# **Totally engineered** instrument air package for offshore

Oil free compressors and heatless dryers

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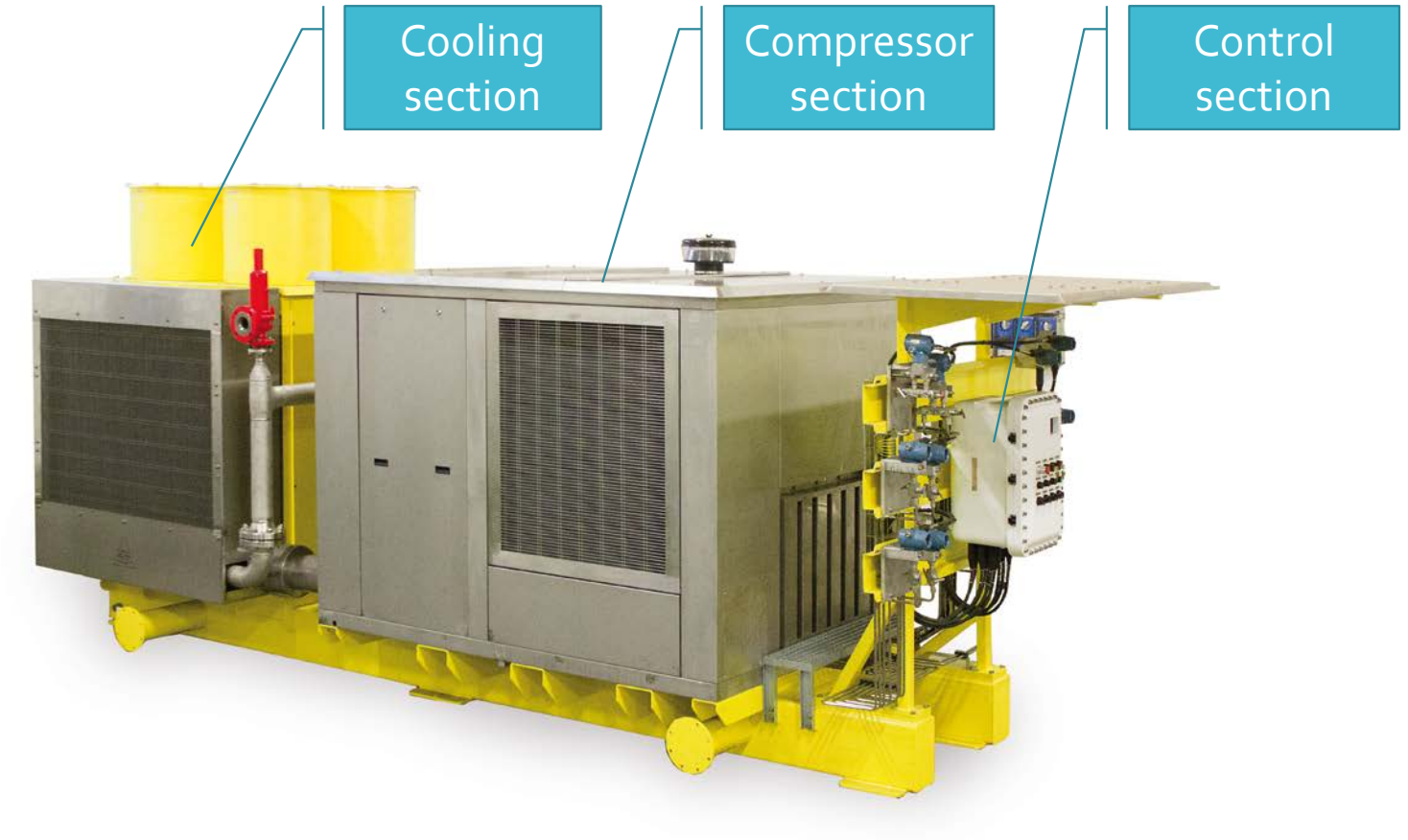
# THE DETAIL MAKE THE DIFFERENCE

