

IQ-Big 62-Alu (AlSi10Mg)

Technical data:

Footprint of cooling area:

62mm x 83mm

Thickness for single side use:

4mm

(Both side separate cooling 10mm)

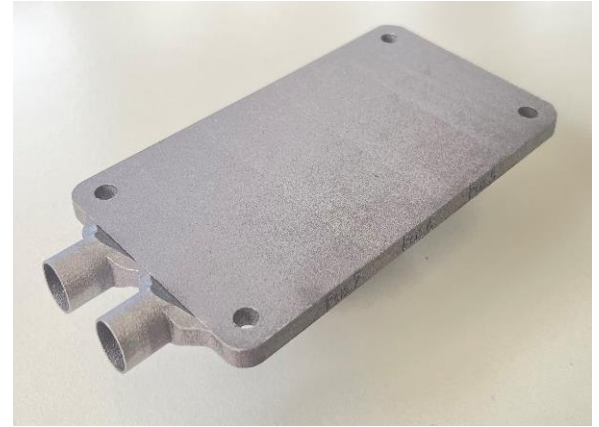
Weight:

68gr

Connectors:

Tube, diameter 10mm

(others on request)



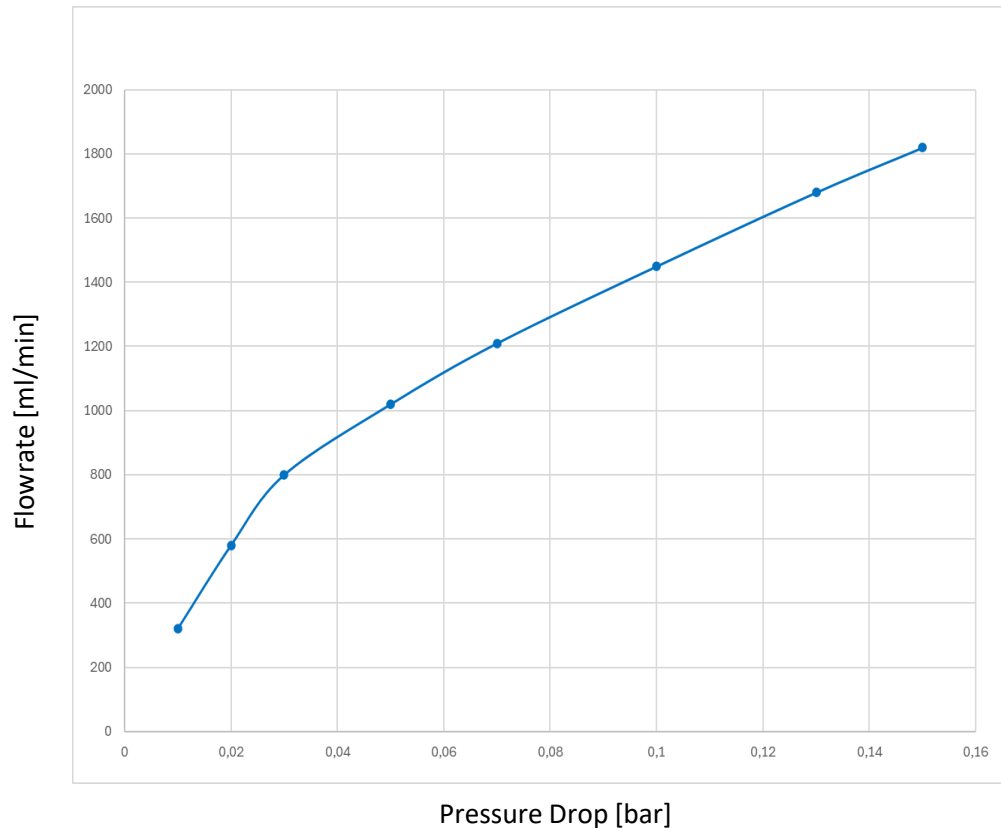
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IQ-Big 62 Alu (AlSi10Mg)

