



Technical Specification for ACC Vacuum Leak Testing – Samra Power Plant

1- Scope of Work:

The contractor shall provide a helium leak detection system capable of testing the Air-Cooled Condenser (ACC) vacuum system, including Helium leak detector.

2- Work Location:

All work shall be performed on-site at:

Samra Electric Power Plant, Zarqa City, Jordan,

3- Test Method:

Sniffing/spraying at joints

4- Contractor Responsibilities:

- Provide qualified personnel for on-site testing.
- Submit calibration certificates for leak detection equipment.
- Ensure safety compliance.
- Submit a test report with leak locations, severity, and recommendations.

5- SEPCO Responsibilities:

- Arrange helium gas cylinders ($\geq 99.9\%$ purity).
- Provide permits and access to ACC system and ejector.
- Fabricate port if not available (per contractor's design).

6- Bid Submission Requirements:

Interested vendors must include:

- Technical proposal (equipment specs, methodology).
- Commercial offer (breakdown of costs, payment terms).
- Company profile and similar project references.
- Post-test support details.



View B

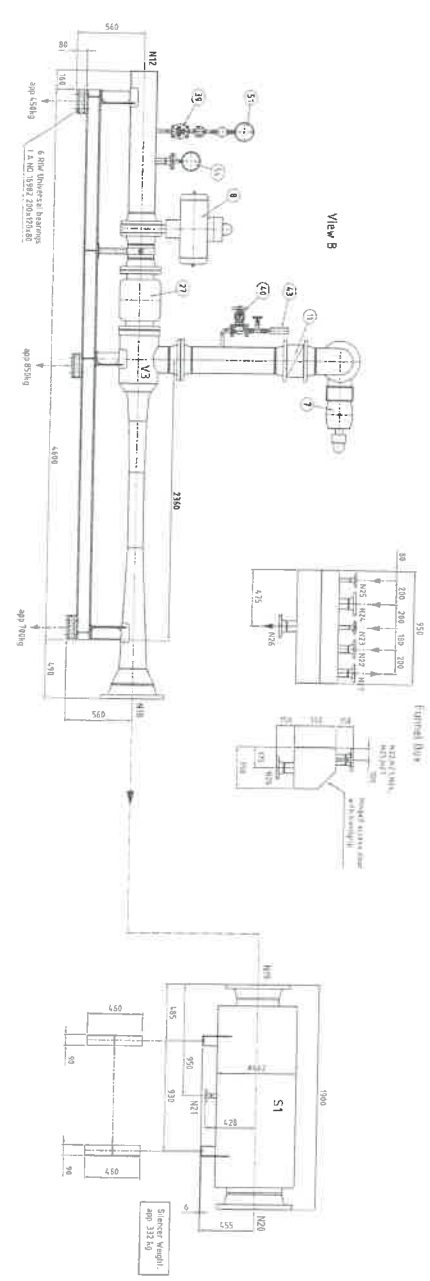
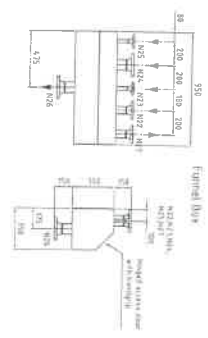
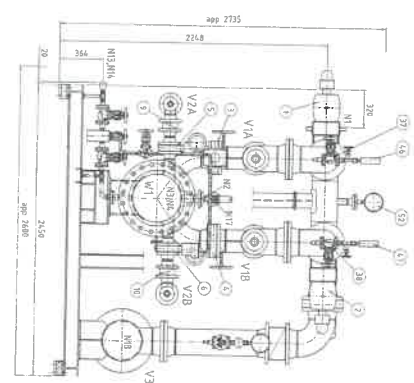