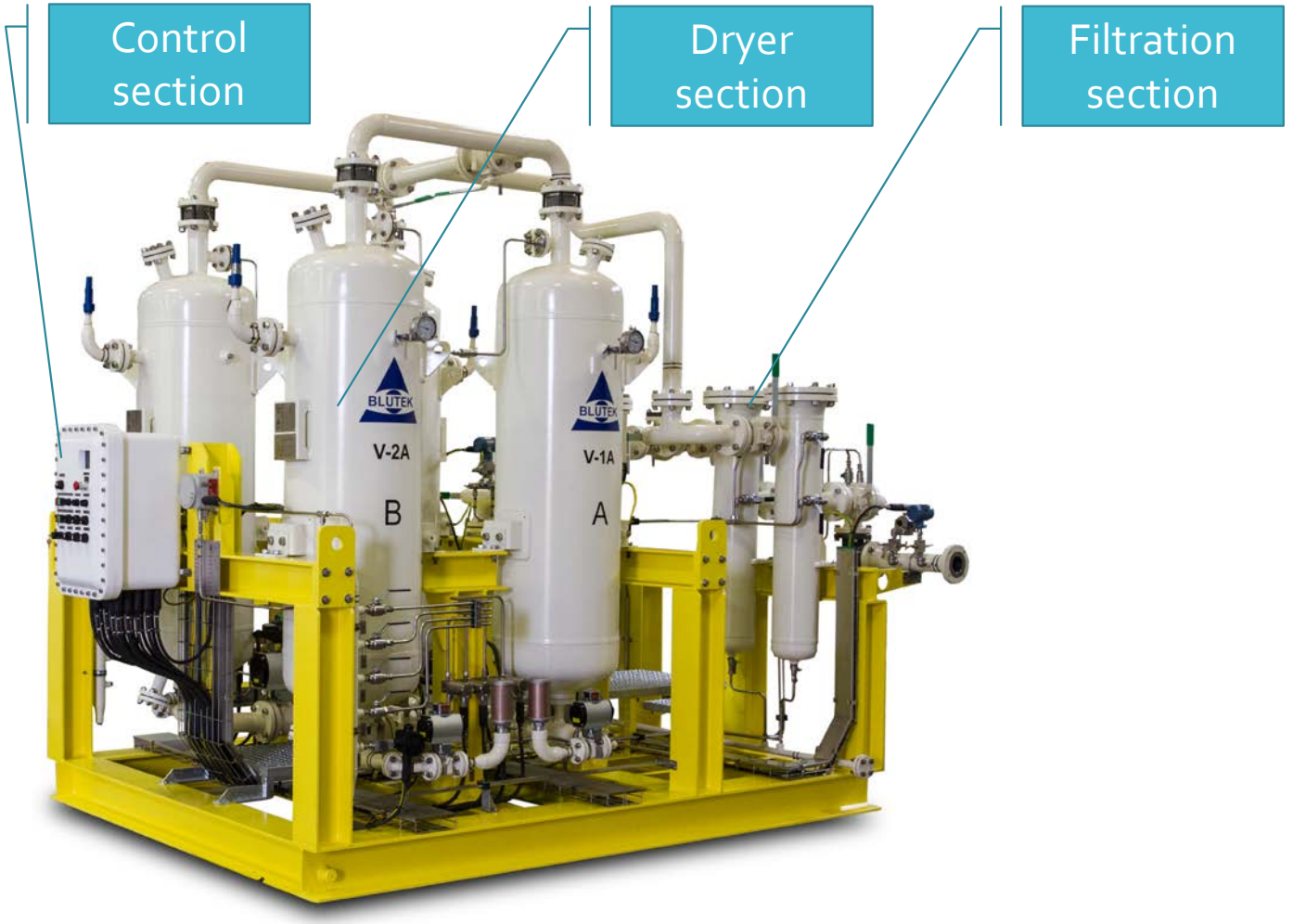
# DESIGNED FOR THE SITE

COMPRESSOR AND DRYER LAYOUT

The compressor is designed for continuous running considering the site conditions and the service requirement



The dryer is designed for the max. water content and max inlet temperature.The dryer is fully redundant



