



SOLVENT RECOVERY SYSTEMS



Professional

Industrial

Ergonomic

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SERIES INDUSTRIAL “DYNAMIC”

Model DQ 230 Wx



- Explosion proof version Ex ATEX approved
- For recycling of flammable and not flammable solvents
- Loading capacity: 230 litres
- Total volume of the boiler: 410 litres
- Inner diameter of the boiler: 700 mm
- Processing time: hours 4,00 - 5,30
- Working temperature: 50 - 180 °C
- Operating: atmospheric pressure
- Voltage: 400V - 50 Hz
- Electrical supply: three phase + earth
- Connected power: 16000W
- Electrical protection: II2G IIA T3 to T2
- Vapour condenser: stainless steel – cooled by water in open circuit (on request - version “Ax” - cooled by air)
- Boiler tilting: by geared motor
- Control board: by circuit board with time visualisation display
- Automatic loading for one or more consecutive cycles
- Possibility to set a concentration (or dryness) cycle at the end of the distillation process
- Dimensions: cm 160 x 306 x 220 H
- Weight: 2150 kg



SERIES INDUSTRIAL “DYNAMIC”

Model DQ 400 Wx



- Explosion proof version Ex ATEX approved
- For recycling of flammable and not flammable solvents
- Loading capacity: 400 litres
- Total volume of the boiler: 624 litres
- Inner diameter of the boiler: 950 mm
- Processing time: hours 4,00 - 5,30
- Working temperature: 50 - 180 °C
- Operating: atmospheric pressure
- Voltage: 400V - 50 Hz
- Electrical supply: three phase + earth
- Connected power: 22000W
- Electrical protection: II2G IIA T3 to T2
- Vapour condenser: stainless steel – cooled by water in open circuit (on request - version “Ax” - cooled by air)
- Boiler tilting: by geared motor
- Control board: by circuit board with time visualisation display
- Automatic loading for one or more consecutive cycles
- Possibility to set a concentration (or dryness) cycle at the end of the distillation process
- Dimensions: cm 180 x 306 x 240 H
- Weight: Kg. 2350



SERIES INDUSTRIAL “DYNAMIC”

Model DQ 600 Wx



- Explosion proof version Ex ATEX approved
- For recycling of flammable and not flammable solvents
- Loading capacity: 600 litres
- Total volume of the boiler: 965 litres
- Inner diameter of the boiler: 1000 mm
- Processing time: hours 4,00 - 5,30
- Working temperature: 50 - 180 °C
- Operating: atmospheric pressure
- Voltage: 400V - 50 Hz
- Electrical supply: three phase + earth
- Connected power: 22000 – 32000 W
- Electrical protection: II2G IIA T3 to T2
- Vapour condenser: stainless steel – cooled by water in open circuit (on request - version “Ax” - cooled by air)
- Boiler tilting: by geared motor
- Control board: by circuit board with visual display for all process data, possibility to memorize the parametres, possibility to regulate the heating power
- Automatic loading for one or more consecutive cycles
- Possibility to set a concentration (or dryness) cycle at the end of the distillation process
- Possibility to work for consecutive automatic cycles or in continuous loading
- Oil circuit in forced circulation
- Dimensions: cm 175 x 400 x 375 H
- Weight: Kg. 3032



SERIES INDUSTRIAL “DYNAMIC”

Model DQ 1200 Wx



- Explosion proof version Ex ATEX approved
- For recycling of flammable and not flammable solvents
- Loading capacity: 1200 litres
- Total volume of the boiler: 2200 litres
- Inner diameter of the boiler: 1450 mm
- Processing time: hours 4,00 - 5,30
- Working temperature: 50 - 180 °C
- Operating: atmospheric pressure
- Voltage: 400V - 50 Hz
- Electrical supply: three phase + earth
- Connected power: 33000 – 48000 W
- Electrical protection: II2G IIA T3 to T2
- Vapour condenser: stainless steel – cooled by water in open circuit
- Boiler tilting: by geared motor
- Control board: by circuit board with visual display for all process data, possibility to memorize the parametres, possibility to regulate the heating power
- Automatic loading for one or more consecutive cycles
- Possibility to set a concentration (or dryness) cycle at the end of the distillation process
- Possibility to work for consecutive automatic cycles or in continuous loading
- Oil circuit in forced circulation
- Dimensions: cm 210 x 440 x 404 H
- Weight: Kg. 3532



SERIES INDUSTRIAL “DYNAMIC”

Model DQ 2200 Wx



- Explosion proof version Ex ATEX approved
- For recycling of flammable and not flammable solvents
- Loading capacity: 2200 litres
- Total volume of the boiler: 3920 litres
- Inner diameter of the boiler: 1800 mm
- Processing time: hours 4,00 - 5,30
- Working temperature: 50 - 180 °C
- Operating: atmospheric pressure
- Voltage: 400V - 50 Hz
- Electrical supply: three phase + earth
- Connected power: 48000 W
- Electrical protection: II2G IIA T3 to T2
- Vapour condenser: stainless steel – cooled by water in open circuit
- Boiler tilting: by geared motor
- Control board: by circuit board with visual display for all process data, possibility to memorize the parametres, possibility to regulate the heating power
- Automatic loading for one or more consecutive cycles
- Possibility to set a concentration (or dryness) cycle at the end of the distillation process
- Possibility to work for consecutive automatic cycles or in continuous loading
- Oil circuit in forced circulation
- Dimensions: cm 230 x 600 x 410 H
- Weight: Kg. 4032



OPTIONAL

LIQUID RING VACUUM GROUP

Equipped with Exhaust Gas Condenser, Safety level control on the vacuum tank and Extraction centrifugal Pump



AUTOMATIC UNLOADING OF RESIDUE

The machines can be equipped with automatic bottom valve for residue unloading with barrel sensor (the lack of the barrel prevents the opening of the unloading valve) and level control to be placed on the barrel for residue unloading for stopping the discharging valve in case of overfull.

SAFETY DEVICE FOR NITRO-CELLULOSE

Extinguishing group with photocell which notices the formation of smoke inside the boiler and the condensation unit, opening immediately a water jet inside the boiler, for a previously set time.



FUNCTIONING PRINCIPLE

The units of the series Industrial DYNAMIC allow the recycling and reuse of degreasing and washing solvents. Through a simple distillation process, they separate the contaminants (resins, polymers, pigments, paints, oils, etc.) from the original solvent. The boiling of the solvent is accomplished by a peripheral heating jacket filled with thermal oil, heated by electrical elements. The vapours are then conveyed to a condenser cooled by air or water. The condensed solvent is collected in a tank, for its re-use. The scraper equipped with Rotating blades keeps the polluted stuff in continuous movement, allowing the highest extraction of the solvent, concentration of the residues and avoiding the residues to stick to the boiler's walls and to the bottom. The Microprocessor Control allows the proper use of the plant to treat different kinds of products.

TERMS

Q = DYNAMIC

Distillation units with tilting self-cleaning boiler equipped with scraper having adjustable metallic blades for the highest concentration/drying of the process residues.

An automatic drying cycle allows the residues to be extracted as a powder. Discharge by tilting the plant.

D = Explosion Proof

Distillation units with explosion proof electrical protection, IIC2 IIA T3 to T2, for treating Inflammable and Not Flammable solvents, able to operate in the maximum danger zone (zone 1).

230-400-600-1200-2200

= Loading capacity

Effective loading capacity of the boiler (litres)

Wx = Water condenser

Vapour condenser made of Stainless Steel AISI 304 cooled by water in open circuit, arranged for possible connection to a chiller for cooling the condensation unit in closed circuit.