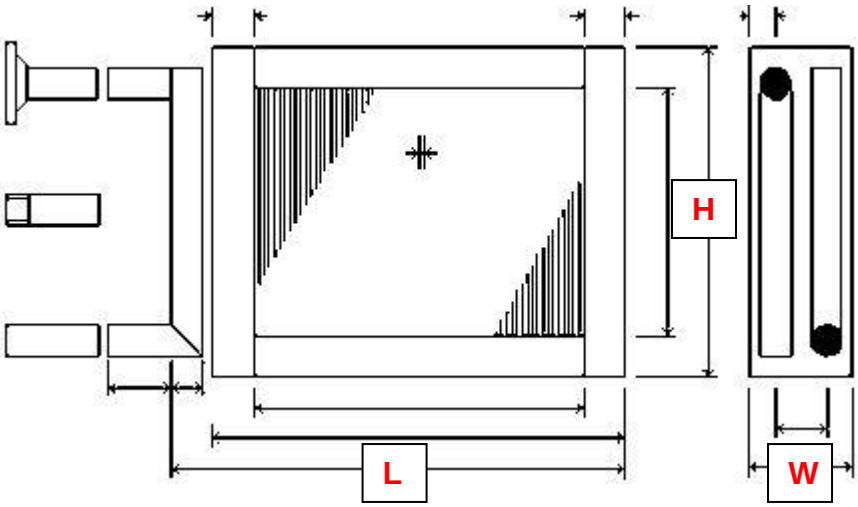
Kelvion coils

Input Data Form

Ver 2017.07.03

Kelvion

INPUT DATA FOR THERMAL SELECTION OF WATER HEATERS

• air flow rate	.....	(m^3/h) or (kg/s)
• temperature of inlet air	.....	(°C)
• temperature of outlet air	.....	(°C)
OR heating output	.....	(kW)
• temperature of inlet water (max.130°C)	.....	(°C)
• temperature of outlet water	.....	(°C)
OR water flow rate	.....	(m^3/h) or (kg/h)
• max. allowed air pressure drop	.....	(Pa)
• max. allowed water pressure drop	.....	(kPa)
• max. allowed or expected overall dimensions of coil 	L=..... H=..... W=.....	(mm) (mm) (mm)
• Casing materials requirements **(PLEASE MARK CORRESPONDING OPTION)** ☐ galvanised steel (standard execution) ☐ aluminium ☐ stainless steel (pls select : 1.4301, 1.4404 or 1.4571) ☐ copper	.....	
• Fin block requirements **(PLEASE MARK CORRESPONDING OPTION)** ☐ aluminium fins (standard execution) ☐ aluminium fins with epoxy resin coating ☐ copper fins	Remarks : Air density = 1.2 kg/m^3 Height above sea level = 0 m **If different – pls specify**	
• Coil mounting orientation (vertical,horizontal,tilted)		

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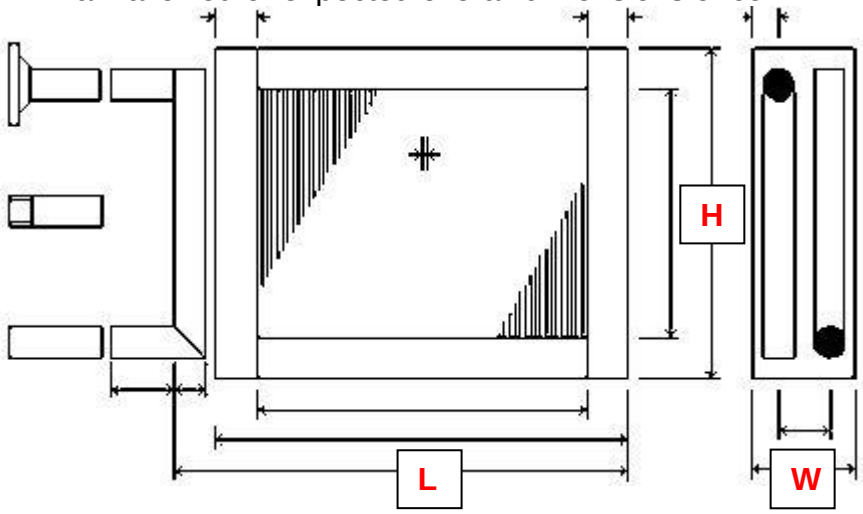
INPUT DATA FOR THERMAL SELECTION OF WATER COOLERS

