



AnaShell Analyser Cabinets



Weather- and corrosion-resistant analyser cabinet as turnkey complete solution

Safe housing with laboratory-like conditions

The insulated AnaShell analyser cabinets, 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 cabinet, e.g. technical drawings for electrics, 2D floor plan and P&ID.

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.

Technical Data*

Model	AS1050	AS1100	AS2000	AS3000
Dimensions	(H x W x D) 2.14 m x 0.9 m x 0.5 m	(H x W x D) 2.14 m x 1.1 m x 0.5 m	(H x W x D) 2.14 m x 2 m x 0.5 m	(H x W x D) 2.14 m x 2 m x 1.2 m
Weight	Approx. 200 kg (depending on configuration)	Approx. 250 kg (depending on configuration)	Approx. 500 kg (depending on configuration)	Approx. 700 kg (depending on configuration)
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. Purge inlet is at the top, and outlet ventilation is at the bottom and top, protected by check valves. With this option there is always a slight overpressure inside the cabinet.			
Heating and cooling system	Optional, combinable: - Thermostatically controlled electrical heating (1200 W) - Thermostatically controlled air conditioning unit (cooling only, 1500 W)	Optional, combinable: - Thermostatically controlled electrical heating (1200 W) - Thermostatically controlled air conditioning unit (cooling only, 1500 W)	Optional, combinable: - Thermostatically controlled electrical heating (1200 W) - Thermostatically controlled air conditioning unit (cooling only, 1500 W)	Optional, combinable: - Thermostatically controlled electrical heating (1200 W) - Thermostatically controlled air conditioning unit with heat pump (2000 W / 2500 W). This is a split version, so no outside ventilation air is blown into the cabinet. - Additional corrosion-resistant coating on the outside heat exchanger unit
Main electrical power switch	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. According to CE regulations a local main electrical power switch is mandatory. Options (always with lock position, suitable for LOTO Lock Out Tag Out): - One (1) local main electrical power switch, single phase 230 VAC / 50 Hz - UPS or non-UPS - Two (2) local main electrical power switches, single phase 230 VAC / 50 Hz - UPS and non-UPS - One (1) local main electrical power switch, triple phase 3x380 VAC+N / 50 Hz - UPS or non-UPS - Two (2) local main electrical power switches, triple phase 3x 380 VAC+N / 50 Hz - UPS and non-UPS - 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			

Technical Data*

Model	AS1050	AS1100	AS2000	AS3000
Signal junction box	<p>Optional:</p> <ul style="list-style-type: none"> - 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. 12 pairs (equals 24 terminals). Mounted on the outside wall of the cabinet (shielded by pair). - 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. 6 pairs (equals 12 terminals) per junction box. Mounted on the outside wall of the cabinet (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 cabinet. - 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 cabinet. 			<p>Optional:</p> <ul style="list-style-type: none"> - 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 cabinet (shielded by pair). - 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 cabinet (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 cabinet. - 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 cabinet.