# COMPONENTS STANDARDIZATION

FOR MAKING THE SERVICE EASY AND REDUCING THE VALUE OF THE CAPITAL PARTS STOCK

Instruments are process type and same models  for compressor and dryer

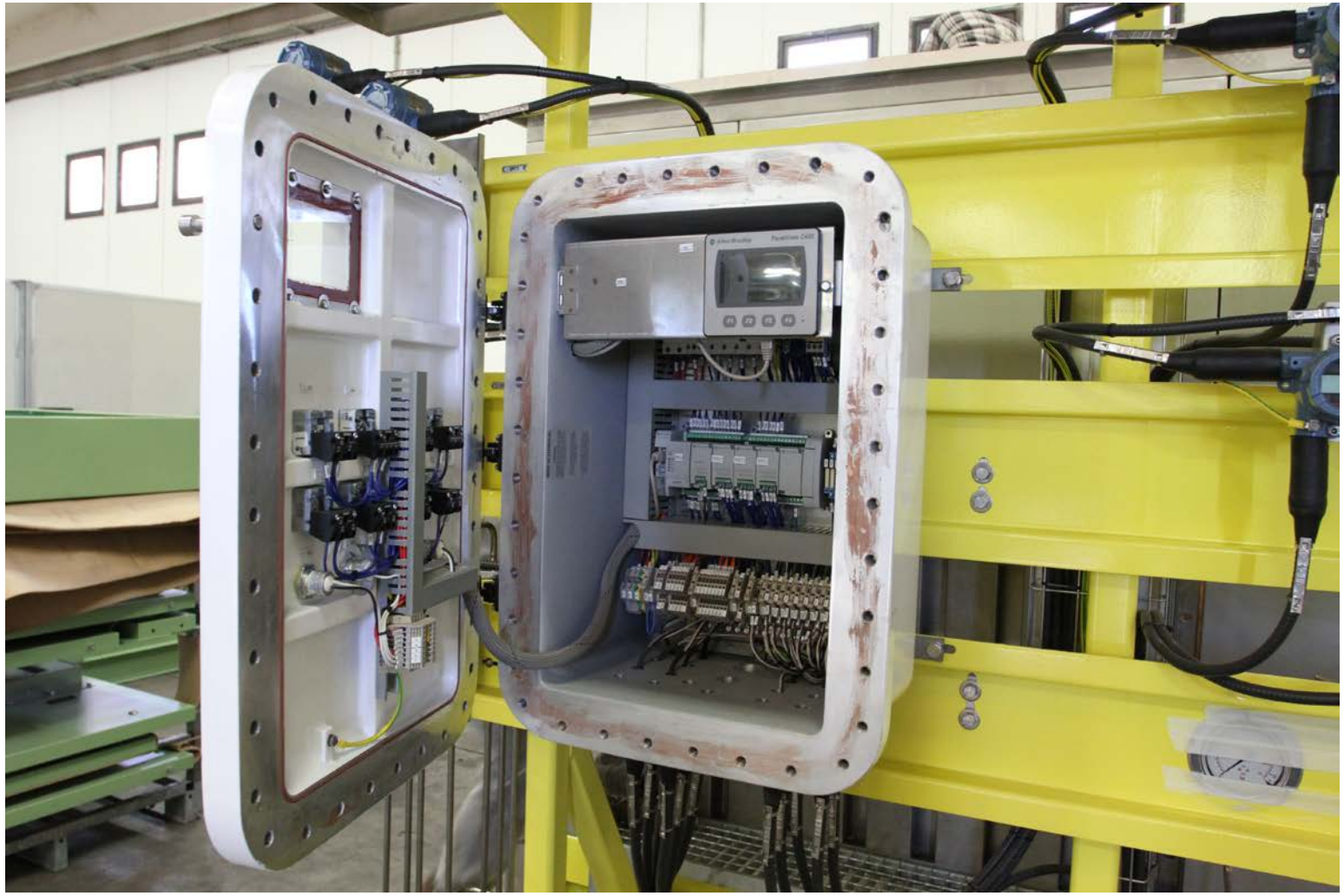
# Control and automation philosophy and hardware materials (PLC) are the same for compressor and dryer

