Operating Instructions Summary B400/B410/C440/C450/P470/P480

1.1 **Basic Functions**

Print this page in order to have the basic operating instructions on hand at all times. Read the safety instructions in the controller operating instructions.

Read the tutorials on the Internet					
To access the operating instruction quickly, scan the QR code with your smartphone or enter the Internet address in your browser: www.nabertherm.com/tutorials/controller Apps to scan QR codes can be downloaded from the corresponding sources (app stores).					
Turn on the controller					
Turn on the power switch.			Set power switch to " I ". (power switch type varies according to		
You are in the overview.	<u> </u>		design/turnace model)		
Set language with the quick selection buttons					
Steps	Operation	Display	Comments		
Press the Info button	i	PID OUTPUT			
Press and hold the menu button (2 sec.)		Language English			
Briefly press the jog dial	P	language English			
Turn to select the language	i	Language English			
Press to confirm	R	Language English			
Select overview					
Steps	Operation	Display	Comments		
Press the Back button			To go to the overview, press the Back button for 2 sec.		

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Select overview				
Steps	Operation	Display	Comments	
The menu icon is shown in the top left-hand side of the display when you reach the overview.		₽02 - 512 ■ P02 - 512 QQ , °,		
Load and start the prog	ram (if applicab	le, enter a program beforehand	l)	
Steps	Operation	Display	Comments	
Return to overview. Briefly press the jog dial		P 02 - 5 12 980°C CHA 000°C - 400°C TP 025°C 01:14 3 45		
Turn to select the program	i			
Press to confirm				
Press to reject delayed start: [NO]		DELAY START ND		
Press Start to start the program				
Stop program				
Steps	Operation	Display	Comments	
Press and hold the Start button to stop the current program (2 sec).				

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1.2 Entering a New Program (Program Table)

Program entry is described in more detail in "Entering or Changing Programs".

First, fill the program table. **Program name** Furnace Other

Program options (depending on furnace features).

Activate charge control

Segment	Temperature		Duration of the	Additional functions (optional):				
			segment		1			
	Start temperature	Target	Time [hh:mm]	Controlled		Extra f	unctior	15
	T _A	temperature	or rate [°/h])	cooling	1	2	3	4
1	(0 °)							
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
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= Value is transferred from previous segment

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Enter a new program					
Steps	Operation	Display	Comments		
Press [MENU], turn to select [ENTER PROGRAM] and press to confirm	٩	enter program			
Turn to select an empty program and press to confirm	Ŕ	PROGRAM NAME PO 1	The program number is shown in the menu bar		
Program name: Change name: -> Print Do not change the name: -> Turn more	Ŕ	Program Name Sintering	Change default name (e.g. "P01"): Turn to change flashing sign, press to confirm sign. Press for 2 sec. to complete entry, the 1st segment is displayed.		
Press to confirm segment [S01]. Segment number is shown in the menu bar.	Ŕ	P01 - 501	P01-S01 means: First segment [S01] of program 01 [P01]. A program can consist of several segments.		
If necessary, turn to select the start temperature [TA] of the segment. This is necessary only in the first segment. Press to confirm.	Ŕ	° C TA: 000°C END	The start temperature [TA] is a chosen temperature at which the program should begin. Normally, this setting does not have to be changed, as the furnace usually starts at the current temperature. In this case, simply press the jog dial to confirm.		
Turn to enter the target temperature of the first segment. Press to confirm.	Ŕ	400 °C TA: 000°C TIME 01:00			
Turn to select whether you wish to enter the time [TIME] or degrees per hour [RATE]. Press to confirm.	Ŕ	400 °C TA: 000°C TIME 01.00	Enter the time [TIME] in the format hour:minute (hh:mm), and the [RATE] in degrees per hour (°/h).		
Turn to enter the time [TIME] or degrees per hour [RATE] for the segment. Press to confirm.	Ŕ	400 °C TA: 000 °C TIME 01:00 RATE 250 °/h			

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Repeat the steps described above until you have entered all the segments. If you do not need another segment, do not enter a target temperature in the last segment ([END] is displayed) but save the program, as described in the next step.

Extra functions set in the end segment remain set when the program is finished.

