



Section 1: Product Specification

1.1. Trade name

Vapor Curing System 50

1.2. Manufacturer

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The accelerated vapor curing system for **LithoPore®** foamed concrete provides efficient and accelerated curing up to 70° C and 99 % relative humidity. Temperature and humidity are consistent throughout the entire curing chamber.

After the predetermined waiting phase 1, usually four (4) to ten (10) hours, during which the **LithoPore®** foamed concrete achieves its green strength and can be cut in case of block production, the curing chambers will be loaded. Once the chamber is completely filled the tarp door is closed, the temperature is slowly increased at approximately 15 K per hour, over a period for four (4) hours during the Ramp phase. Once the **LithoPore®** foamed concrete has reached maximum temperature, it is held at that temperature as long as necessary (final treatment phase).

A circulation unit – one (1) unit per chamber – is included to ensure consistent temperature and humidity inside the curing chamber for consistent strengths and colors.

At the conclusion of the final treatment phase, the exhaust system removes warm moist air – essentially drying the chamber and floor during the exhaust phase, which lasts between 30 minutes and one (1) hour.



TECHNICAL DATA SHEET

Section 2: Technical data

Number of chambers:	1
Dimensions each chamber:	
Depth:	2.80 m
Width:	3.12 m
Height:	5.65 m
Curing temperature:	70°C
Humidity range:	99 %
LithoPore® foamed concrete / hour:	2 m ³
LithoPore® foamed concrete / chamber:	19 m ³
Quantity of moulds with large blocks in	
Height / chamber:	5 each
Depth / chamber:	2 each
Width / chamber:	2 each
Moulds / chamber:	20 each
Storing / operating temperature:	+5°C to +60°C
Electrical data	
Vapor generator motor	
Sets:	one (1)
Power:	11 kW
Voltage:	400 V / 3 PH / 50 Hz
Axial exhaust ventilator	
Sets:	one (1)
Power:	0.19 kW
Voltage:	400 V / 3 PH / 50 Hz
Axial circulation ventilator	
Sets:	one (1)
Power:	0.19 kW
Voltage:	400 V / 3 PH / 50 Hz
General	
Amperage:	20 A
Voltage:	230 V / 1 PH / 50 Hz
Fuel	
Gas	28 m ³ /h (10.7 kW/m ³) constant and regulated at 1 bar
or	pressure
Diesel	42 l/h (7.3 kW/m ³ constant and regulated a 1 bar pressure
Fresh Air	
	360 m ³ /h (6m ³ /minute/300 kW)
Water	
Volume:	0.48m ³ /h maximum
Pressure:	3.00 bar
Hardness:	1°
Quality:	standard (European accepted water quality)





Section 3: Application

The Vapor Curing System 50 is only suitable for the **LithoPore®** plant concept. It is not sold separately.

The information contained in this product specification is based on our current state of knowledge and experience. It does not free the user from making his own tests and trial applications. A legally binding assurance of certain properties cannot be inferred from this information. Any existing patent rights as well as any pertinent legal regulations must be observed by the recipient of our products under his own responsibility.

