



Atlas Copco



Product Update

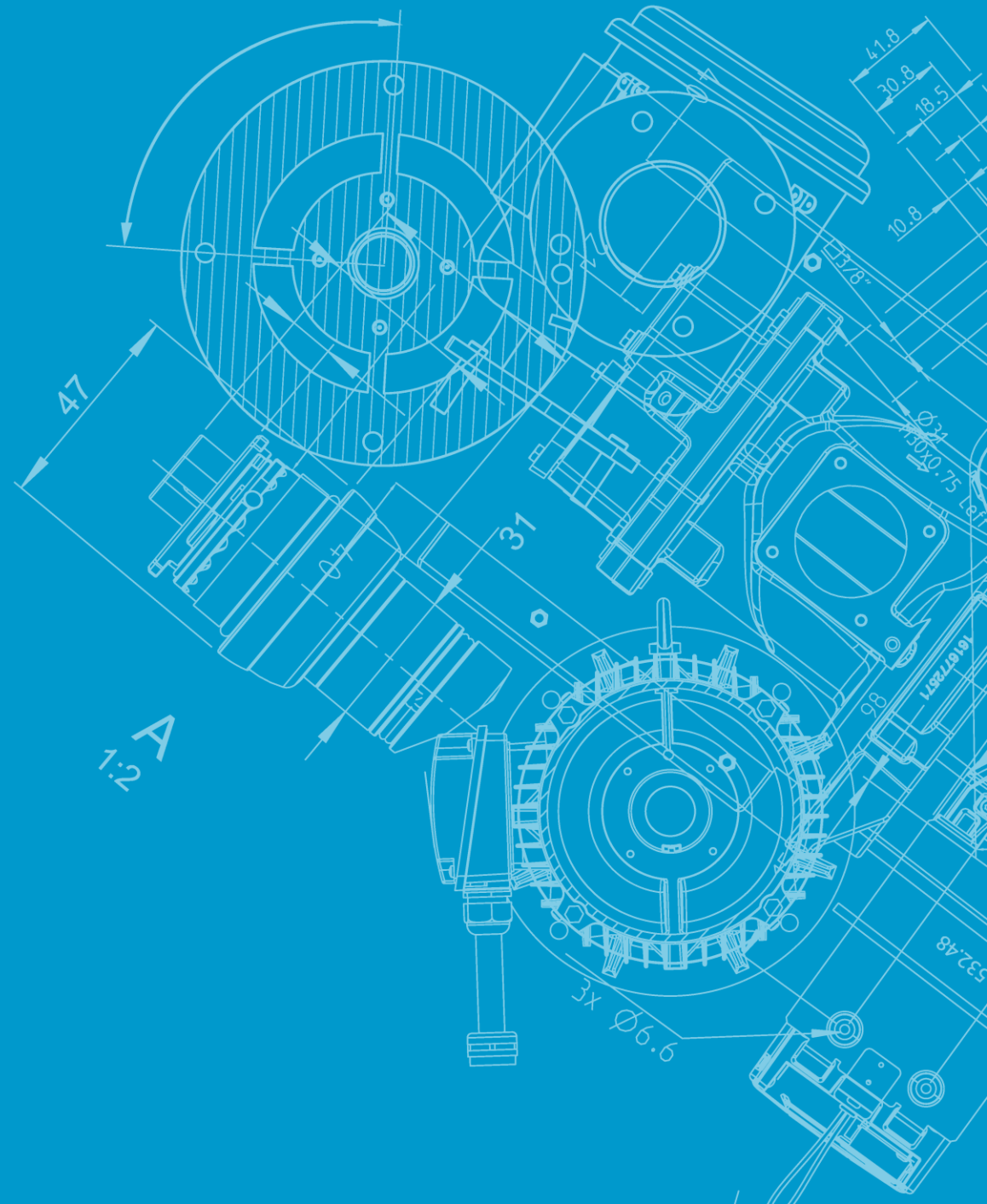
Elec Cab & Single Elec Cab

Stephan Voellmecke

Product Manager – Accessories

Utility Vacuum

ELEC CAB



Elec Cab 2.2 – 22 kW

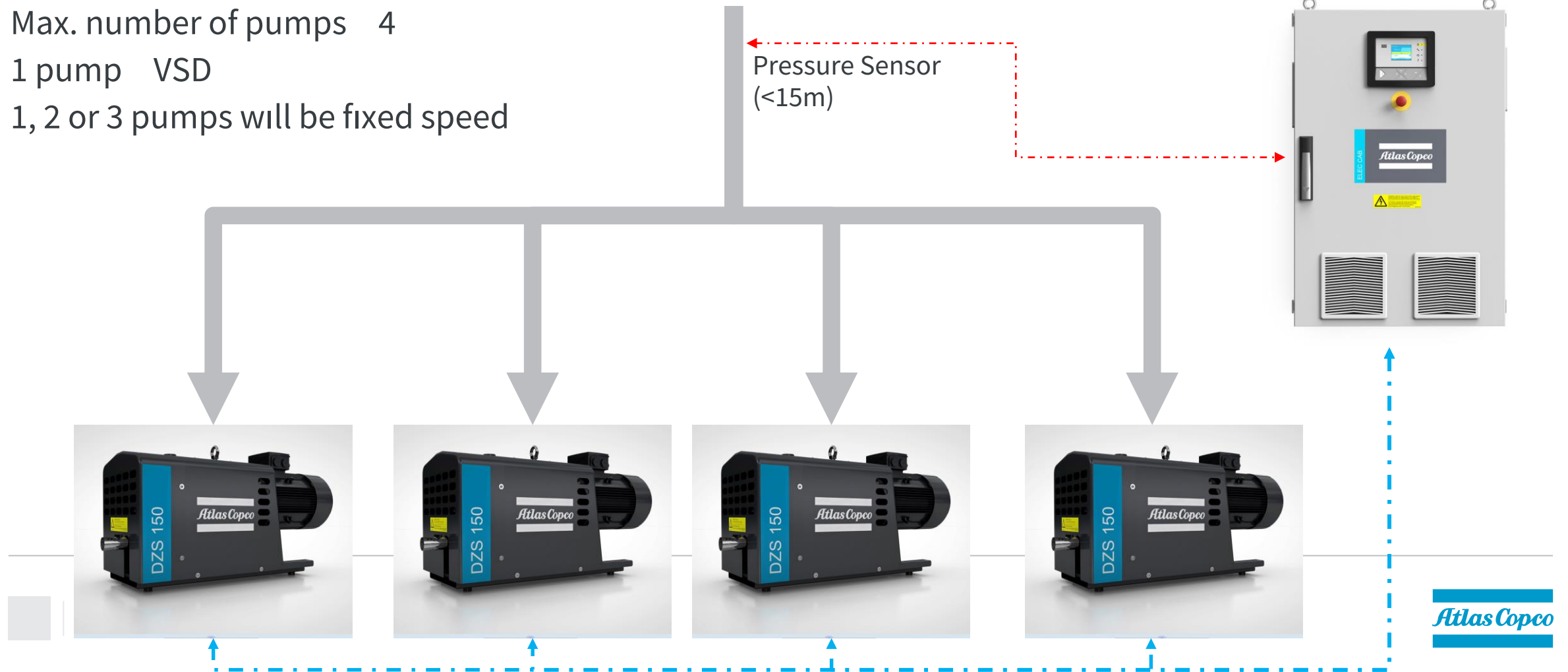
Multi Pump controller and supply cabinet 'wall mounted'

Based on the control system for the DZM multi-pump systems

Max. number of pumps 4

1 pump VSD

1, 2 or 3 pumps will be fixed speed



Elec Cab 2.2 – 22 kW

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Pressure Sensor
(<15m)

