



LogoCool S-Line 3-6-12 kW
Product code MGB00131, MGB00130, MGB00129



LogoCool M-Line 20 kW
Product code MGB00132



Nominal output 3-6-12-20 kW

Features

- Small dimensions
- Sealed case - including all external connections - to avoid condensation
- 30mm internal insulation
- Successfully tested at room temperatures >30°C and up to 90% humidity
- Supplied with silica gel pads to collect any condensation that occurs after commissioning or inspection
- Selectable duty offering a range of different outputs, easy to setup
- Case with lift-off latches making it easy to open in confined spaces
- Top entry connections
- Stainless steel expansion vessel (secondary circuit)
- Ultrasonic heat meter (cooling mode) with M-Bus connectivity
- A-rated circulation pump (secondary circuit)

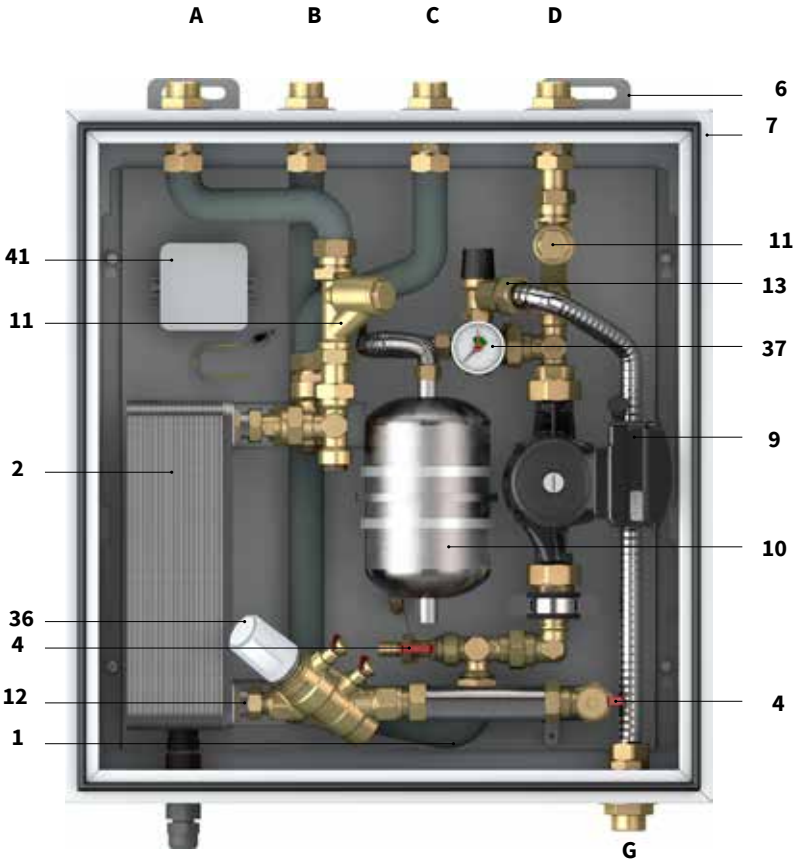


Meibes LogoCool S-Line
Cooling Interface Unit (CIU)
Nominal outputs: 3kW, 6kW and 12kW



Meibes LogoCool M-Line
Cooling Interface Unit (CIU)
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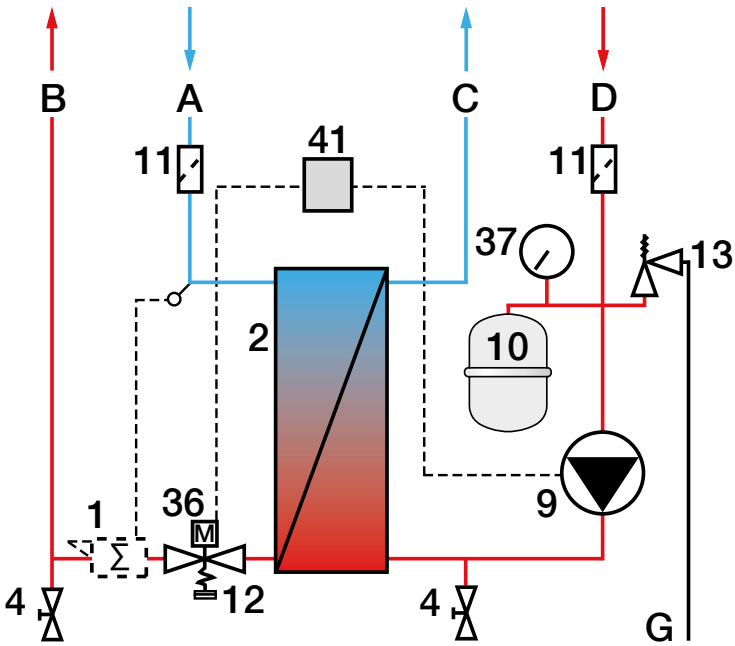
1 Hydraulics



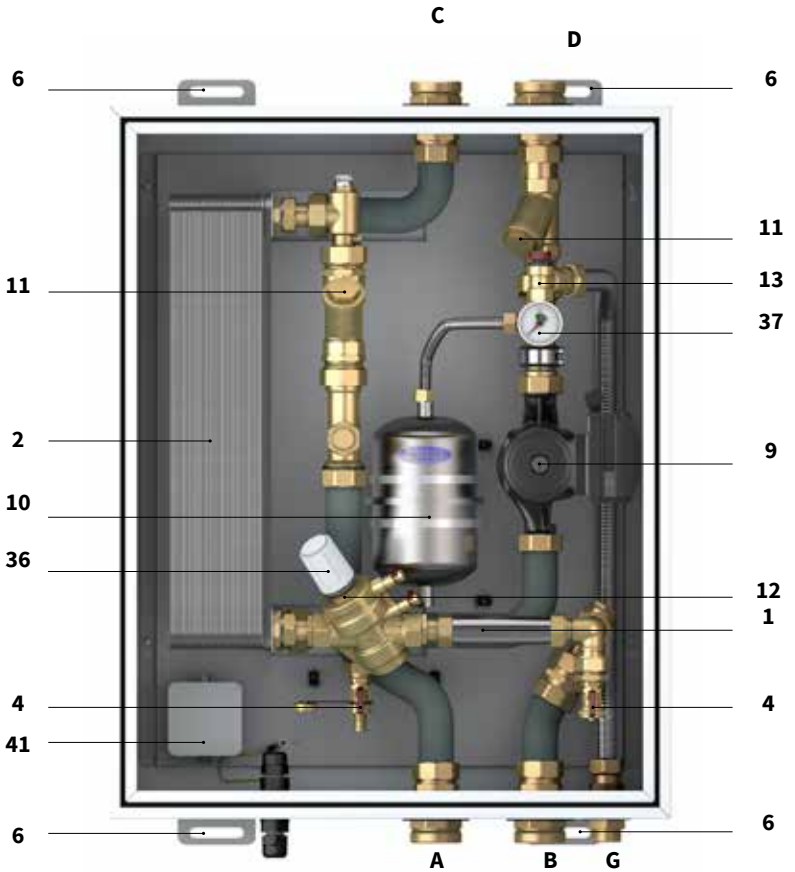
Meibes LogoCool S-Line
Cooling Interface Unit (CIU)
Nominal outputs: 3kW, 6kW and 12kW

External Connections

- A Primary flow
- B Primary return
- C Secondary flow
- D Secondary return
- G Overpressure drain pipe
- 1 Heat meter (Cooling Mode) not illustrated*
- 2 Plate heat exchanger
- 4 Drain point
- 6 Mounting Bracket
- 9 Circulation pump, Secondary circuit
- 10 Expansion vessel, secondary circuit
- 11 Strainer
- 12 Pressure independent control valve (NexusValve Vivax)
- 13 Overpressure relief valve (3 bar)
- 36 Actuator Head (on/off), primary circuit
- 37 Pressure gauge, secondary circuit
- 41 Connection Box



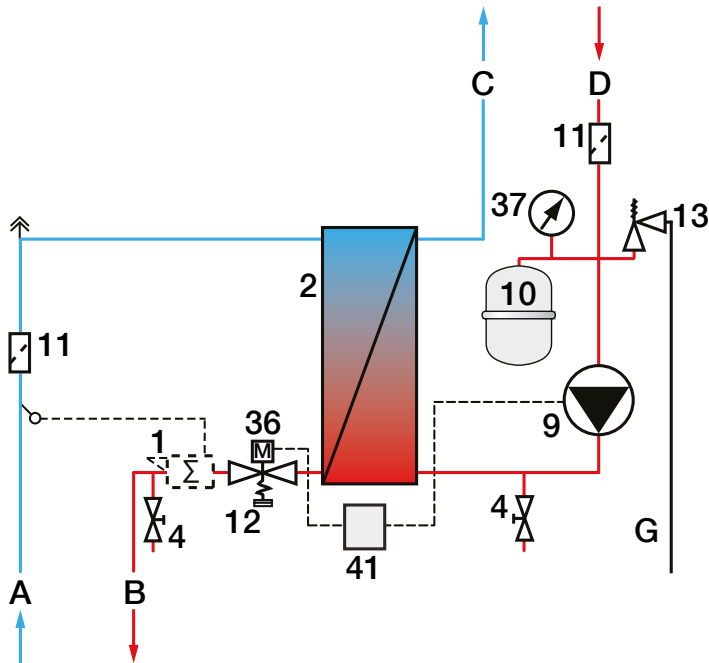
* The compact heat meter (cooling mode) is available from Meibes with and without data communication via M-Bus



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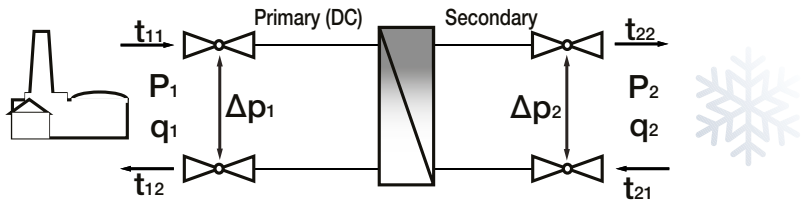
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2 Specifications

2.1 Facts and Figures

DC = District Cooling

- Δp = Differential Pressure (kPa)
- q = Flow Rate (l/s)
- t = Temperature (°C)
- P = Power (kW)



Description	Type	Cooling Interface Unit for indirect comfort cooling			
	Mounting	Wall mounted			
	Dimensions [mm], Width x Depth x Height (not incl. ball valves)	629 x 263 x 675 (nominal 3, 6 and 12 kW)			649 x 337 x 830 (nominal 20 kW)
	Cooling System	2 pipe flow			
Construction	Pipework	Insulated flexible stainless steel with brass fittings			
	Heat exchanger	Stainless steel plate heat exchanger			
	Casing	White powder coated sheet steel, fully insulated, PUR 0.025 W/mK			
	Primary Fluid	Low pressure cold water			
	Secondary Fluid - Heating	Low pressure cold water			
Primary Duty (P1), nominal [kW]		3	6	12	20
	Output range (P1, selectable)	1 ... 5 kW	2 ... 12 kW	5 ... 16 kW	9 ... 24 kW
	Flow temperature (t11)	5 ... 9°C (refer to graphs, chapter 3)			
	Return temperature (t12)	Dependent on flow temperature (refer to graphs in chapter 3)			
	Flow rate range (q1) [l/h]	100 ... 450	450 ... 1150	850 ... 2050	1700 ... 3300
	Pressure rating	PN16			PN10 (PN16 on request)
Secondary Duty (P2)					
	Flow temperature (t22)	8 ... 10°C			
	Return temperature (t21)	12 ... 16 °C			
	Flow rate range (q2) [l/h]	100 ... 800	250 ... 1730	700 ... 2300	1500 ... 3400
	Max. pressure	3 bar (restricted by over pressure relief valve)			
Connections					
	All external connections	1" BSP (male), top connections			2" BSP, top and bottom connections
	Electrical connections	230V, AC, 50Hz Primary			
Primary and secondary fittings					
Pressure independent control valve (PICV)		NexusValve Vivax (min. p = 30 kPa) with thermo-electrical actuator (on/off)			
Fittings and Drain points		Primary and secondary circuit			
Strainer		Primary flow and secondary return			
Circulation Pump		Grundfos, A-rated, secondary circuit			
Expansion vessel		2 litre, secondary circuit			
Over pressure relief valve with pressure gauge		3 bar, secondary circuit			
Ball valves		1" BSP			1 1/4" BSP
Optional					
Heat Meter (cooling mode)		Rossweiner "HeatSonic", M-Bus (wired)			