# COMPLIANCE WITH INTERNATIONAL RULES

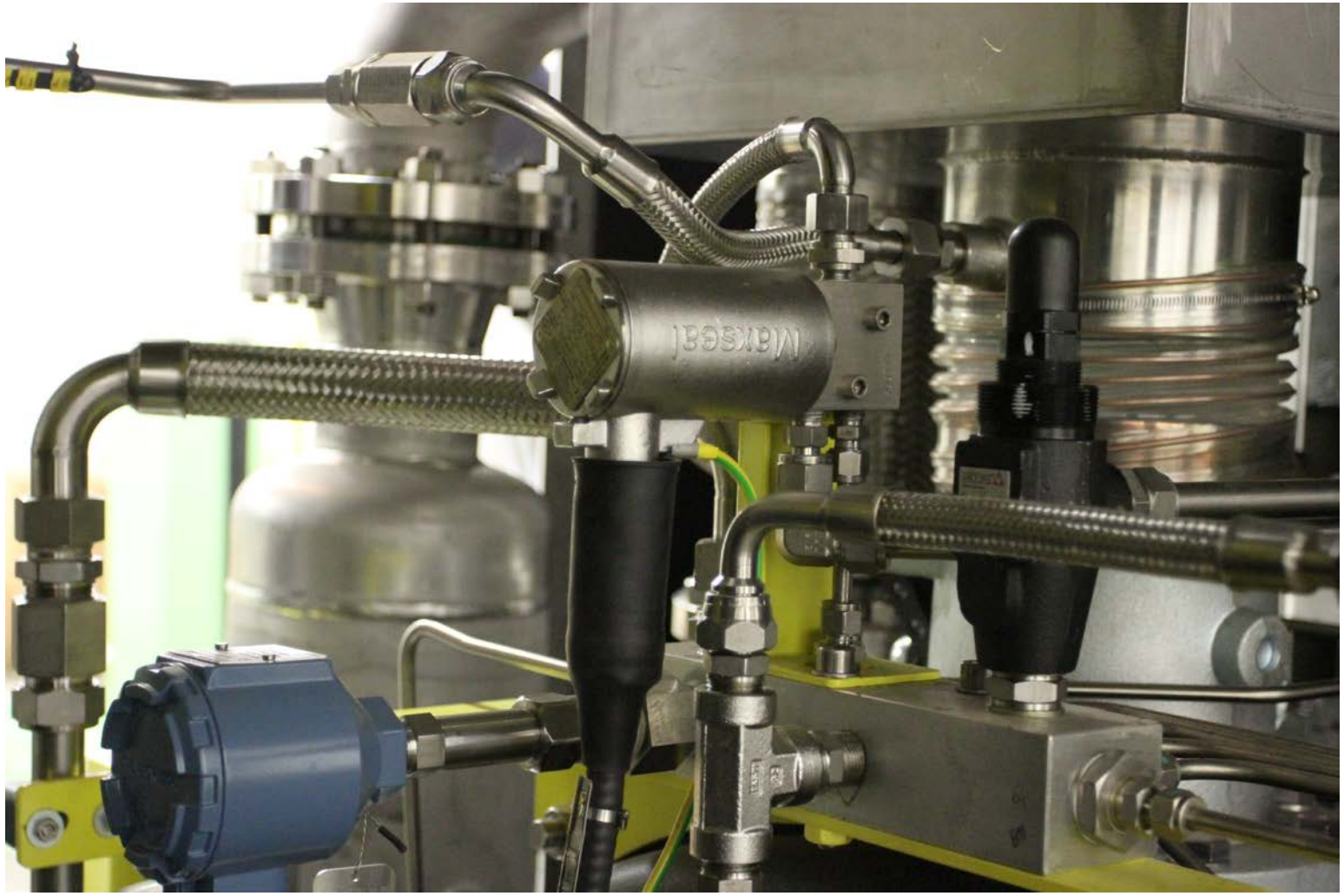
SAFETY FIRST

# Main motor and cooling fan motor certified for Class 1 Div.1

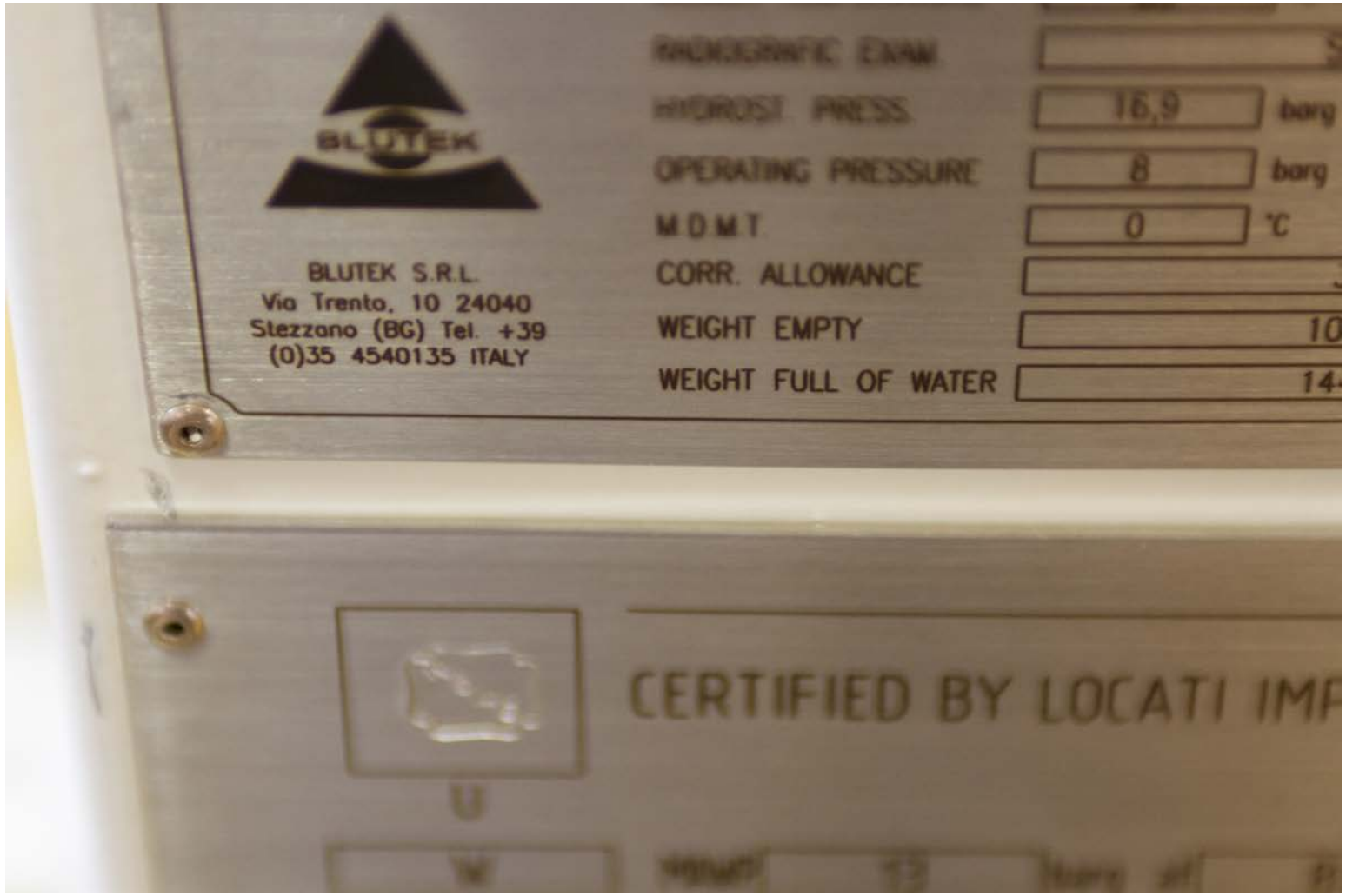
# Control panel Certified for Class 1 Div. 1 explosion proof



