

# Questionnaire for a Caustic Recovery Plant (CRP)



Company: *		Contact: *	
Address:		Phone:	
		Fax:	
		E-Mail: *	
Quotation:	Budget:	Phonecall:	Visit:
until:	until:		

  

Mercerising machine: brand		model	
Mercerising speed: average	m/min,	maximum	m/min
Average quantity of fabrics:	m/day, width:	m,	weight: g/m <sup>2</sup>
Production time:	h/day, days/month,	→ dry fabrics:	kg/h
with ltr weak lye / kg dry fabrics	the flow rate of weak lye is:	*	m <sup>3</sup> /h
Caustic concentration of the	weak lye (wash liquor):	*	°Bé
	mercerising solution:	*	°Bé
	fresh lye from the stock:		°Bé

  

What kind of fabrics are mercerised?

Condition of fabrics before mercerising:

singed:	yes	no	desized:	yes	no	washed:	yes	no
bleached:	yes	no	dry	wet	if wet, pick up of the fabrics:			%

  

How much water is required for pre-treatment?

singeing:	m <sup>3</sup> /h	mercerising:	m <sup>3</sup> /h	bleaching:	m <sup>3</sup> /h
desizing:	m <sup>3</sup> /h	dyeing:	m <sup>3</sup> /h	total:	m <sup>3</sup> /h

Do you have heat recovery systems on the pre-treatment machines?      yes      no

  

Available heating steam pressure:	*	bar(g)
Required hot water temperature (max. 80...85°C):	°C	Cooling water inlet temperature: *
Power supply:	phases	Hz      V

  

In case we should provide a pay-back calculation, we need the following costs:

1 ton of steam		1 m <sup>3</sup> of soft water
1 kg of NaOH	100%	1 kWh
1 kg of H <sub>2</sub> SO <sub>4</sub>	100%	personnel costs per hour
1 kg of H <sub>2</sub> O <sub>2</sub>	30%	

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**K O E R T I N G . D E**