3 Graphs

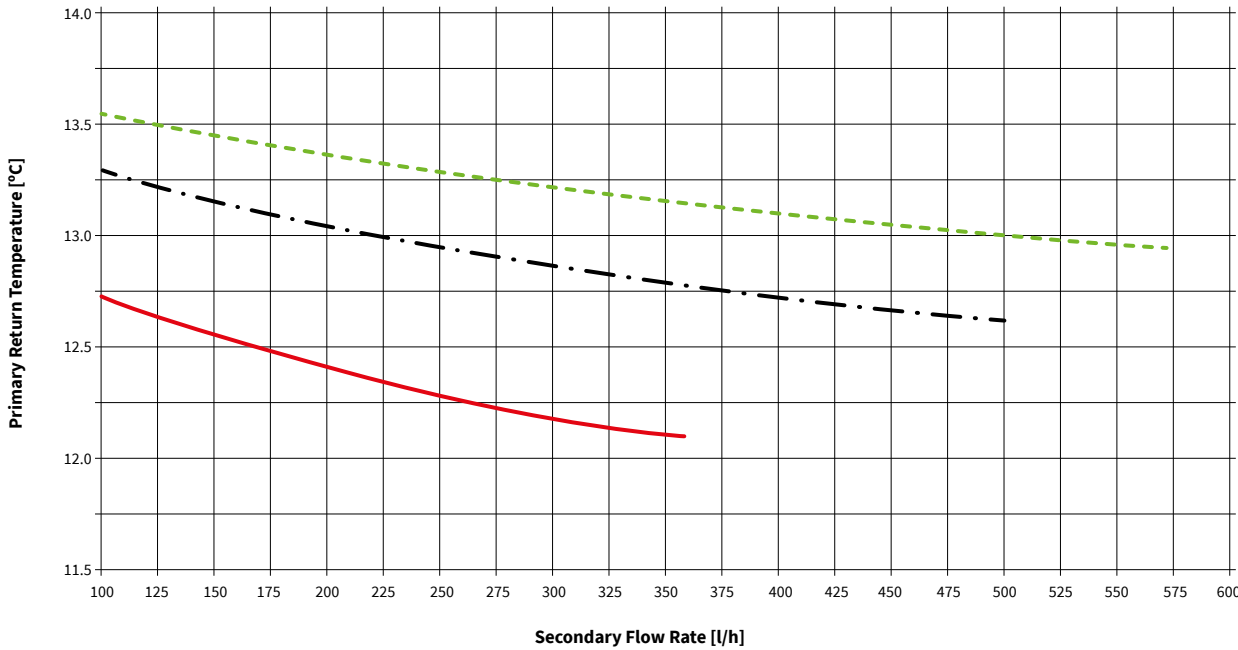
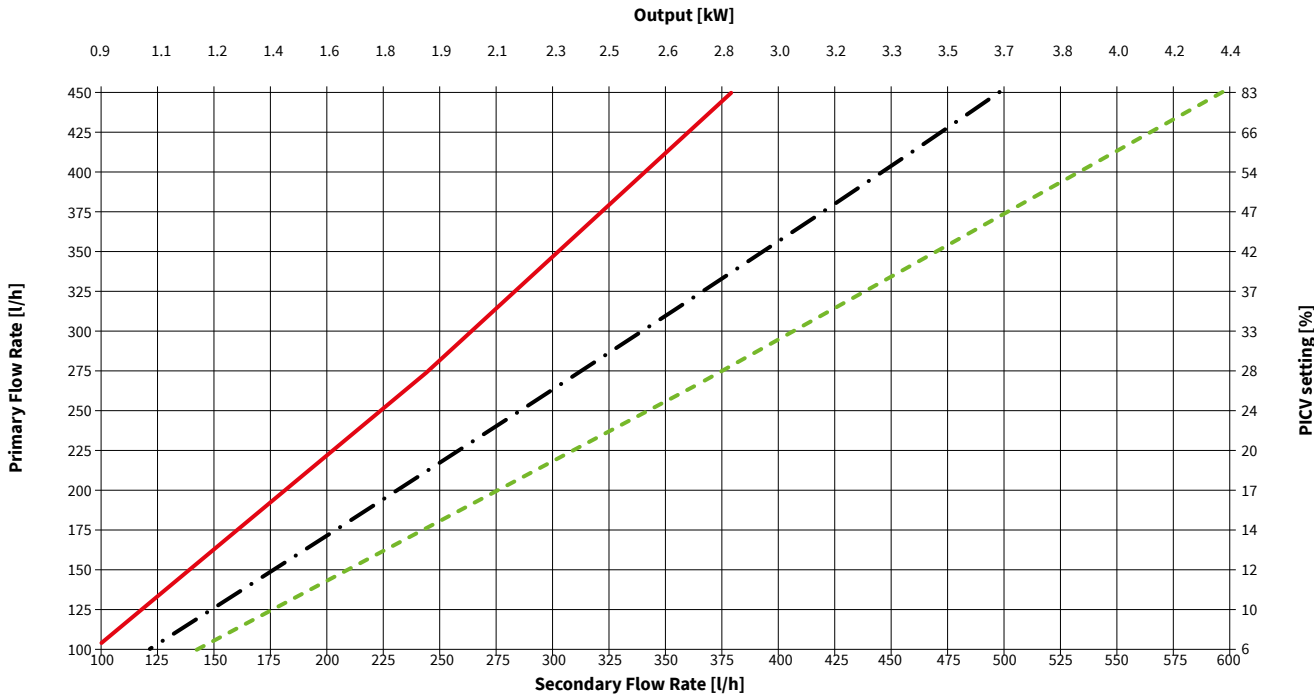
3.1 LogoCool S-Line Nominal 3kW - Output, Flow Rate and Valve Setting

3.1.1 Secondary Side at 8°C/14°C (ΔT=6K)

Note

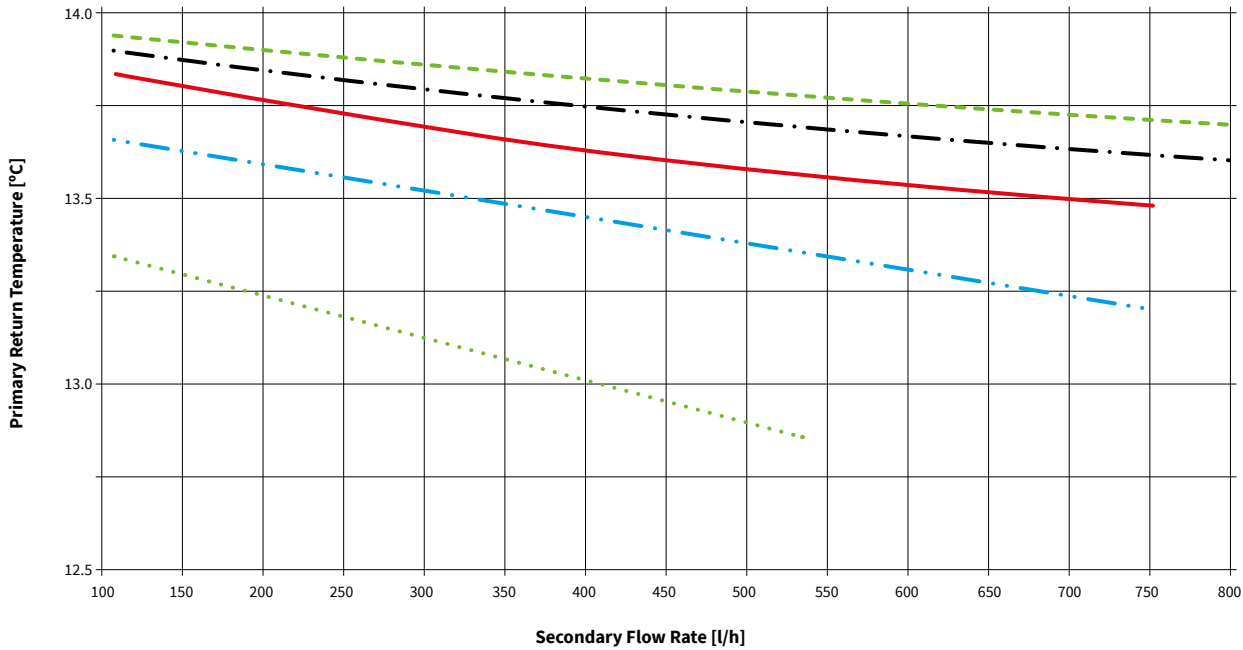
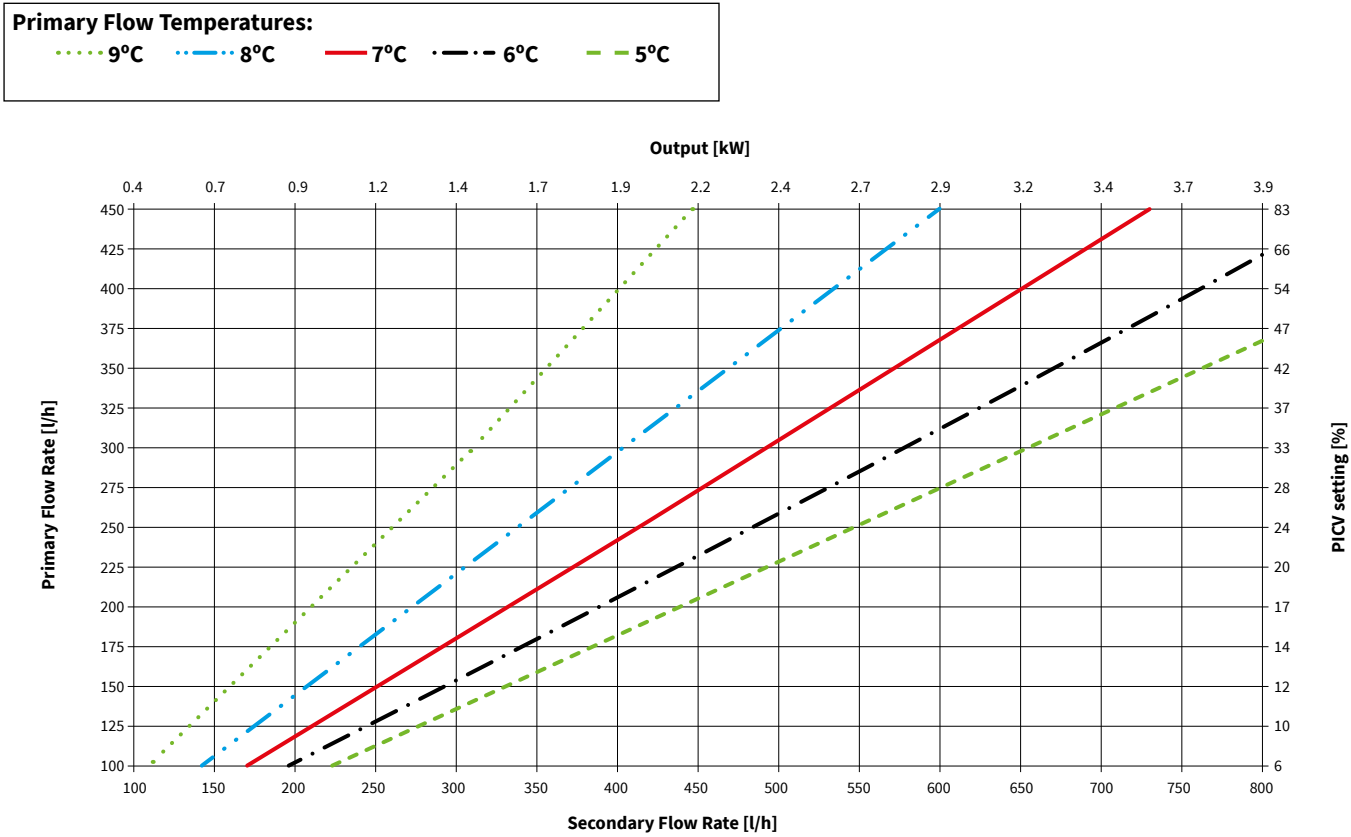
The PICV settings in the graphs below are based on test results carried out on the cooling unit and can differ from those in the valve's literature. The settings are approximate and will need fine tuning during commissioning using a flow meter (refer to installation manual).