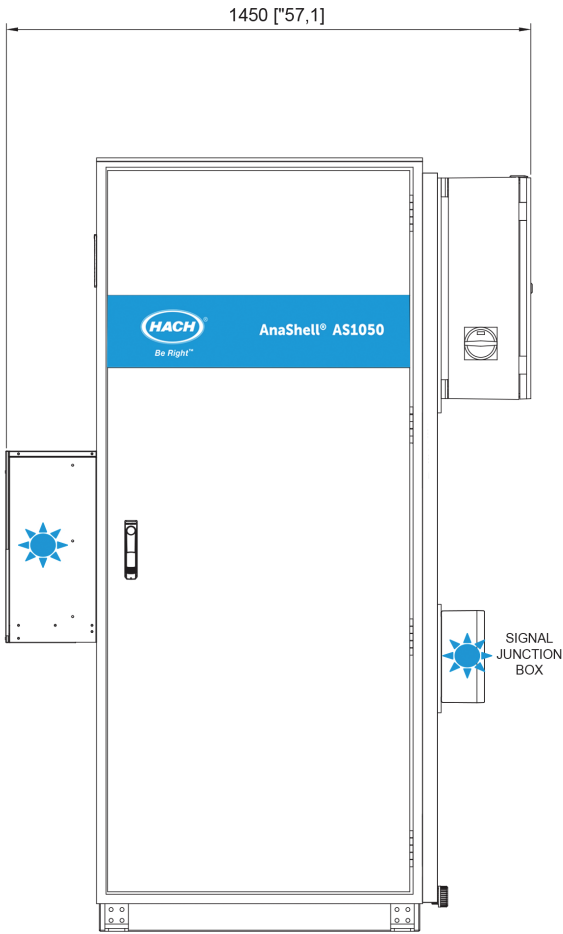
Technical Data*

Model	AS1050	AS1100	AS2000	AS3000
Options	Complementary equipment: - Additional electrical sockets 230 VAC / 6A (max. 2) - Protective rain and sun roof		Complementary equipment: - Additional electrical sockets 230 VAC / 6A (max. 2) - Hot water boiler - Protective rain and sun roof	Complementary equipment: - Additional electrical sockets 230 VAC / 6A (max. 2) - Sink with drinking water for cleaning hands or equipment - Hot water boiler - Oil free compressor - Protective rain and sun roof - Additional lightning protection by aluminium ringline on the roof for outdoor installation
Material	Shelter material: Sandwich construction made of GRP (glass fiber reinforced polyester) by low pressure Resin Transfer Molding (RTM) using UV resistant gelcoat impregnation process. Base frame material: SS316L (1.4404), including four SS316L (1.4404) lifting and transport brackets, twistable by 90° mounted to the base frame. Insulation: 2 cm (0.79") thickness, K = 1.2 W/m ² K			
Protection class	Depending on configuration			
Certifications	CE Declaration of Conformity conform Machine Directive 2006/42/EC und EMC Directive 2014/30/EU			

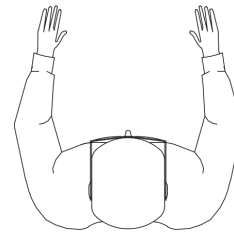
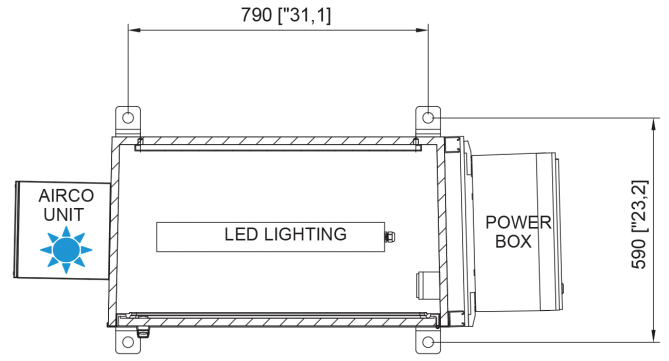
**Subject to change without notice.*