Pressure [bar]	Flowrate [ml/min]
0,01	320
0,02	580
0,03	800
0,05	1020
0,07	1210
0,10	1450
0,13	1680
0,15	1820

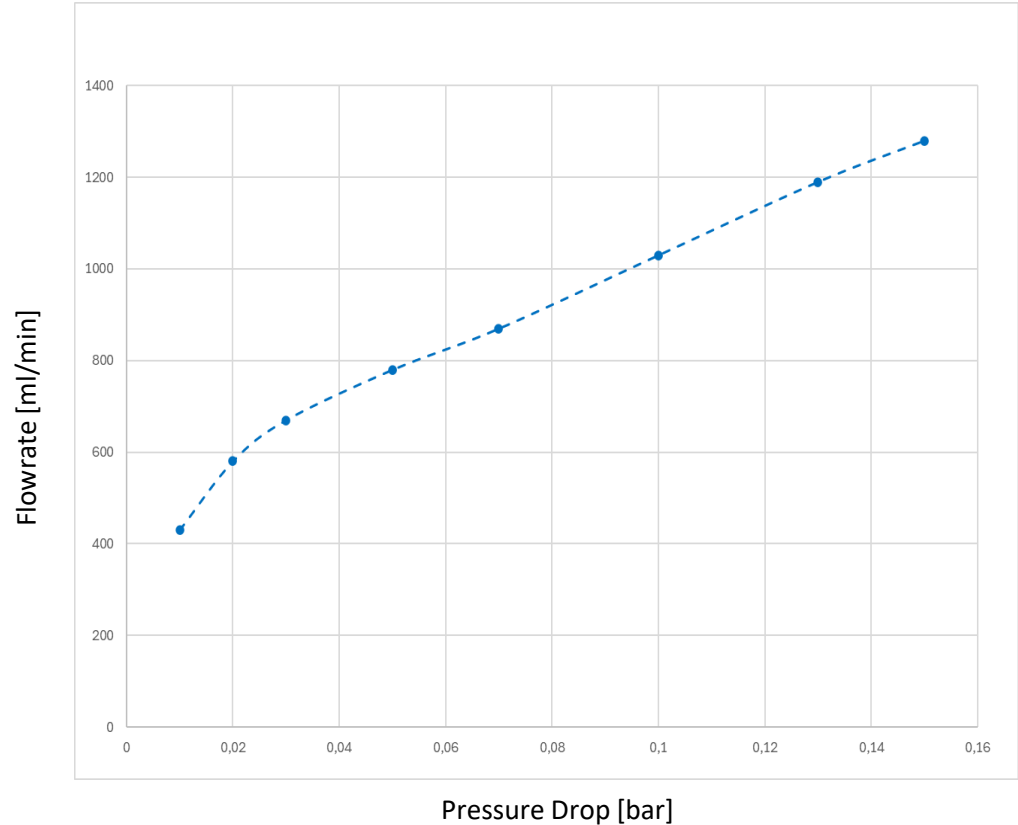
T_{in} Fluid = 15,75°C



IQ-Big 62 Alu (AlSi10Mg)

Pressure [bar]	Flowrate [ml/min]
0,01	430
0,02	580
0,03	670
0,05	780
0,07	870
0,10	1030
0,13	1190
0,15	1280

