One autoclave with following features:

..> operating pressure 480 bar (7000 psi)

..> design pressure 550 bar

..> operating temperatura 250°C

..> design temperatura 300°C

..> construction material 316Ti

..> internal volumen 2,1 litres

..> internal diameter 150 mm

..> internal height 120 mm

..> sealing with metallographite seal

..> fluids to be used group 1 (CO2, oil, hydrocarbons)

..> closure with bolts and nuts

..> EC certification according to the European Pressure Directive PED 2014/68/UE

The choice of the material remains customer's responsibility regarding the adequation material / media and the corrosion resistance of such material.

Equipped with:

* heating collar with no-burn protection grill
* one central plug to accept magnetic stirrer later on
* six 1/8" HP inlets / outlets
* two fittings inside the cell on the lid to attach a frame
* one inlet line with a manual needle valve
* one vent line with a manual valve
* one liquid sampling tube with 3 pneumatic valves controlled by the touchable screen and a 3 ml sampling capacity
* one safety head and rupture disc
* one 500 bar pressure gauge and pressure sensor
* one thermocouple inside the autoclave
* one sapphire window dia 28 mm on the autoclave lid
* one sapphire window dia 28 mm on the side
* one sapphire window dia 6 mm on the side at 90 degrees
* a second lid with no sapphire window but a central fitting for addition of a stirrer
* magnetic stirrer (200 Ncm) with impeller, axis, baffle bar,
* an aluminium frame to hold the autoclave and to fix all components. The autoclave will be hold on the frame by the upper flange. One pneumatic lift to lower the cell

one Manuel pump:

* volume 25 ml
* working pressure 1000 bar

electrical cabinet with touchable screen and 5 meters connecting cable from autoclave:

* temperature read out and regulation
* one emergency stop

Supplied spare parts:

* two autoclave seals
* two seal and bearings kits for the stirrer (see options)
* one rupture disc
* one tools kit

Additional parts:

* 5 Manual Dosage valve 1/8''
* 15 Manual standard valve 1/8''
* 5 Check valve 1/8''
* 3 Three way valve 1/8''
* 4 Relief valve 1/8'' 500 bar
* 5 Safety head 1/8''
* 5 Rupture disk 1/8'' 500 bar
* 21 T 1/8''
* 6 reducing adapter Female 1/8" x Female 1/4"
* 4 F 1/16" x F connexion 1/8" NPT
* 4 Filter 1/8
* 24 Ferule 1/8
* 24 Regulating nut 1/8''
* 12 Right Angle 1/8''
* 12 Union 1/8''
* 4 Union 1/16"
* 4 Right Angle 1/16''
* 8 Regulating nut 1/16''