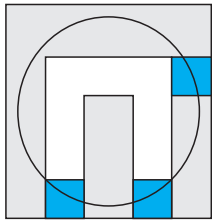


THYRISTORS HEATSINK



WATER COOLING

Version 1.1 (fixed) build 310513

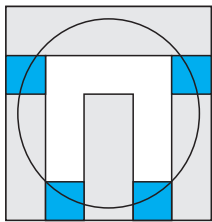


TYPE: TA-3

Water Inlet: 1
Water Outlet: 1
Connection Options: 2
Connection Sides: 2

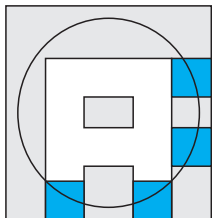


$h = 25 \text{ or } 30 \text{ mm}$



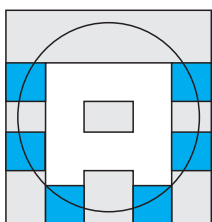
TYPE: TA-4

Water Inlet: 1
Water Outlet: 1
Connection Options: 4
Connection Sides: 3



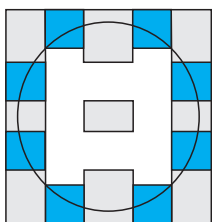
TYPE: TB-4

Water Inlet: 1 or 2
Water Outlet: 1 or 2
Connection Options: 5
Connection Sides: 2



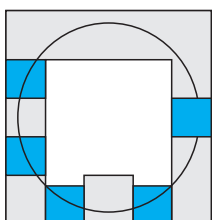
TYPE: TB-6

Water Inlet: 1 or 2
Water Outlet: 1 or 2
Connection Options: 9
Connection Sides: 3



TYPE: TB-8

Water Inlet: 2
Water Outlet: 2
Connection Options: 4
Connection Sides: 4



TYPE: TC-5

Water Inlet: 1
Water Outlet: 1
Connection Options: 4
Connection Sides: 3

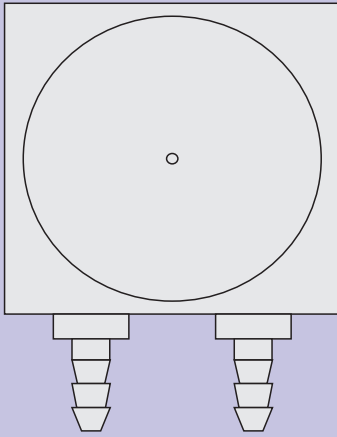
ORDER NUMBER SYSTEM:

TX-X-XXXX-X

Material: C(copper), A(aluminium)
Body size: Side + Height (mm)
Number of holes: 3, 4, 5, 6 or 8
Type: TA, TB or TC

Order number example:
TA-3-5025-C

Material: Copper
Body size: Side 50mm + Height 25mm
Number of holes: 3
Type: TA



THYRISTORS HEATSINK

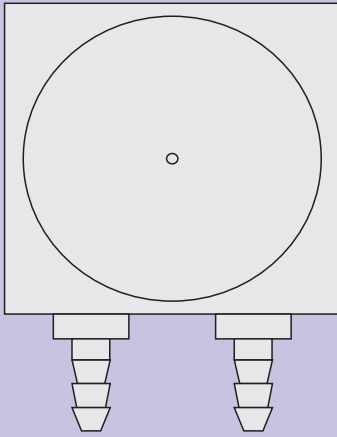


WATER COOLING

Type	Device Size	cooper	aluminium
		Thermal Resistance °C/W	
TA-3	30mm x 30mm x 25mm	0,0168	0,0410
	50mm x 50mm x 25mm	0,0111	0,0270
	63mm x 63mm x 25mm	0,0086	0,0210
	75mm x 75mm x 25mm	0,0066	0,0160
	130mm x 130mm x 25mm	0,0065	0,0158
TA-4	30mm x 30mm x 25mm	0,0162	0,0394
	50mm x 50mm x 25mm	0,0107	0,0259
	63mm x 63mm x 25mm	0,0083	0,0202
	75mm x 75mm x 25mm	0,0063	0,0154
	130mm x 130mm x 25mm	0,0062	0,0152
TB-4	30mm x 30mm x 25mm	0,0155	0,0377
	50mm x 50mm x 25mm	0,0102	0,0248
	63mm x 63mm x 25mm	0,0080	0,0193
	75mm x 75mm x 25mm	0,0060	0,0147
	130mm x 130mm x 25mm	0,0060	0,0145
TB-6	30mm x 30mm x 25mm	0,0155	0,0377
	50mm x 50mm x 25mm	0,0102	0,0248
	63mm x 63mm x 25mm	0,0080	0,0193
	75mm x 75mm x 25mm	0,0060	0,0147
	130mm x 130mm x 25mm	0,0060	0,0145
TB-8	30mm x 30mm x 25mm	0,0155	0,0377
	50mm x 50mm x 25mm	0,0102	0,0248
	63mm x 63mm x 25mm	0,0080	0,0193
	75mm x 75mm x 25mm	0,0060	0,0147
	130mm x 130mm x 25mm	0,0060	0,0145
TC-5	30mm x 30mm x 25mm	0,0153	0,0373
	50mm x 50mm x 25mm	0,0101	0,0245
	63mm x 63mm x 25mm	0,0079	0,0191
	75mm x 75mm x 25mm	0,0060	0,0145
	130mm x 130mm x 25mm	0,0059	0,0144