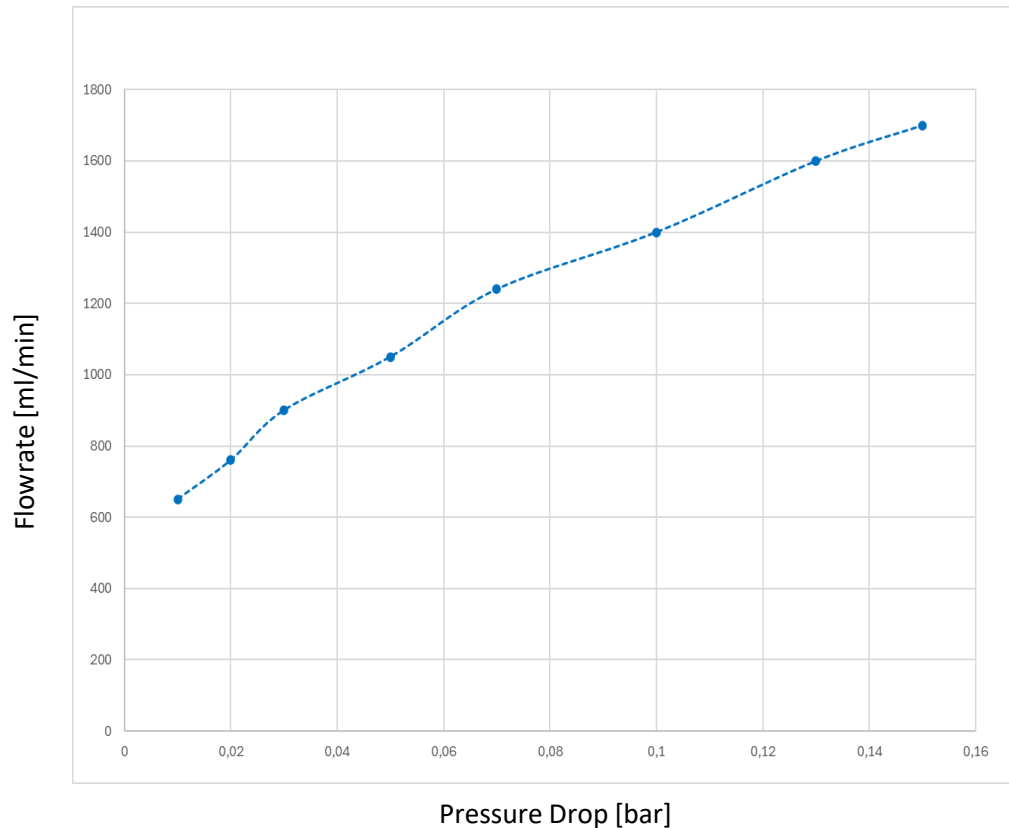
T_{in} Fluid = 23,23°C



IQ-Big 62 Alu (AlSi10Mg)

Pressure [bar]	Flowrate [ml/min]
0,01	430
0,02	580
0,03	670
0,05	780
0,07	870
0,10	1030
0,13	1190
0,15	1280

T_{in} Fluid = 59,99°C



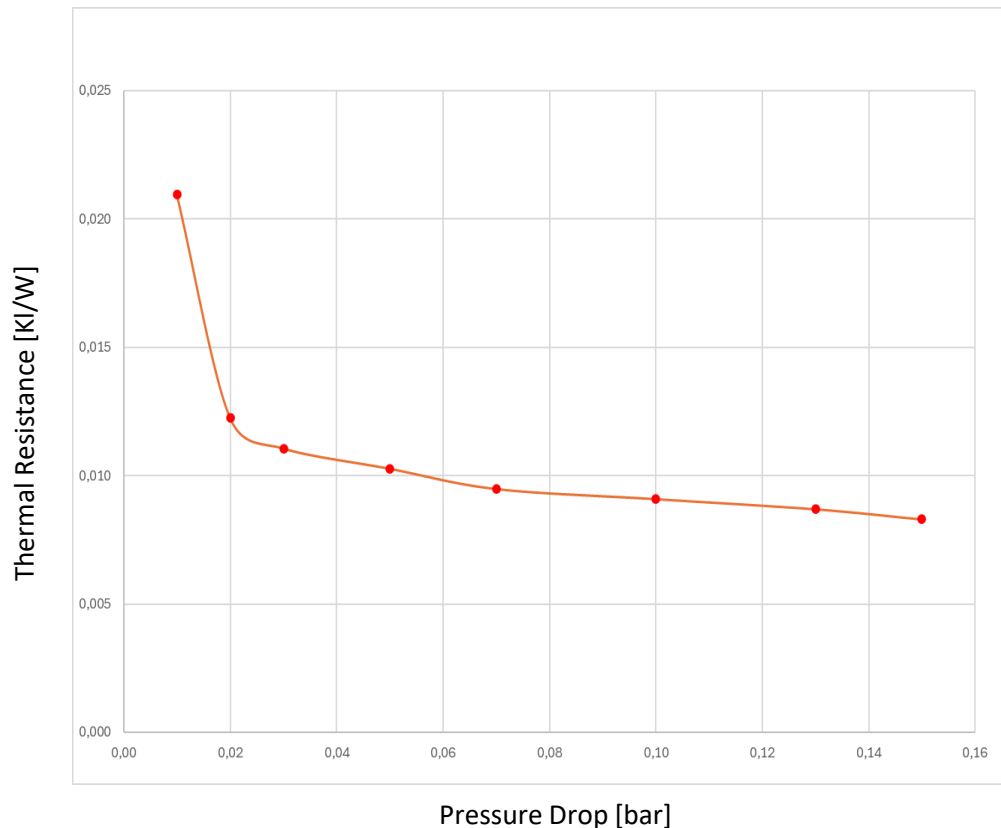
IQ-Big 62 Alu (AlSi10Mg)