Primary Flow Temperatures:
— 7°C — 6°C — 5°C



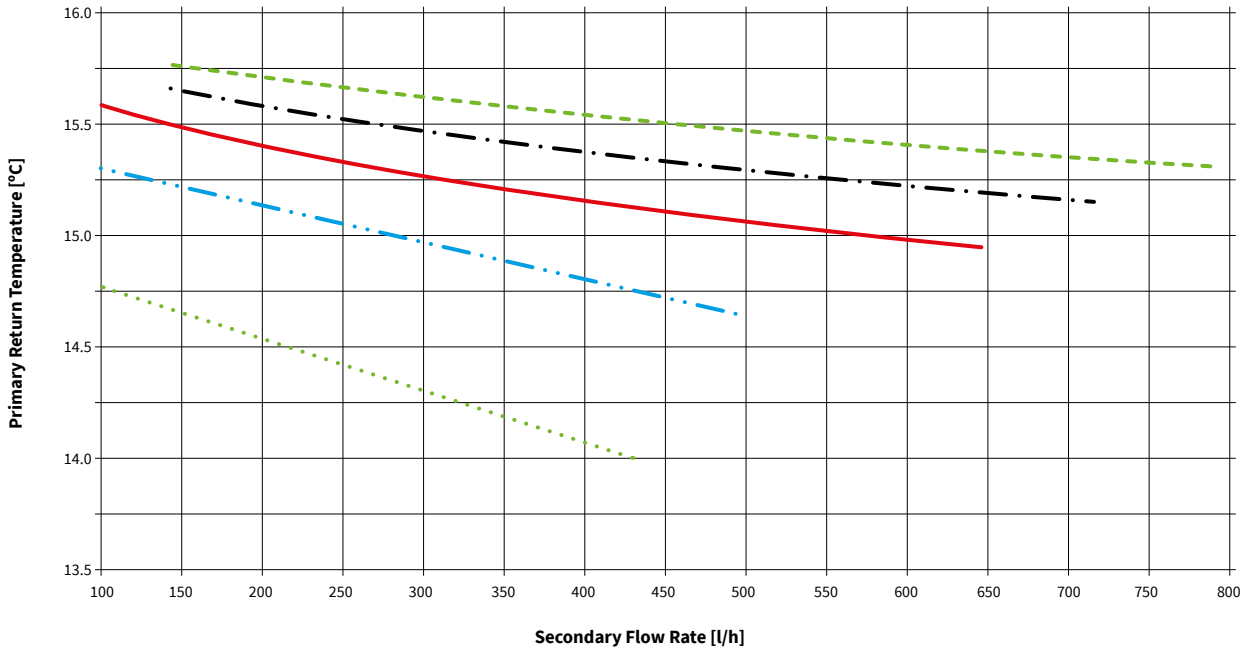
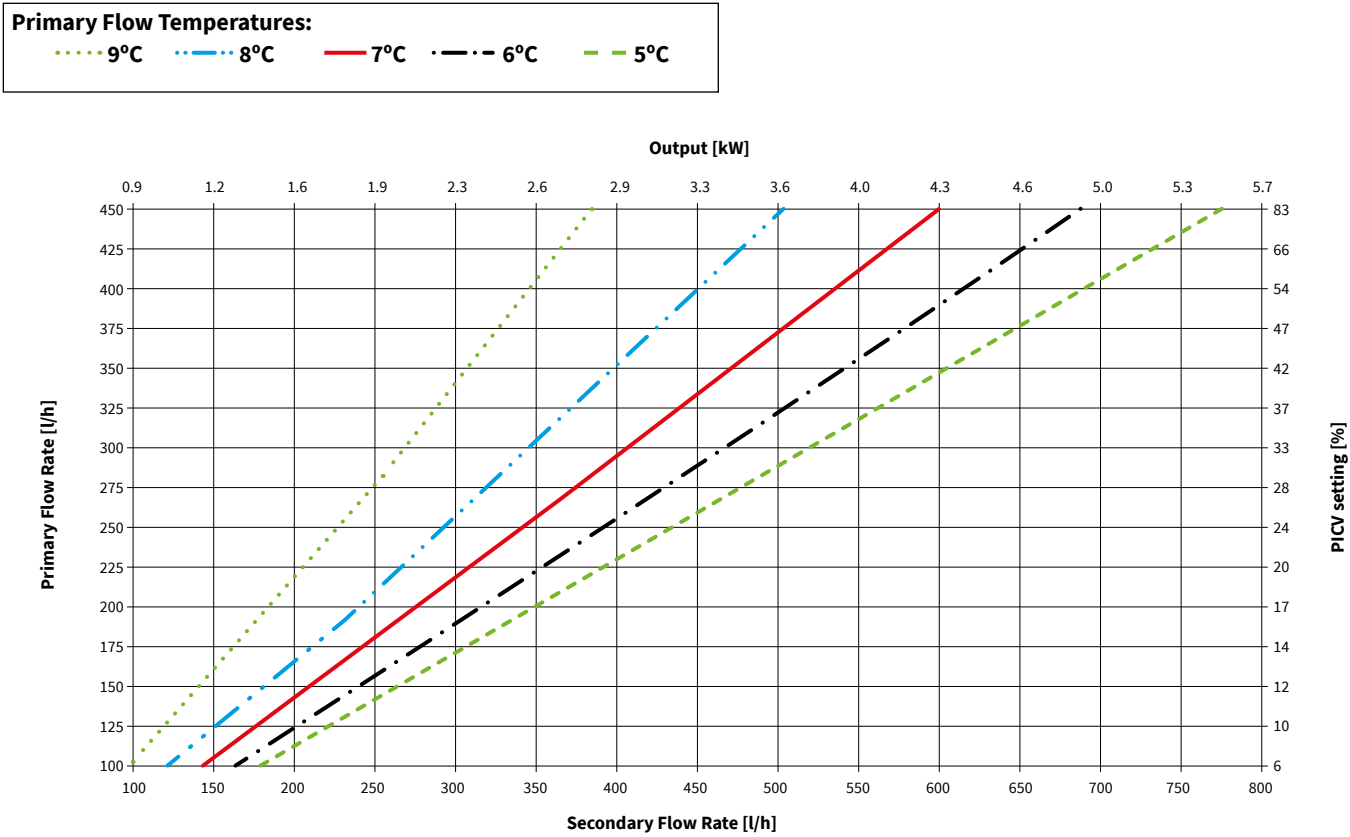
3 Graphs

3.1.2 Secondary Side at 10°C/14°C (ΔT=4K)



3 Graphs

3.1.3 Secondary Side at 10°C / 16°C (ΔT = 6K)

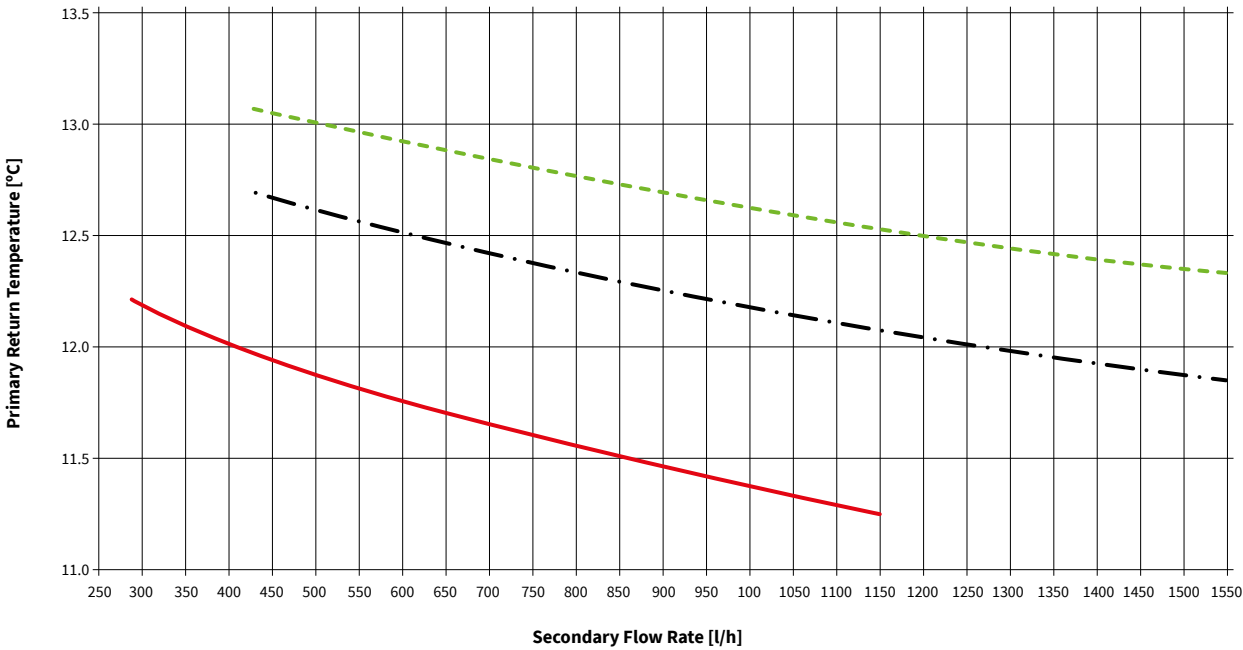
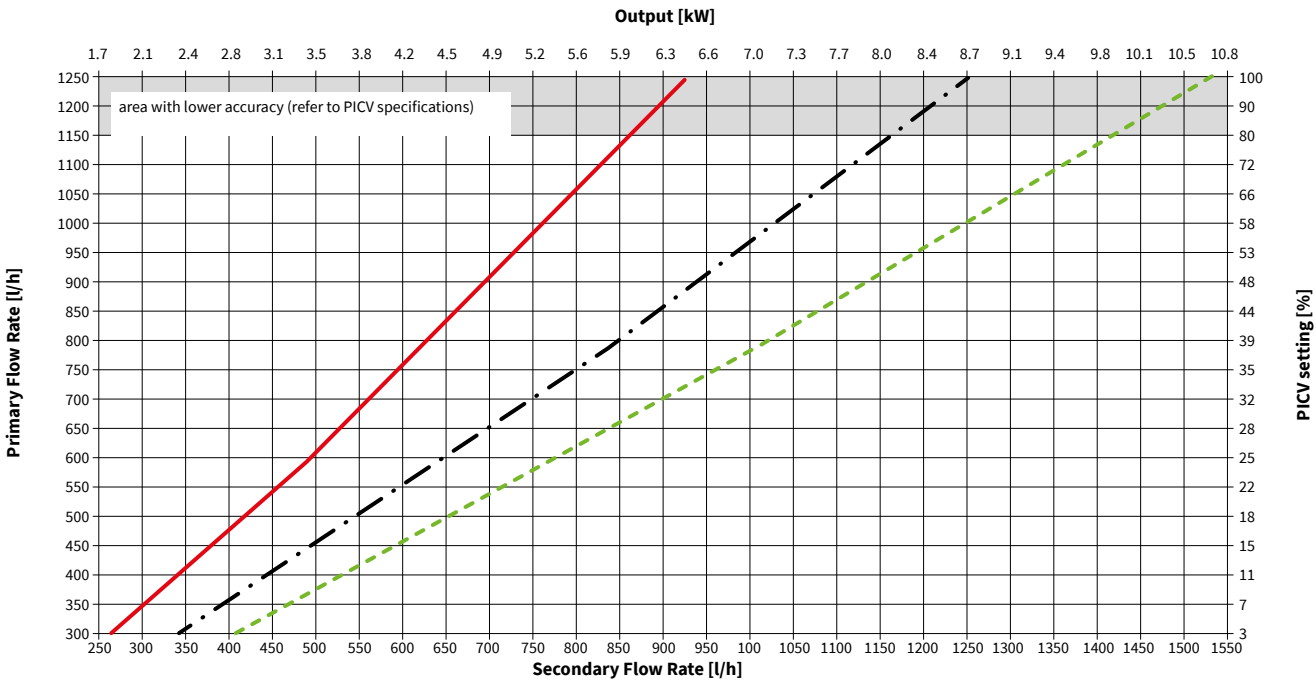
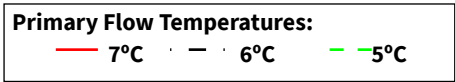


3 Graphs

3.2 LogoCool S-Line Nominal 6kW - Output, Flow Rate and Valve Setting

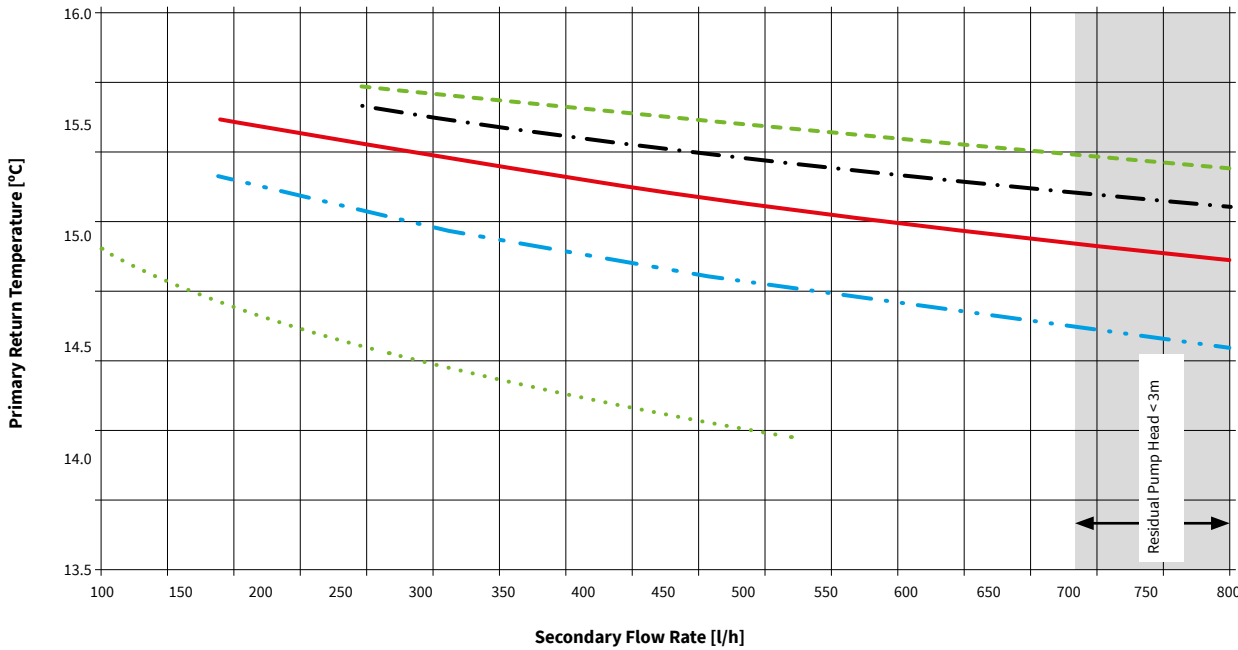
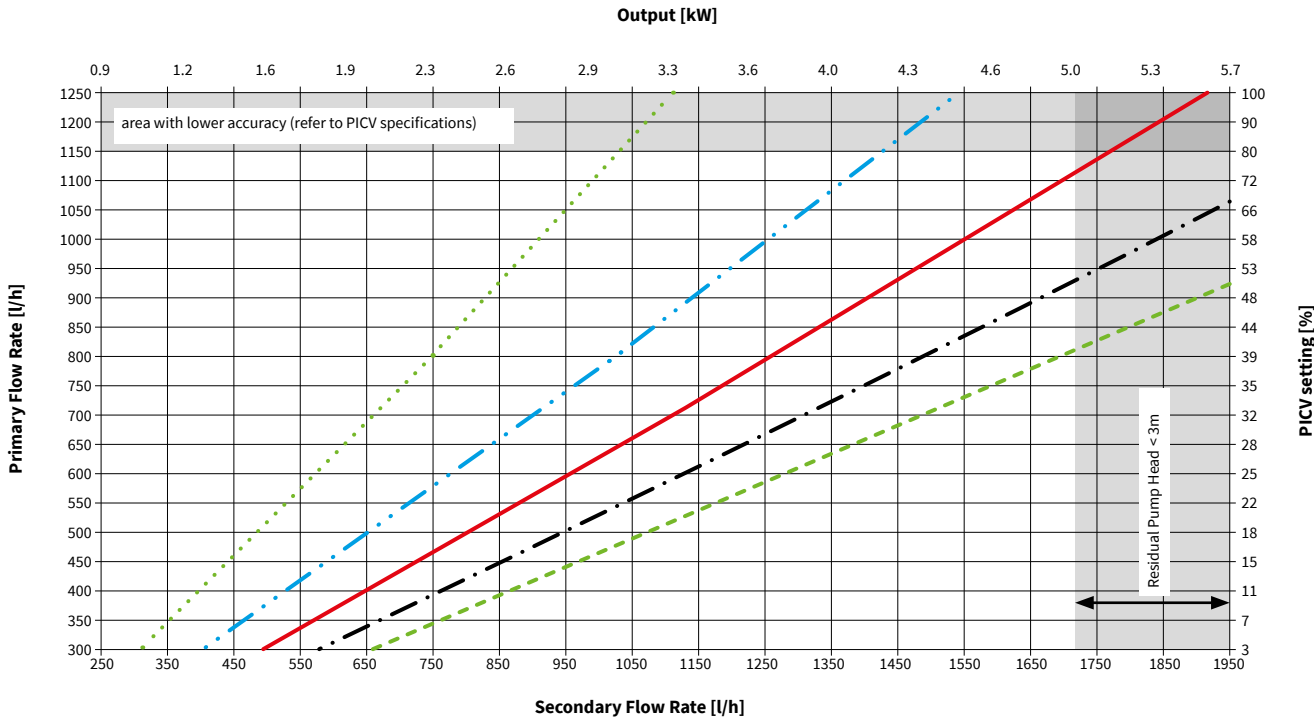
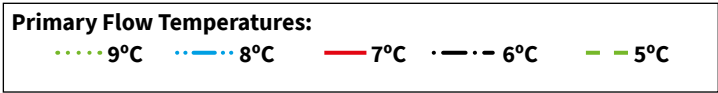
3.2.1 Secondary Side at 8°C/14°C (ΔT=6K)

