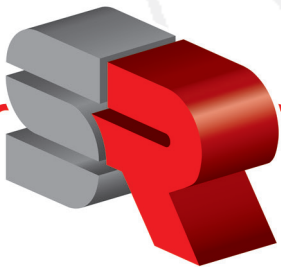


# Sugarcane Ethanol Distillation



**SALVATORE  
ROBUSCHI  
POMPE PARMA**

**RC - General Industry and Power Generation**

## Biofuel Production

Biofuel is a fuel that is produced through biological processes and can be derived directly from plants, or indirectly from agricultural, commercial, domestic, and/or industrial wastes

Bioethanol is a natural product and is manufactured by the fermentation of plants containing sugar and starch: bioethanol is produced by distillation from crops such as wheat, corn, sugar cane and sugar beet.

Biodiesel is a liquid biofuel obtained by chemical processes from vegetable oils or animal fats and an alcohol that can be used in diesel engines.



## Application : Sugarcane Ethanol Distillation



PUMP: RCB 125-25CR 4C30 E600 3  
PERFORMANCE: Flow 190 m<sup>3</sup>/h – head 14.8 m  
LIQUID: raw sugarcane

More than 20 pumps are installed in ethanol distillation plant.

Vortex impeller pumps are used for sugarcane and yeast and closed impeller pumps are used for ethanol. Sugarcane ethanol is an alcohol-based fuel produced by the fermentation of sugarcane juice and molasses. Cane are cut and milled with water; this produces a juice with 10-15% solids from which the sucrose is extracted. Sugarcane contains the following: water (73-76%), soluble solids (10-16%), and dry fiber or bagasse (11-16%).



## RC SERIES



Impeller type: **vortex.**

Discharge sizes: **from DN 32 to DN 250.**

Maximum working pressure: **10 bar**

Flow rate: **up to 800 m<sup>3</sup> /hr.**

Differential head: **up to 60 m.**

Large free passage clearance up to 150 mm due to the completely recessed impeller.

Heavy duty shaft and bearings.

