

DECISION-MAKING MATRIX

BAND HEATERS

	ZAK	M	MC	KHK	Z					
special features	stiff, efficient Aluminium compact Band Heaters with uniform heat course for superior geometry	fast reacting, high loadable, mineral-/ or ceramic isolated contact heater with low storing effect	electric robust, ceramic isolated radiate Heater with storing effect	mica isolated standard Band Heater for injection mould and extrusion						
max. operating temperature	450°C	450°C	550°C	400°C	280°C					
jacket material	Heater: Aluminium clamp band: stainless steel or FAL	stainless steel		hot-dip aluminised steel sheet FAL						
standard operating voltage	230-250V	230-250 V		230V						
star 230/400V delta 3x400V	from 110 mm length	from 110 mm length	not possible	from 81 mm length	from 80 mm length					
max. load	4,5 W/cm ²	5 W/cm ²	6 W/cm ²	6,5 W/cm ²	3,5 W/cm ²					
wall thickness	- 11/14 mm (depends on dimension)	- 5 mm	- 7 mm	- 11 mm	- 3,5 mm					
dimension are - one-piece	Ø	length	Ø	length	Ø	length	Ø	length	Ø	length
	≥ 80 mm until 399 mm	≥ 40 mm until 400 mm	≥ 65 mm until 399 mm	38 mm ≥ 50 in 10 mm steps until 250 mm	≥ 50 mm until 225 mm	38, 50, 60 mm	≥ 60 mm until 499 mm	≥ 28 mm until 501 mm	≥ 40 mm until 399 mm	≥ 20 mm max. 3times Ø until 500 mm
multi-piece execution	from Ø	partition	from Ø	partition	from Ø	partition	from Ø	partition	from Ø	partition
	400 mm 650 mm 950 mm	in 2/2 in 3/3 in 4/4	400 mm 650 mm 950 mm	in 2/2 in 3/3 in 4/4	226 mm 450 mm 675 mm	in 2/2 in 3/3 in 4/4	500 mm 650 mm 950 mm	in 2/2 in 3/3 in 4/4	400 mm 650 mm 950 mm	in 2/2 in 3/3 in 4/4
standard clamp gap	6 /8 /12 mm (Ø-dependent)		- 6 mm							
clamp lock	clamp loops from Ø 120 mm disc spring lock (TFV)		clamp loops from Ø 200 mm disc spring locks (TFV)			until Ø 399 mm clamp loops from Ø 400 mm pressure spring locks (DFV)				
spreadability	from Ø 100 mm with 2-parted internal band		possible		from Ø 100 mm with 2-parted internal band			possible		
connection caps with solit leads (max. 17,4 A at 230V)	axial A or S radial B tangential C		axial A or S radial B, tangential C (max. 8 A at 230V)				axial A radial B tangential C			
contact fitting (3-pin) max. 16A/230V plug direction	radial B tangential C									
cable fitting max. 16 - 30A direction of lead exit	axial A radial B tangential C									
lead execution	metal braided leads until 250 °C, GLS type 600 until 600 °C								metal braided leads until 250 °C	
integral temperature sensor	type: L, J, K		type: L, J, K, and Pt 100							
holes / cutouts	particularly suitable for superior geometry		as per preset dimensions				possible			
possible thermocouple connector	X		X		X			X		
warning sign „hot surface“	X		X		X			from 36 mm		from 30 mm
as UL version possible	X		X		X			X		-

subject to technical change - other dimensions and loads available on request - for more details see as well our technical data



IHNE & TESCH
ELEKTRO-WÄRMETECHNIK

KELLER IHNE + TESCH
ELEKTRO-WÄRMETECHNIK

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