

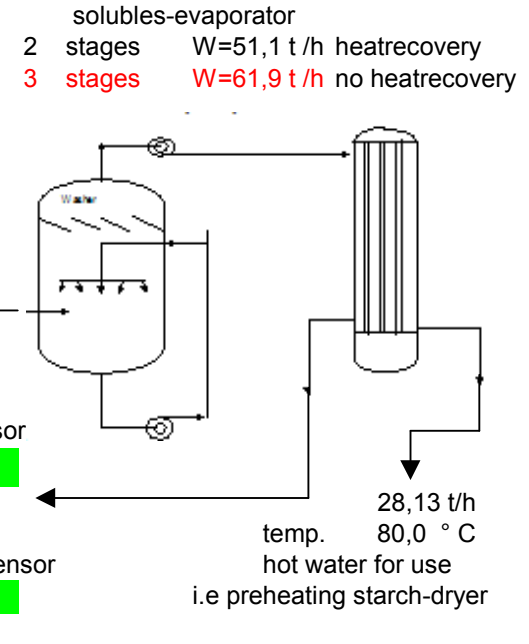
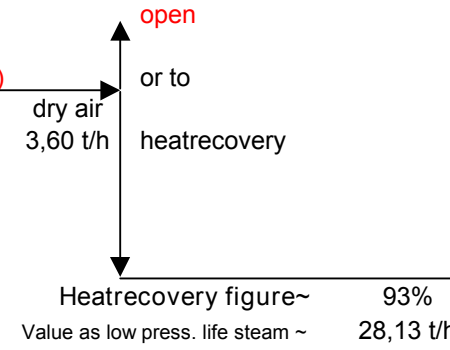
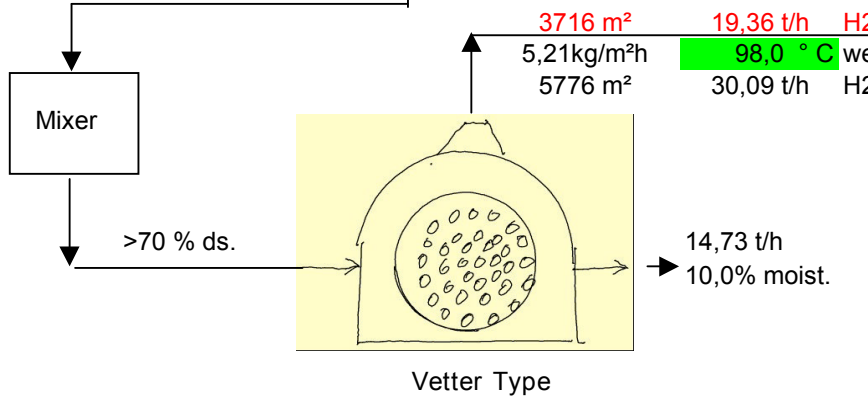
Feed production from ethanol

Ethanol Production = Strg+e

Starch Production = Strg+s

- Rawmaterial 14 % moisture (corn or wheat)
- Total residues to feed of rawmaterial
- Solid residues to feed of total residues
- Soluble residues to feed of total residues
- Solid residues to dryer
- Soluble residues before evaporation
- Solubles residue after evaporation
- Solubles residue after evaporation

		1000 tcb/d
	37,0%	13,3 ds t/h
	20,0%	2,7 ds t/h
	80,0%	10,6 ds t/h
	35,0 % ds	7,6 t/h
	12,0 % ds	88,4 t/h
	28,5 % ds	37,2 t/h
	40,0 % ds	26,5 t/h



Liquid residues (to feed) % ds =	28,5%	40,0%
Nr. of evaporator stages	2	3
Stage evaporator efficiency	0,55	0,37
Steam to dryers (both systems equal)	10,0 bar absolut	179,9 ° C
Dryer condensate flash steam pressure	1,0 bar absolut	99,6 ° C
Fresh steam flow to dryers	39,8 t/h	25,6 t/h
Dryer condensate flash steam return	- 6,1 t/h	- 3,9 t/h
Evaporator steam demand	28,13 t/h	22,69 t/h
Steam for evap. obtained from heatrecovery	- 28,13 t/h	
Total consumption (Standart steam 1 bar)	33,7 t/h	44,4 t/h
fresh steam to evaporator (1 bar)	0,00 t/h	22,69 t/h fresh steam to evaporator (1 bar)