Current values correct for inlet water* flow 4,0 L/Min.

* (Water + Ethylene Glycol 50%vol. @40°C)

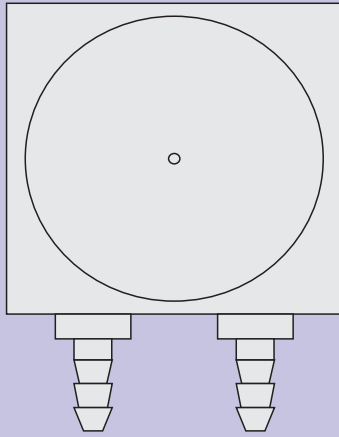


THYRISTORS HEATSINK



WATER COOLING

Type	Device Size	Weight, Kgs.			
		cooper		aluminium	
		25mm	30mm	25mm	30mm
TA-3	30mm x 30mm x 25mm	0,13	0,15	0,04	0,04
	50mm x 50mm x 25mm	0,35	0,42	0,10	0,12
	63mm x 63mm x 25mm	0,56	0,67	0,16	0,20
	75mm x 75mm x 25mm	0,79	0,95	0,23	0,28
	130mm x 130mm x 25mm	2,37	2,84	0,70	0,84
TA-4	30mm x 30mm x 25mm	0,12	0,14	0,03	0,04
	50mm x 50mm x 25mm	0,33	0,40	0,10	0,12
	63mm x 63mm x 25mm	0,52	0,63	0,15	0,18
	75mm x 75mm x 25mm	0,74	0,89	0,22	0,26
	130mm x 130mm x 25mm	2,23	2,67	0,65	0,79
TB-4	30mm x 30mm x 25mm	0,11	0,13	0,03	0,04
	50mm x 50mm x 25mm	0,31	0,37	0,09	0,11
	63mm x 63mm x 25mm	0,49	0,59	0,14	0,17
	75mm x 75mm x 25mm	0,69	0,83	0,20	0,24
	130mm x 130mm x 25mm	2,08	2,50	0,61	0,74
TB-6	30mm x 30mm x 25mm	0,10	0,11	0,03	0,03
	50mm x 50mm x 25mm	0,27	0,32	0,08	0,09
	63mm x 63mm x 25mm	0,42	0,51	0,12	0,15
	75mm x 75mm x 25mm	0,60	0,72	0,18	0,21
	130mm x 130mm x 25mm	1,80	2,15	0,53	0,63
TB-8	30mm x 30mm x 25mm	0,10	0,11	0,03	0,03
	50mm x 50mm x 25mm	0,27	0,32	0,08	0,09
	63mm x 63mm x 25mm	0,42	0,51	0,12	0,15
	75mm x 75mm x 25mm	0,60	0,72	0,18	0,21
	130mm x 130mm x 25mm	1,80	2,15	0,53	0,63
TC-5	30mm x 30mm x 25mm	0,10	0,11	0,03	0,03
	50mm x 50mm x 25mm	0,27	0,32	0,08	0,09
	63mm x 63mm x 25mm	0,42	0,51	0,12	0,15
	75mm x 75mm x 25mm	0,60	0,72	0,18	0,21
	130mm x 130mm x 25mm	1,80	2,15	0,53	0,63

