



LIDCO, Pars SEE Zone, Assaluyeh,
Integrated Methanol and Ammonia
Plant 3000 MTPD MeOH / 900 MTPD NH3 PROJECT



Index of Instruction and Operating Manual

Document No. 17735-20

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**Airpack B.V. - Air Compressor –
Integrated Methanol and Ammonia Plant**

17735-COM Index of Instruction and Operating Manual (K020)

code-1
M. Vakili

04	14-02-2024	Issued for Approval	M.C.	J.J.	S.K.
03	06-02-2024	Issued for Approval	M.C.	J.J.	S.K.
02	13-12-2023	Issued for Approval	M.C.	J.J.	S.K.
01	13-11-2023	Issued for Approval	M.C.	J.J.	S.K.
REV.	DATE	DESCRIPTION	DRAWN	CHECKED	APPROVED

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Integrated Methanol and Ammonia Plant

Operating and maintenance data

- A General Data
- B Safety Precautions
- C Main Components (Start-up, Shutdown, Commissioning, Pre-commissioning)
 - 1 Compressor
 - 2 Motor
 - 3 Inlet Filter
 - 4 Moisture Separator
 - 5 Inter / after cooler
- D Electrical and Instrumentation Equipment
 - 1 Pressure Gauge
 - 2 Pressure transmitter
 - 3 Temperature Transmitter
 - 4 Thermowell + Element
 - 5 Temperature gauge
 - 6 Pressure Safety Valve
 - 7 Hand Ball Valve
 - 8 Pressure Control Valve
 - 9 Check Valve
 - 10 Y-Strainer
 - 11 Local Push Button Station
- E Troubleshooting
- F Preventive maintenance chart
- G Overall spare parts list
- H Logbook
- I Plant manager liability list
- J Lubricant chart

Integrated Methanol and Ammonia Plant

K Documents

- 1 Vendor Print Index and Schedule
- 2 Piping & Instrument Diagram
- 3 General Arrangement Drawing (incl foundation load details)
- 4 3D model (STP)
- 5 Wiring Diagram (including Terminal Diagram) for LCP Panel and Junction Box
- 6 I/O List
- 7 Outline Dimensional Drawings for LCP Panel and Junction Box
- 8 Inspection & Test Plan (ITP)
- 9 Utility Consumption
- 10 Main Motor Data Sheets
- 11 Equipment Data Sheet
- 12 Inter / After Cooler Data Sheet
- 13 Instrument Data Sheets
- 14 Commissioning and Start-up Spares
- 15 FAT Procedure (incl full unit mechanical run test procedure)
- 16 NDE Procedure
- 17 Package Nameplate Drawing
- 18 Hydrotest procedure
- 19 Surface Preparation and Painting Procedure
- 20 Index of Vendor Data Book
- 21 Index of Instruction and Operating Manual
- 22 Control philosophy and Interlock Description □
- 23 Preservation, Packing & Shipping Procedure
- 24 Detail Drawings for Coolers
- 25 Detail Drawings for Pulsation Dampers
- 26 Pulsation Study Approach 1 Calculations
- 27 Welding Book PQR / WPS
- 28 WPQ
- 29 Cause & Effect Chart
- 30 Tie-in Nozzle Loads

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	Vendor:	
	Airpack Nederland B.V.	

Integrated Methanol and Ammonia Plant

K Documents

- 31 Loop diagrams
- 32 Control and shut down Logic Block Diagram
- 33 (Pre-) Commissioning Procedure
- 34 Instrument Index
- 35 Quality Manual
- 36 Instrument Hook-up Drawing
- 37 Earthing Diagrams
- 38 Spare Parts for 2 years Operation (SPIR)
- 39 Sub-Supplier List
- 40 PSV Data Sheets
- 41 PSV sizing calculations
- 42 Control Valve Data Sheets
- 43 Noise Data Sheet
- 44 Lubrication List
- 45 Instrument Cable schedule
- 46 Line List
- 47 Weight data sheet

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