Pressure [bar]	Rth [K/W]
0,01	0,021
0,02	0,012
0,03	0,011
0,05	0,010
0,07	0,009
0,10	0,009
0,13	0,009
0,15	0,008

$T_{in} \text{ Fluid} = 15,75^{\circ}\text{C}$

$dT_{in;surface} = 16,59^{\circ}\text{C}$

$\rightarrow T_{surface} @ 0,15\text{bar} = 32,34^{\circ}\text{C}$



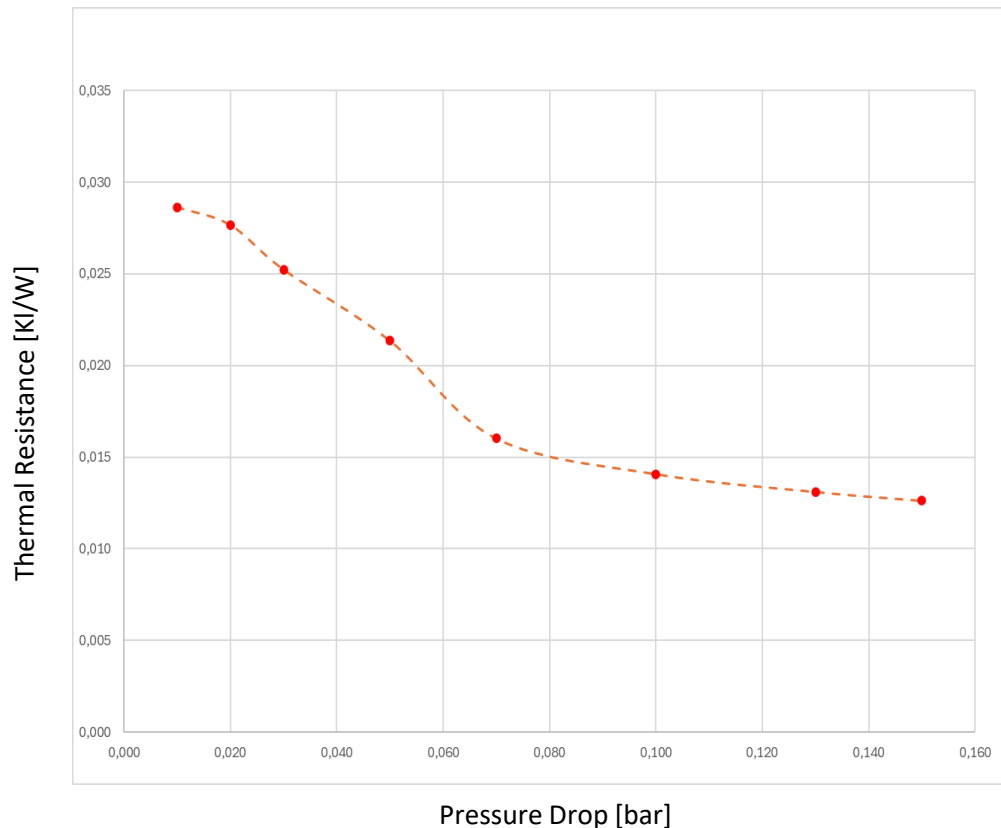
IQ-Big 62 Alu (AlSi10Mg)

