

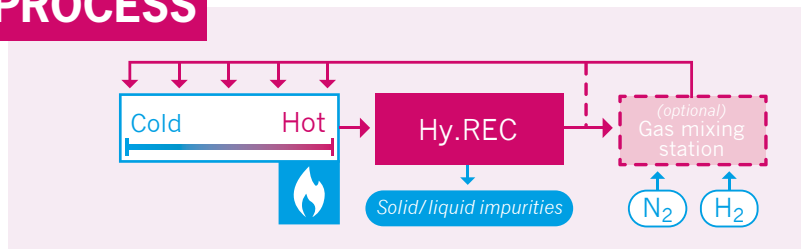
# PROCESS GAS RECOVERY SYSTEM

Economical recovery of protective atmospheres

## Industrial gas recycling system

HyGear has designed the Hy.REC, a containerized solution, to significantly reduce gas consumption in the float glass production process while simultaneously improving the quality of the glass product. This innovative system often leads to a rapid return on investment through substantial gas procurement savings, and with the potential for higher gas prices and low carbon intensity subsidies, ROI can be achieved even sooner. Furthermore, the installation of the Hy.REC can be seamlessly integrated into the production process while it's still operational, minimizing disruptions.

### PROCESS



### KEY BENEFITS

- Reduced environmental impact and gas consumption resulting in significant cost reduction
- Improved glass product quality
- High return on investment (ROI)
- Improved reliability of gas supply
- Integration with gas mixing station
- Autonomous operation
- Easy integration with various types of float glass production lines

# SPECIFICATIONS

## MODEL

## Hy.REC

### INPUT

Flow  
Temperature  
Gas mixture

up to 700 Nm<sup>3</sup>/hr (435 SFCM)  
up to 450 °C  
1 - 10% Hydrogen in Nitrogen

### DIMENSION

Size  
Weight

40 ft  
23,000 kg

## OUTPUT

Recovery  
Oxygen  
Hydrogen sulfide  
Pressure  
Temperature  
Dewpoint

Min. 99%  
< 5 ppmv  
< 1 ppmv  
0.1 - 0.4 bar(g)  
Ambient  
< - 58 °C

## CONSUMPTION

Electricity  
max. 38.5 kW

IF YOU REQUIRE OTHER SPECIFICATIONS, CONTACT US TO ASSIST YOU WITH THE MOST OPTIMAL SOLUTION.