ELEC-CAB

Compatible with Different pump technologies + Competitors pumps

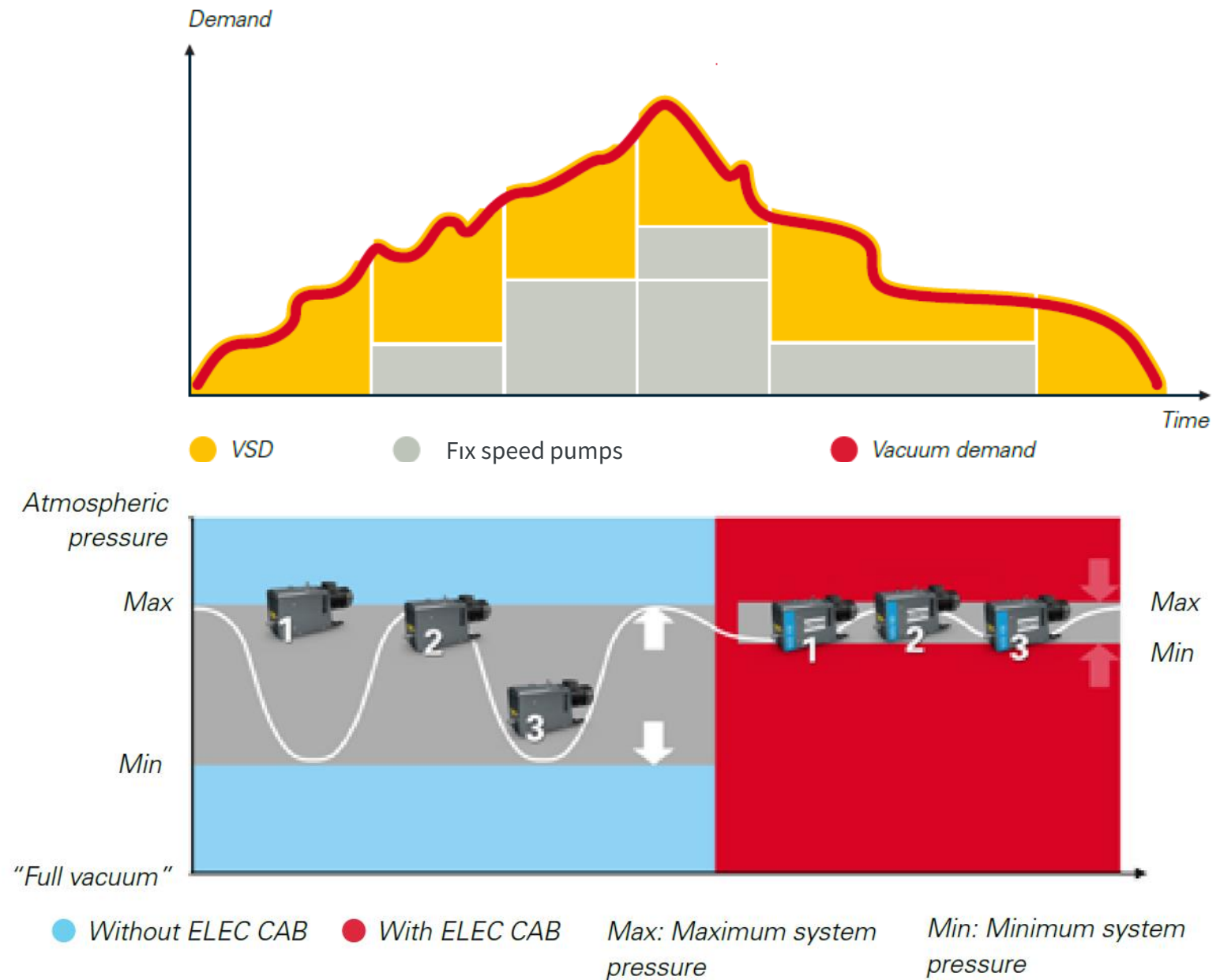


Atlas Copco

Elec Cab

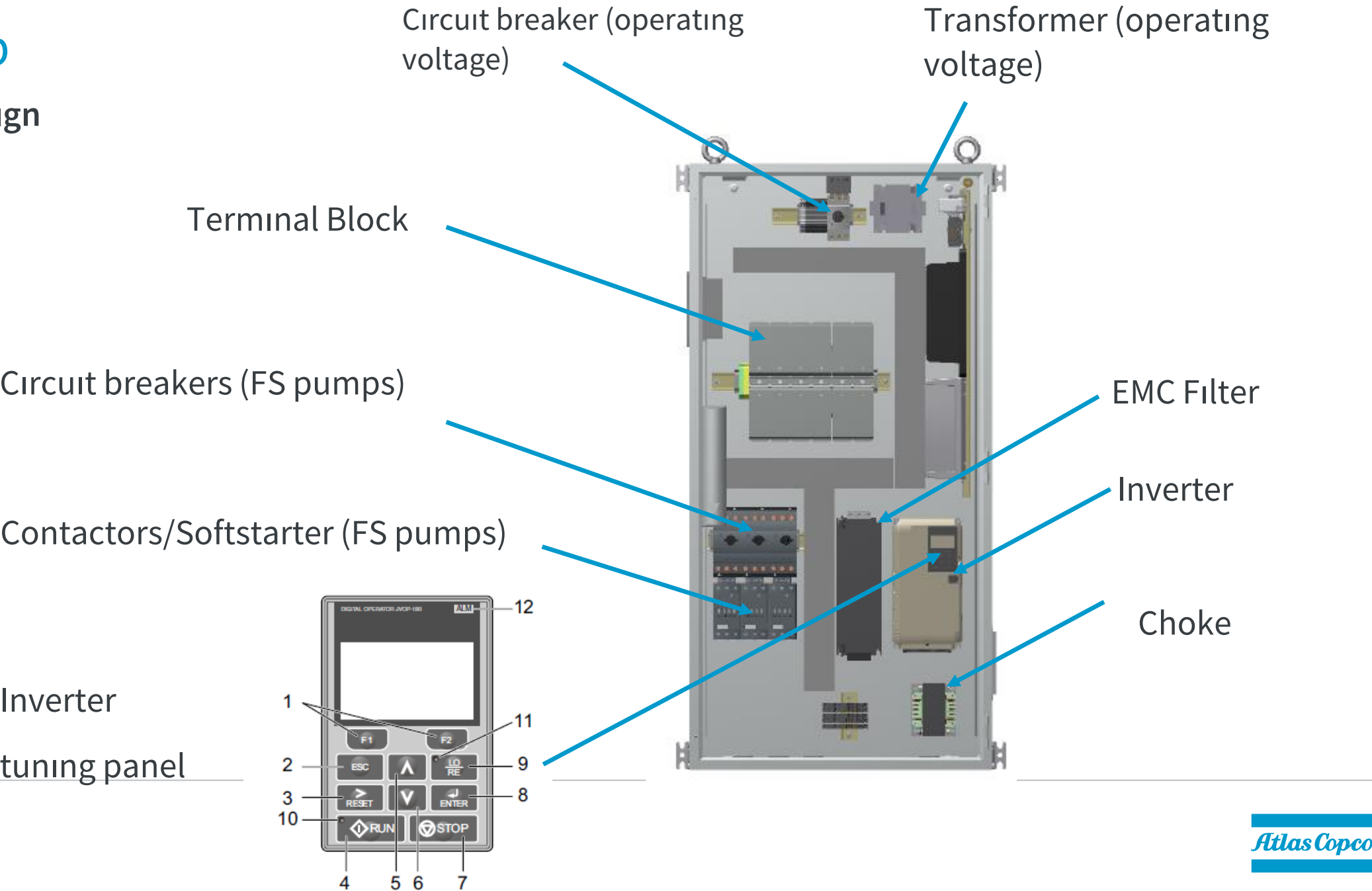
Energy saving potential

- 1 pump VSD in lead
- Fixed speed pumps are switched on and off based on the load coming from the process.
- Pressure band can become more narrow
- Energy Savings of 20 – 30 % possible



