

Standard Thermal Head General Specifications: Liquid					
Model	Dimensions ~ Inches (mm)	Max Operating Voltage (V)	Max Size of processor (mm ²)	Max Heat Dissipation (W)	Temperature Range
111N21	1.5 x 1.5 (38.5 x 38.5)	12	900	45	35 to 110
111R25	2.5 x 2.5 (63.5 x 63.5)	24	3025	180	35 to 110
111T21	3.5 x 2.5 (88.9 x 63.5)	36	3440	220	35 to 110
11AI10	1.88 x 1.88 (48 x 48)	12	1600	35	35 to 90

Custom Thermal Head General Specifications: Liquid						
Model	Dimensions ~ Inches (mm)	Max Operating Voltage (V)	Size of Processor (mm ²)	Max Heat Dissipation (W)	Temperature Range (°C)	Special Features
111L20	1.18 x 1.48 (30 x 37.6)	12	900	45	35 to 110	Compact
111L21	1.18 x 1.48 (30 x 37.6)	12	144	45	35 to 110	Pedestal 18mm (Z)
111L30	1.18 x 1.48 (30 x 37.6)	12	900	35	0 to 35	Cold Mode
111L31	1.18 x 1.48 (30 x 37.6)	12	144	35	0 to 35	Pedestal Cold Mode
111N23	2.2 x 1.5 (55.8 x 38.5)	12	256	45	35 to 110	Pedestal Attachment
111N24	1.26 x 1.55 (39.4 x 32.0)	24	121	60	35 to 110	Pedestal 4mm (Z)
111N30	1.5 x 1.5 (38.5 x 38.5)	12	900	15	0 to 35	Cold Mode
111N33	1.5 x 1.5 (38.5 x 38.5)	24	900	35	0 to 35	Cold Mode
111P20	2 x 2 (50.8 x 50.8)	24	1600	140	35 to 110	45° Egress
111P24	2 x 2 (50.8 x 50.8)	24	400	140	35 to 110	45° Egress Pedestal 11.5 mm

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111PH0	2 x 2 (50.8 x 50.8)	24	1600	100	35 to 110	45° Egress
111PH1	2 x 2 (50.8 x 50.8)	24	1369	130	35 to 110	45° Egress Pedestal 3.5mm
111R20	2.5 x 2.5 (63.5 x 63.5)	24	3025	130	35 to 110	Hot Mode
111R22	2.5 x 2.5 (63.5 x 63.5)	24	3025	130	35 to 110	Custom Heat Sink, Hot Mode
111RL24	2.5 x 2.5 (63.5 x 63.5)	24	3025	130	35 to 110	Low Pressure Hot Mode
111R26	2.5 x 2.5 (63.5 x 63.5)	24	3025	180	35 to 110	Hot Mode 2 Thermocouples
111R27	2.5 x 2.5 (63.5 x 63.5)	24	324	150	35 to 110	Pedestal 23mm
111R28	2.5 x 2.5 (63.5 x 63.5)	24	900	110	35 to 110	Pedestal 32mm
111R29	2.5 x 2.5 (63.5 x 63.5)	24	391	180	35 to 110	Pedestal
111R30	2.5 x 2.5 (63.5 x 63.5)	24	3025	130	0 to 35	Cold Mode
111R32	2.5 x 2.5 (63.5 x 63.5)	24	3025	110	0 to 35	Cold Mode
111R33	2.5 x 2.5 (63.5 x 63.5)	24	3025	110	0 to 35	Cold Mode
111R34	2.5 x 2.5 (63.5 x 63.5)	24	1600	130	0 to 35	Pedestal 12mm

Standard Thermal Head General Specifications: Air					
Model	Dimensions ~ Inches (mm)	Max Operating Voltage (V)	Max Size of processor (mm ²)	Max Heat Dissipation (W)	Temperature Range
11A110	1.88 x 1.88 (48 x 48)	12	1600	35	35 to 90

Custom Thermal Head General Specifications: Air						
Model	Dimensions ~ Inches (mm)	Max Operating Voltage (V)	Size of Processor (mm ²)	Max Heat Dissipation (W)	Temperature Range (°C)	Special Features
11Ai11	1.88 x 1.88 (48 x 48)	12	1600	40	35 to 90	Hot Mode
11Ai30	1.88 x 1.88 (48 x 48)	12	1600	8	5 to 35	Cold Mode
11Aj10	2.05 x 2.05 (52 x 52)	12	1600	40	35 to 90	Hot Mode
11Aj30	2.05 x 2.05 (52 x 52)	12	1600	12	5 to 35	Cold Mode
11AL10	2.51 x 2.51 (63.8 x 63.8)	12	3025	45	35 to 80	Hot Mode

Note: The stated temperature is the optimal range. The standard overall range is 0°C to 110°C.