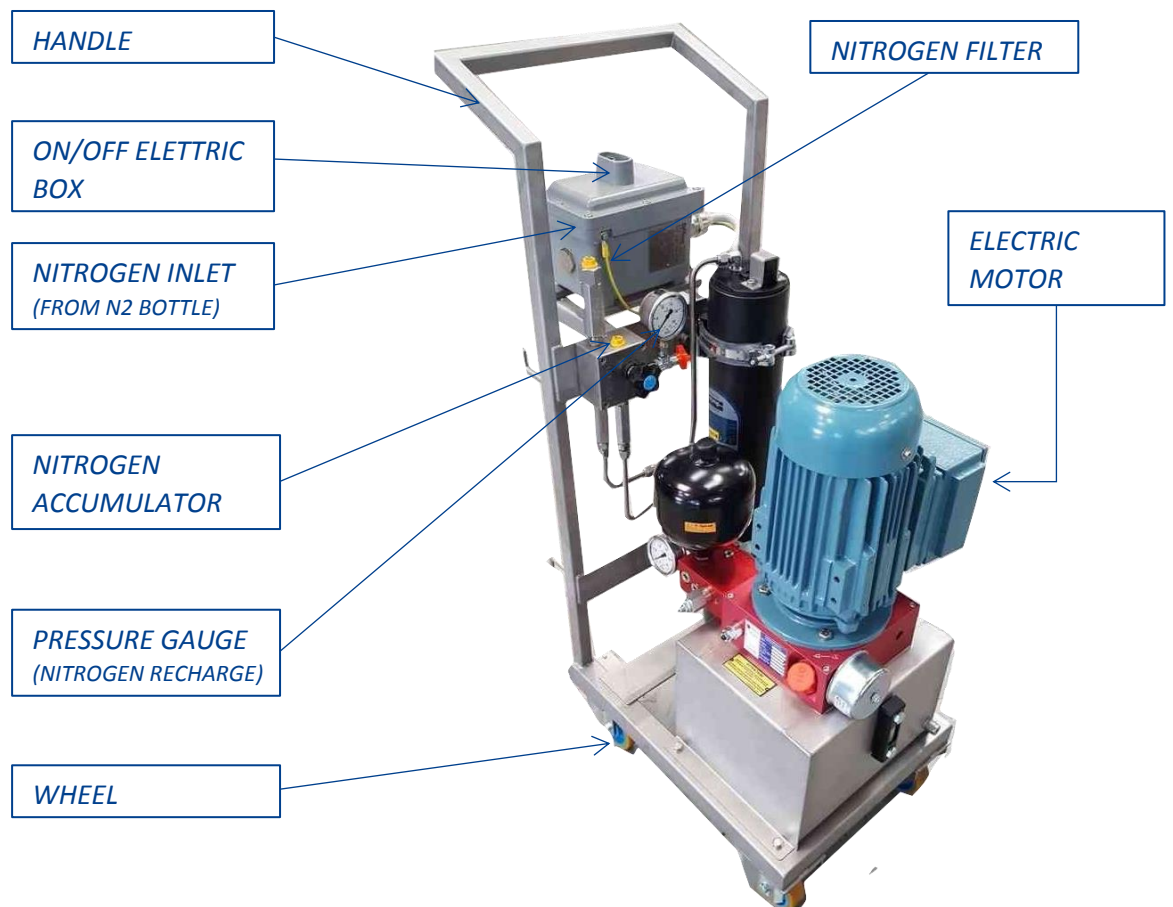
The check and eventually refilling have to be realized with no pressure on oil side of the accumulators.

For this reason the checking accumulator has to be excluded and discharged on oil side using its exclusion and decompression manual valves.

After the operation, this special tool have to be installed on nitrogen check and filling point on the head of the accumulator.

This special tool (nitrogen check and filling tool) is contained inside its bag that is supplied by accumulator manufacturer.

The nitrogen intensifier has to be connected to nitrogen bottle by "in PB" port to electric supply and with flexible pipe to the blader accumulator to be charged (form connection "out ACC").



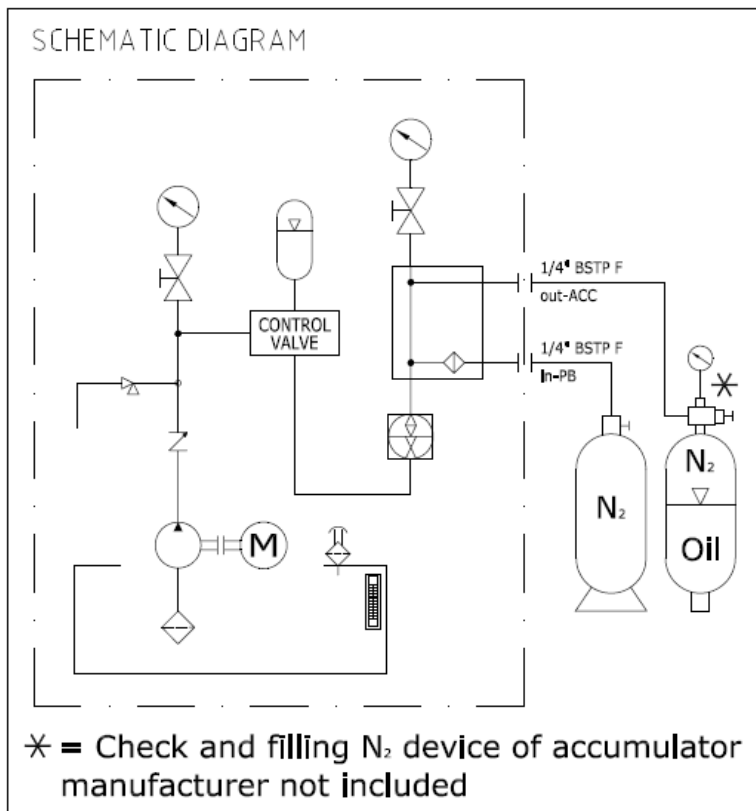
## CONTROLS INCLUDED

- Manual Start & stop
- Safety relief valve
- Inlet/outlet pressure gauges
- Inlet/outlet pressure regulator
- Inlet/outlet 10 micron filters
- Auto-stop control factory pre-set to any pre-selected pressure (OPTIONAL)

## TECHNICAL SPECIFICATIONS

TECNICAL DATA	
OIL TANK CAPACITY	15 Lt
FLUID TYPE	HLP
OIL VISCOSITY	46 cSt at 40°C
FLOW RATE	3 Lt/min
MAX PRESSURE	180 bar (up to 2600 psi)
TEMPERATRE RANGE	-25°C to +60°C (ambient temperature)
ELECTRIC MOTOR	1,1 kW 400V/50Hz 3 Phases IP65
CONNECTIONS	"in PB" (N <sub>2</sub> ): 1/4" G "acc OUT" (ACC): 1/4" G

SPECIFICATION	
DIMENSION (mm)	1100 (H) x 530 (D) x 450 (W)
WEIGHT	95 Kg (con olio) 85 Kg (senza olio)
MATERIALS	SS AISI 316



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