Figure 104



Section D-D

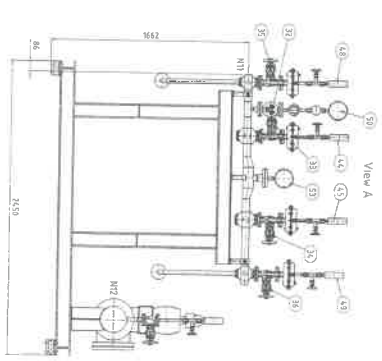


Factor V1A/B and V2A/B

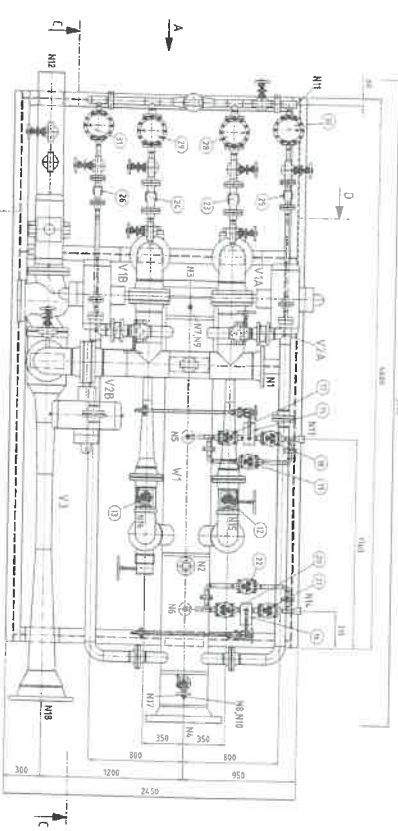
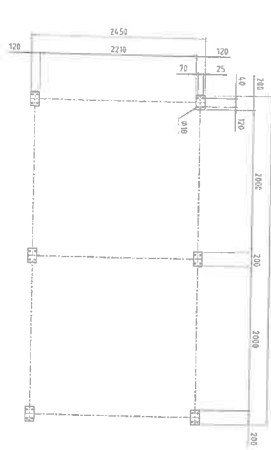
Design set to 2000 hPa (14.73 psi) at 20°C (68°F)	Design set to 2000 hPa (14.73 psi) at 20°C (68°F)	Design set to 2000 hPa (14.73 psi) at 20°C (68°F)
Design pressure	2000 hPa (14.73 psi)	2000 hPa (14.73 psi)
Design temperature	20°C (68°F)	20°C (68°F)
Design set to 2000 hPa (14.73 psi) at 20°C (68°F)	Design set to 2000 hPa (14.73 psi) at 20°C (68°F)	Design set to 2000 hPa (14.73 psi) at 20°C (68°F)