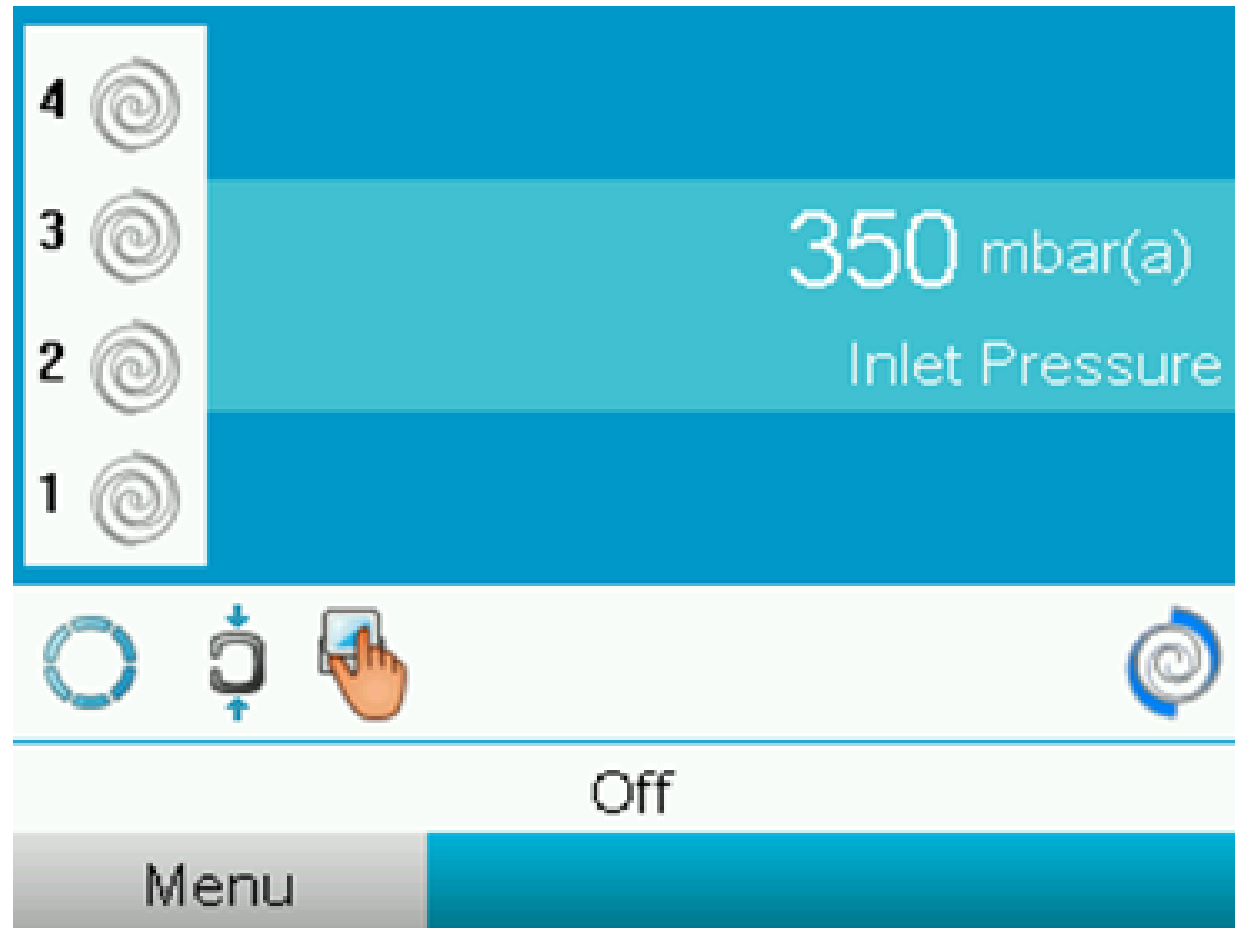
Elec Cab

Typical Design



Elec Cab

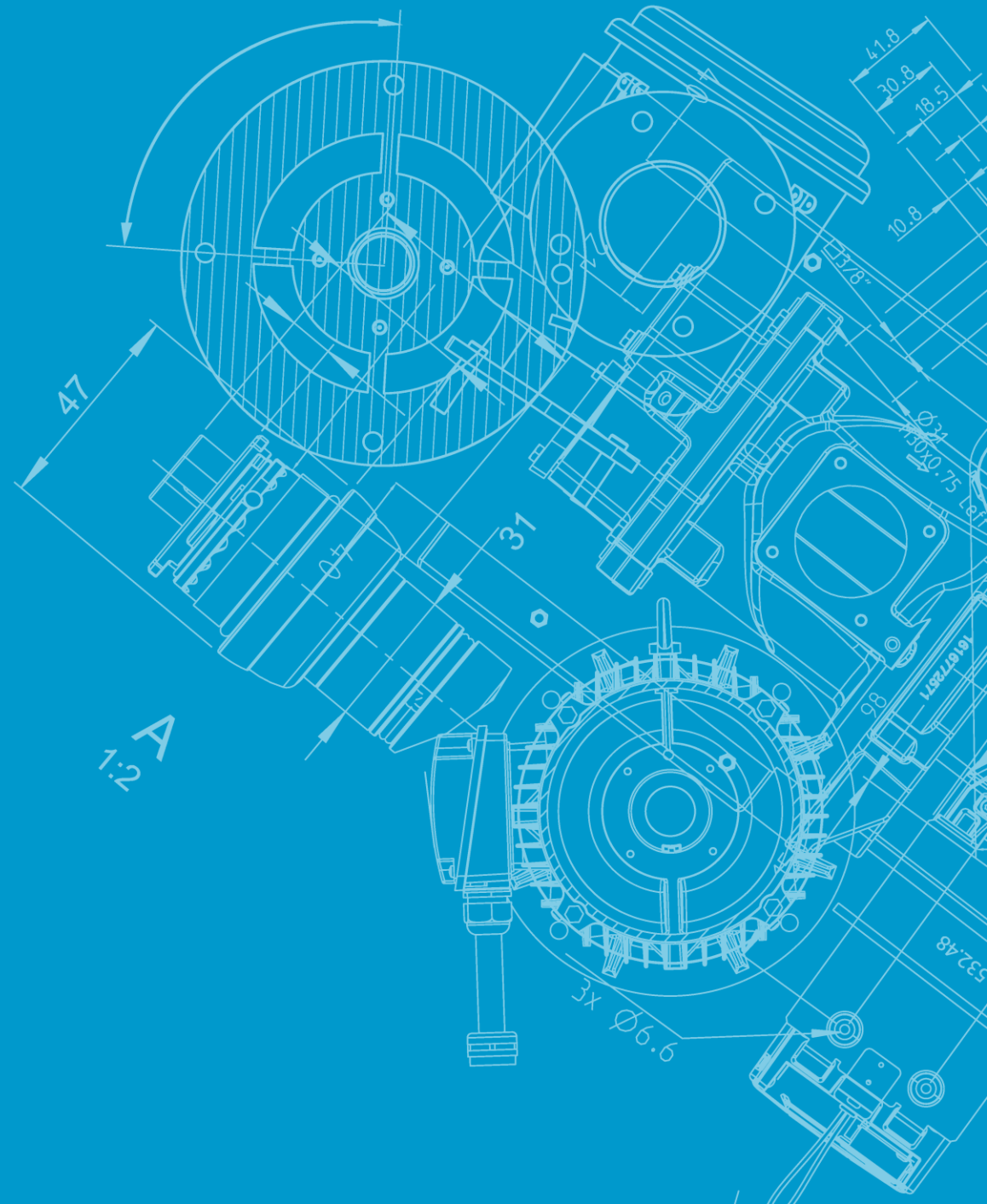
Elektronikon



Elec Cab – Features & Benefits

- Energy savings
 - Pressure band & Variable Speed Drive
- Sequencing
 - Equal wear of fixed speed pumps
- Complete flexibility
 - Suited for all types of vacuum pumps
 - Competitor pumps (Take over utility room!)
- Proven hard & software
 - MKV Controller & Yaskawa inverter
 - Standardized support for CTS organization
- Smart “All-in-One” Solution
 - Maximize energy saving's
 - Minimize maintenance cost's
 - Easy systemization
 - Power supply included
 - SMARTLINK compatible
- Product range
 - 2 or 4 pump models
 - Power size 2.2 – 22 kW for each pump
 - 3 cubicle sizes
 - IEC-cUL/UL approval