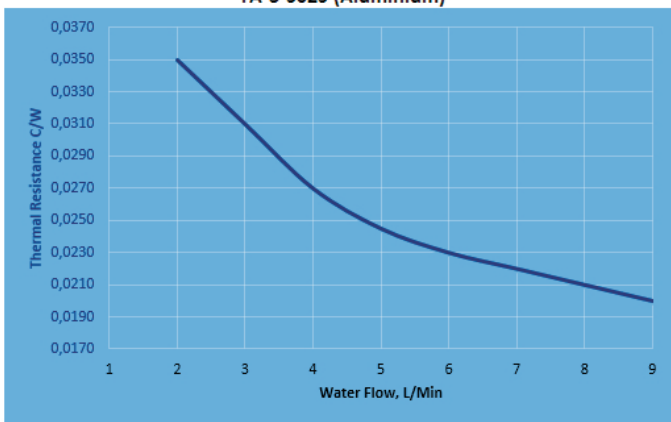


THYRISTORS HEATSINK

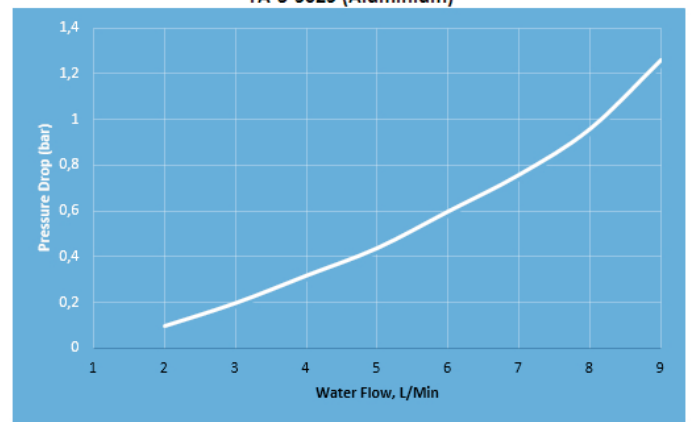


WATER COOLING

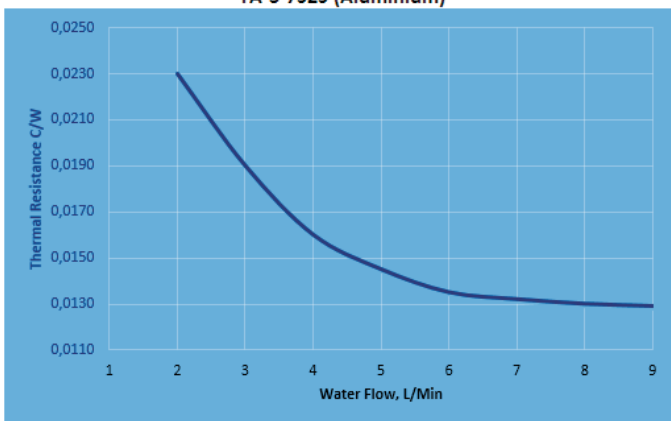
TA-3-5025 (Aluminium)



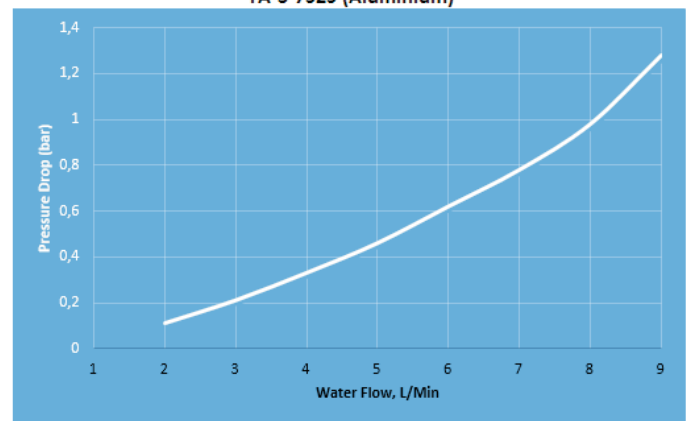
TA-3-5025 (Aluminium)



TA-3-7525 (Aluminium)



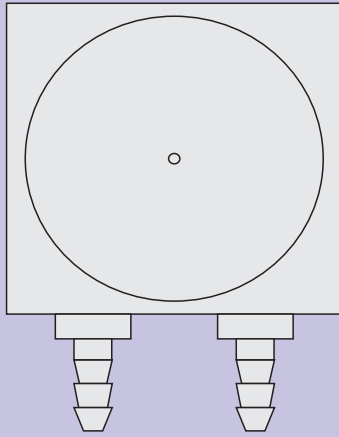
TA-3-7525 (Aluminium)