Dimensions AS1050

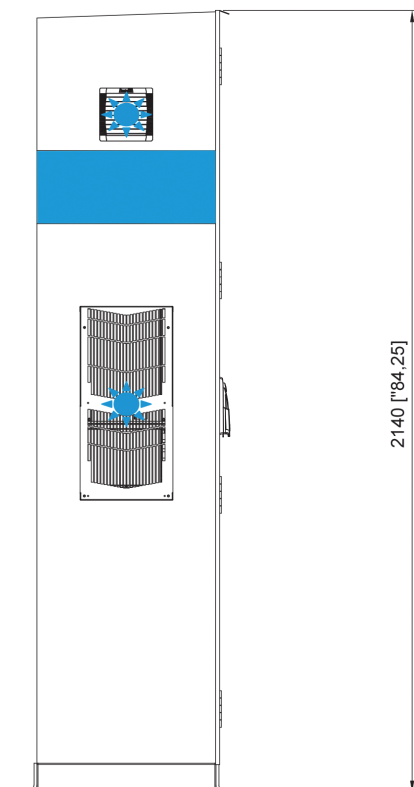
Front View



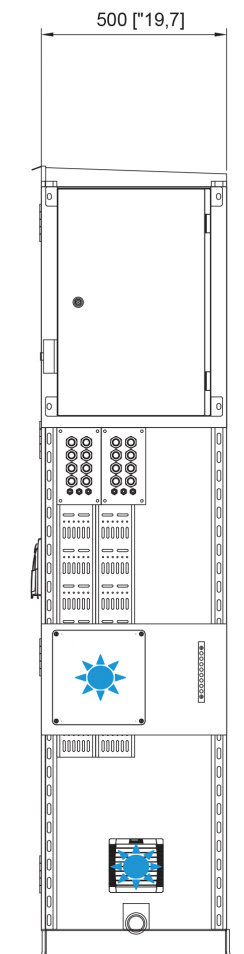
Top View



Left View

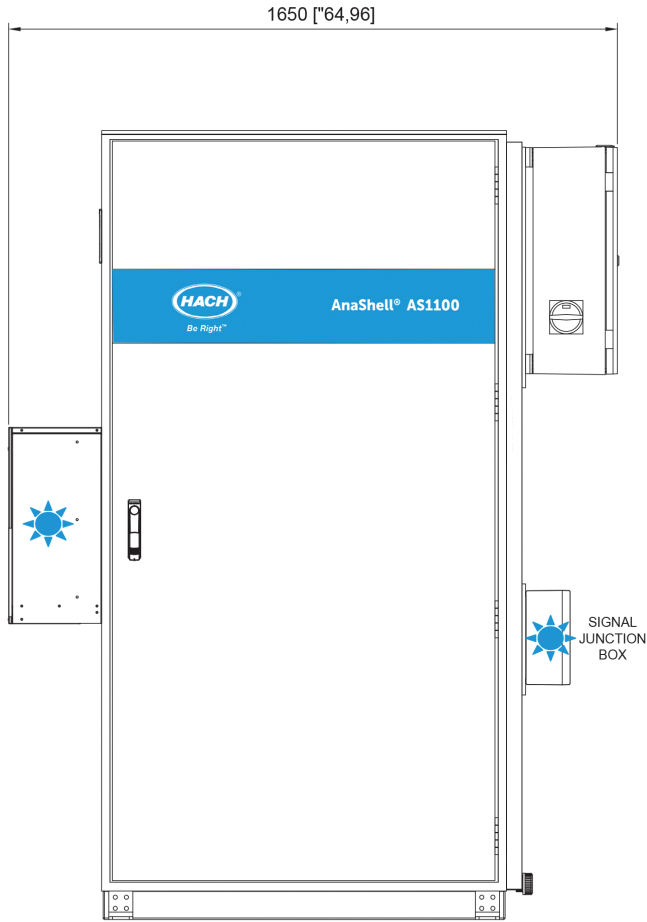


Right View

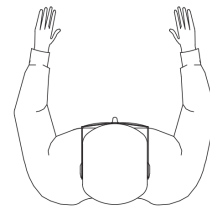
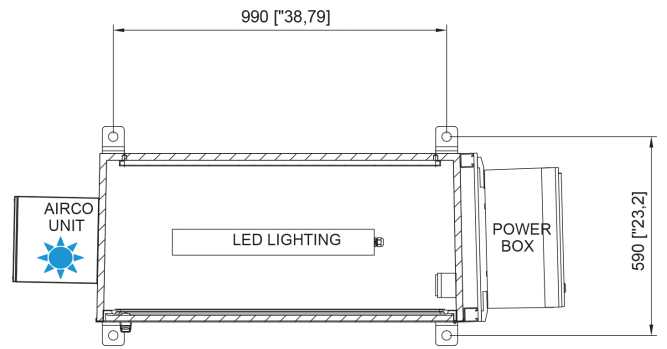