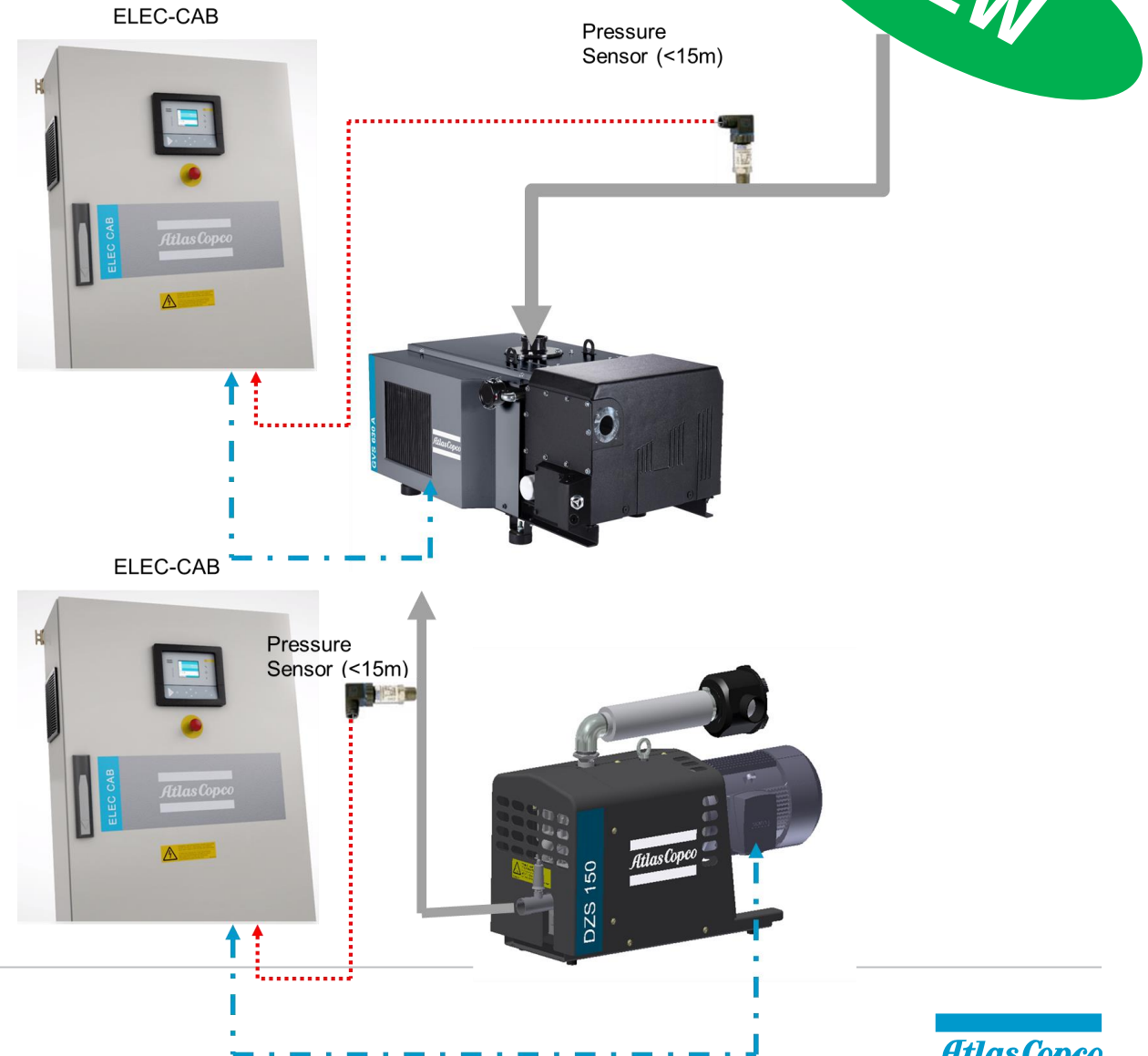
SINGLE ELEC CAB



Single Elec Cab

2,2 – 45 kW

- 1 x VSD pump
- As compact as possible
- Same functionality like Elec Cab
- Additional features:
 - Purge function
 - Flush function
 - Level switch
 - Pressure alarm
 - Pressure relief function
 - Derating function
- Over pressure version for some sizes
- Only 380 – 460V Variants



Elec Cab

Product Matrix

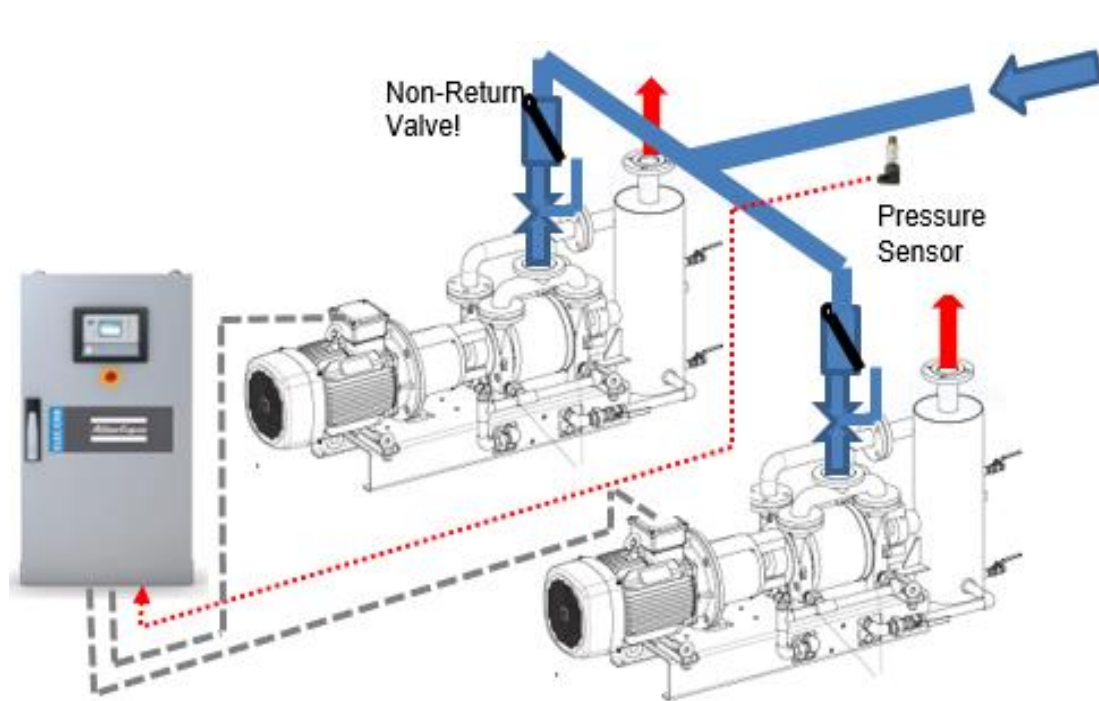


Power Size	Single Pump	2 x Pumps	4 x Pumps	Related pumps
2,2 kW	x	x	x	DZS 65V, GVS 60
7,5 kW	x	x	x	DZS 150-300V, GVS 100-300, AWS 180
15 kW	--	x	x	GVS 470, AWS 280-360, AWD 200-400
22 kW	x	x	x	GVS 630, AWS 450
22 kW P	x	--	--	DZS 150P
30 kW	x	--	--	AWS 600-800, AWD 610
30 kW P	x	--	--	DZS 300P
45 kW	x	--	--	AWS 1100-1600, AWD 1230
45 kW P	x	--	--	Compressors without VSD and Controller

