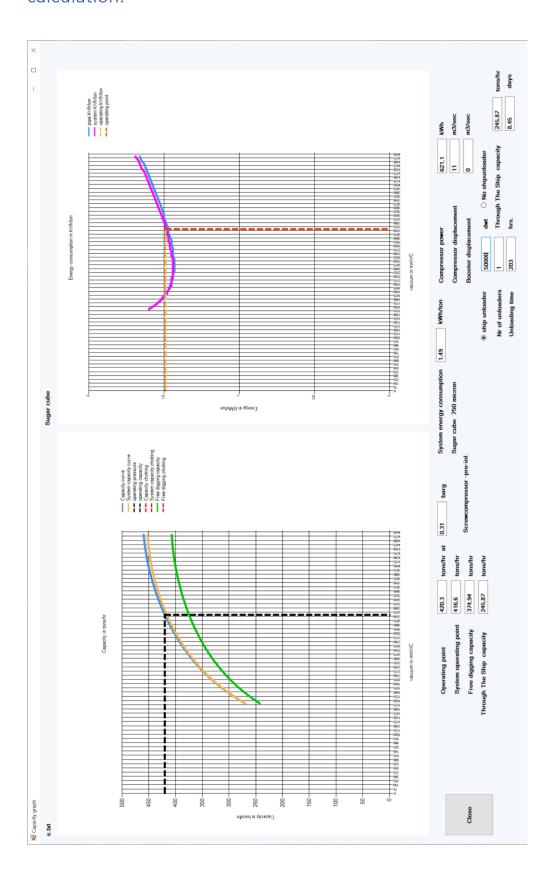
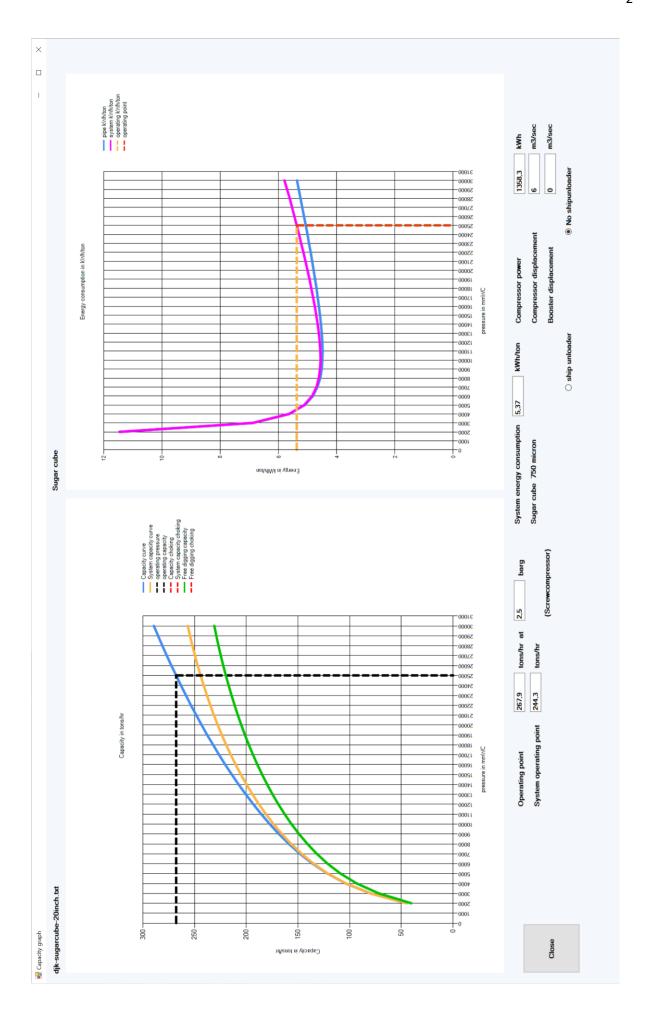
Pneumatic vacuum/discharge ship unloader system orientational calculation.





🖳 Through The Sł	🛂 Through The Ship performance unloader					×
Client	John Atkins					
Filepath	C:\Users\Teus Tuinenbu	irg\Documents\PnConvCalc	C:\Users\Teus Tuinenburg\Documents\PnConvCalcs\djk-sugarcube-20inch.txt			
Product	Sugar cube					
Vacuum system			Pressure discharge system		Actual Through The Ship Performance	U
Free digging capacity	capacity	361,9 tons/hr	Free digging capacity	244.2 tons/hr	Free digging capacity	244.2 tons/hr
Vacuum Thro	Vacuum Through The Ship efficiency	2 29	Disch. Through The Ship efficiency	65	Actual Through The Ship efficiency 65	2 2
Vacuum TTS capacity	capacity	235,2 tons/hr	Disch. TTS capacity	158.7 tons/hr	Through The Ship capacity	158.7 tons.∕hr
Vacuum syste	Vacuum system cycle time	321,3 seconds	Disch. system cycle time	476.1 seconds	average TTS cycle time	476 seconds
Power consu	Power consumption vacuum system	1.52 kWh/ton	Power consumption disch. system	5.36 kWh/ton	Power consumption TTS system	7.19 kWh/ton
			Number of discharge pipes	_		
Back to Main Menu	k to Main Menu	Calculate Back to Pressure input screen	Design/performance versus contract performance Design capacity Tons/hr Discharge system und Through The Ship capacity Remark: Pressure discharge system is determining the Through The Ship performance Remark: Vesselcontent of vacuum system not equal to vessel content of pressure system Vacuum/pressure system	tons/hr tons/hr tons/hr ng the Through Th	erdesigned	51.1 z

Comments

This calculation is the first step in the design process.

The next step in the procedure is to improve the design, by searching for the optimum solotion based on material flow- and pneumatic conveying lab tests