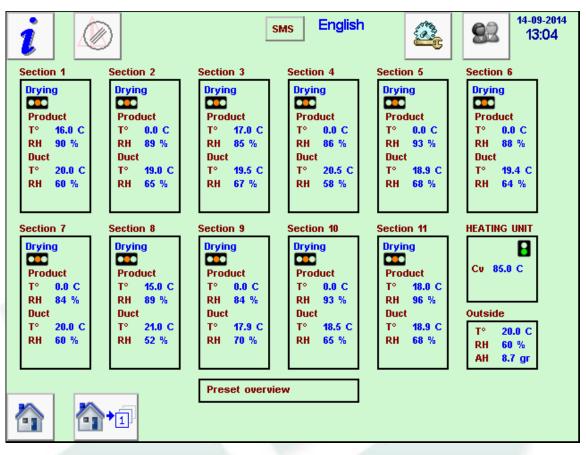
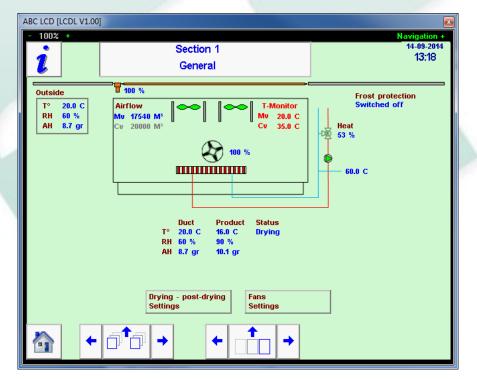


DRYING INSTALLATIONS & EQUIPMENT ABC processor for box drying



Touch screen with overview off a drying installation with 11 sections. Per section a square with basic information about the drying; T° and HR.



By clicking on one of the sections (squares), detailed information about the section appears. By clicking on `drying post-drying Settings' the setting-page for the section will open.

For the standard box drying installations, the drying is divided in 2 parts; Drying and Post-drying.



## DRYING INSTALLATIONS & EQUIPMENT ABC processor for box drying

ABC LCD [LCDL V1.00]								
- 100% +			ction 1 RH settings.		1:2		Navigation + 14-09-2014 13:19	
Choice: drying / post-drying / off     Drying       Load preser nr.     1     Save as preset nr.     0       Settings same as preset     ✓								
	Min.	Drying Max.	Desired	Min.	Post-dry Max.	ying Desired	Measurem	
Product T °		32.0 C			32.0 C	25.0 C	16.0 C	
Duct T° Product RH	15.U C	33.0 C	21.0 C	15.0 C	33.0 C	21.0 C 35 %	20.0 C 90 %	
Delta T ° Delta AH			5.0 C 3.0 gr			1.0 gr	4.0 C 1.4 gr	
Duct AH Hatch position	2.0 gr 0 %	100 %		5.0 gr 0 %	100 %		8.7 gr 100 %	
Flow per box	• / •		1000 M3			500 M3	17540 M <sup>3</sup>	
Maximum time post-drying         150 Min.         Remaining         0 Min.           Waiting time restart post-drying         3:00         Runtime restart post-drying         0:05								
1 <b>+</b> (	ר <b>י</b> נ	•	+				], 🗿	

The drying process consists of 2 stages: Drying and post-drying.

## Drying:

The first process is 'Drying'. Herewith explanation of the different settings:

Max.	Product T °	32.0	Setting of the maximum T° of air coming out of the product. If the
			measured maximum is exceeded, the heating valve will close and alarm
			will be given. For drying and post-drying.
Min.	Duct T°	15.0	Setting for the minimum T° of ingoing air during drying. If measured T° is
			getting below this value, the hatch be closed modulated, but never less
			than the minimum hatch setting.
Max.	Duct T°	33.0	Setting for the maximum T° of ingoing air during drying. If measured T°
			is getting above this value, the hatch be closed modulated, but never less
			than the minimum hatch setting.
Desired	Duct T°	21.0	Calculated value: Measured Product T + Delta T = Desired value; 16° + 5°
2001104			= 21 °C
Desired	Delta T	5.0	Adjustable T <sup>°</sup> difference between ingoing (duct) and outgoing (product)
Desired	Delta	0.0	air.
Desired	Delta AH	3.0	Setting for the preferred difference in Absolute Humidity (AH) between
Desireu	Delta All	5.0	ingoing (duct) and outgoing (product) air.
		_	
Min.	Duct AH	2.0	Setting of the minimum AH of ingoing air during drying. If the measured
			ingoing air is getting below this value, the hatch be closed modulated,
			but never less than the minimum hatch setting.
Min.	Hatch position		Setting of the minimum position of the hatch during drying
		0	
Max.	Hatch position	100	Setting of the maximum position of the hatch during drying
		1000	
Desired	Flow per box	1000	Setting of the desired air volume in m <sup>3</sup> /h for this section during drying.
			Total airflow is air per box X number of boxes.



## Post-drying:

There are to options to switch from `Drying' to Post-drying'`; When `Product HR' has reached the desired level or when `Product Temperature +HR' has reached the desired level. You can chose:

Switching drying - post-drying based on: (lev
RH
Temperature+RH

So 'Drying' will switch to 'Post-drying' when the 'Desired Product RH' or the 'Desired Product RH'+'Desired Product T°' have been reached. During 'post-drying', the value at 'Desired Product T°' will be maintained. With an increasingly drier product the T° of the ingoing air will be almost equal to the 'Desired Product T°' because the air does not cool down as much. Furthermore, during 'Post-drying' the 'Desired Delta AH' and the 'Min Duct AH' are set.

Desired	Product T		Desired final T° o stopped.	of outgoing a	air (and product	t) when drying has
Desired	Product RH		Desired HR of th	e air coming	out of the seed	d when dry.
			Air capacity	: Set airflow		
	AE	C LCD [LCDL V1.00]			Navigatio	
		1	Section 1 Fan settings		14-09-2 13:2	
		General				
		Fan on/off	Numb V 20	er of boxes		
		Drying				_
		Airflow per box ✓ 1000 M3	Cap % 100 %	Airflo Desired ✓ 20000 M3	w Measured ❤ 17540 M <sup>3</sup>	
	6	Type of airflow r	egulation drying	Flow		
		Post-drying		Airflo	w	
		Airflow per box 500 M3	Cap % 60 %	Desired 0 M3	Measured 17540 M <sup>3</sup>	
		Type of airflow r	egulation after drying	Flow		
		▲		<b>↑</b> →		
Fan on/o	off Standard sw	viched `On'. C	) nly for `Pause' (	check seed)	set `Off' 🗶 Fa	an on/off
Type of a	irflow regula	tion drying	l -	Flow		
The capacity	of the fan can b	e controlled	by:			
• Flov	v:					
	<ul> <li>m<sup>3</sup>/h air pe</li> </ul>					
	• Calculation;	Number of	boxes <sub>X</sub> Airflo	w per box _	Desired Air	flow
• Cap	acity:					
		aring of frequ	ency control			
	<ul> <li>Setting: Ca</li> </ul>					
🐱 1000 M3	3	100 %	♥ 20	0000 M3	✓ 17540 M <sup>3</sup>	
•	ing' is active and boxes X		een chosen; 🎽 a 000 M3	at airflow pe	r box for drying	
			ng to +/- 200 M3	3 of desired	airflow.	

With `airflow regulations' on `flow', the operator only set the number of boxes!