

NABERTHERM CONTROLLER SYSTEMS

Measurement and Control Systems



B 170

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.



P 320

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.



B 150

Assignment of Standard Controllers to Furnace Families

	L 3 - LT 40	LE 2/11 + LE 4/11	LE 6/11 + LE 14/11	LV, LVT	L 9/11/SKM	L(T)9/./SW	N 7/H - N 61/H	R	RT	RS	RSR	RHTC	RHTH/RHTV	LH 15/12 - LF 120/14	LS*	GR*	N 110/HS, S 73/HS	TR	N 15/./HA	N 30/./HA - N 560/./HA	HTC	LHT 02/16 - LHT 08/18	LHT/LB-LHT/LBR	HT	HFL	VHT	K	KC	T	
Catalog page	4,7,12	6	6	8	10	11	14	16	17	18	20	21	22	30	32	32	33	34	36	36	37	38	39	40	41	42	46	46	47	
Controller																														
B 170	✓							✓	✓			✓									✓									
P 320	●					✓						✓										✓								
R 6		✓																												
C 6																														
B 150			✓																											
C 290																														
C 295																														
C 40/42																														
H 100								✓					✓																	
HiProSystems																														
2208e																														
H 700																														

*with additional slave controllers C6Z



C 290



C 40/C 42

Functionality of the Standard Controllers

	B 170	P 320	R 6	B 150	C 290	H 100	C 40	C 42	C 295
Number of programs	1	9	1	1	9	9	9	9	9
Steps per program ¹	2	8	1	2	40	8	18	18	16
Extra functions (e.g. fan or autom. flaps)		2			2	2	2	2	2
Skip-button for segment jump					✓				
Clear, blue-white LCD display	✓	✓		✓	✓		✓	✓	✓
Status messages in clear text	✓	✓		✓	✓		✓	✓	✓
Start time configurable (e.g. to use night power rates)	✓	✓		✓	✓	✓	✓	✓	✓
Power usage measurement	✓	✓		✓	✓		✓	✓	✓
Operating hour counter	✓	✓		✓	✓		✓	✓	✓
Auto tune	✓	✓		✓	✓	✓	✓	✓	✓
Program entry in steps of 1 °C or 1 min.	✓	✓		✓	✓	✓	✓	✓	✓
Keypad lock		✓							✓
Interface for MV software	●	✓		●	●	✓	●	●	●
Programmable power outlet		✓*							

¹2 steps equal to one ramp-soak pair
*not for model L(T)15..

✓ Standard
● Option



C 295



H 100

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.