



Beer clarification



REDA SELF-CLEANING CLARIFIERS

A modern and effective solution for a fast solids separation of beer



Operating principles

REDA clarifier is designed with the purpose of beer clarification by separating and ejecting the heavier solids contained therein: this process comes in continuous on a single pass, even with high flows.

Standard design of REDA clarifier is its large operational surface and the capability of automatic ejection of solids, with a very high separation efficiency.

The special design of rotating bowl and the special pressure seals, provides the best performances in clarification even in presence of CO₂, without gas or aromas losses.

The high centrifugal force applied in this technology allows to collect the solids into a "sludges chamber" placed at the periphery of the rotating bowl: from here the solids are periodically discharged at presetted intervals by means of an hydraulic device. Times of discharges and intervals are programmable by the operator depending on the characteristics of

the product.

Thanks to its automated control the process of clarification comes in continuous, without the need of intermediate stops for cleanings, with production cycles even of several days.

All parts in contact with the product are made of stainless steel, with base and motor fully protected with stainless steel sheet.

A version supplied with turbidity sensor is also available. Its purpose is to detects the level of turbidity in the product and by consequence it can control the automatic discharge of the separator. This device avoids clogging of cartridge filters that may be used as final filtration stage.

The separator is supplied with a liquid ring seal that guarantees an hermetic working against oxidation and gas losses (isobaric version).

Advantages compared to traditional filtration

- By immediately separating of solids, it is possible to reduce successive filtration treatments with the consequence of product losses and/or extremely long decanting times.
- The clarification process combined with final cartridge filtration stage allows to avoid diatomite, carton or tangential filters that have operative costs and application difficulties well known.
- The processing is in continuous type, then with a great labor saving. Clarification is achieved on a single pass, without recirculation and without any risk of oxidation.
- Nessuna perdita di CO₂ è dovuta all'utilizzo della centrifuga.
- No CO₂ losses during employing of this technique.

RE30BR

RE50BR





Applications

- Beer clarification at end of fermentation
- Raw beer clarification (green beer)
- In-line clarification with cartridge filtration module
- Yeast elimination

Advantages

- Higher beer yield (no losses as filtration)
- Phisical clarification (without additives)
- Reduction of decanting operations
- No oxidations
- Improvement of organoleptic properties
- Functionning with high pressure device

Accessories included

- Inverter for motor control
- Manometer
- Flow rate and back pressure regulation taps
- Lighthed sight glasses at the inlet and outlet
- Magnetic flowmeter
- Sampling taps
- Vibrometer
- Electric control board in stainlees steel
- Stainless steel skid
- Service tools and first spare parts

Accessories on demand

- In-line turbiditimeter
- Feeding pump





RE85BR

RE130BR



FLOW RATES

MOD.	CLARIFICATION BEFORE FINAL CARTRIDGE CLARIFICATION	CLARIFICATION BEFORE FINAL DIATOMITE CLARIFICATION	CLARIFICATION FOR HIGH FERMENTATION
RE30BR	3,000-4,000	4,000-6,000	5,000-7,000
RE50BR	5,000-6,000	6,000-9,000	7,000-12,000
RE85BR	7,000-12,000	15,000-18,000	18,000-20,000
RE130BR	15,000-20,000	20,000-25,000	25,000-30,000

Notes:

- Flow rates are expressed in liters/hour.
- The data for diatomite filtration relate to an inlet of about 20 million cells/ml and an output <0.5 million cells/ml.

TECHNICAL DATA

Mod.	length	width	height	Motor kW	Weight kg.
RE30BR	1938	1170	1585	7,5 / 9,0	850
RE50BR	2092	1403	1685	15,0	1100
RE85BR	2489	1773	1908	18,5	1700
RE130BR	1747	1174	1786	30,0	2350

Notes

- The dimensions are reported in millimeters and refer to models mounted on skid.
- Only RE130BR is installed on ground and not on skid.