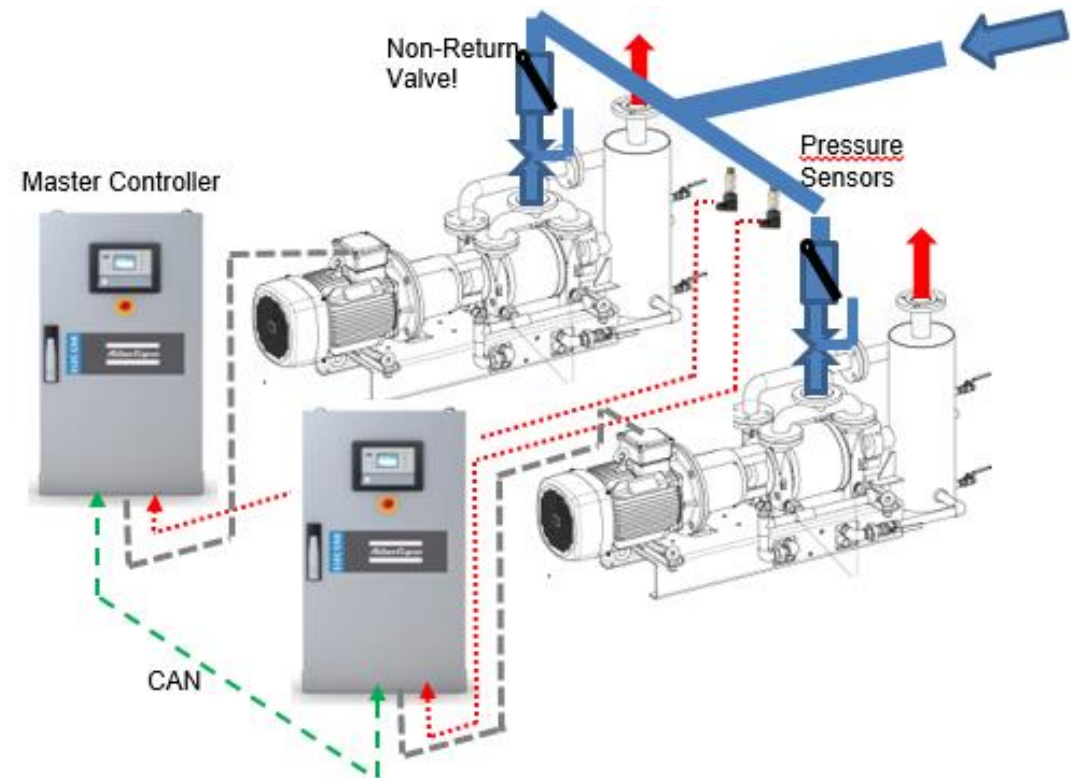


Elec cab

Installation guideline with LRPs



Elec Cab 2 – 4



2 x Single Elec Cab with CAN-Bus and integrated ES4iv

Elec cab

Connectivity with ES

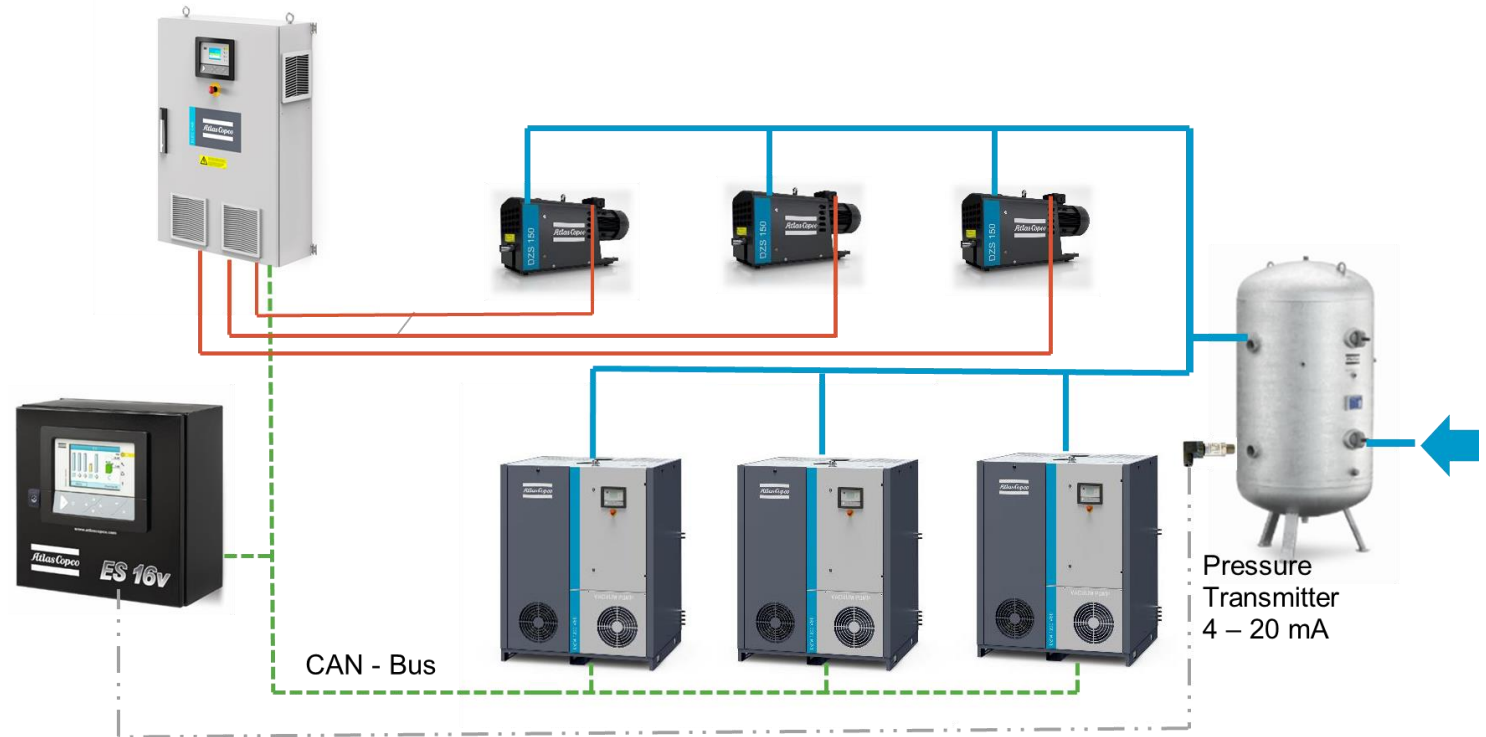
NEW

	SEC	Elec Cab
ES 4iv	✓	--
ES 6iv	✓	--
ES 6v	✓	--
ES 16v	✓	✓

Elec Cab 2 – 4 only with ES16v

DZM only with ES16v

Single Elec Cab with each type of ES



Elec Cab + Single Elec Cab

- Available Documents
 - Specification sheets
 - AIBs, ASLs, drawings
 - Installation guide lines
 - Quotation templates

- Delivery time

4 weeks for variants 380 – 460V

Other voltage variants 10 weeks

7,5 kW Versions on stock

(In the moment also 45 kW SEC on stock!)

AW Liquid Ring Pumps + Elec Cab

Atlas Copco's ELEC CAB is the ideal partner for the Atlas Copco AW range of liquid ring pumps.

Sustainable Productivity

guideline single stage pump AWS Single Stage + Elec Cab

[m³/h]	T01				T02				T03				T04			
	AWD 380	AWD 400	AWD 450	AWD 500	AWD 380	AWD 400	AWD 450	AWD 500	AWD 380	AWD 400	AWD 450	AWD 500	AWD 380	AWD 400	AWD 450	AWD 500
110	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102
25	11,2	14,9	14,9	14,9	14,9	14,9	14,9	14,9	14,9	14,9	14,9	14,9	14,9	14,9	14,9	14,9
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
5,8	8,8	11,7	10,2	10,2	10,2	10,2	10,2	10,2	10,2	10,2	10,2	10,2	10,2	10,2	10,2	10,2
28	12	13,7	13,7	13,7	13,7	13,7	13,7	13,7	13,7	13,7	13,7	13,7	13,7	13,7	13,7	13,7
75 kW	15 kW	19 kW	22 kW	22 kW	22 kW	22 kW	22 kW	22 kW	22 kW	22 kW	22 kW	22 kW	22 kW	22 kW	22 kW	22 kW
S 1/2-1 S 1/2-1 S 1/2-1 S 1/2-1 S 1/2-1 S 1/2-1 S 1/2-1 S 1/2-1 S 1/2-1 S 1/2-1 S 1/2-1 S 1/2-1 S 1/2-1 S 1/2-1 S 1/2-1 S 1/2-1																

double stage pump AWD Dual Stage + Elec Cab

[m³/h]	T01		T02		T03		T04	
	AWD 380	AWD 400	AWD 450	AWD 500	AWD 380	AWD 400	AWD 450	AWD 500
214	401	401	401	401	401	401	401	401
106	263	263	263	263	263	263	263	263
25	14,9	14,9	14,9	14,9	14,9	14,9	14,9	14,9
10	10	10	10	10	10	10	10	10
