



Reduction	Temp. reduction	Start-up Temp.	ErgoHeat zone	210	209	20	20	19.2	0.0
zone 2	210	209	20	20	19.2	0.0			
zone 3	210	209	20	20	19.2	0.0			
zone 4	210	209	20	20	19.2	0.0			
zone 5	210	209	20	20	19.2	0.0			
zone 6	210	209	20	20	19.2	0.0			
zone 7	210	209	20	20	19.2	0.0			
zone 8	210	209	20	20	19.3	0.0			
zone 9	210	209	20	20	19.3	0.0			
zone 10	210	209	20	20	19.3	0.0			
zone 11	210	209	20	20	19.3	0.0			
zone 12	210	209	20	20	19.3	0.0			
zone 13	210	209	20	20	19.3	0.0			
zone 14	210	209	20	20	19.3	0.0			
zone 15	210	209	20	20	19.3	0.0			



### Mobile integrated hot runner control

ErgoHeat is a mobile hot runner controller. It is designed to cooperate directly with the control system of your Sumitomo (SHI) Demag IM machine. With two available variants for up to 16 (ErgoHeat16) or 32 hot runner zones (ErgoHeat32), ErgoHeat will satisfy any special requirements too, as customised special versions in respect of the number of zones and power rating are readily available.

### Convenient operation

The additional heating zones are directly integrated into the existing machine control system. This enables you to operate both external and internal hot runner zones conveniently via the machine terminal. Functions, such as hot runner optimisation, boost, start-up interlock, temperature reduction, switching on/off, open loop control if wire breaks, can be operated both stand-alone and "guided" through internal hot runner zones.

### Mobility and time saving

ErgoHeat enables you to extend the hot runner capacities of your Sumitomo (SHI) Demag machine in a simple and low-cost way by means of an external hot runner cabinet.

ErgoHeat can be flexibly transferred from one machine to another. External hot runner data can be stored in the mould catalogue. This helps you to save time, for example, when changing moulds.

### High availability

There are good reasons why Sumitomo (SHI) Demag goes for total modularity in its technologies: in its control system, solid-state relays, fuses and connectors, we use only Sumitomo (SHI) Demag standard components with established power data (230 V/16 A/2.75 kW). Spare parts are quickly available and uncomplicated, low-cost maintenance is assured. So that sustained operation of your machine is ensured without any major downtime.



**ErgoHeat**  
flexible and efficient

# INTEGRATED HOT RUNNER TECHNOLOGY FOR ALL REQUIREMENTS

## Modular concept

Depending on mould requirements, the number of zones can be extended without limitation – e.g. zones 1–16 (63 A) in the smaller cabinet without casters, designed to be mounted mechanically and flexibly on your machine, zones 1–32 in the larger cabinet with casters.

## Straightforward retrofitting

ErgoHeat components can be conveniently and cost-efficiently retrofitted to all Sumitomo (SHI) Demag injection moulding machines, starting from the ERGOTECH series with NC4 controllers. An additional CAN bus interface provides data exchange. 24 V DC power is supplied and the emergency-OFF signal integrated into the injection moulding machine via a simple signal interface. Due to the provision of an external power supply, there is no need for refitting the injection moulding machine.



ErgoHeat16



ErgoHeat32

310 ERGOHEAT 1-16											
Boost		Time		Minute		0.5		Temp. reduction		ErgoHeat	
Startup protect		Remain. time		0.0		Boostoffset		Guided by internal hotrunner zones		ErgoHeat	
ErgoHeat zone	Control Set	Act.	Σ	σ	- Tol	+	Σ	Hand	Act.	Hook	Prop. %
1	210	210	0	20	20	0	0.0	16.1	0	0	16.1
2	210	210	0	20	20	0	0.0	16.1	0	0	16.1
3	210	210	0	20	20	0	0.0	16.1	0	0	16.1
4	210	210	0	20	20	0	0.0	16.1	0	0	16.1
5	210	210	0	20	20	0	0.0	16.1	0	0	16.1
6	210	210	0	20	20	0	0.0	16.1	0	0	16.1
7	210	210	0	20	20	0	0.0	16.1	0	0	16.1
8	210	210	0	20	20	0	0.0	16.1	0	0	16.1
9	210	210	0	20	20	0	0.0	16.7	0	0	16.7
10	210	210	0	20	20	0	0.0	16.7	0	0	16.7
11	210	210	0	20	20	0	0.0	16.7	0	0	16.7
12	210	210	0	20	20	0	0.0	16.7	0	0	16.7
13	210	210	0	20	20	0	0.0	16.7	0	0	16.7
14	210	210	0	20	20	0	0.0	16.7	0	0	16.7
15	210	210	0	20	20	0	0.0	16.7	0	0	16.7
16	210	210	0	20	20	0	0.0	16.7	0	0	16.7

Operating screen for retrofitting, e.g. on machines with ERGOCONTROL Operator terminal

34 ERGOHEAT 1-16											
Reduction		Control Set		Act.		Σ		σ		ED %	
Temp. reduction		150		0		20		20		19.2	
Start-up Temp.		0		0		20		20		19.2	
ErgoHeat zone 1	210	209	20	20	19.2	0.0	0.0	0.0	0.0	0.0	0.0
zone 2	210	209	20	20	19.2	0.0	0.0	0.0	0.0	0.0	0.0
zone 3	210	209	20	20	19.2	0.0	0.0	0.0	0.0	0.0	0.0
zone 4	210	209	20	20	19.2	0.0	0.0	0.0	0.0	0.0	0.0
zone 5	210	209	20	20	19.2	0.0	0.0	0.0	0.0	0.0	0.0
zone 6	210	209	20	20	19.2	0.0	0.0	0.0	0.0	0.0	0.0
zone 7	210	209	20	20	19.2	0.0	0.0	0.0	0.0	0.0	0.0
zone 8	210	209	20	20	19.3	0.0	0.0	0.0	0.0	0.0	0.0
zone 9	210	209	20	20	19.3	0.0	0.0	0.0	0.0	0.0	0.0
zone 10	210	209	20	20	19.3	0.0	0.0	0.0	0.0	0.0	0.0
zone 11	210	209	20	20	19.3	0.0	0.0	0.0	0.0	0.0	0.0
zone 12	210	209	20	20	19.3	0.0	0.0	0.0	0.0	0.0	0.0
zone 13	210	209	20	20	19.3	0.0	0.0	0.0	0.0	0.0	0.0
zone 14	210	209	20	20	19.3	0.0	0.0	0.0	0.0	0.0	0.0
zone 15	210	209	20	20	19.3	0.0	0.0	0.0	0.0	0.0	0.0
zone 16	210	209	20	20	19.3	0.0	0.0	0.0	0.0	0.0	0.0

Operating screen for retrofitting, e.g. on machines with IBED Operator terminal



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