Scrubber process and control
Scrubber Power & control Architecture

- DriveATV61/ATVProcess from 0.75kW up to 90kW
- Pre-injection pumps
- WTU pump

- Dedicated cabinets
  - NaOH
dosing
  - injection
  - Analysing
  - Temperature & pressure

- Air circuit breaker
- MCCB

- Power distr.Cabinet

- Control syst.Cabinet

- Control cabinet
  - HMI 22-24"
  - Datalogger 6180XIO as option
  - Auto/Manual control+ run/fault indications by Ø22 switches/lamps

- Large range PLC integrated of Distributed I/O boards
- PLC with safety or redundancy
- Analog 4-20mA or digital or network
- Ethernet to Ships Satellite Service Line RS422 to Ships IAS

- Sea water pump
- Feed pump
- Exhaust fan
- Recirculation pump
List of switchboards / cabinets

- Power cabinet
- One cabinet per VSD
- Dedicated cabinets
  - NaOH
  - Dosing
  - Injection
  - Analyzing
  - Temperature & pressure

Scrubber electrical distribution architecture
Flexible control system architecture

Unified operator interface

- Operator Station
- System Servers
- Engineering Station
- Historian
- Data logger

Openness to the IT level

- IAS
- EMS

Premium package options
Available upon request

- Information management through Vijeo Historian
- PLC redundancy
- Advanced HMI features
  - Dedicated application development for touch screen terminals (Magelis HMI)
  - Access control using biometric switch
- Integration of dedicated sensors and instruments through CAPP
- Interface with gas analyzer system

Starter package

- Standalone Controller
- Distributed IO
- Valves / sensors
- Drives / Motor Starters

OR

Premium package

- Hot-Standby Controller
- Valves / sensors

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