Note
The PICV setting in the graphs are based on test results carried out on the cooling unit and can differ from those in the valve's literature. The settings are approximates and will need fine tuning during commissioning using a flow meter (refer to installation manual).



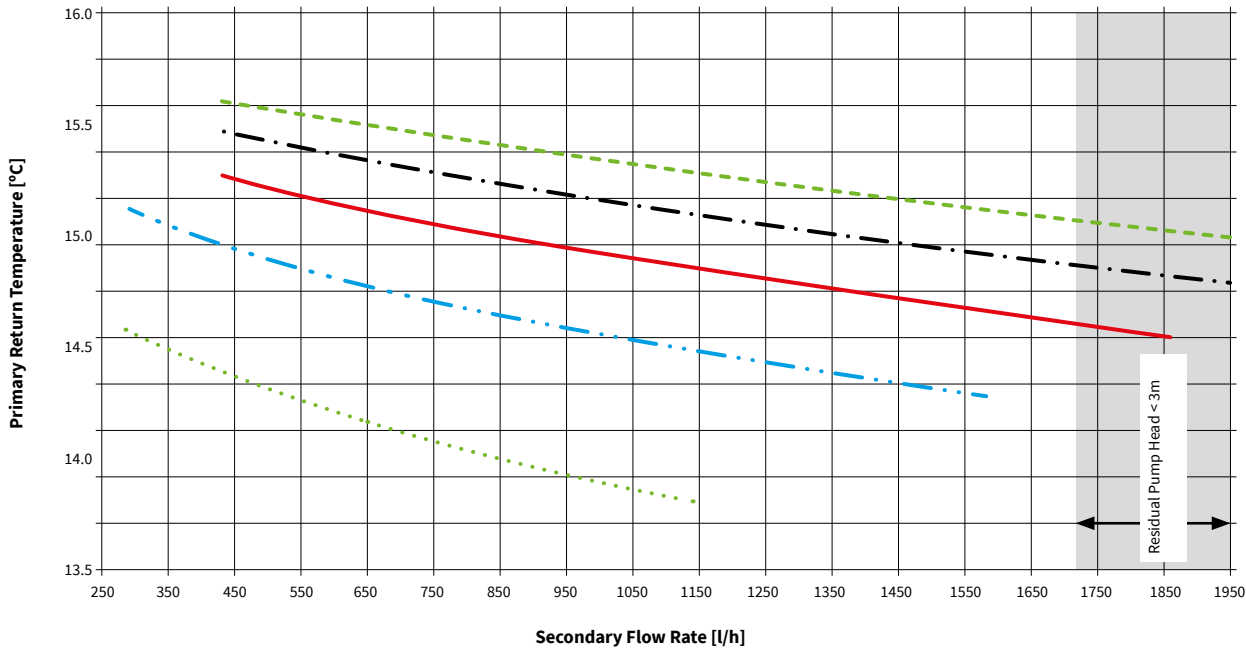
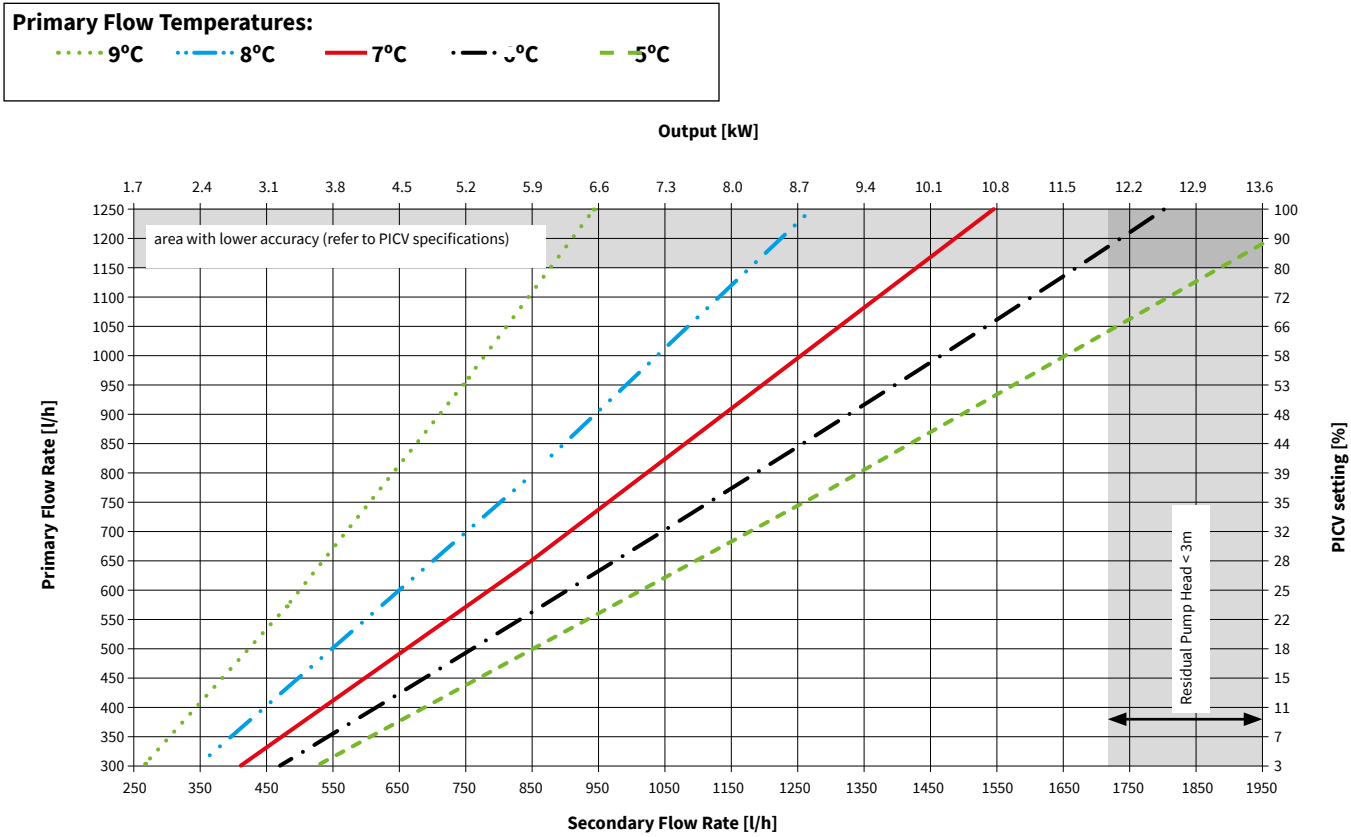
3 Graphs

3.2.2 Secondary Side at 10°C/14°C (ΔT=4K)



3 Graphs

3.2.2 Secondary Side at 10°C/16°C (ΔT=6K)

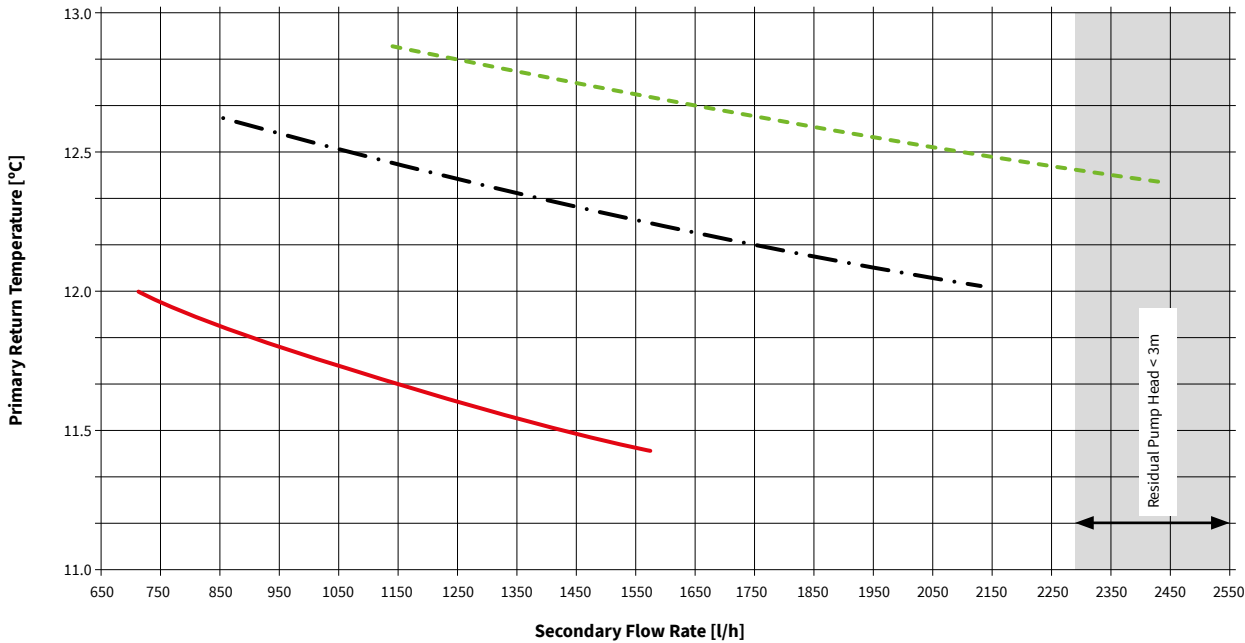
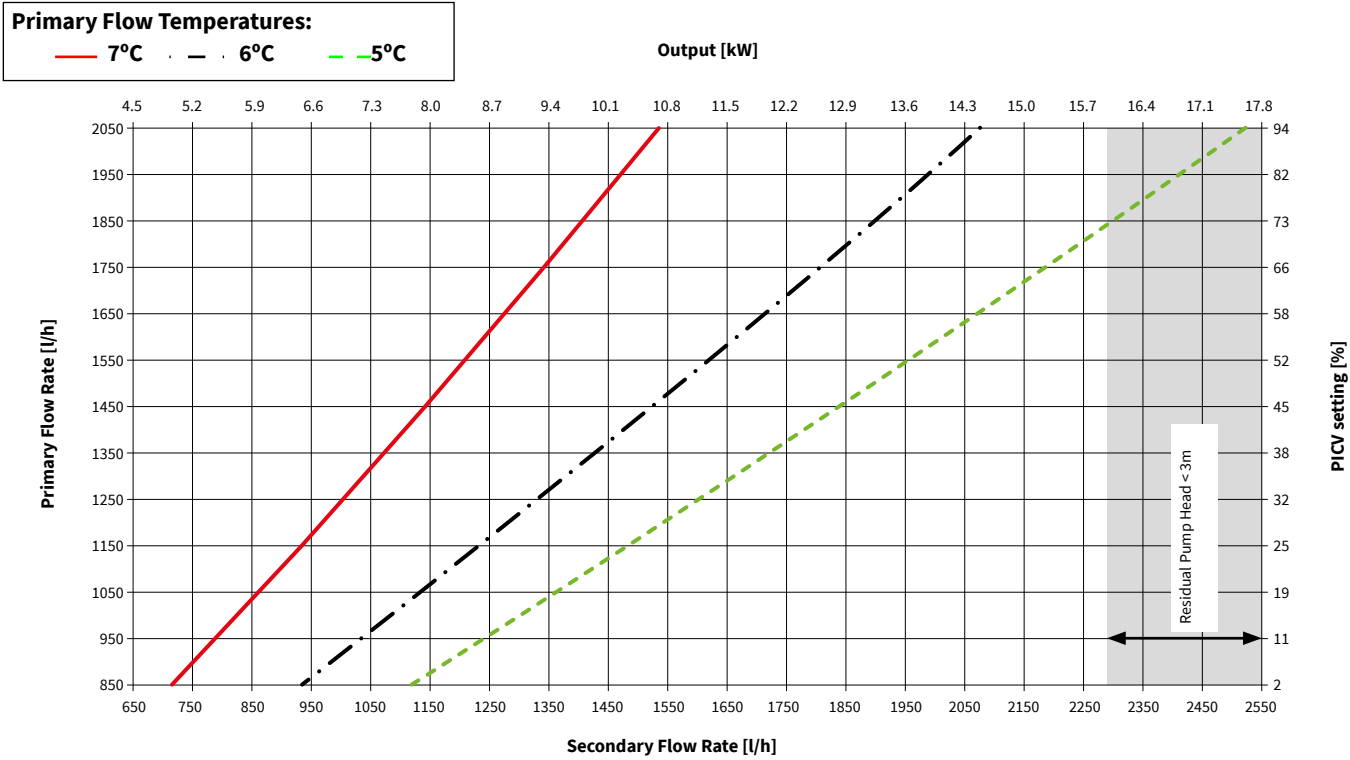