Pressure [bar]	Rth [K/W]
0,01	0,029
0,02	0,028
0,03	0,025
0,05	0,021
0,07	0,016
0,10	0,014
0,13	0,013
0,15	0,013

$T_{in} \text{ Fluid} = 23,23^{\circ}\text{C}$

$dT_{in;surface} = 25,25^{\circ}\text{C}$

$\rightarrow T_{surface} @ 0,15\text{bar} = 48,53^{\circ}\text{C}$



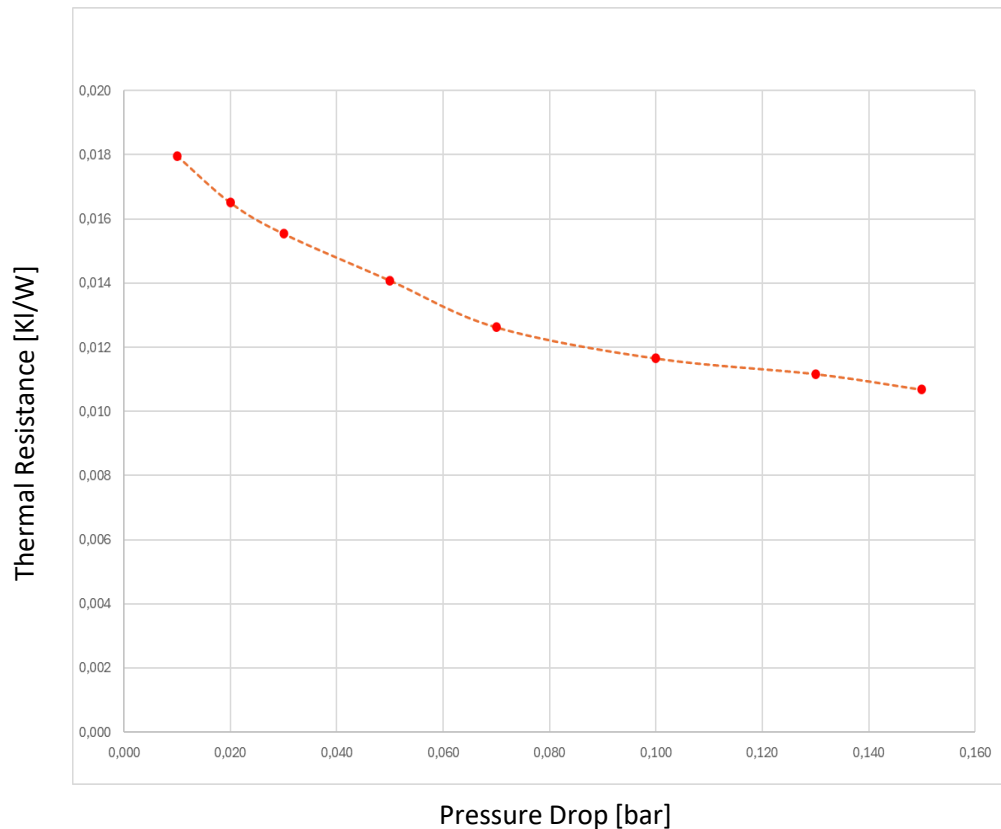
IQ-Big 62 Alu (AlSi10Mg)

Pressure [bar]	Rth [K/W]
0,01	0,018
0,02	0,017
0,03	0,016
0,05	0,014
0,07	0,013
0,10	0,012
0,13	0,011
0,15	0,011