# Solenoid valve certified for Class 1 Div.1



# Pressure vessels in compliance with ASME VIII div. 1 and U stamped



Safety valve sized as per API520 and manufactured as per API526

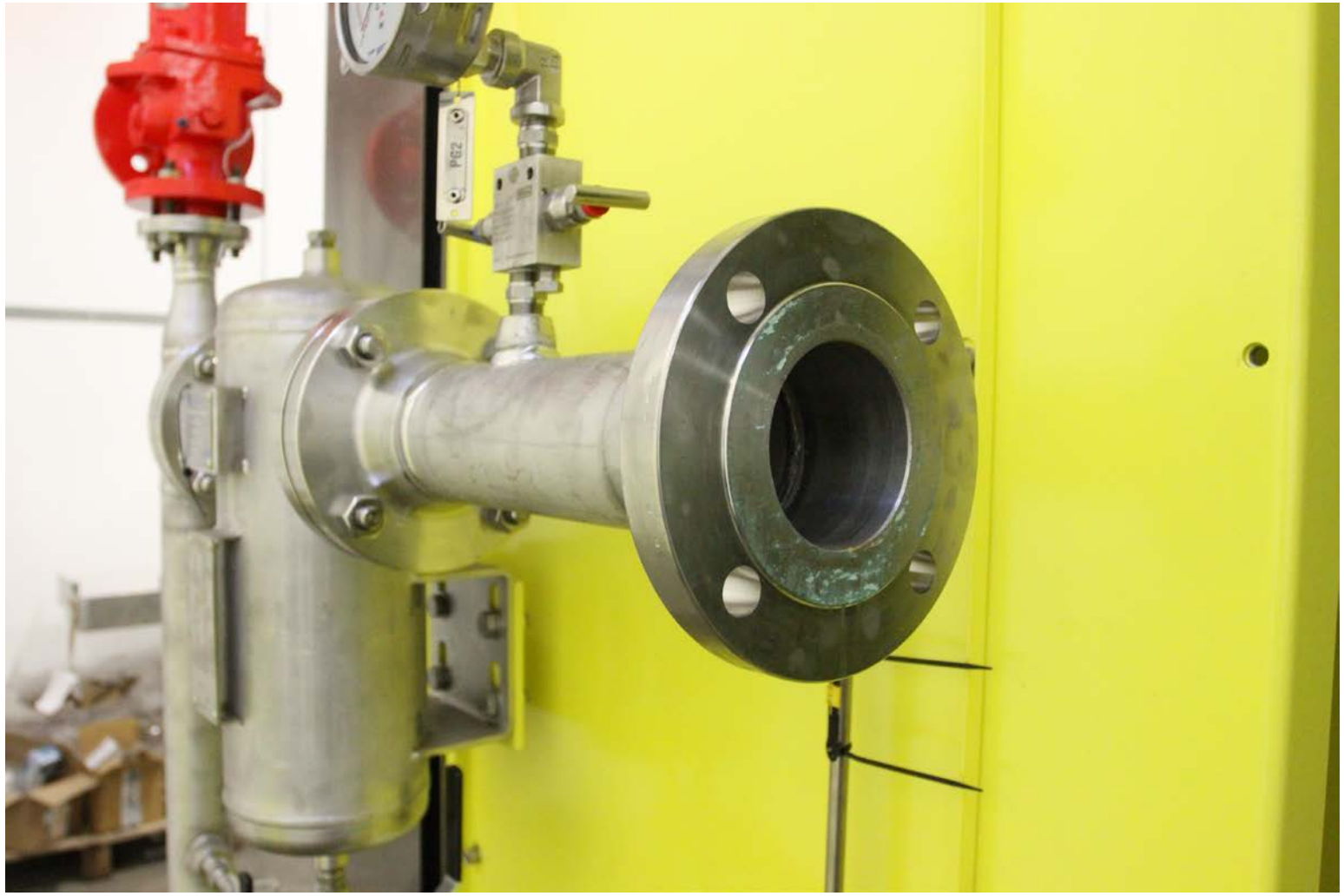
# ENGINEERING DETAIL

MECHANICAL AND MATERIAL

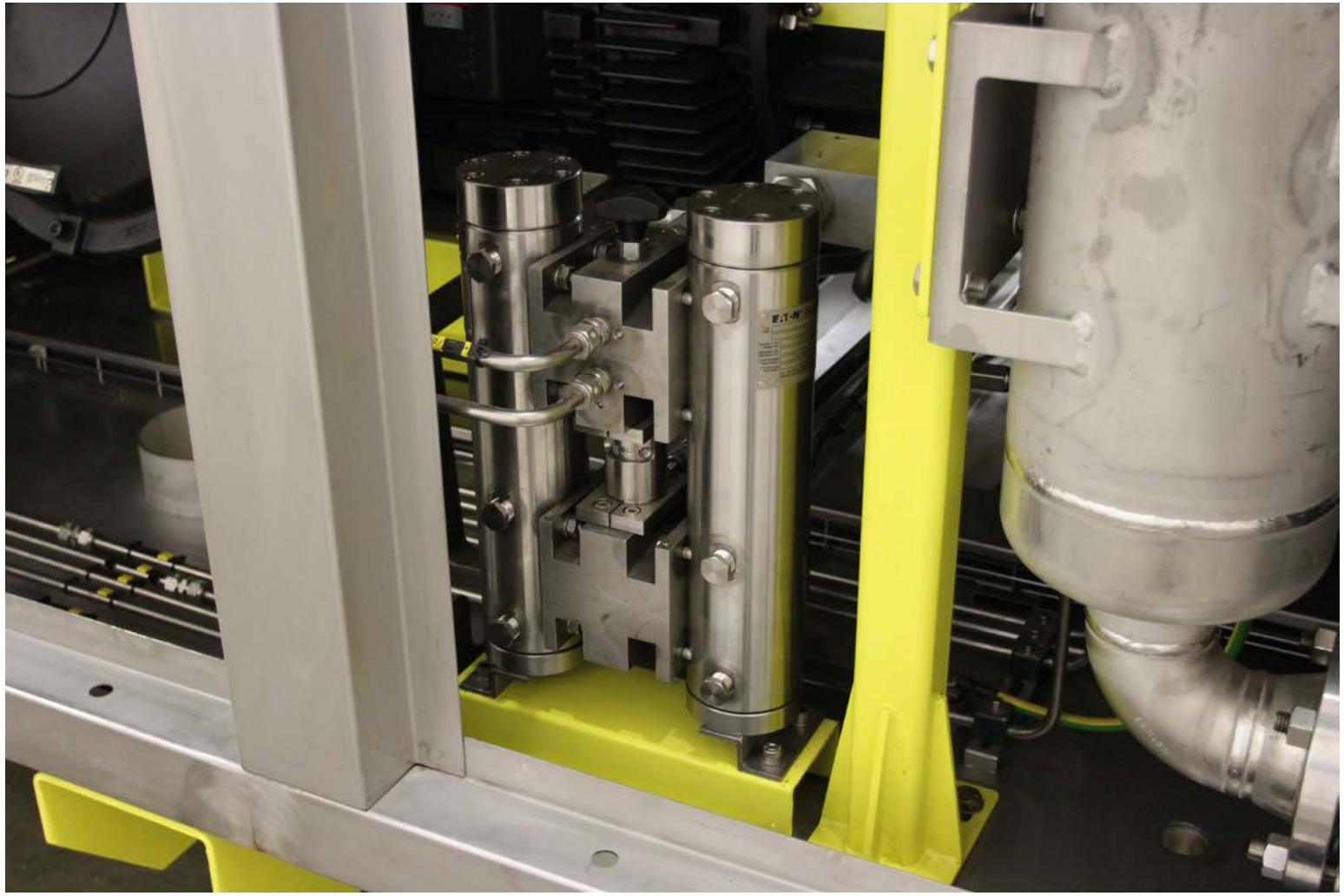
Air piping made by SS316L butt welded , with 100% HT and assembled with SS316L stud bolts and nuts .Spiral wound gasket made by SS316L

