

## Introduction

Veneer drying is an important process before plywood manufacturing. Controlling veneer's moisture content to Optimized value for each wood material is a key to make good adhesion characteristics at next plywood manufacturing process. For this purpose, humidity of the air in dryer is controlled and moisture content of veneer is adjusted.

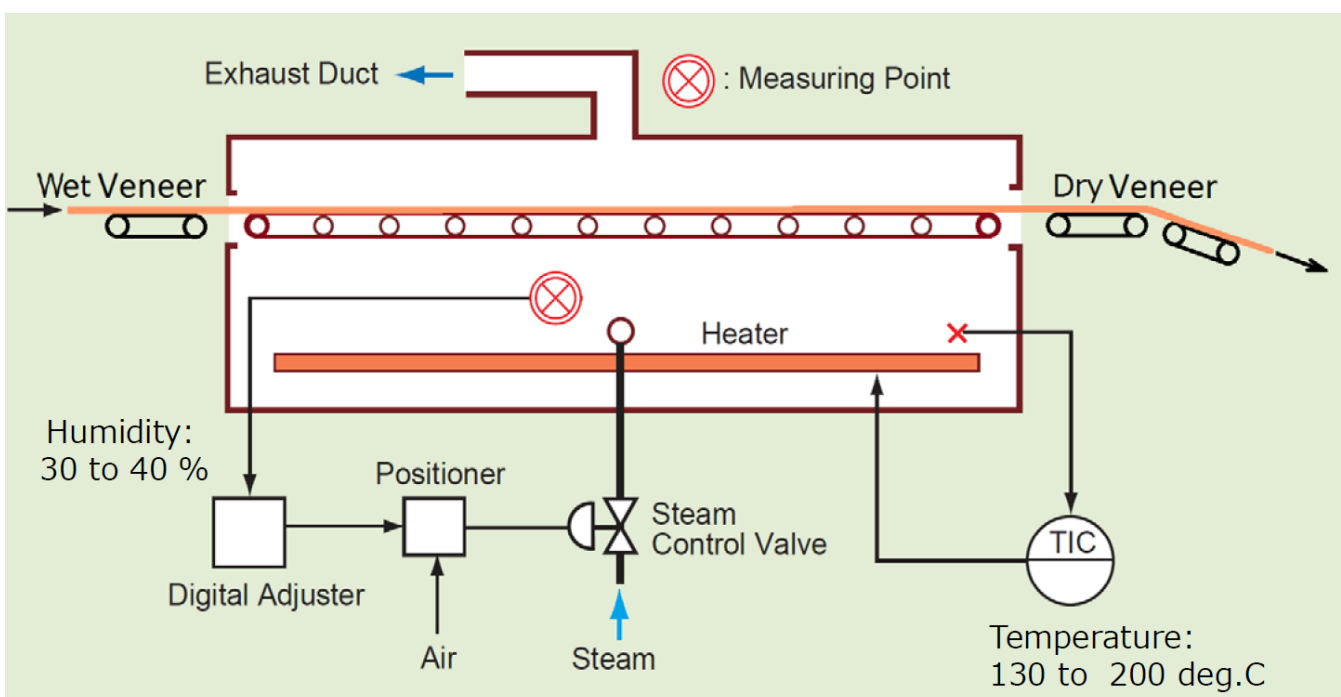
## Expected Benefits

- Increase Energy Efficiency of Veneer Dryer Process
- Reduce Operating Cost
- Improve Yield of Veneer for Plywood Manufacturing
- Improve Quality of Veneer for Plywood Manufacturing

## Process Overview

In order to control veneer's moisture content to optimized value from 6 to 20% for each wood material, humidity of the air in the dryer is measured and controlled from 30 to 40%. Temperature is controlled from 130 to 200 deg. C.

As the results, dry veneer with optimized moisture content is manufactured.



## Solution Details

### Process conditions

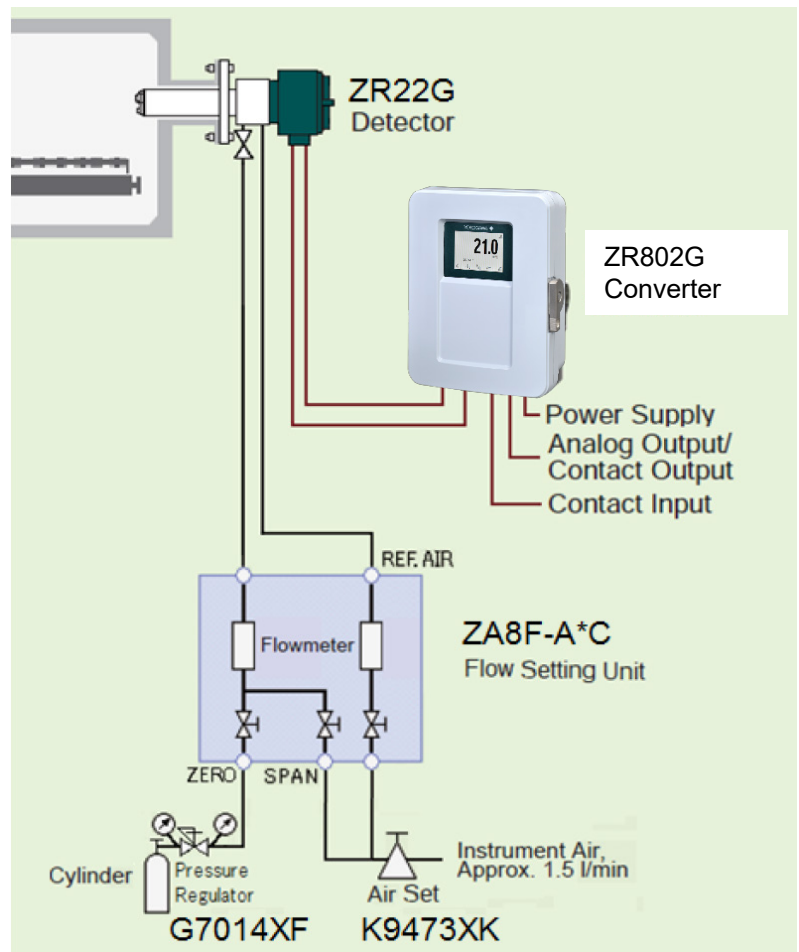
Humidity : 30 to 40 %  
Temperature: 130 to 200 °C  
Pressure: 20 to 40 mmH<sub>2</sub>O  
Dust: Trace wood dust

### Utilities

Rated voltage: 100 to 240 V AC  
Rated frequency: 50/60 Hz  
Power consumption: 330 VA  
(Max. 800 VA)  
Instrument air: 300 to 700 kPa

### Measurement system

Detector: ZR22G-040-S-C-E-T-T-E-A /CV  
Converter: ZR802G-□-□-N-N /□  
Flow setting unit: ZA8F-A\*C  
Pressure regulator: G7013XF or G7014XF  
Air set: K9473XK



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