



## **AnaShell walk-in Analytical Shelter Type AS4100, H=2.56m x W=2m x D=2m, for up to three analysers plus sample preconditioning, with window**

**Produktnr:** AS4100  
**SEK Pris:** Kontakta oss

### **Walk-in weather- and corrosion-resistant analyser shelter as turnkey complete solution**

The walk-in AnaShell analyser shelters protect your measurement technology reliably and sustainably - and during maintenance etc. they protect you from the weather. Up to three analysers, plus the associated sample preconditioning unit are kept safe from harmful vapours, vibrations, precipitation, solar radiation and temperature fluctuations.

#### **Safe housing with laboratory-like conditions**

The insulated AnaShell analyser shelters, including the base plate, are made of glassfiber reinforced polyester (GRP) on a stainless steel frame. The self-supporting construction has a high mechanical strength and withstands even extreme weather conditions. Protection class IP54 (NEMA 3X) means dust-tight and water jet proof, ensuring your analysers are well protected. In conjunction with an air conditioning system, consistent ambient conditions can be achieved - ideal conditions for accurate results.

#### **Professional Integration**

We develop your AnaShell enclosure as a turnkey complete solution. Sample preconditioning and analysers are permanently mounted on chemical resistant High Pressure Laminate (HPL) plates with galvanized modular mounting profiles (MMP). The necessary connections are planned accordingly, all cables and hoses are clearly marked and easy to read. You will receive extensive documentation for your shelter, e.g. technical drawings for electrics, 2D floor plan and P&ID.

#### **Safety is a top priority**

AnaShell shelters intended for outdoor installation come with lightning protection. They feature two separate grounding systems: equipment (AC safety) and isolated shield grounding system. All non-energized parts of the equipment are bonded to the shelter equipment (AC safety) ground bus through dedicated bonding cables.

High quality door hinges are designed for the long service life of the shelter. The anti-panic bar ensures that the shelter's door can be opened from the inside in an emergency - even if the door is locked from the outside.

#### **Small installation effort, fast commissioning**

Each AnaShell enclosure is mounted incl. all analysers in our plant and tested before shipping. Four lifting and mounting brackets (90° rotatable) facilitate transport and installation on site. Unload, unpack, set up, connect - ready for the first sample.

#### **Certification included**

AnaShell enclosures have passed the necessary tests and are certified with CE Declaration of Conformity according to Machine Directive 2006/42/EC of the European Parliament and of the Council of 17 May 2006 on machinery and EMC Directive 2014/30/EU of the European Parliament and of the Council of 26 February 2014 on the harmonization of the laws of the Member States relating to electromagnetic compatibility.

---

## **Specifikationer**

Certifieringar :	CE Declaration of Conformity conform Machine Directive 2006/42/EC und EMC Directive 2014/30/EU
Dimension:	(H x W x D) 2.56 m x 2 m x 2 m

Heating system:	<p>Optional, combinable:</p> <ul style="list-style-type: none"> <li>- Thermostatically controlled electrical heating (2000 W)</li> <li>- Thermostatically controlled air conditioning unit with heat pump (2500 W / 2800 W). The air conditioning unit is a wall mounted split version, so no outside ventilation air is blown into the cabinet.</li> <li>- Thermostatically controlled air conditioning unit with heat pump (2500 W / 2800 W) for corrosive environments with corrosion-resistant coating on the outside heat exchanger unit. The air conditioning unit is a wall mounted split version, so no outside ventilation air is blown into the shelter.</li> </ul>
Material:	<p>Shelter material: Sandwich construction made of GRP (glass fiber reinforced polyester) by low pressure Resin Transfer Molding (RTM) using UV resistant gelcoat impregnation process.</p> <p>Base frame material: SS316Ti (1.4571), insulated (PU foam), including four SS316Ti (1.4571) lifting and transport brackets, twistable by 90° mounted to the base frame.</p> <p>Insulation: 2 cm (0.79") thickness, <math>K = 1.2 \text{ W/m}^2\text{K}</math></p>
Matningsspänning:	<p>Each analyser is powered by a black colored service switch with lock position (suitable for LOTO Lock Out Tag Out) and has an individual circuit breaker in the local power distribution panel. An electrical power socket is not needed.</p> <p>According to CE regulations a local main electrical power switch is mandatory. Options (always with lock position, suitable for LOTO Lock Out Tag Out):</p> <ul style="list-style-type: none"> <li>- One (1) local main electrical power switch, single phase 230 VAC / 50 Hz - UPS or non-UPS</li> <li>- Two (2) local main electrical power switches, single phase 230 VAC / 50 Hz - UPS and non-UPS</li> <li>- One (1) local main electrical power switch, triple phase 3x380 VAC+N / 50 Hz - UPS or non-UPS</li> <li>- Two (2) local main electrical power switches, triple phase 3x 380 VAC+N / 50 Hz - UPS and non-UPS</li> <li>- One (1) local main electrical power switch, single phase 230 VAC / 50 Hz - UPS or non-UPS, plus one (1) local main electrical power switch, triple phase 3x380 VAC+N / 50 Hz - UPS or non-UPS</li> </ul>
Modell:	AS4100
Option:	<p>Complementary equipment:</p> <ul style="list-style-type: none"> <li>- Additional lightning protection by aluminium ringline on the roof conform CE regulation mandatory for outside installation</li> <li>- Additional electrical sockets 230 VAC / 6A (max. 2)</li> <li>- Sink with drinking water for cleaning hands or equipment</li> <li>- Hot water boiler</li> <li>- Oil free compressor</li> <li>- Insulation: 4 cm (1.57 "), <math>K = 0.75 \text{ W/m}^2\text{K}</math></li> </ul>
Signal junction box:	<p>Optional:</p> <ul style="list-style-type: none"> <li>- One (1) combined local signal junction box for analog signals (4 - 20 mA, max. load 500 Ohm) and alarms (potential free contacts, max. 24 V DC). Max. 24 pairs (equals 48 terminals). Mounted on the outside wall of the shelter (shielded by pair).</li> </ul>

- Two (2) local signal junction boxes. One box for analog signals (4 - 20 mA, max. load 500 Ohm). One box for alarms (potential free contacts, max. 24 V DC). Max. 12 pairs (equals 24 terminals) per junction box. Mounted on the outside wall of the shelter (shielded by pair).

- Ethernet switch for serial communication, installed in the local power distribution panel. Plus one (1) local signal junction box, mounted on the outside wall of the shelter.

- Ethernet switch for serial communication, installed in the local power distribution panel. Plus two (2) local signal junction boxes, mounted on the outside wall of the shelter.

Skyddsklass:

Depending on configurations

Vad ingår i leveransen:

AnaShell analytical shelter type AS4100 in ordered configuration; process instrumentation and sample preconditioning pre-assembled and mounted ex works according to order

Ventilation:

Optional:

- Natural ventilation: by means of two ventilation openings installed near diagonal corners on opposite walls at floor and top level.

- Forced ventilation: from outside to inside with a single electrical motor driven fan, which is sized to supply a minimum volume equivalent to six air changes per hour. Both the fan (ventilation inlet) and the ventilation outlet are installed near diagonal corners on opposite walls at floor and top level.

- Purge ventilation: applicable for corrosive environments. Instead of outside air a purge of instrument air (IA) is used. The purge is distributed by a collector with individual adjustable silencers. With this option there is always a slight overpressure inside the shelter.

Vikt :

Approx. 1100 kg (depending on configuration)

---

## Vad finns i förpackningen

AnaShell analytical shelter type AS4100 in ordered configuration; process instrumentation and sample preconditioning pre-assembled and mounted ex works according to order