Dimensions AS1100

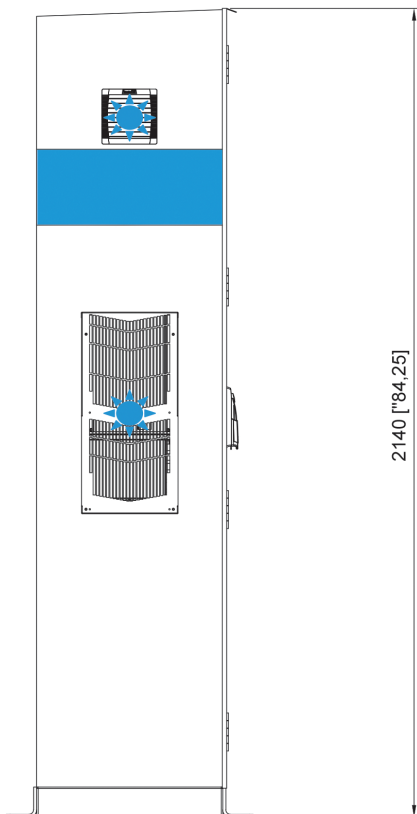
Front View



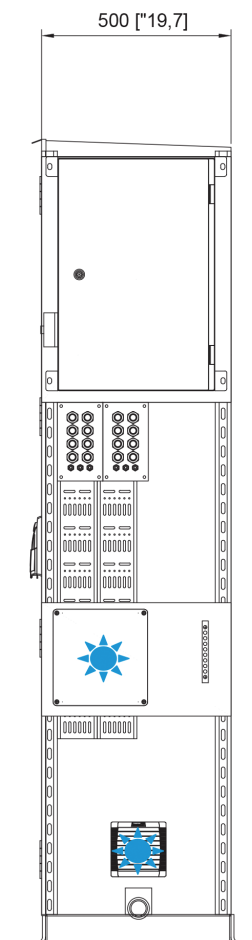
Top View



Left View

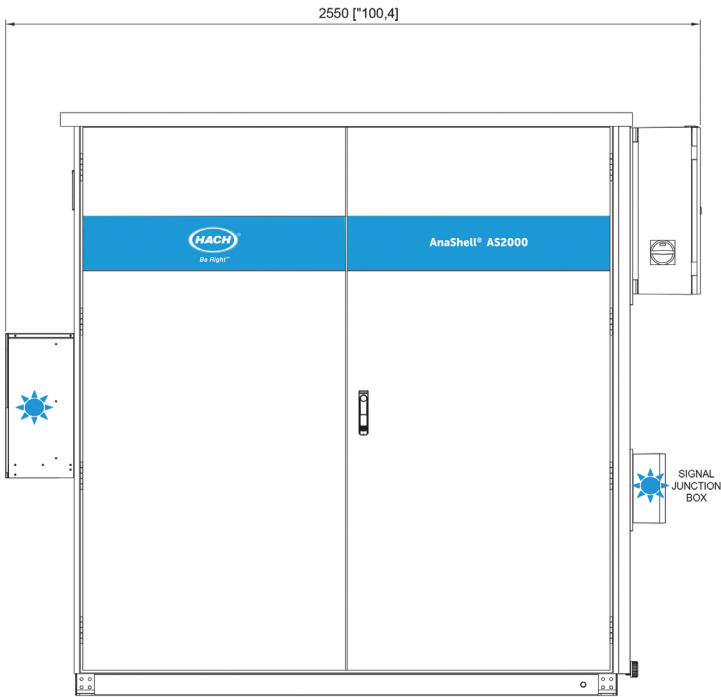


Right View

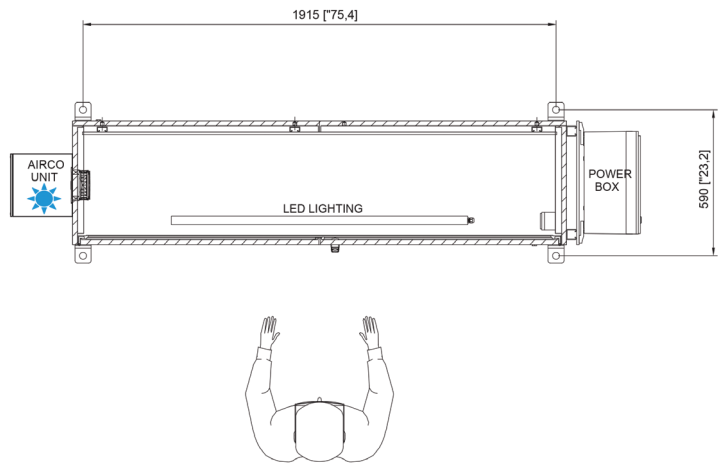