• air flow rate	.....	(m^3/h) or (kg/s)
• temperature of inlet air	.....	(°C)
• inlet air humidity	.....	(%)
OR inlet air temperature of wet bulb	.....	(°C)
OR content of humidity in inlet air	.....	(g/kg)
• temperature of outlet air	.....	(°C)
OR cooling output	.....	(kW)
• temperature of inlet water	.....	(°C)
• temperature of outlet water	.....	(°C)
OR water flow rate	.....	(m^3/h) or (kg/h)
• max. allowed air pressure drop	.....	(Pa)
• max. allowed water pressure drop	.....	(kPa)
• max. allowed or expected overall dimensions of coil 	L=..... H=..... W=.....	(mm) (mm) (mm)
• Casing materials requirements **(PLEASE MARK CORRESPONDING OPTION)** ☐ galvanised steel (standard execution) ☐ aluminium ☐ stainless steel (pls select : 1.4301, 1.4404 or 1.4571) ☐ copper	.....	
• Fin block requirements **(PLEASE MARK CORRESPONDING OPTION)** ☐ aluminium fins (standard execution) ☐ aluminium fins with epoxy resin coating ☐ copper fins	Remarks : Air density = 1.2 kg/m^3 Height above sea level = 0 m **If different – pls specify**	
• Coil mounting orientation (vertical,horizontal,tilted)		

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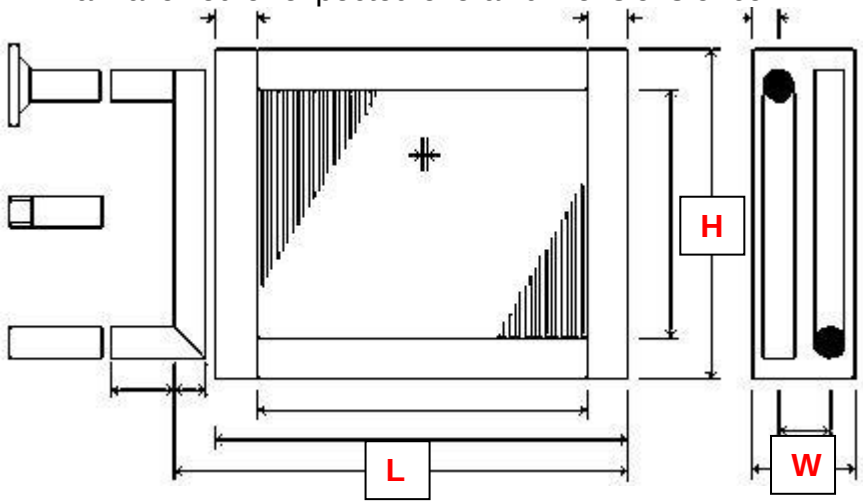
INPUT DATA FOR THERMAL SELECTION OF GLYCOL HEATERS

• air flow rate	.....	(m^3/h) or (kg/s)
• temperature of inlet air	.....	(°C)
• temperature of outlet air	.....	(°C)
OR heating output	.....	(kW)
• temperature of inlet sole (glycol) (max.130°C)	.....	(°C)
• temperature of outlet sole (glycol)	.....	(°C)
OR medium flow rate	.....	(m^3/h) or (kg/h)
• type of glycol (ethylene or propylene 1.2 or propylene 1.3)	.....	
• glycol concentration	.....	(%)
• max. allowed air pressure drop	.....	(Pa)
• max. allowed medium pressure drop	.....	(kPa)
• max. allowed or expected overall dimensions of coil 	L=..... H=..... W=.....	(mm) (mm) (mm)
• Casing materials requirements **(PLEASE MARK CORRESPONDING OPTION)** ☐ galvanised steel (standard execution) ☐ aluminium ☐ stainless steel (pls select : 1.4301, 1.4404 or 1.4571) ☐ copper	.....	
• Fin block requirements **(PLEASE MARK CORRESPONDING OPTION)** ☐ aluminium fins (standard execution) ☐ aluminium fins with epoxy resin coating ☐ copper fins	Remarks : Air density = 1.2 kg/m^3 Height above sea level = 0 m **If different – pls specify**	
• Coil mounting orientation (vertical,horizontal,tilted)		

