

Process Heating Solutions Worldwide

Starch Cooking

Features and Benefits:

- Low Pressure Drop
- Precise Temperature Control
- Low Mechanical Shear
- Compact Design
- Non-Plugging



Pulp & Paper Industry Case History

Application:

A converting mill producing a range of specialty coated printing and copier papers, required a steam injection heater for cooking cationic starch slurry, up to 35% solids. The heater serves a dual function. First, water is pre-heated to 140°F and blended with starch powder. Then the starch slurry is pumped back through the heater at a rate of 40 GPM and cooked at 200°F. Depending on the recipe, post dilution is used to obtain final consistency.

Process Conditions:

40 GPM
50°F
200°F
65 PSIG
50 PSIG
2,580 lb/hr

Solution:

A **Pick Model 6X25-3BX Heater** was selected for this application. Its generous flow-through design imposes negligible pressure drop on the slurry. It provides thorough cooking at a precisely controlled temperature. The low velocity design minimizes mechanical shear of the starch granules, an important factor for most cationic starches.



R & B WHITEMAN (Sales) Pty Ltd = PO Box 1214, Hawksburn = VIC 3142 AUSTRALIA P: 61 3 9525 0222 = F: 61 3 9525 0244 = info@rbwhiteman.com.au = www.rbwhiteman.com.au