Dimensions AS2000

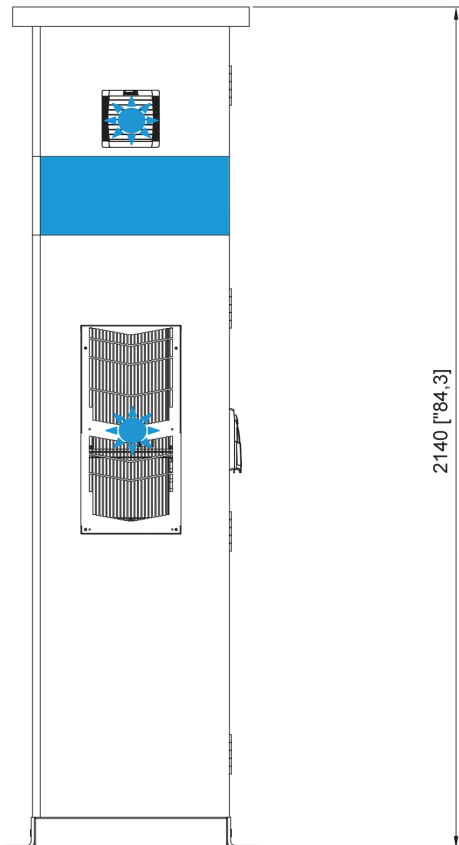
Front View



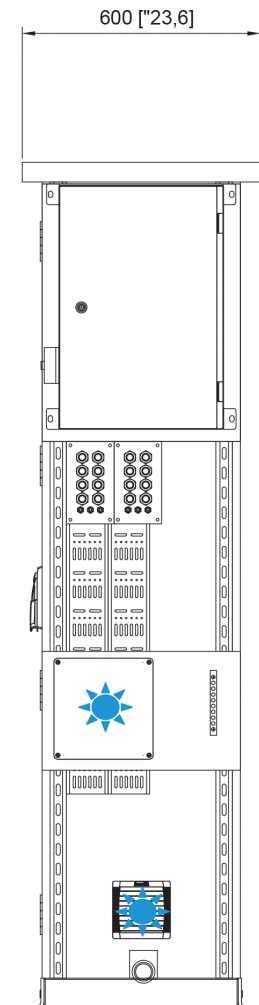
Top View



Left View

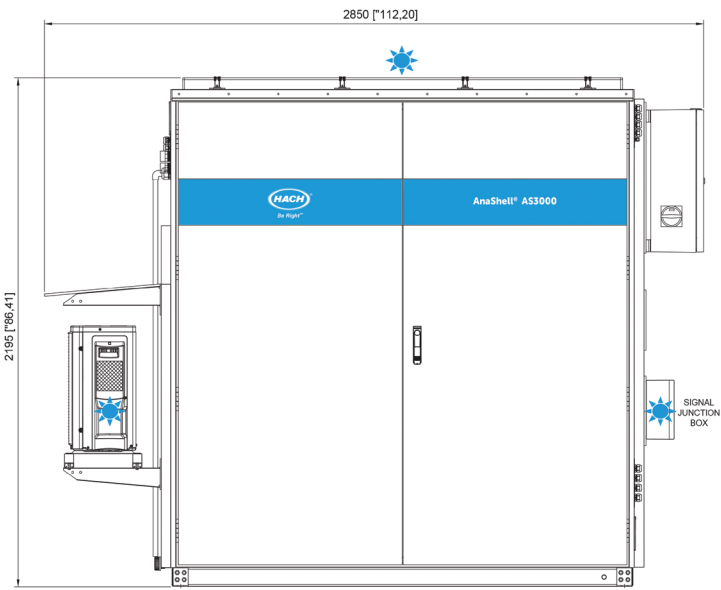


Right View

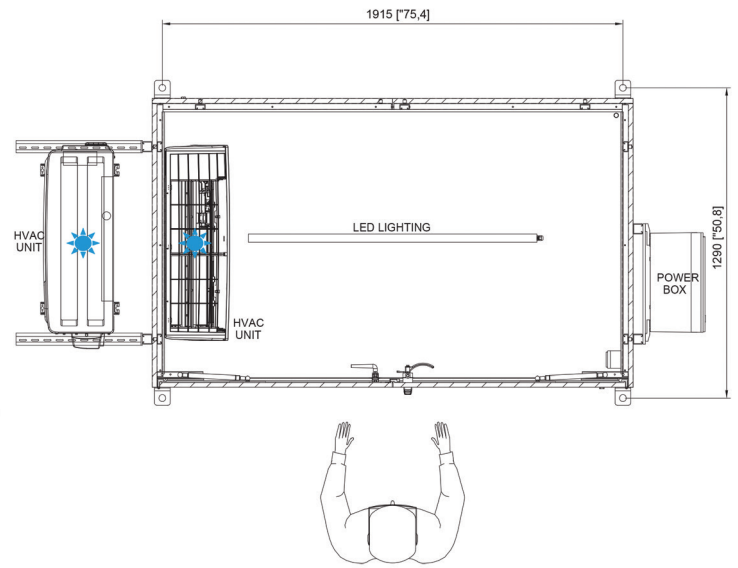