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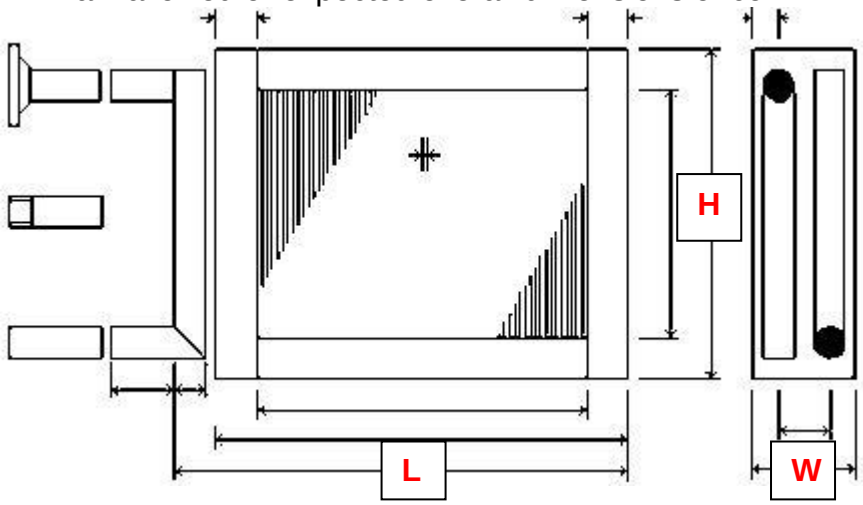
INPUT DATA FOR THERMAL SELECTION OF GLYCOL COOLERS

• air flow rate	.....	(m^3/h) or (kg/s)
• temperature of inlet air	.....	(°C)
• inlet air humidity	.....	(%)
OR inlet air temperature of wet bulb	.....	(°C)
OR content of humidity in inlet air	.....	(g/kg)
• temperature of outlet air	.....	(°C)
OR cooling output	.....	(kW)
• temperature of inlet sole (glycol)	.....	(°C)
• temperature of outlet sole (glycol)	.....	(°C)
OR medium flow rate	.....	(m^3/h) or (kg/h)
• type of glycol (ethylene or propylene 1.2 or propylene 1.3)	.....	
• glycol concentration	.....	(%)
• max. allowed air pressure drop	.....	(Pa)
• max. allowed medium pressure drop	.....	(kPa)
• max. allowed or expected overall dimensions of coil 	L=..... H=..... W=.....	(mm) (mm) (mm)
• Casing materials requirements **(PLEASE MARK CORRESPONDING OPTION)** ☐ galvanised steel (standard execution) ☐ aluminium ☐ stainless steel (pls select : 1.4301, 1.4404 or 1.4571) ☐ copper	.....	
• Fin block requirements **(PLEASE MARK CORRESPONDING OPTION)** ☐ aluminium fins (standard execution) ☐ aluminium fins with epoxy resin coating ☐ copper fins	Remarks : Air density = 1.2 kg/m^3 Height above sea level = 0 m **If different – pls specify**	
• Coil mounting orientation (vertical,horizontal,tilted)		

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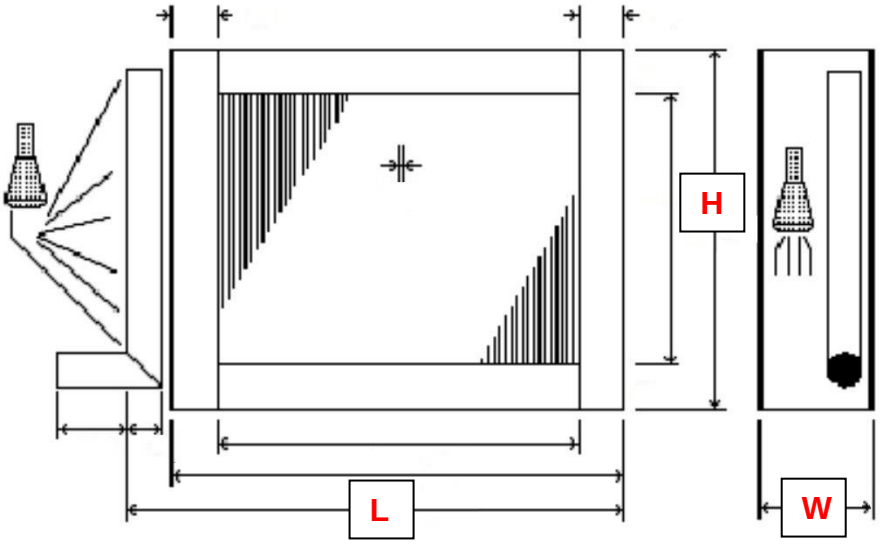
INPUT DATA FOR THERMAL SELECTION OF EVAPORATORS

