


Product Group:
Type:
Rev.:
Order No. :
<http://www.weldotherm.com>
Heat treatment unit
STE- Series

04-2025

see catalogue



Fully automatic, program- controlled heat treatment units with different capacities.

STE- series machines are delivered with 6 or 12 independent channels.

Each TC80 controller allows to store up to six different heat treatment profiles. Those profiles could be linked together. Each controller has two displays which show SV and PV at the same time. These heat treatment units are highly flexible due to their 30V and 60V outputs. Faults are indicated optically and acoustically. Emergency stop main switch. Secondary RCD circuit breaker. Phase control.

Forced shutdown in case of overtemperature in the power transformer. Individual protection of the heating circuits. Temperatures are registered by a 6 or 12 channel chart recorder with 180mm paper width (standard).

Optionally a paperless screen recorder with CF- card, USB- interface, USB- cable and software is available. RS232/485, Ethernet- interface (option).

Technical data		STE 45-6	STE 70-6 / 12	STE 82-6	STE 82-12	STE 100-6	STE 100-12	STE 130-6 / 12
Control loops		6	6 / 12	6	12	6	12	6 / 12
Current per channel (A)		135	180 / 90	225	6 x 90 / 135	270	135	360 / 180
Voltage per channel		30VAC / 60VAC						
Power at 100% duty cycle		45kW	70kW	82kW	82kW	100kW		130kW
Power fuse per channel (A)		125	180 / 100	250	6 x 100 / 125	300	125	355 / 200
Control voltage		230V, 50/60Hz						
Control voltage connection cable Cross-section / Length / Connector		3 x 1,5mm² / 5m / Schuko plug						
Power requirements		400V, 63A 500V, 52A	400V, 95A 500V, 75A	400V, 119A 500V, 95A	400V, 119A 500V, 95A	400V, 150A 500V, 120A	400V, 145A 500V, 116A	400V, 188A 500V, 151A
Connection cable	Cross-section Length Connector	NSSHÖU 4 x 16mm² 5m CEE- plug 5- pole 400V / 63A	NSSHÖU 4 x 25mm² 5m CEE-plug 5- pole 400V / 125A			NSSHÖU 4x50mm² 5m Without plug, pre-assembled for permanent connection		
500V plug on request								
Temperature sensor (external)		Type K (NiCr-Ni)						
Input jack temperature sensor		Thermopanel with standard compensation sockets Type K (NiCr-Ni)						
Program controller TC80 or TC1000		6 1	6 / 12 1 / 2	6 1	12 2	6 1	12 2	6 / 12 1 / 2
Control range		-20....+1200°C						
Recorder		Standard: Paper recorder AH47/6-12 or according to customer requirements						
Recording range		0....+1200°C						
Weight in kg		380	410 / 445	450	490	570	600	590 / 640
Dimensions in mm (B x H x T)		900x1300x800				1150x1350x900		
Protection class		IP 22						
Environmental conditions		-20 ... +40°C, max. 75% rel. Humidity, not condensed						
Forced ventilation transformer		Temperature controlled 2speed fan						
Sound Emission		< 70 dB (A)						