Condenser W1

Design set to 2000 hPa (14.73 psi) at 20°C (68°F)	Design set to 2000 hPa (14.73 psi) at 20°C (68°F)	Design set to 2000 hPa (14.73 psi) at 20°C (68°F)
Design pressure	2000 hPa (14.73 psi)	2000 hPa (14.73 psi)
Design temperature	20°C (68°F)	20°C (68°F)
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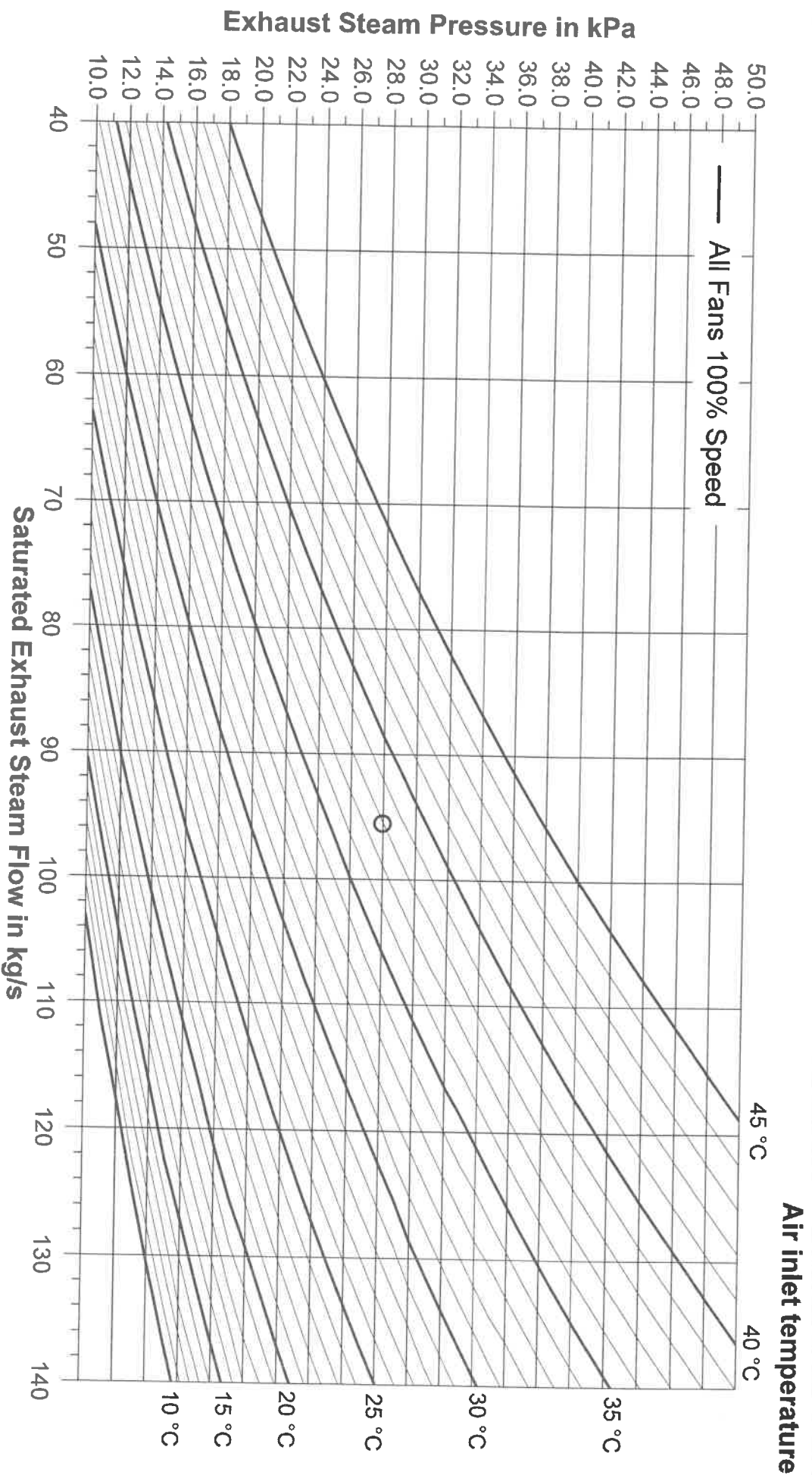
Interface points on customer platform M125



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GEA
3620506006



Design Point: ○

Exhaust steam flow:
Exhaust steam pressure:
Air inlet temperature:
Barometric pressure:
Motor input:

105.239 kg/s (x=0.9069)
28 kPa
38 °C
950 hp
1994 kW

Diagram outside the boundary conditions in acc. with VGB-R 131 Me FOR INFORMATION ONLY !

DATE	NAME	ACC PERFORMANCE DIAGRAM in acc. with VGB-R 131 Me	
PRE. 03.06.2009	EKT/Wenen	 GEA ENERGietechnik GmbH GEA-NO.: Speed 100.spf Rev. 0 / 03.06.2009	
P.No.: 33043			
Project : Samira			

GEA BEHALT DAS URHABERRECHT AN DIESEN ZEICHNUNGEN. BENÜTZUNG NUR ZUM VERTRAGSGEGENSTÄNDLICHEN ZWECK. MITTEILUNG AN DRITTE IN JEDER FORM UNZULÄSSIG