Intercooler and after cooler made by SS316L tube and marine type aluminium fins

# Interstage and final moisture separator made by SS316L

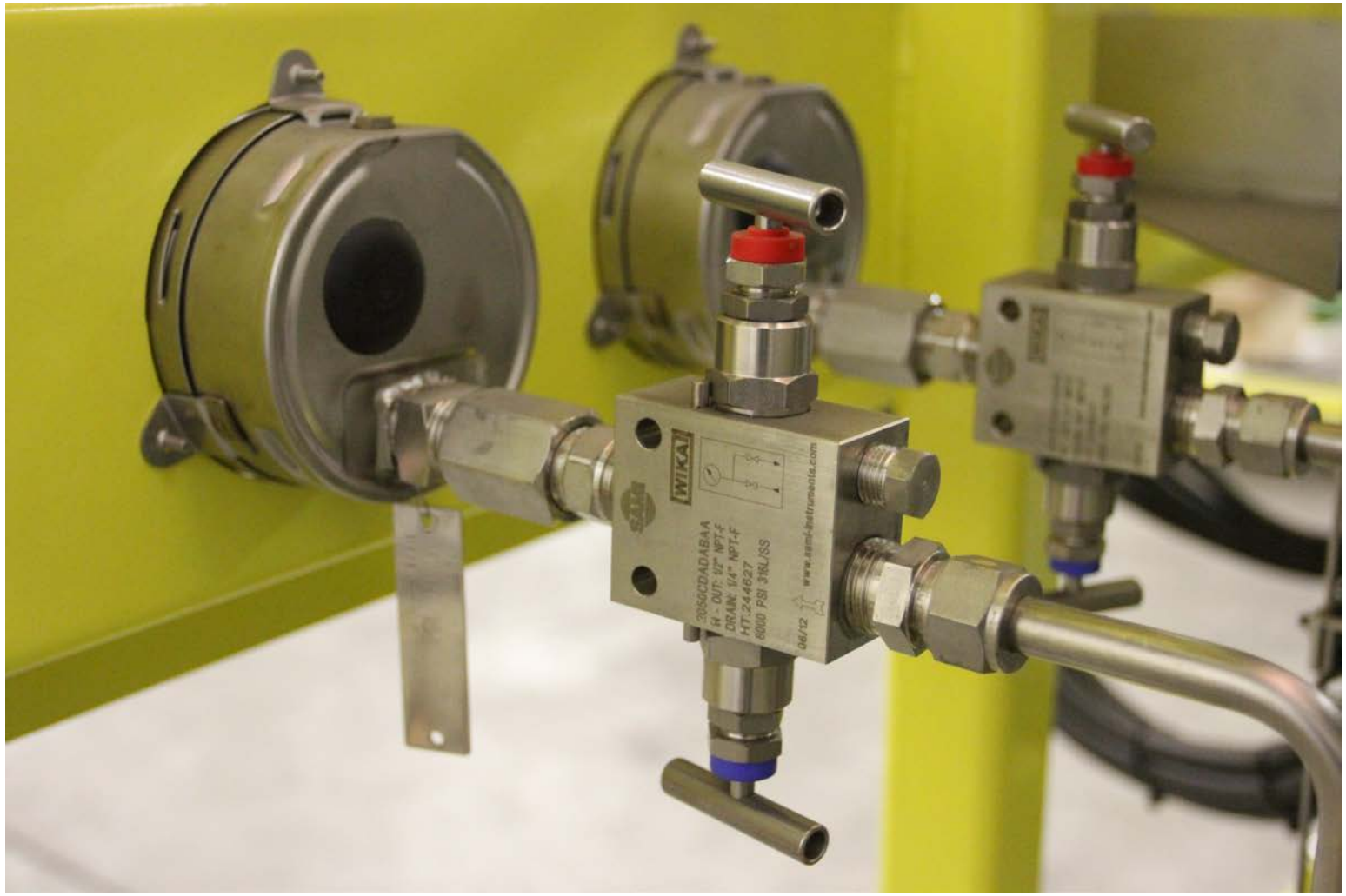


# Oil piping, oil filter and fittings made by SS316L



# Canopy made by SS316L

# Instruments, manifolds, fittings and tubing made by SS316L

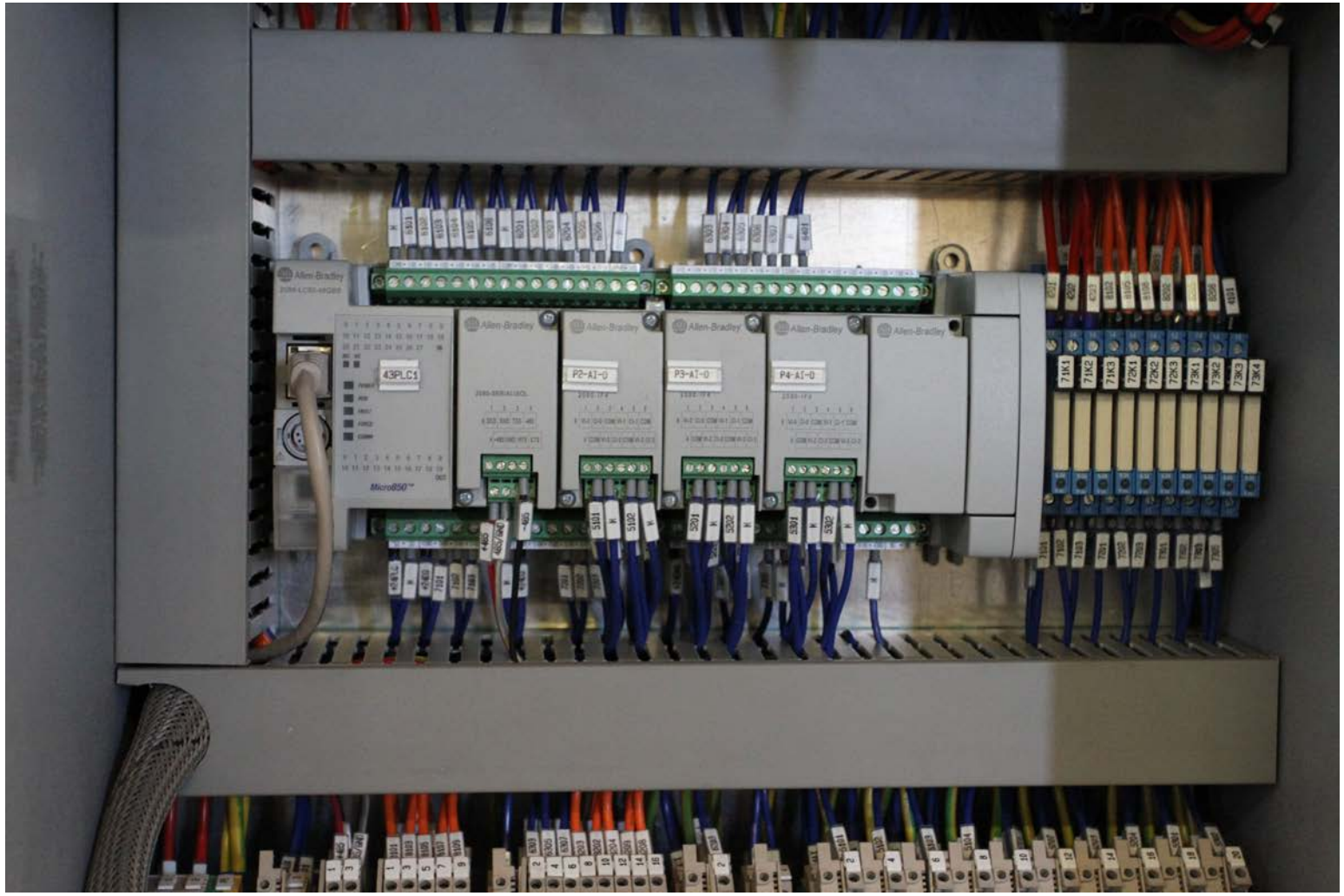