3 Graphs

3.3 LogoCool S-Line Nominal 12kW Output, Flow Rate and Valve Setting

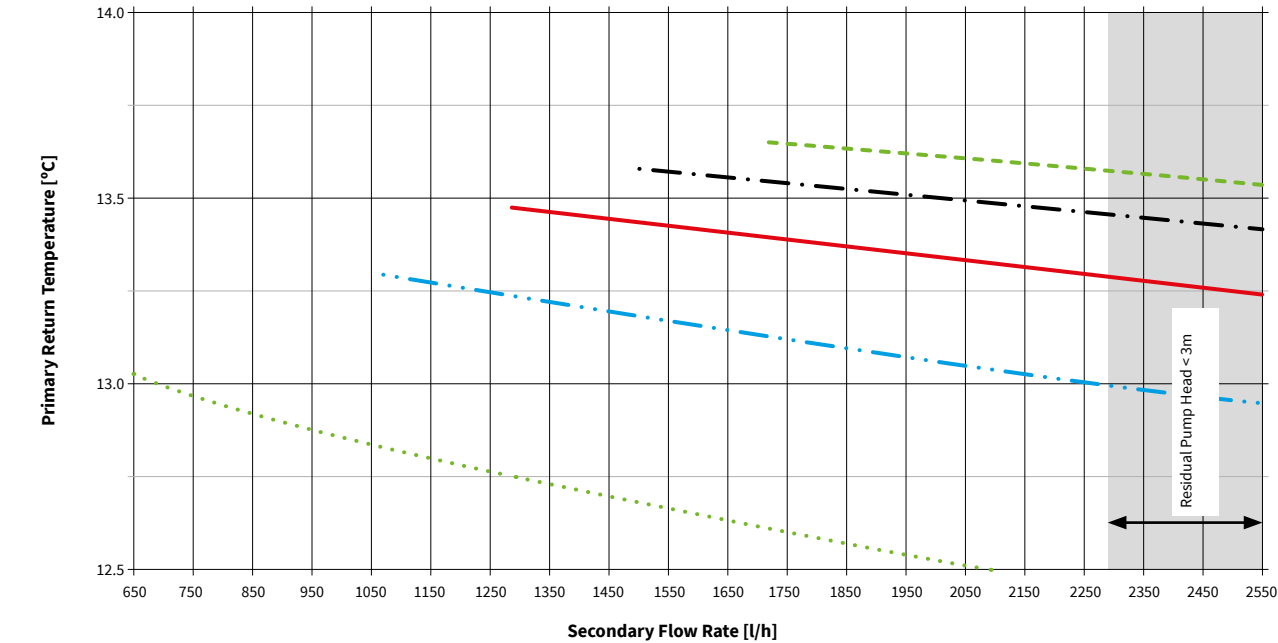
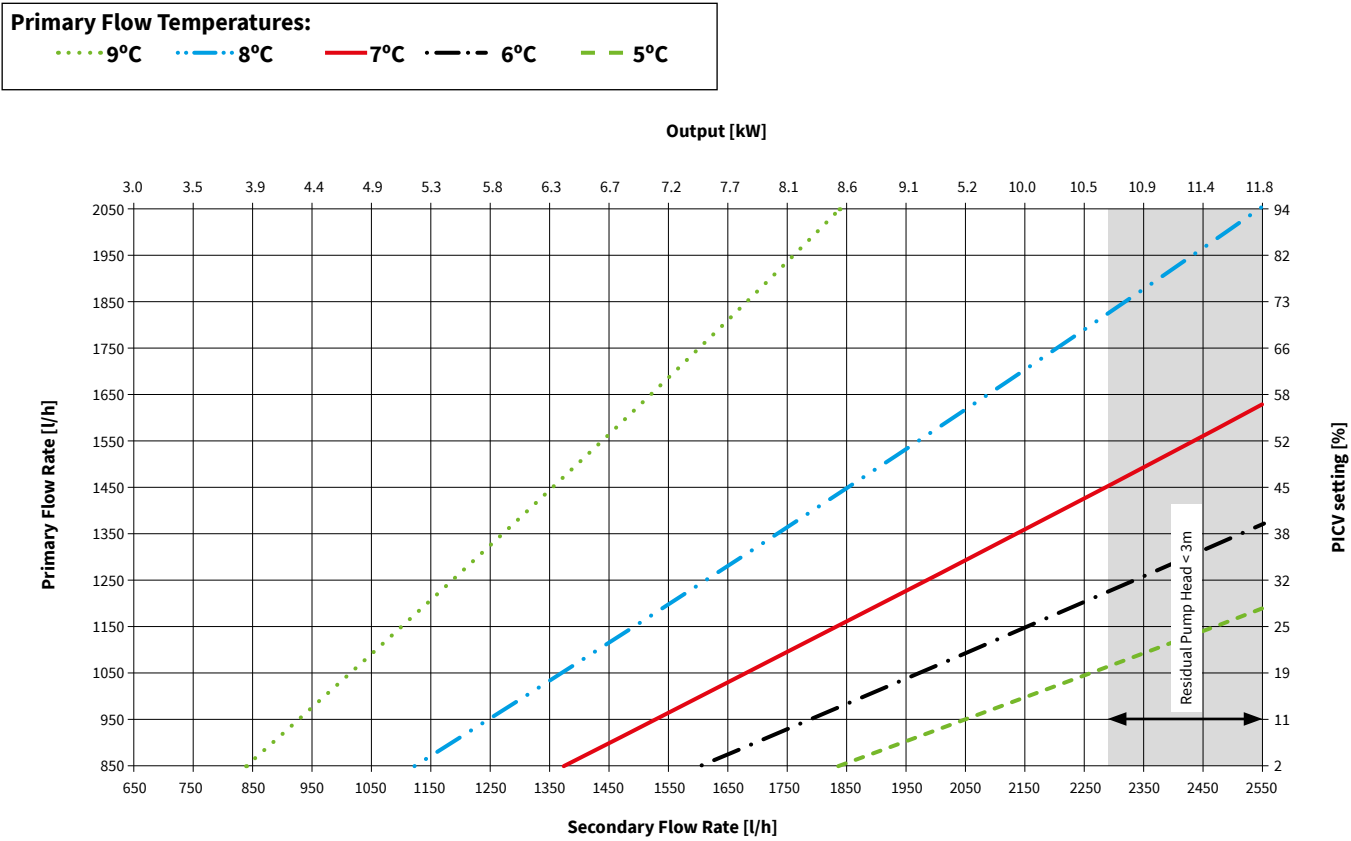
3.3.1 Secondary Side at 8°C/14°C (ΔT=6K)

Note
The PICV settings in the graphs below are based on test results carried out on the cooling unit and can differ from those in the valve's literature. The settings are approximate and will need fine tuning during commissioning using a flow meter (refer to installation manual).



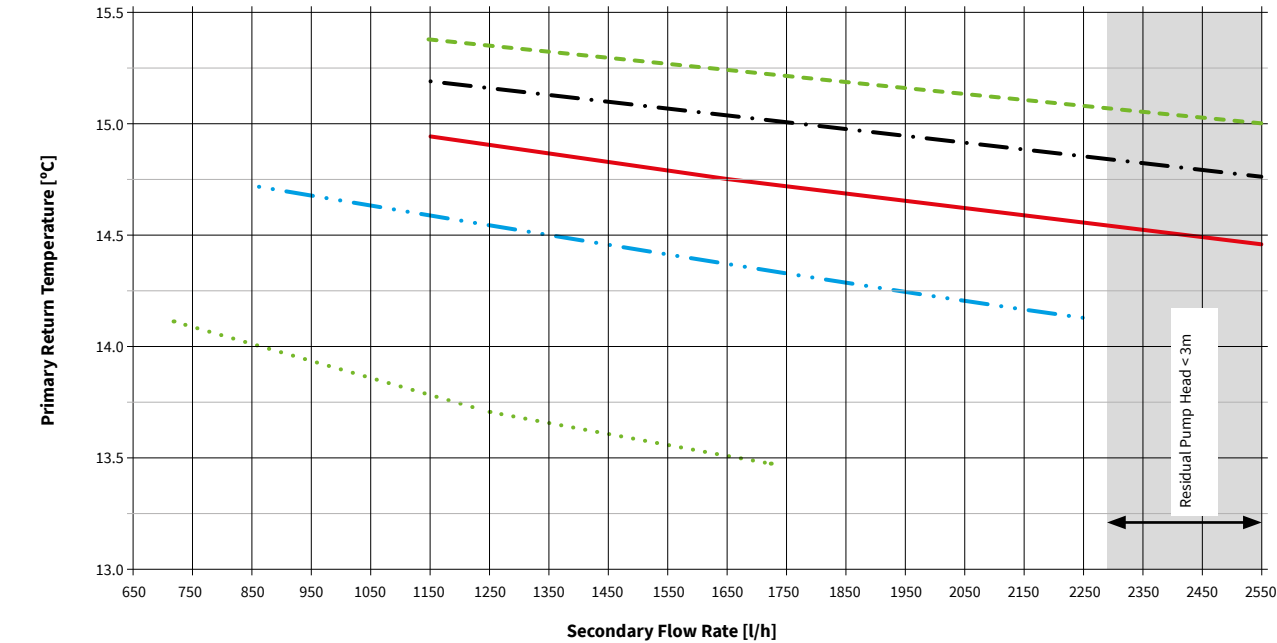
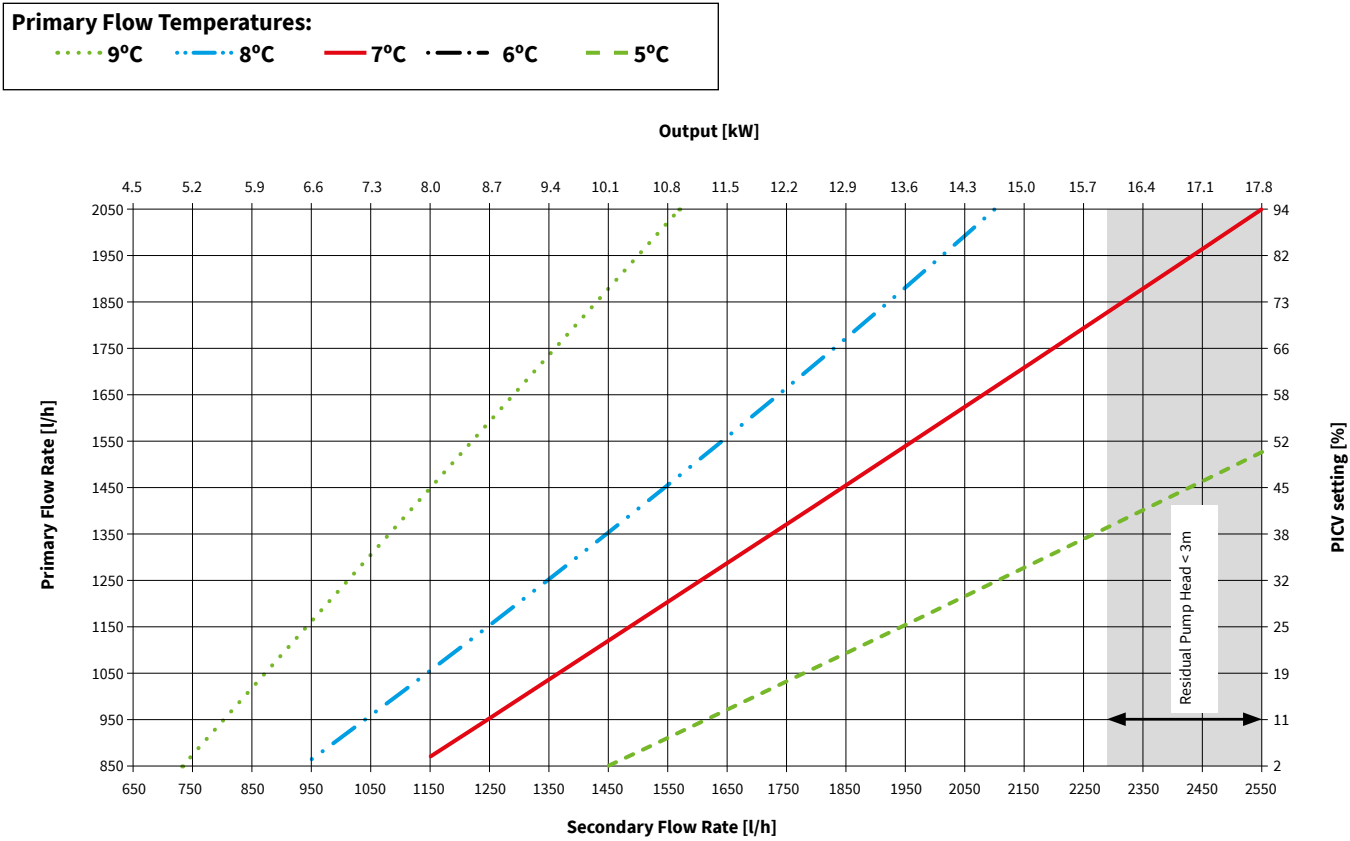
3 Graphs