$T_{in} \text{ Fluid} = 59,99^{\circ}\text{C}$

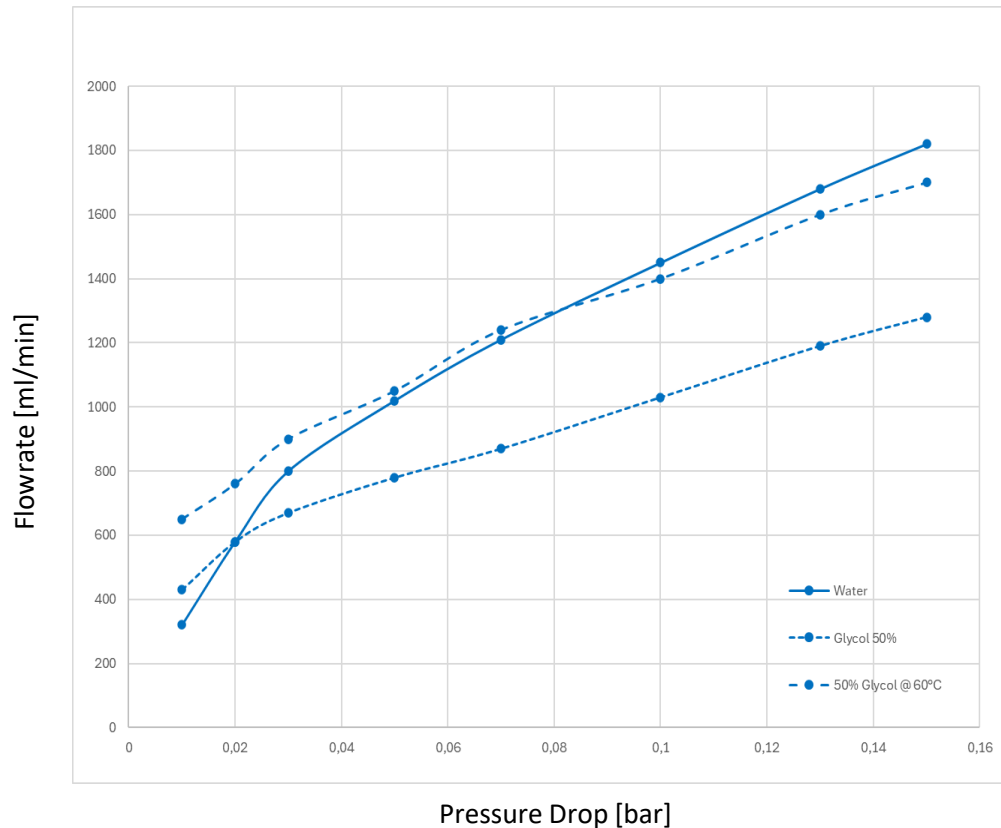
$dT_{in;surface} = 21,36^{\circ}\text{C}$

$\rightarrow T_{surface} @ 0,15\text{bar} = 81,36^{\circ}\text{C}$



IQ-Big 62 Alu (AlSi10Mg)

Pressure [bar]	Water Flowrate [ml/min]	Glycol 50% Flowrate [ml/min]	Glycol 50% @ 60°C Flowrate [ml/min]
0,01	320	430	650
0,02	580	580	760
0,03	800	670	900
0,05	1020	780	1050
0,07	1210	870	1240
0,10	1450	1030	1400
0,13	1680	1190	1600
0,15	1820	1280	1700



IQ-Big 62 Alu (AlSi10Mg)

Pressure [bar]	Water Rth cooler [K/W]	Glycol 50% Rth cooler [K/W]	Glycol 50% @ 60°C Rth cooler [K/W]
0,01	0,021	0,029	0,018
0,02	0,012	0,028	0,017
0,03	0,011	0,025	0,016
0,05	0,010	0,021	0,014
0,07	0,009	0,016	0,013
0,10	0,009	0,014	0,012
0,13	0,009	0,013	0,011
0,15	0,008	0,013	0,011