# ENGINEERING DETAIL

ELECTRICAL

Clean and simple cable layout routed on SS316L wire cable tray with cover.

Clean internal layout of the control box with clearly numbered wire and items

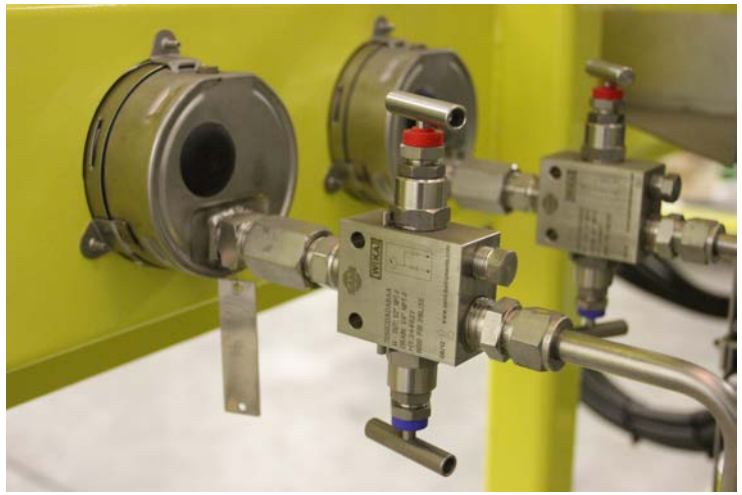


MHCL cable for control and instruments connections fixed with SS316L sealed cable glandes protected by his shroud.

