



AUTOCLAVES FOR COLD RETREADING



“*ECO-ENERGY*”

IROP "ECO-ENERGY" (*) autoclaves, characterized by advanced technological systems, guarantee maximum safety of working and compliance with the required specifications.
 Tested according to Directive 97/23 CE-PED, using VSR/ISPESL Collection for the design. On request, are available other constructive standard, too.

Heating Type

B.E.

Electric Heating

Air heating in turbulence with electric heaters
 (Indirect System)

B.V.

Steam Heating

Air heating in turbulence with steam in an exchange circuit
 (Indirect System)

B.O.D.

Diathermal Oil Heating

Air heating in turbulence with diathermal oil in an exchange circuit
 (Indirect System)

B.U.

Electric and / or Steam Heating

Air heating in turbulence with prechoice of B/E and/or B/V type
 (Indirect System)

B.V.DI.

Steam Heating

Steam direct entry into the autoclave (Direct System)

B.VA.DI.

Steam + Air Heating

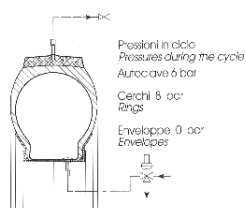
Air and steam mixture direct entry (Direct System)

B.U.S.

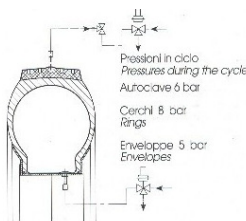
Universal Heating

Prechoice of Indirect System or Direct System – of your choice

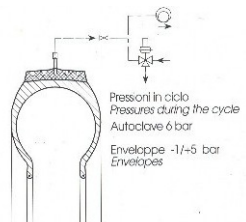
Vulcanization Type



DPT System + Envelopes Pressure Discharge



DPT + DPE System



Vacuum + DPE System (Double Envelope) (External envelope + tight ring for internal)

DPT = Tubes Differentiated Pressure (Rings)

DPE = Envelopes Differentiated Pressure

IROP AUTOCLAVES can be built with different dimensions (from 6 to 24 tyres) according with the requested loading useful length

"NEW PROFACE" Recording System with video graphic recording, in colour, of tyres vulcanization cycles by Vacuum + DPE System (Double Envelope) automatic working, consisting of:

1. Safety device for max pressure and max temperature stop
2. Touch-Screen Operator Panel+PLC Pro-Face monochromatic of 5,7" to program the regulation sets with heating and pressure control with 3 recorded programs and loses lest on envelopes / tubes with Operator alarm
3. Autoclave pressure transducer MIDAS scale – 1 / + 9 bar
4. Envelope vacuum/ pressure transducer MIDAS scale – 1 / + 9 bar
5. TCJ probe, scale 0-200 °C
6. Video graphic recorder JUMO Logo Screen 500 CF 3 points + Memory-card and Software for data recording on your office PC
7. Autoclave air pressurization line, complete of:
 - Stop valve
 - Cut-off ball cocks
 - Automatic valve ON-OFF for pressure inlet
8. Automatic Valve ON-OFF for overpressure discharge and total discharge at End Cycle
9. Vacuum + DPE System, consisting of:
 - Vacuum pump LB60 (60 m³/h) with service tank of 100 litres, CE/PED
 - Air filter
 - Vacuum gauge -1 bar
 - Manifold with ball cocks and vacuum gauges – 1 / + 9 bar
 - Automatic valve ON-OFF for envelope pressure inlet
 - Automatic valve ON-OFF for envelope pressure discharge
10. **Optional:** Working with DPE System (tubes) at differentiated pressure with pressure transducers, automatic valves and service tank of 25 litres, CE/PED, manifold with ball cocks and gauges
11. **Optional:** Recording for temperature uniformity test both for autoclave air and into the tyres by three thermocouples
12. **Optional:** Flexible hoses (fixed or differential length) with couplings and quick hooks

(*) **ECO-ENERGY** : to know the characteristics of this new line of products, please visit our website (www.irop.it) or contact our technical department directly.