3.3.2 Secondary Side at 10°C/14°C (ΔT=4K)



3 Graphs

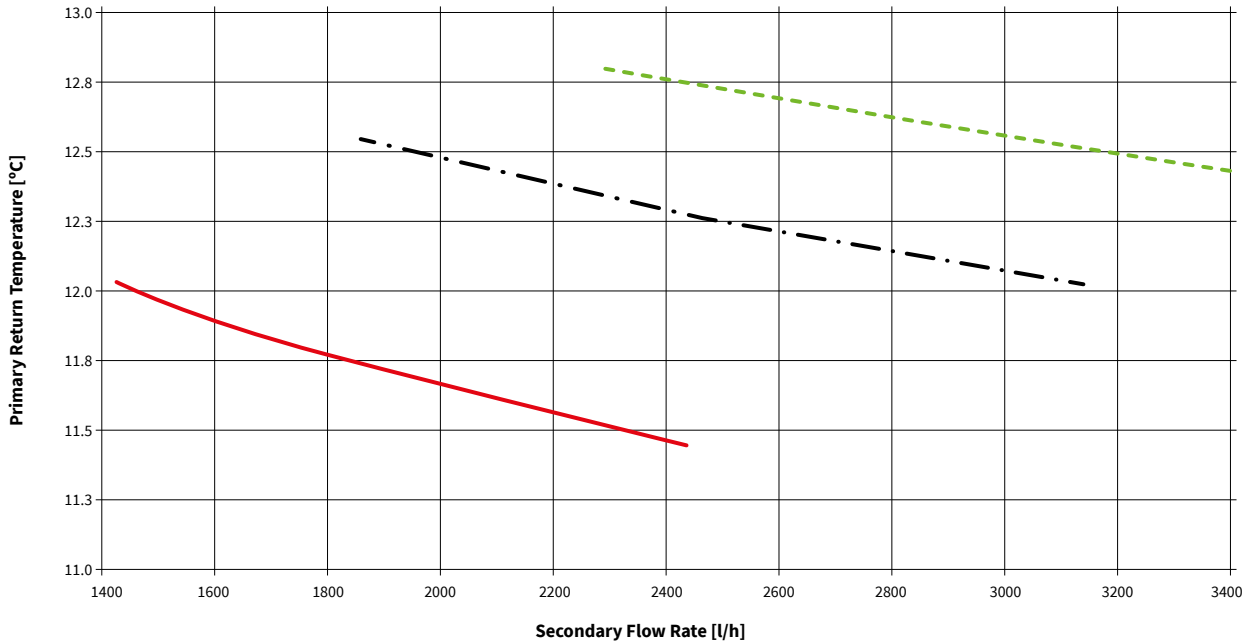
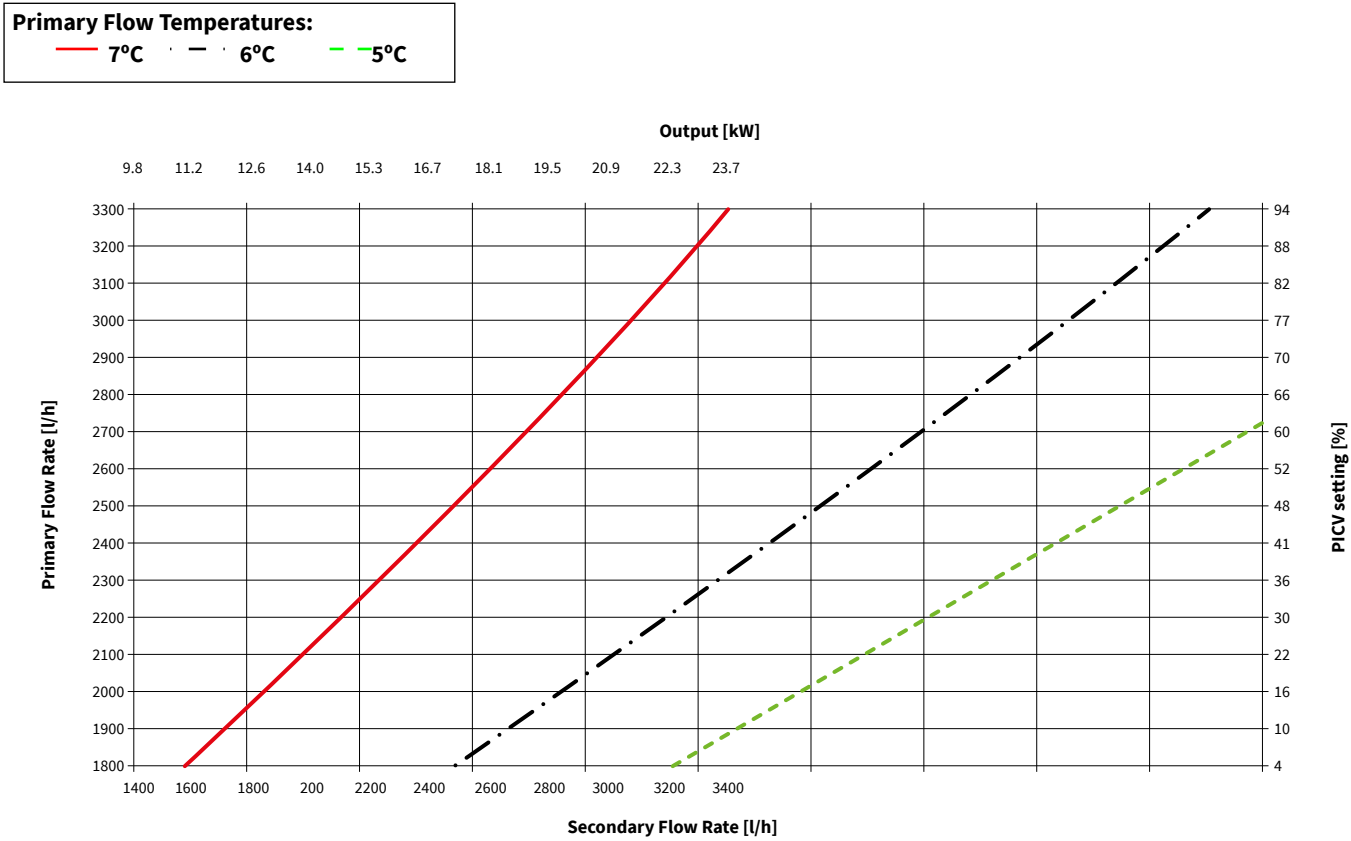
3.3.3 Secondary Side at 10°C/16°C (ΔT=6K)



3 Graphs

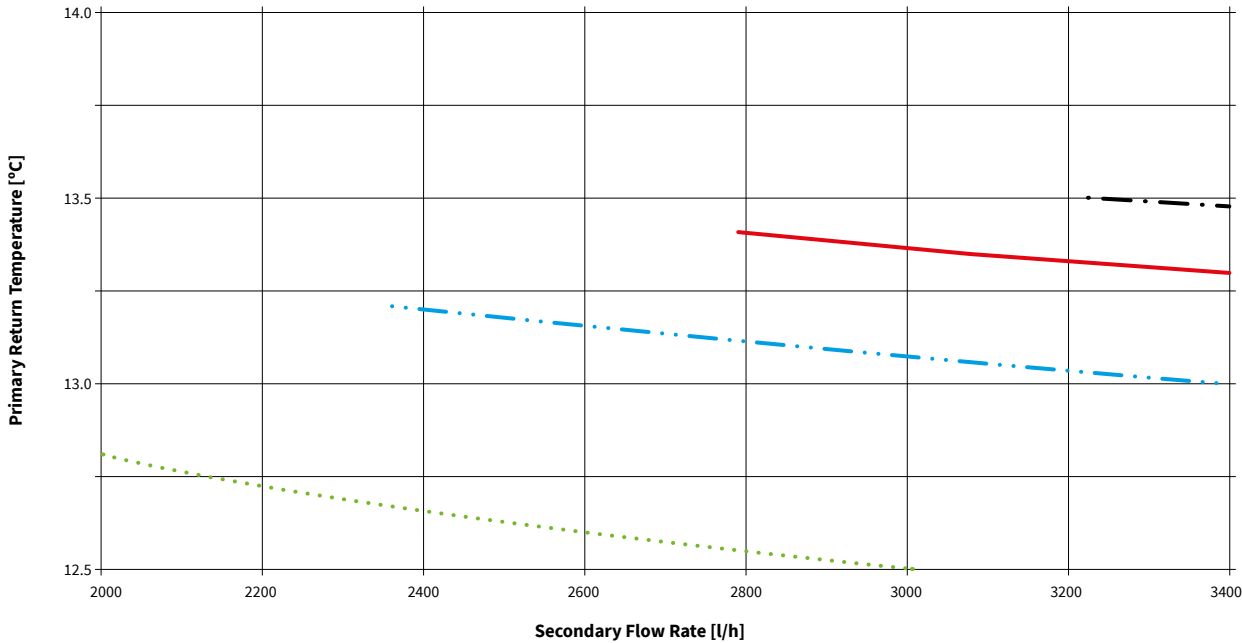
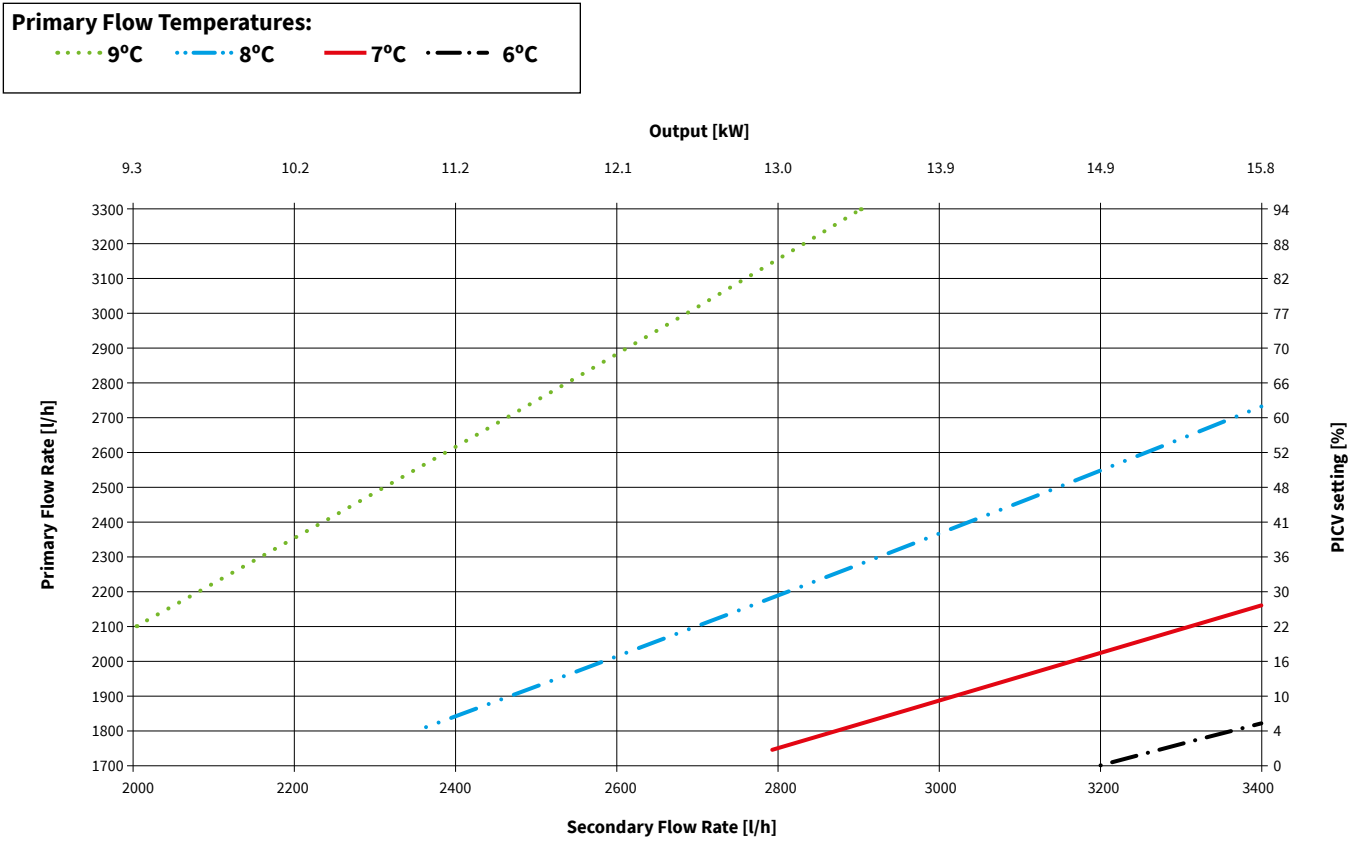
3.4 LogoCool M-Line Nominal 20kW - Output, Flow Rate and Valve Setting