# ENGINEERING DETAIL

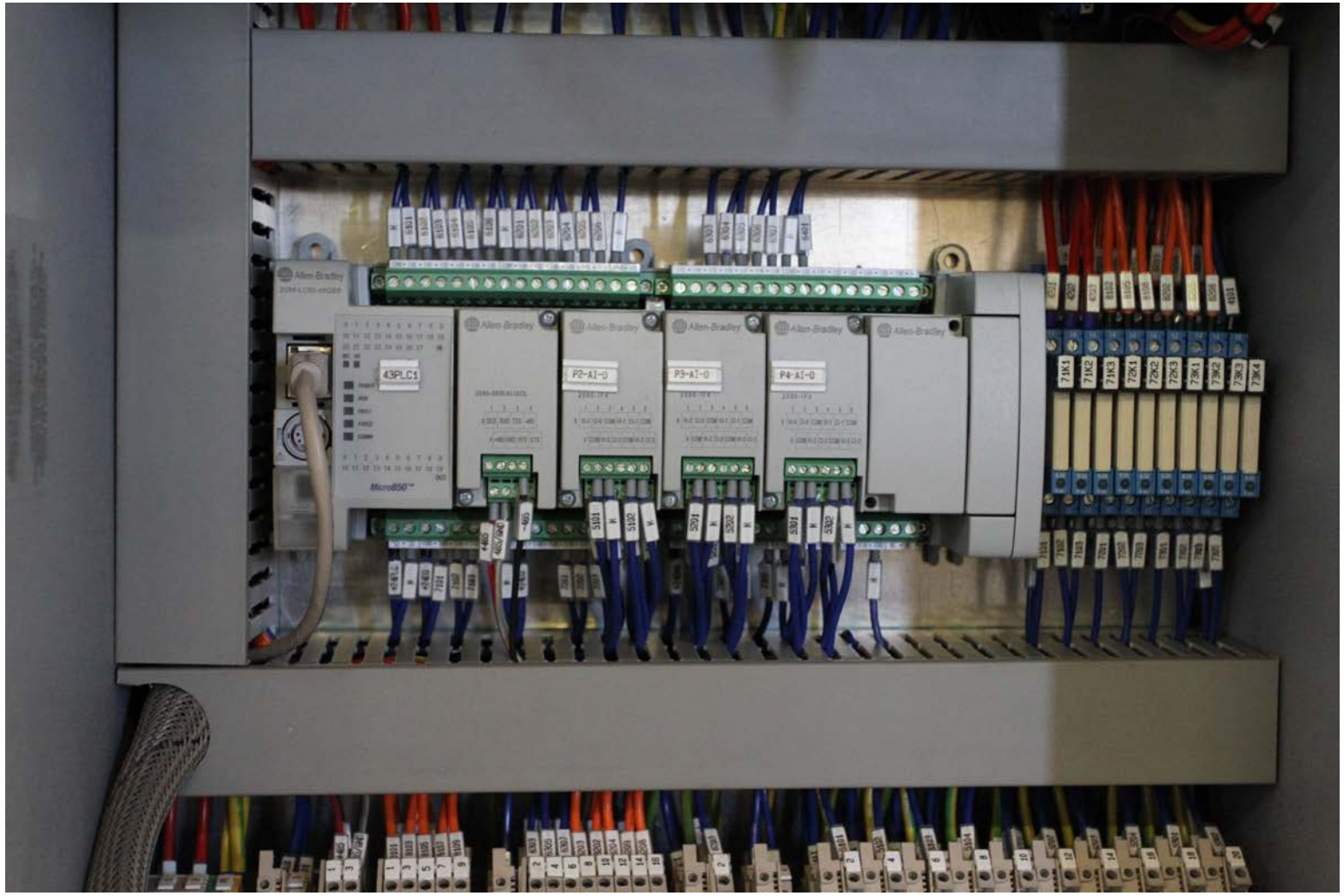
CONTROL AND AUTOMATION

Process type pressure transmitter by Emerson Rosemont provided with SS316L isolation and venting manifolds

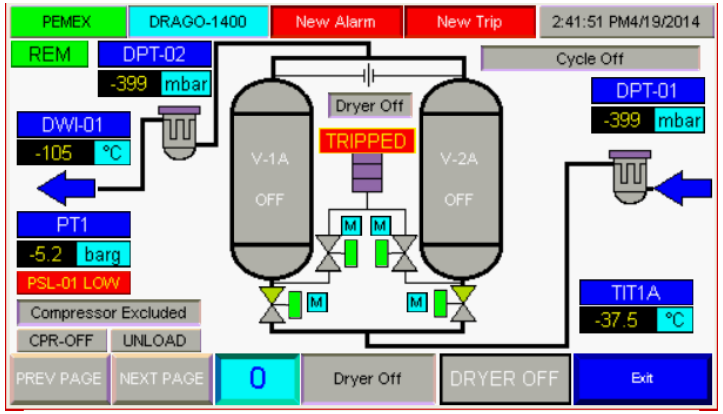
Temperature transmitter made by Emerson Rosemount installed on SS316L termowell

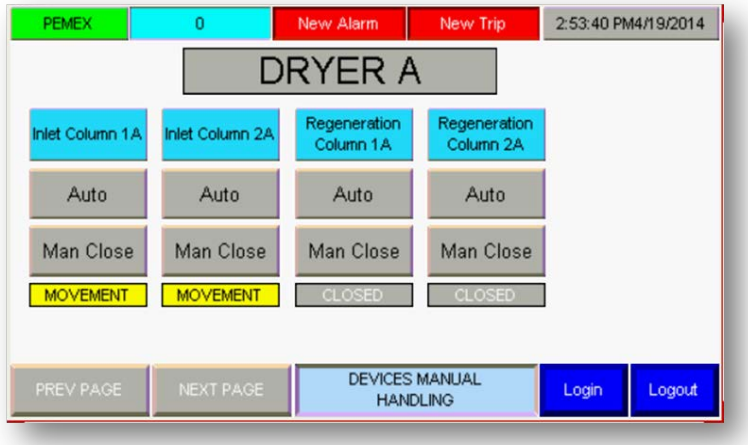
# Allen Bradley Micro Logik 850 PLC for control and safe guard of the compressor and dryer



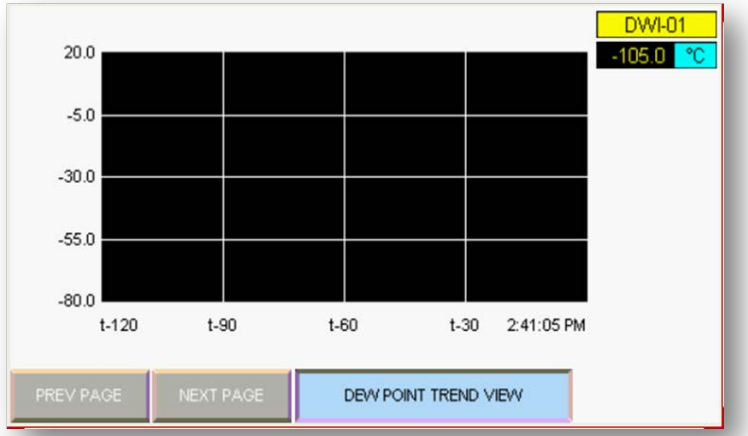
Allen Bradley graphical HMI actuated by the external Ex_d Killark push button.

# Dedicated software for the control and safeguard of the package with alarm , fault and trend record







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# Detailed and complete set of documentation is supplied during the detailed engineering and at the end of the project