28	14,2	14,2	14,2	14,2	14,2	14,2	14,2	14,2
10,3	10,3	10,3	10,3	10,3	10,3	10,3	10,3	10,3
10 kW	10 kW	10 kW	10 kW	10 kW	10 kW	10 kW	10 kW	10 kW
S 1/2-1 S 1/2-1 S 1/2-1 S 1/2-1 S 1/2-1 S 1/2-1 S 1/2-1 S 1/2-1								

Advantages of our AW LRP + Elec-Cab combination:

- Optimised performance to suit the process conditions
- Variable Speed Drive with a typical turndown ratio 25 - 60 Hz
- Pressure set point control
- Reduced energy consumption when compared with traditional vacuum relief valves
- Adaptation of the vacuum supply exactly to the demand
- Control and monitoring functions
- Ideal wear for multiple pump systems

ROL CABINET FOR VACUUM PUMPS

Integrate your central vacuum system into an Intelligent Energy lower supply and control of several fixed speed vacuum pumps. With its integrated frequency converter and the well known advantages of pressure set point control and the well known advantages of pressure set point control to you, energy and will improve product quality.

Control up to 4 pumps can be provided. The cabinet is from 2.2 up to 22 kW for each pump. In each case the frequency converter, the other pumps are switched on/off

Pressure (p15se)

Master Controller

Non-Return Valve

Pressure Sensor

2 x Single Elec Cab with CAN Bus and integrated ESD

Store the inlet of each pump.

1.5 - 4.5V and can be installed a max. 10m from the cabinet. If you use pressure sensor with Extension Module, 02 800201001.

Available. To control multiple pumps each pump needs an Single Elec Cab which can be controlled by an integrated ESD.

Monitoring pressure in the vacuum system and the pressure band and gives switch- and speed commands to the pump 1 is always the leading pump linked to the pressure sensor. The fine adjustment of the pressure by changing the speed of the pump is possible by changing the speed of the pump. The pump must be suitable for variable speed drive and the power demand of the biggest motor!

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