

# NIXUS | ECOS 20 Expandable container shelter



The most extendable container system using high pressure inflatable roof



2 h



2 persons



100 - 120 km/h



50 kg/m<sup>2</sup>



Front modularity with other ECOS shelters. Front and lateral connectivity to other objects.

## GENERAL DATA

shelter model:	NIXUS   ECOS 20 - Expandable container shelter of ISO 20' size
use:	An ideal solution to build a modular hospital or camp for long term use. May serve as a Command post too.
general benefits:	NIXUS   ECOS is a patented solution of quickly decomposable containers in the form of tilting the frames forming the side walls and subsequent inflation of the roof, whose supporting system is high-pressure beams NIXUS. The system frame has a built-in inflatable compressor and electrical substation. The walls have a built-in complete infrastructure for immediate use, consisting of electrical installation and sockets and, on request, LAN or optical cables, in the case of hospital use also water and compressed air distribution.
model benefits:	ECOS 20 built on the basis of a 20' ISO container with a wide range of transport and handling options. Capacity offers space for 12 beds, such as single beds or bunk beds.
shelter system:	NIXUS   ECOS is a combination of a metal frame and an inflatable roof.
technical description of frame system:	The frame of the container is steel, the same standard as ISO containers. Tilting frames are made of aluminum profiles, panels with PUR foam serve as filling and insulation.

## MODEL DATA

	Model	dimension (m)			(m2)
		width	length	height	Floor area
	ECOS-20-1	8,1	6,1 (20 ft)	4,20	48,0
	ECOS-20-2	13,8	6,1 (20 ft)	4,20	82,0

## MATERIAL SPECIFICATION

working temperature range:	- 46° to +70°C			
weight:	TBC			
material of frame:	Steel main frame and aluminium tilting frames			
material of canopy:	650 g/m2, FR, one side PVC coated polyester, UV resistant, antimildew. Heavy duty black zipper at the door.	matt white	matt sand	matt olive green
		white	grey	grey
floor:	antislippery 480 g/m2, FR, PVC coated polyester			

## TENT COMPONENTS

walls:	Insulated panel side walls with a basic infrastructure inside. Exact infrastructure to be specified with the order.
windows:	Tilting windows and emergency doors are an optional accessory of the shelter.
anchoring:	Due its own weight, it is enough to anchor or ballast corners and middle of every tilted wall.

tent set includes:	Standard scope of the delivery: PVC floor, personal door, duct sleeves for HVAC at two lateral sides, ventilation openings, electric distribution box, air compressor, log book			
VARIABILITY				
properties:	fabric type, roof and frame colour, number and size of windows, type of doors, wall infrastructure content			
accessories :	hygienic or insulation liner; sunshade, IR camouflage net, hard or soft floor, berths,...			
basic options:	insert soft floor, antislippery PVC, FR, 480 g/m2 	insert insulation soft antislippery 2 mm; 850 g/m2 PVC, FR, 	underfloor grade tiles - 4,8 kg/m2 LDPE 	modular floor, 27 mm; 4,7 kg/m2 PPCP 
	hygienic berth, 1-layer Ripstop, 75- 90 g/m2 	hygienic inner liner on the roof; 1- layer Ripstop, 75- 90 g/m2 	insulation inner liner on the roof, 3- layer, 430 g/m2, polyester 	
	sunshade, bicolour (sand/green) PVC mesh 330 g/m2 	IR camouflage net, 300 g/m2 Polyamide, PVC 		
equipment :	electric distribution boxes, cables and LED lights, HVAC			
basic options:	lighting, LED tubes (white or white/red option) 	HVAC - Dantherm 	Inner ducting 	
PACKING				
packing for transport:	When packed, ECOS acts as a standard certified ISO container.			

