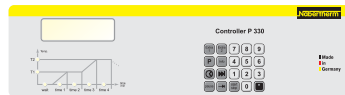


Measurement and Control Systems



B 180



P 330



B 150



C 290



C 40/C 42



C 295



H 100

Nabertherm has many years of experience in the design and construction of both standard and custom control system. All controls are remarkable for their ease of use and even in the basic version have a wide variety of functions.

Standard Controller

Our extensive line of standard controllers satisfies most customer requirements. Based on the specific furnace model, the controller regulates the furnace temperature reliably. The standard controllers are developed and fabricated within the Nabertherm group. When developing controllers, our focus is on ease of use. From a technical standpoint, these devices are custom-fit for each furnace model or the associated application. From the simple controller with an adjustable temperature to the control unit with freely configurable control parameters, stored programs, PID microprocessor control with self-diagnosis system and a computer interface, we have a solution to meet your requirements.

Assignment of Standard Controllers to Furnace Families

	N 560/26.. - N 100000/45	N 15/65HA - N 500/85HA	N 120/65HAC - N 500/65HAC	W 1000/65A - W 100000/85A	N 31/H - N 1491	H 125 - H 3000	HC 665 - HC 1500	N 100/G - N 2200	W 1000/G - W 100000/14	GF 75 - GF 1425	GFM 420 - GFM 1050	GW 2925/S	HG 750 - HG 7608/S	GW 830 - GW 8000	HT 04 - HT 450	HT 64/16 LB - HT 400/17 LTS	HFL 16/16 - HFL 160/17	TS 20/15 - TSB 70/90	VHT	LH 15/12 - LF 120/14	N 40/14	SC 8
Catalog page	4	6	7	8	9	10	11	12	14	18	20	23	24	26	28	30	31	33	35	38	40	40
Controller																						
B 130								●														
B 150	●				●																●	
B 180		●	●																			
P 330		○	○																			
C 280								○														
C 290	○			●	○	●		○	●				●									
C 295										●	●											
C 40/42															●		●					
H 700							●	○	○				○	○	○	○	○	○	○	○		●
H 1700	○		○	○		○	○	○	○			○	○	○	○	○	○	○	○	○		○
H 3700	○		○	○		○	○	○	○			○	○	○	○	○	○	○	○	○		○

Functionality of the Standard Controllers

	B 130	C 280	C 290	C 295	B 150	C 40	C 42	B 180	P 330	H 700	H 1700	H 3700
Number of programs	2	9	9	9	1	9	9	1	9	10	10	10
Segments	4	4	40	40	2	18	18	2	40	20	20	20
Extra functions (e.g. fan or autom. flaps)		2	2 ³	2 ³		2	2		2	2	5	8
Maximum number of control zones	1	1	1			1 ⁴		1	1	3	8	8
Graphic color display										5,7"	5,7"	12"
Status messages in clear text	●	●	●	●	●	●	●	●	●	●	●	●
Start time configurable (e.g. to use night power rates)	●	●	●	●	●	●	●	●	●	●	●	●
Operating hour counter	●	●	●	●	●	●	●	●	●	●	●	●
Auto tune	●	●	●	●	●	●	●	●	●	●	●	●
Program entry in steps of 1 °C or 1 min.	●	●	●	●	●	●	●	●	●	●	●	●
Keypad lock	●	●										
Skip-button for segment jump			●	●					●			
Drive of manual zone regulation				●		●						
Interface for MV software	○	○	○	○	○	●	●	○	●			
Programmable power outlet									● ¹			
kWh meter	●	●	●	●	●	●	●	●	●	●	●	●
Real-time clock						●	●		●	●	●	●
Bath control/charge control										●	●	●
Data entry via touchpanel										●	●	●
Data input via number pad									●			

¹ Not for model L(T)15..

² Not for melt bath control

³ As an extra feature in ovens with air circulation

⁴ Control of additional separate slave regulators possible

● Standard
○ Option

Mains Voltages for Nabertherm Furnaces

Single-phase: all furnaces are available for mains voltages from 110 V - 240 V at 50 or 60 Hz.

Three-phase: all furnaces are available for mains voltages from 200 V - 240 V or 380 V - 480 V, at 50 or 60 Hz.