• air flow rate	.....	(m^3/h) or (kg/s)
• temperature of inlet air	.....	(°C)
• inlet air humidity (10% ÷99%)	.....	(%)
OR inlet air temperature of wet bulb	.....	(°C)
OR content of humidity in inlet air	.....	(g/kg)
• temperature of outlet air	.....	(°C)
OR cooling output	.....	(kW)
• type of refrigerant (R134a, R407C, R404A, R410A, etc)	.....	
• evaporation temperature	.....	(°C)
• condensation temperature	.....	(°C)
• superheating	.....	(°C)
• max. allowed air pressure drop	.....	(Pa)
• max. allowed refrigerant pressure drop	.....	(K) or (kPa)
• max. allowed or expected overall dimensions of coil 	L=..... H=..... W=.....	(mm) (mm) (mm)
• Casing materials requirements **(PLEASE MARK CORRESPONDING OPTION)** ☐ galvanised steel (standard execution) ☐ aluminium ☐ stainless steel (pls select : 1.4301, 1.4404 or 1.4571) ☐ copper	.....	
• Fin block requirements **(PLEASE MARK CORRESPONDING OPTION)** ☐ aluminium fins (standard execution) ☐ aluminium fins with epoxy resin coating ☐ copper fins	Remarks : Air density = 1.2 kg/m^3 Height above sea level = 0 m **If different – pls specify**	
• Coil mounting orientation (vertical,horizontal,tilted)		

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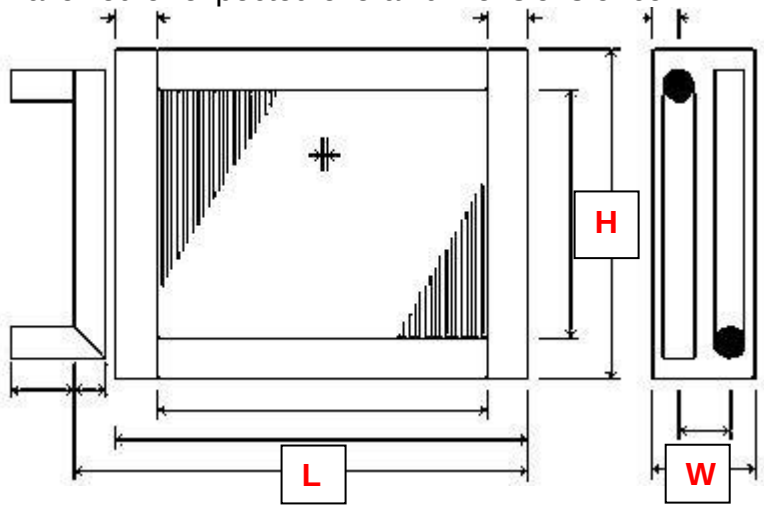
INPUT DATA FOR THERMAL SELECTION OF CONDENSERS

• air flow rate	.....	(m^3/h) or (kg/s)
• temperature of inlet air	.....	(°C)
• temperature of outlet air	.....	(°C)
OR cooling output	.....	(kW)
• type of refrigerant (R134a, R407C, R404A, R410A,etc)	.....	
• condensation temperature	.....	(°C)
• hot gas temperature (condensation temp. + superheating)	.....	(°C)
• subcooling	.....	(°C)
• max. allowed air pressure drop	.....	(Pa)
• max. allowed refrigerant pressure drop	.....	(K) or (kPa)
• max. allowed or expected overall dimensions of coil 	L=..... H=..... W=.....	(mm) (mm) (mm)
• Casing materials requirements **(PLEASE MARK CORRESPONDING OPTION)** ☐ galvanised steel (standard execution) ☐ aluminium ☐ stainless steel (pls select : 1.4301, 1.4404 or 1.4571) ☐ copper	.....	
• Fin block requirements **(PLEASE MARK CORRESPONDING OPTION)** ☐ aluminium fins (standard execution) ☐ aluminium fins with epoxy resin coating ☐ copper fin	Remarks : Air density = 1.2 kg/m^3 Height above sea level = 0 m **If different – pls specify**	
• Coil mounting orientation (vertical,horizontal,tilted)		