3.4.1 Secondary Side at 8°C/14°C (ΔT=6K)



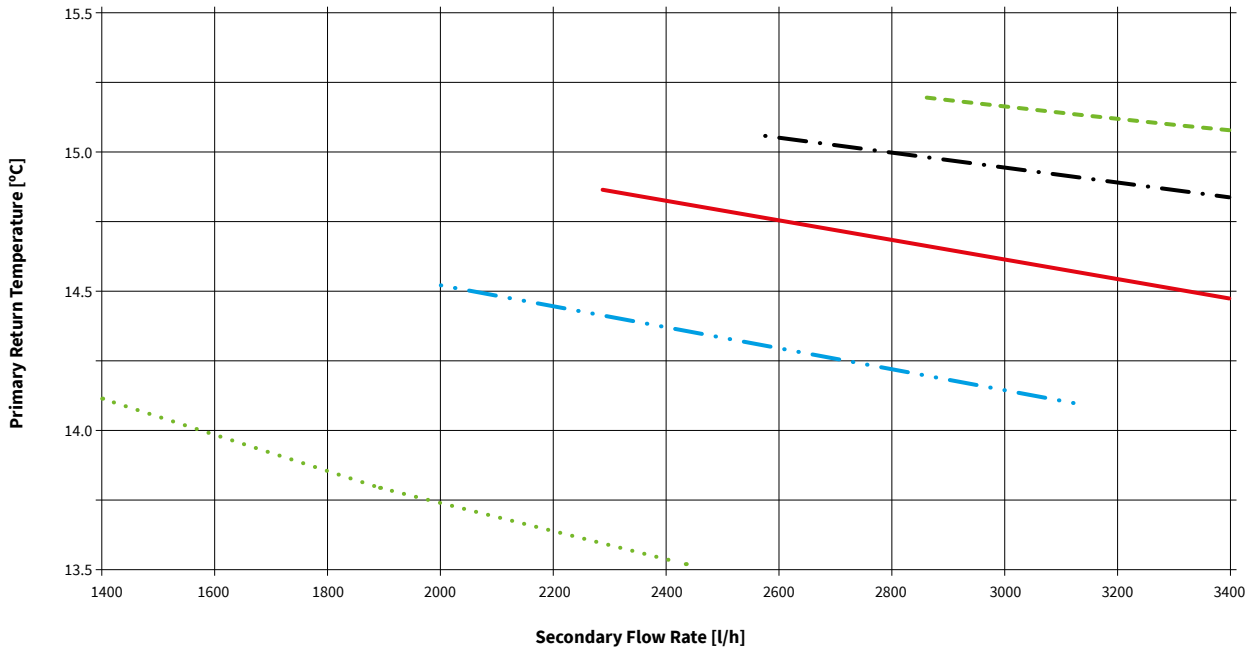
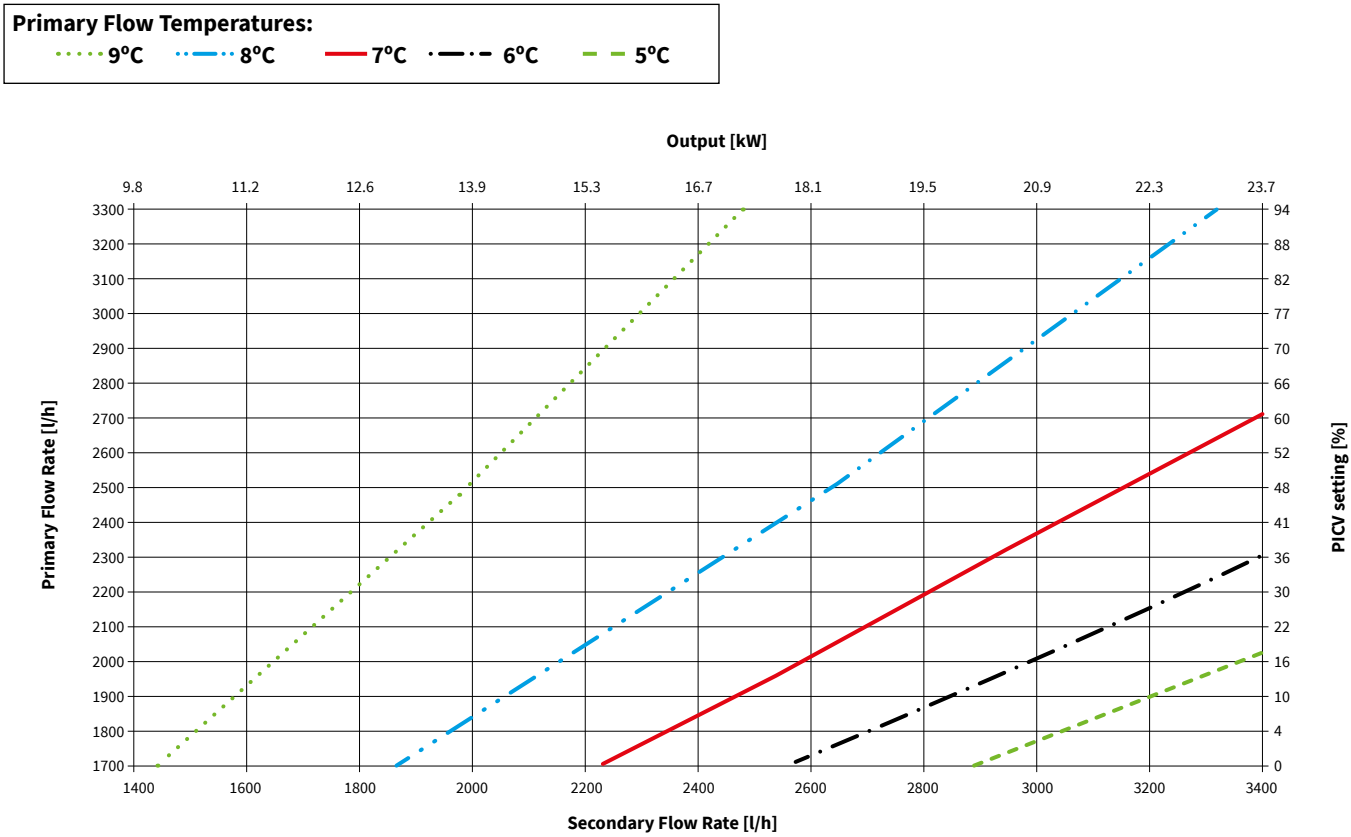
3 Graphs

3.4.2 Secondary Side at 10°C/14°C (ΔT=4K)



3 Graphs

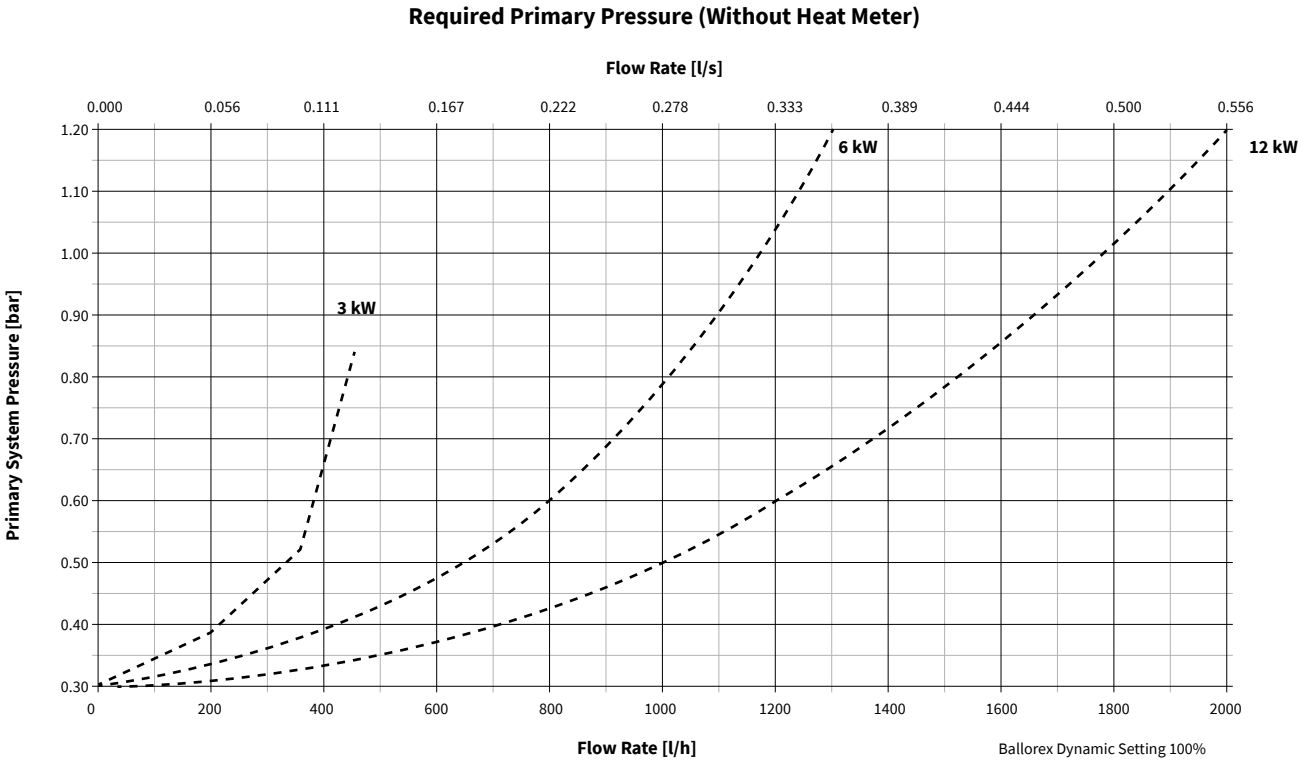
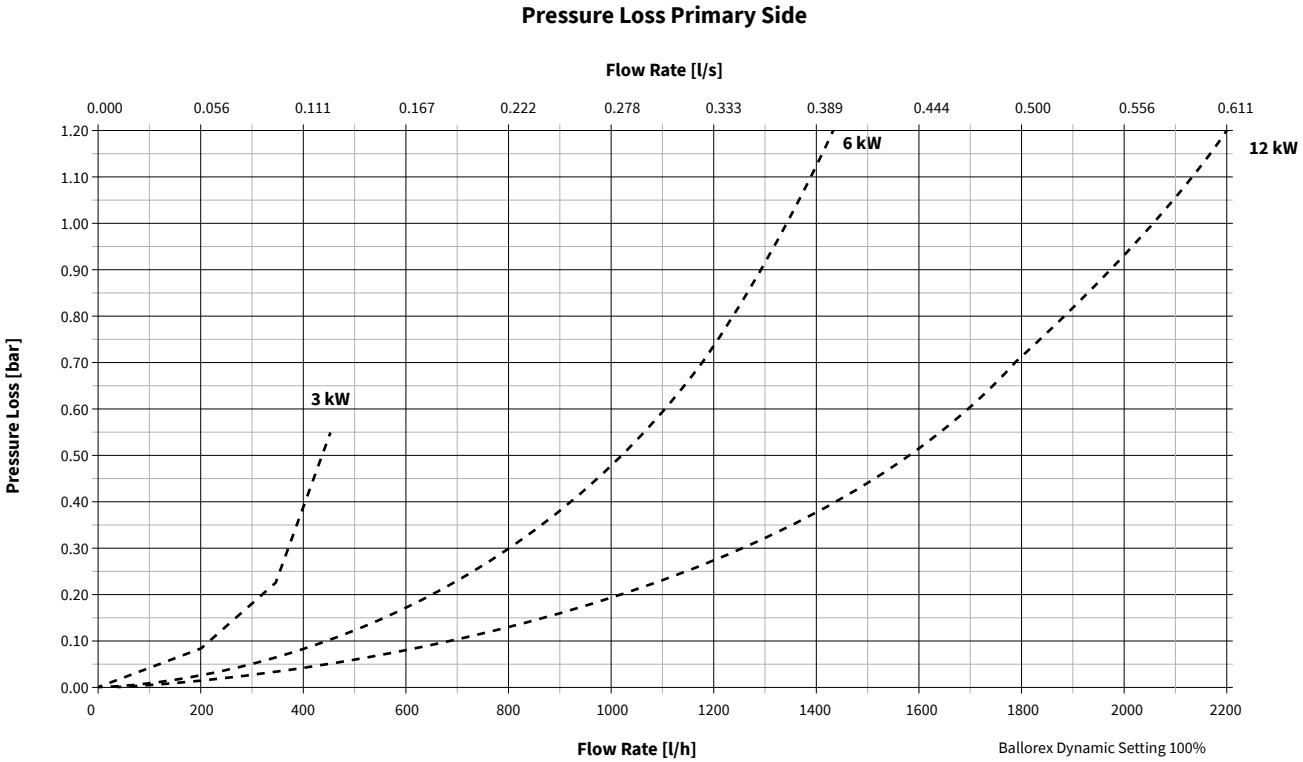
3.4.3 Secondary Side at 10°C/16°C (ΔT=6K)



