

Pathfinder Systems, Holland, Michigan 49424, USA

Rack system and concrete curing solution for a new, high capacity plant

Pathfinder Systems and partner, CureTec Energietechnik GmbH & Co. KG, recently addressed a customer's need for a rack system and a concrete curing solution. Basalite Concrete Products in Surrey, BC was in need of a new insulated rack system and curing system for a new, high capacity Tiger TG-6 concrete manufacturing plant which should be placed into an existing building. This system had to be able to cure a variety of products, including retaining wall units, pavers, and block. Because of the versatility of the product line; output, ease of change over, and consistent quality were highly important motivators. Planning was critical in bringing the correct solution for all products.

CureTec was selected to provide an insulated, galvanized rack system including automatic insulated roller shutter doors and the curing system. CureTec came up with the solution of pairing the individual curing chambers with a very efficient NDG steam generator, air circulation and exhaust system. Other than most traditional boilers which need to boil the water first to get steam, the CureTec NDG Steam Generators are direct fired systems which deliver steam within seconds.

The processed water is used for cooling of the hot components prior to being fed into the combustion chamber. It then combines with the hot combustion gases generating steam immediately. The steam temperature can be controlled between 212°F (100°C) to 752°F (400°C) by the amount of water added to the process. Due to the direct fired system, an energy efficiency of 98% is achieved. This way cost savings up to 40% can be achieved compared to most traditional boilers. The NDG Steam Generators come with all necessary security devices and the suitable certificates for secure and legal operation.

NDG steam generators have the ability to ramp up an individual number of curing chambers, thus only burning enough fuel for the chambers which require temperature.



CureTec was selected to provide an insulated, galvanized rack system and the curing system.

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In addition, the touch screen at the curing control system allows for exceptional operator control of temperature, humidity and air circulation in order to achieve optimal curing results. Added air circulation also allows for an even curing environment within each individual chamber. Since the operator

can “dial into his exact need,” this is a substantial fuel, water, and raw materials cost savings to the producer. CureTec curing chambers, paired with NDG steam generators are proven efficient and reliable; resulting in a very satisfied customer. ■

FURTHER INFORMATION



Pathfinder Systems
695 Ottawa Beach Road
Holland, Michigan 49424, USA
T +1 616 395 8447
F +1 616 395 5995
sales@pathfindersystem.com
www.pathfindersystem.com



CureTec Energietechnik GmbH & Co. KG
Lehmkuhlen 13
49757 Vrees, Germany
T +49 4479 9390600
F +49 4479 9390620
info@curetec.biz
www.curetec.biz