



Picture only, original version can vary

## Section 1: Product Specification

### 1.1. Trade name

# Vapor Curing System 400

### 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 twelve (12) 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 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

Vapor Curing System 400

01/2018

Section 2: Technical data

Number of chambers:	8
<b>Dimensions each chamber:</b>	
Depth:	~3.14 m
Width:	~13.50 m
Height:	~4.25 m
Curing temperature:	70°C
Humidity range:	99 %
LithoPore® foamed concrete / chamber:	30 m <sup>3</sup>
Quantity of moulds with large blocks in	
Height / chamber:	2 each
Depth / chamber:	2 each
Width / chamber:	8 each
Moulds / chamber:	32 each
Storing / operating temperature:	+5°C to +60°C
<b>Electrical data</b>	
Vapor generator motor	
Sets:	one (1)
Power:	15 kW
Voltage:	400 V / 3 PH / 50 Hz
Axial exhaust ventilator	
Sets:	eight (8)
Power:	0.19 kW
Voltage:	400 V / 3 PH / 50 Hz
Axial circulation ventilator	
Sets:	eight (8)
Power:	0.19 kW
Voltage:	400 V / 3 PH / 50 Hz
General	
Amperage:	20 A
Voltage:	230 V / 1 PH / 50 Hz
<b>Fuel</b>	
Gas	43 m <sup>3</sup> /h (10.7 kW/m <sup>3</sup> ) constant and regulated at 1 bar pressure
or	
Diesel	63 l/h (7.3 kW/m <sup>3</sup> constant and regulated a 1 bar Pressure
<b>Fresh Air</b>	450 m <sup>3</sup> /h (6m <sup>3</sup> /minute/300 kW)
<b>Water</b>	
Volume:	0.72 m <sup>3</sup> /h maximum
Pressure:	3.00 bar
Hardness:	< 1°
Quality:	standard (European accepted water quality)
Climate:	ambient equipment temperature 5°C minimum and 40°C maximum





### Section 3: Application

The Vapor Curing System 400 is only suitable for the LithoPore® plant concept. It is not sold separately.

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