3 Graphs

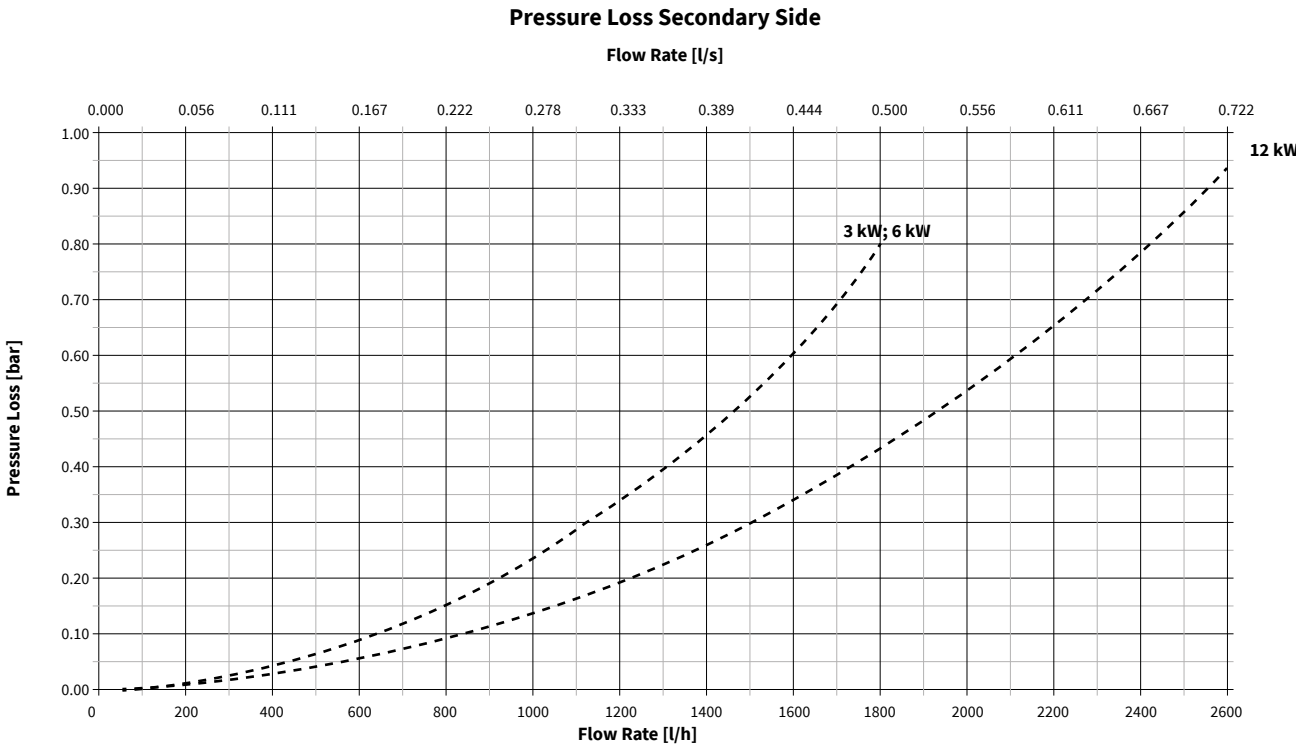
3.5 LogoCool S-Line Nominal 3,6 and 12 kW - Pressure Losses
3.5.1 Primary Side Pressure Loss and Primary System Pressure

Note
An additional 0.3 bar needs to be added for the “NexusValve Vivax” to operate correctly (See graph below)

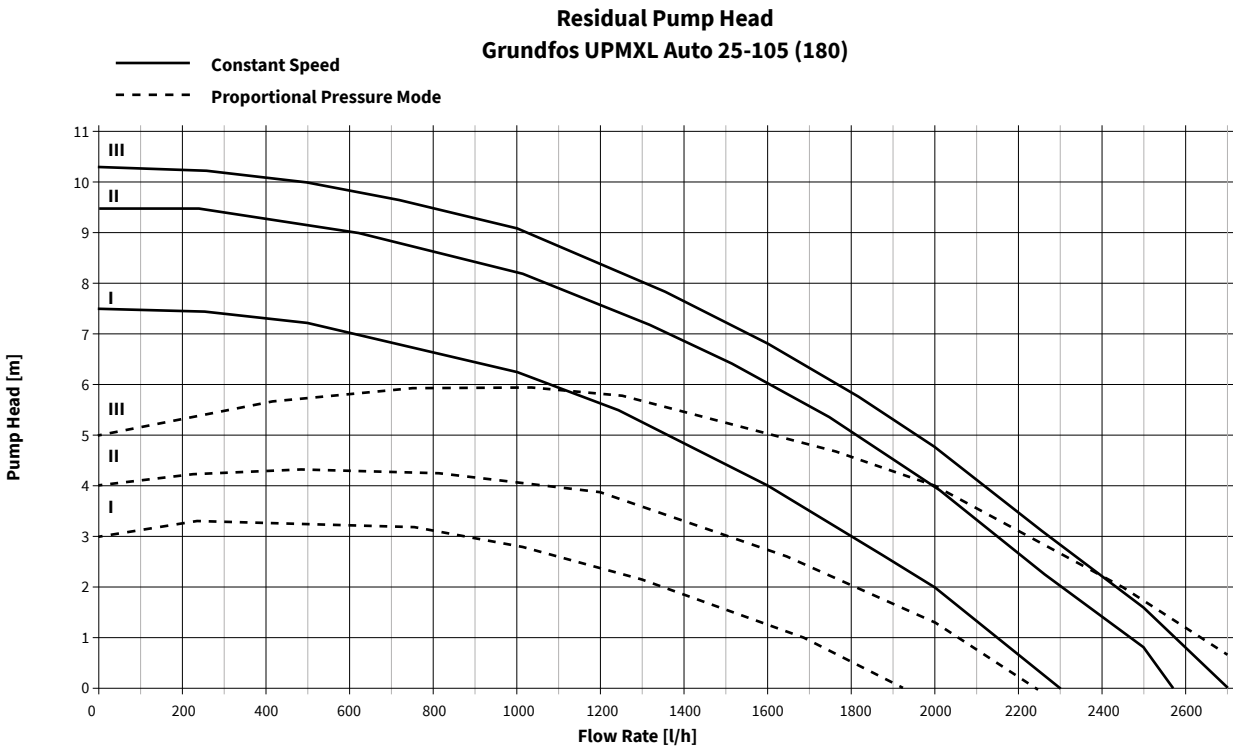


3 Graphs

3.5.2 Secondary Side Pressure Loss and Pump Performance

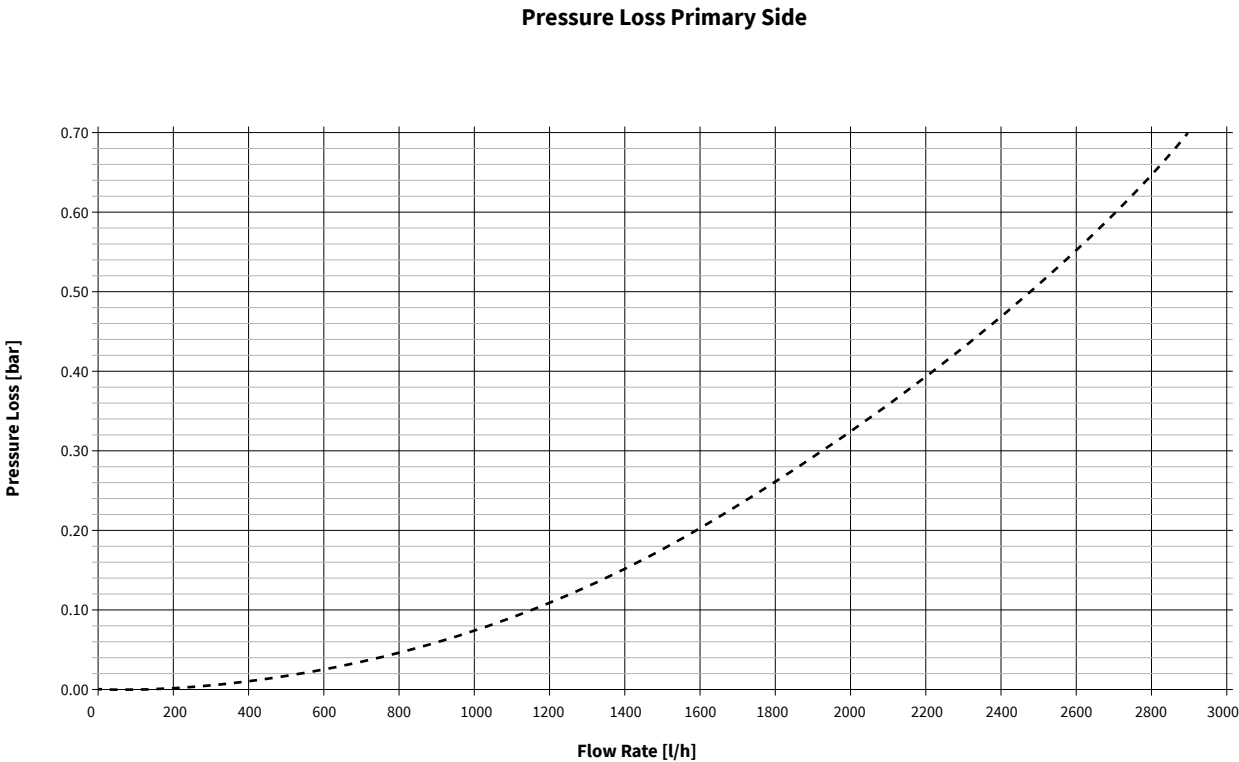


3.5.3 Residual Pump Head



3 Graphs

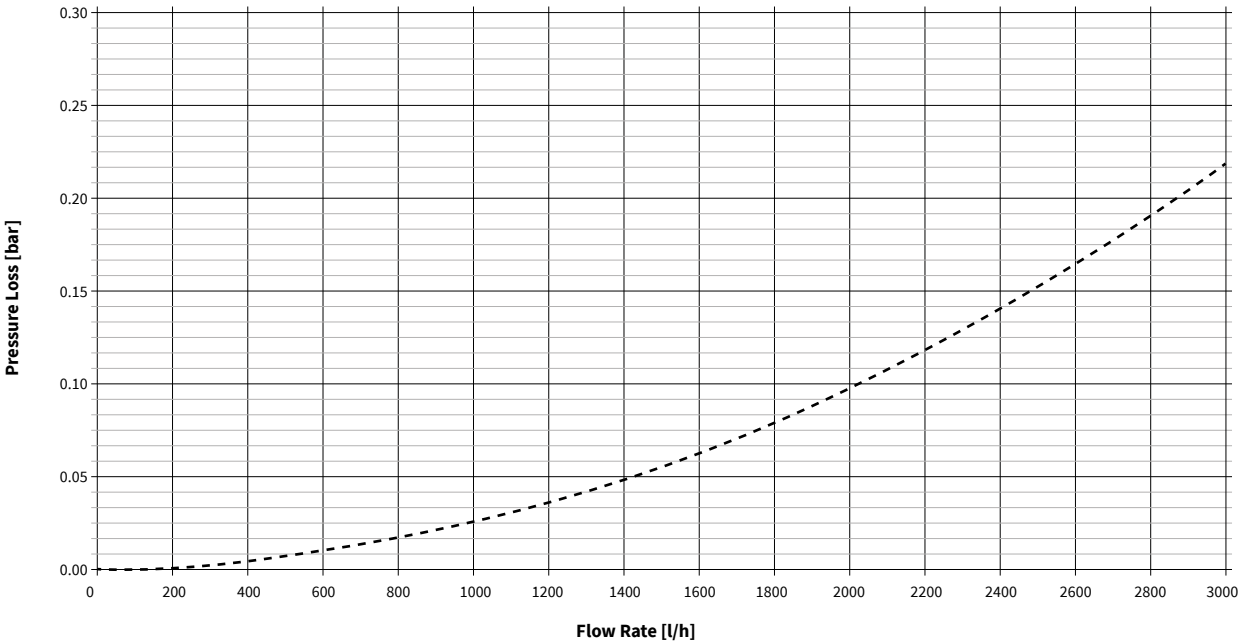
3.6 LogoCool M-Line Nominal 20kW- Pressure Loss
3.6.1 Primary Side



3 Graphs

3.6.2 Secondary Side

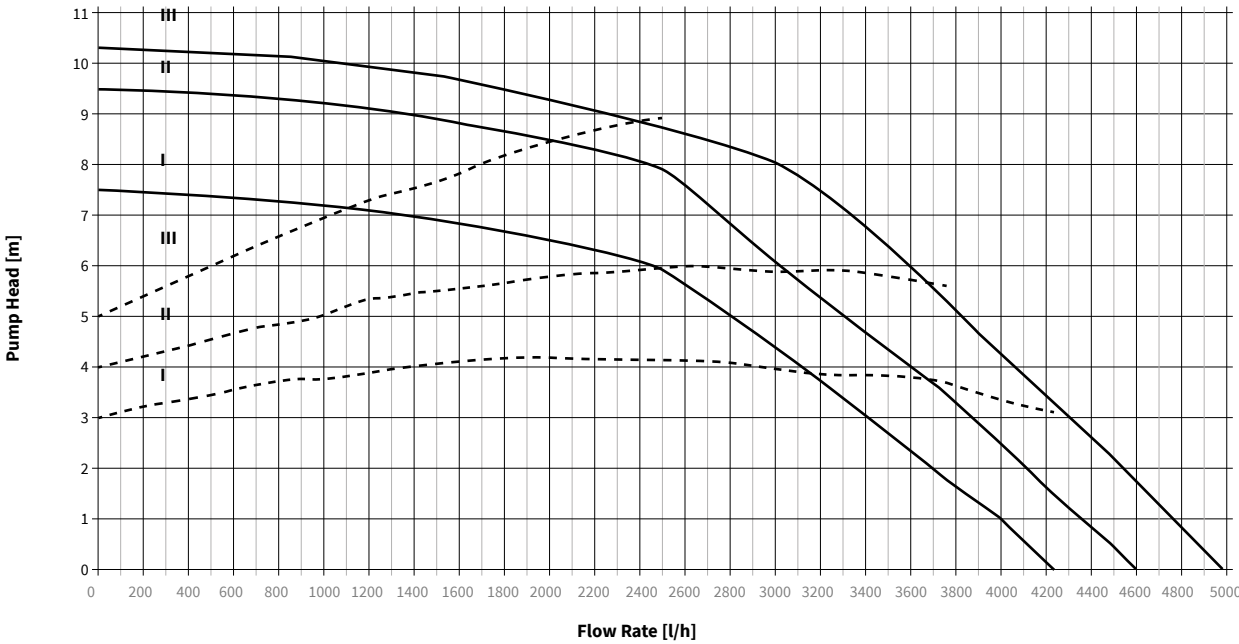
Pressure Loss Secondary Side



3 Graphs

3.6.3 Residual Pump Head

Residual Pump Head





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