

## Dehumidifier DU series

### EQUIPMENT TYPE

The dehumidifier is a plant to reduce the level of humidity in the air or in another gas.

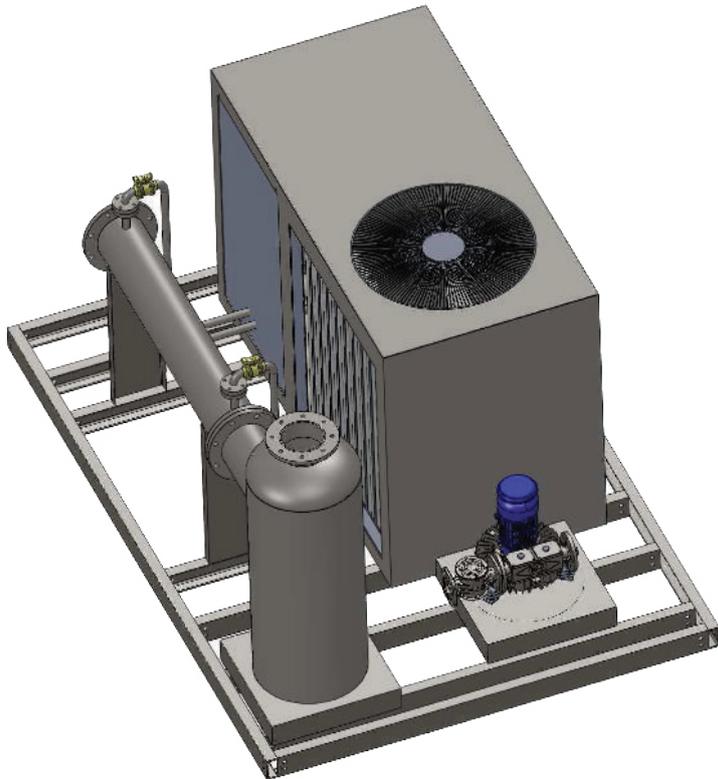
### APPLICATION

Idificatori serie **DU** sono utilizzati negli impianti dove è necessario ridurre l'umidità nella corrente gassosa, come ad esempio prima di mandare l'aria ad un filtro a carbone o prima di mandare il biogas al cogeneratore.

### OPERATING PRINCIPLE

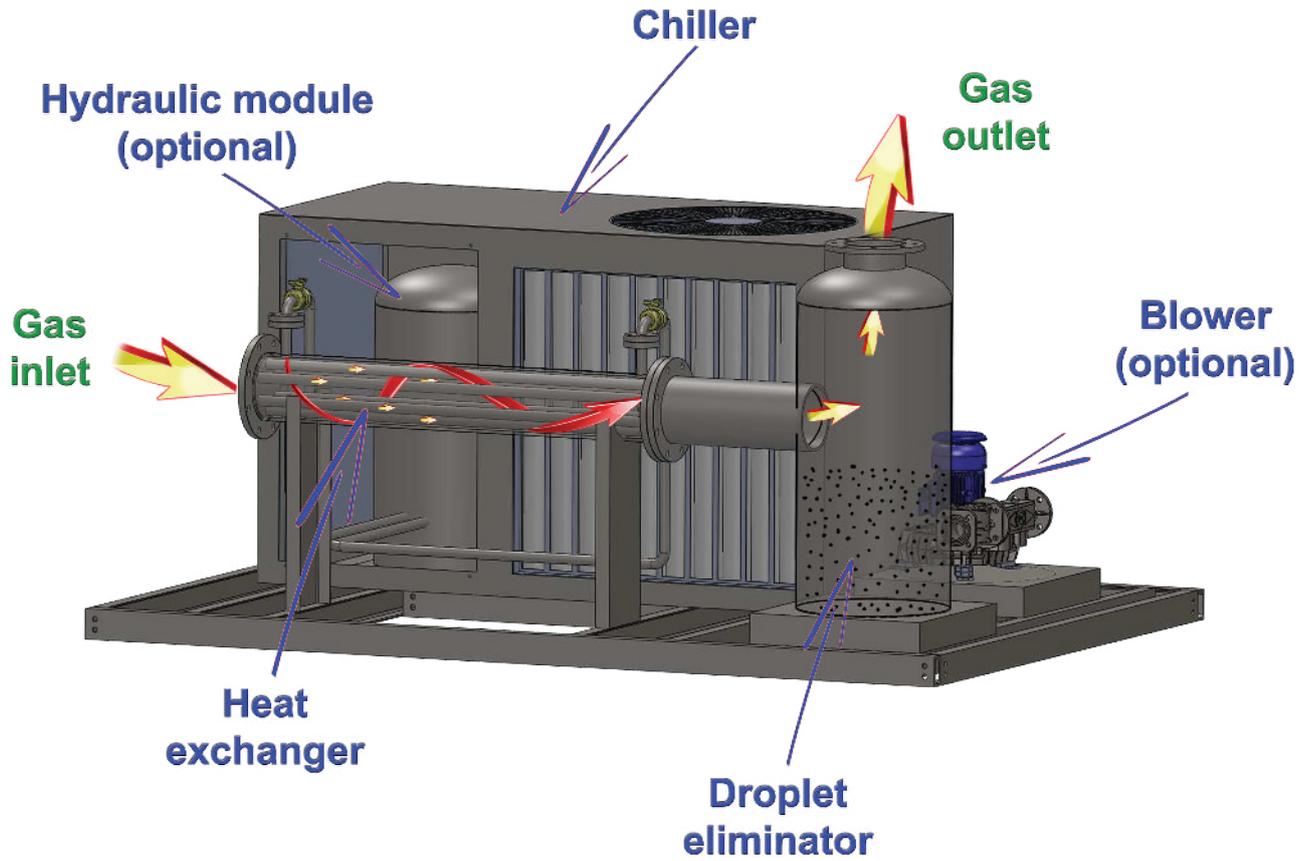
Water vapour and condensate present in the biogas may eventually damage the internal parts of the power generation engine (pistons, injectors, valves, etc ...).

To resolve this problem we design and manufacture the dehumidifier DU series, it performs many functions: remove all liquid droplets, reduce the absolute humidity and adjust the gas temperature to the injection requirements. We performed a very compact Skid, essentially composed of a heat exchanger and chiller group, the refrigerant liquid is usually water with glycol. All of the system components and piping is skid mounted for an easy transport and installation.



### MAIN ADVANTAGES

- Low pressure drop
- Easy maintenance
- Low cost
- Automatic condensate drainage
- Compact mounted-frame design



Gas flow m3/h	from : 10	to oltre: 2.000
Dimensions	As required by the customer.	
Heat exchanger	Costruito sulla base del gas da trattare.	
Refrigerant	Water recirculation loop Glycol.	

## CONSTRUCTION

The dehumidifier uses an air cooler and water cooled heat exchanger water / biogas. The two components are connected by a water recirculation loop Glycol.

Water separator and heat exchanger are made in Stainless steel 304, the skid is made in galvanised steel.

## OPTIONAL

- Skid made in Stainless steel
- Heat exchanger made in Stainless steel AISI 3016L
- Electrical panel
- Blower