Rsa:

LCP surface to inlet water by homogeneous power loss distribution
(Water + Ethylene Glycol 50%vol. @40°C)

Measures for: 2 coolers + 1 semiconductor

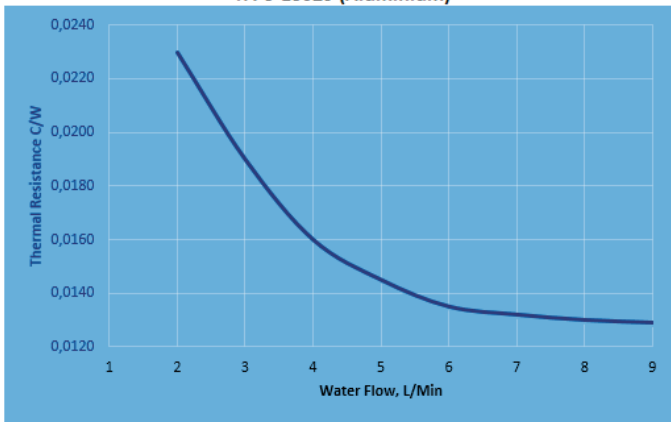


THYRISTORS HEATSINK

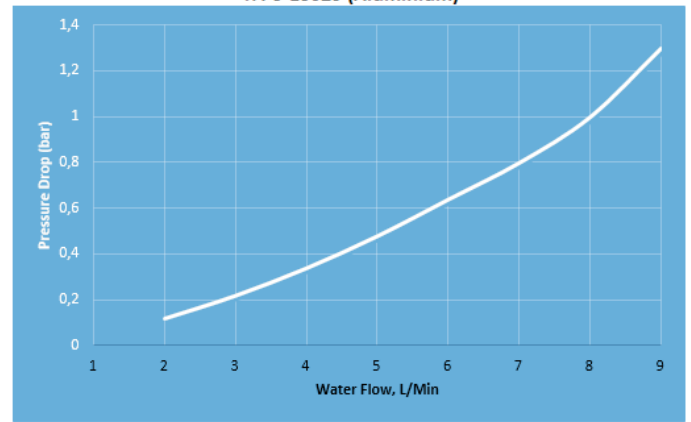


WATER COOLING

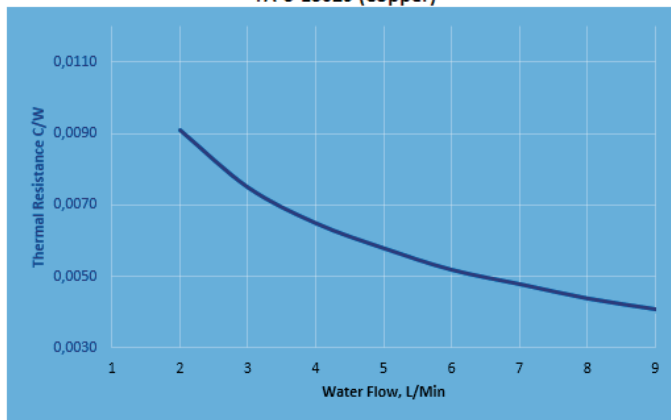
TA-3-13025 (Aluminium)



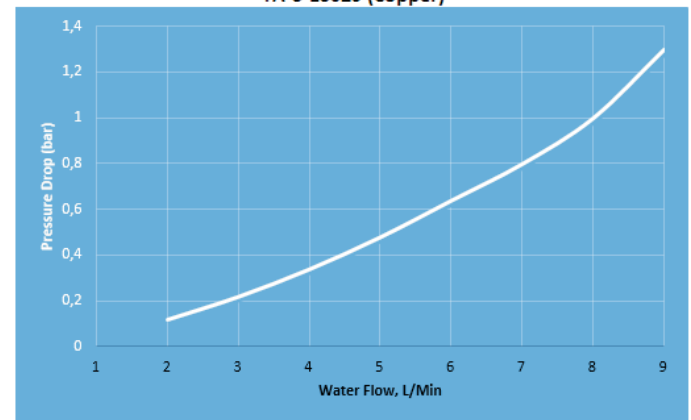
TA-3-13025 (Aluminium)



TA-3-13025 (Copper)



TA-3-13025 (Copper)



Rsa:

LCP surface to inlet water by homogeneous power loss distribution
(Water + Ethylene Glycol 50%vol. @40°C)

Measures for: 2 coolers + 1 semiconductor