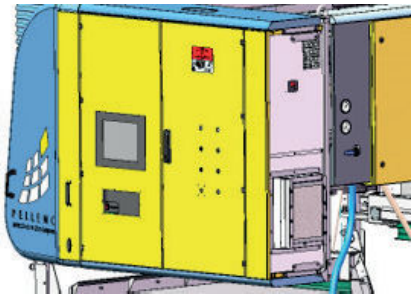
Vortex kit G05, G07 & G09

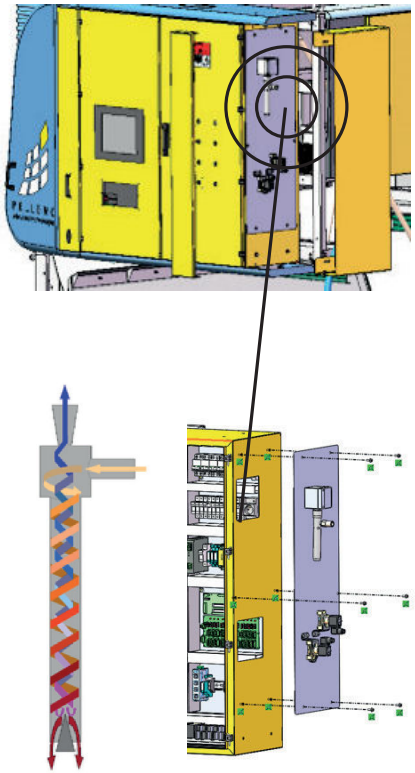
PRESENTATION

This system, based on Mistral+ developments, is installed in place of the Mistral G05 , G07 and G09 air conditioning.
It manages the temperature regulation of the electrical cabinet and the detection box by a Vortex system, *a system connected to the air network of the optical sorter.*

BEFORE



AFTER



Benefits

It requires no maintenance and increases reliability.
According to the Pellenc ST study, a site operating in 1 shift amortizes the cost of this system within 2 years.

- The calculation takes into account the following elements : (average calculated over the Pellenc World park)
- MO of maintenance (based on the manual: 2 min/d for 5d/ Week over 52 Weeks)
- Consumption of a stainless steel filter /year /machine
- Annual visit of the refrigeration engineer (wich is not necessary anymore after installing this upgrade)
- Estimated production loss for air conditioner replacement
- Replacement of an air conditioner every 3 years

Prerequisite

- **Air network:**

Each request for temperature control generated by the system engenders a maximum air consumption of 70m3/h for a variable period of 1 to 6 minutes (period depending on the ambient temperature). A case-by-case study can be carried out.
The air quality must comply with the standard: ISO 8573.1
Mistral G05, G07 and G09: minimum required class:

- Pressure : 8 bars
- Filtration: 5 µm
- Dew point: -40°C to +3°C (-40°F to +37°F) depending on site temperature conditions
- Maximum air lubrication: 0.1 mg/m3
- Required air flow rate see above

Installation time on site

4 hours

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