NEOMETRIX DEFENCE NMX-SGH-99

# SF6 Gas Handling Unit

CAPABILITY SHEET · WEIGH IT OUT. WEIGH IT BACK. · A VACUUM PUMP, AN OIL-FREE COMPRESSOR, FILTERS,

## THE ONE IDEA

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| **PRINCIPLE** | Weigh it out. Weigh it back. |
| **WHY IT MATTERS** | SF6 has no colour and no smell, so a loss cannot be seen or smelled. A scale under the storage vessel counts the gas out and back, and the difference is the gas that was lost. |

## THE UNIT

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| **VACUUM** | A vacuum pump that evacuates the air and the moisture, kept apart from the gas by a valve so that its oil cannot reach the equipment. |
| **RECOVERY** | An oil-free compressor that draws the gas out of the equipment and delivers it to the storage vessel, as a gas or as a liquid. |
| **CLEANING** | A dryer filter for moisture, a purification filter for arc by-products and a particle filter, changed on a plan. |
| **STORAGE** | A vessel sized for the largest compartment, on load cells, filled by weight and never full, with a relief valve. |

## THE METHOD

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| **ORDER** | Duty, gas circuit, scale, safeguards, build and prove. The scale and the proof are the two that a quick job skips. |
| **LIMITS** | Pressures, vacuum levels, flow rates, vessel sizes and gas quantities come from the customer's duty, and are not printed here. |

## CONFIGURATIONS

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| **TROLLEY** | A trolley-mounted unit: the whole circuit, the vessel and the scale on one frame, wheeled to the equipment. |
| **SKID** | A skid-mounted station: the same circuit on a base frame, for a plant or a workshop. |
| **LARGE VESSEL** | A unit with a large storage vessel, for a large gas compartment or many compartments in turn. |

## STANDARDS & SCOPE

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| **STANDARDS** | Public reference: IEC 62271-4 for the handling of SF6 in switchgear, and IEC 60480 for the re-use of SF6 recovered from electrical equipment. |
| **SCOPE BOUNDARY** | It is the SF6 gas handling unit: not a halon reclamation plant, not a vacuum pumping station and not a switchgear test bench. |
| **STATUS** | Neometrix engineers SF6 gas handling units to order, and no delivered SF6 gas handling unit is claimed. |

**DEFENCE PROGRAMMES DESK**

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