Dimensions AS3000

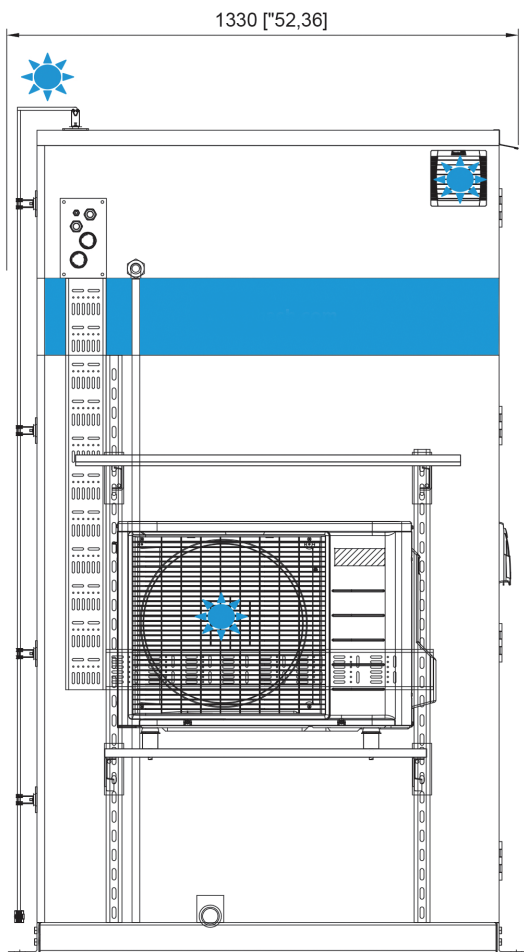
Front View



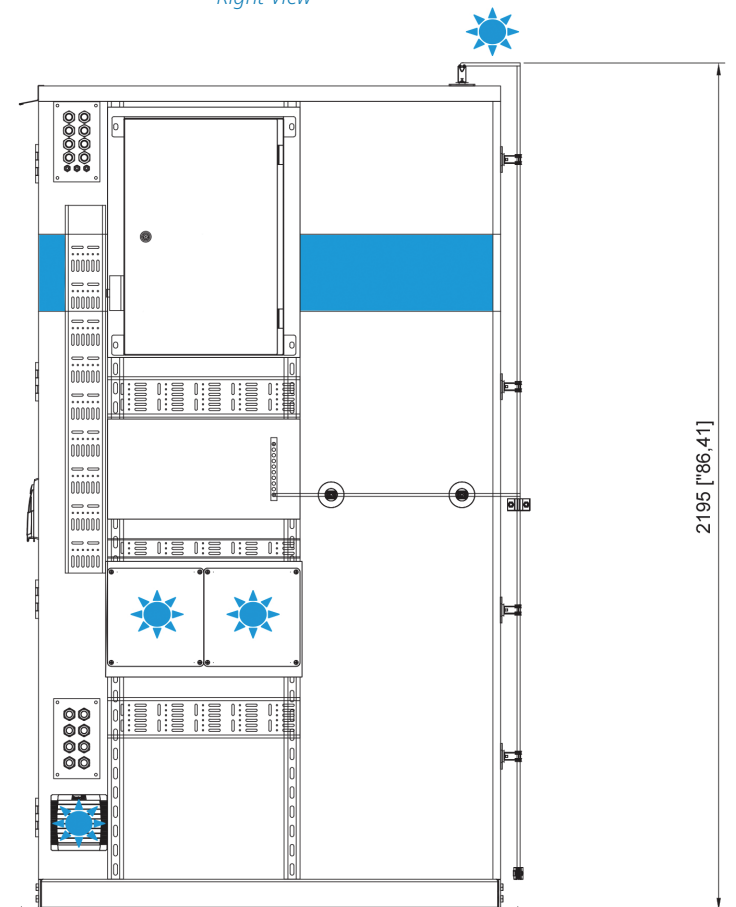
Top View



Left View



Right View



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