Coil calculation summary

Coil calculation report generated via CoilCalcBridge

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Geometry and materials

Calculation Mode	STD
Geometry (Geo)	P2510
Tube Material	Copper
Fin Material	Aluminium
Frame	Galvanized steel
Headers	Copper
No. of Tubes	10
Length (mm)	350
No. of Rows	3
No. of Circuits	4
Fin Space (mm)	2.1

Air conditions

Air T inlet [°C]	25
Air RH inlet [%]	80
Air Flow [m³/h]	450

Fluid conditions

Fluid	Water
Fluid T inlet [°C]	70
Fluid T outlet [°C]	60

Targets / limits

Target Power [kW] (0 = calculate)	0
Max Fluid ?p [kPa]	40

Calculation results

Description	Value
Internal Coil Volume	1,40 dm³
Air Outlet Temperature	53,87 °C
Air Outlet Relative Humidity	16,99 %
Air Pressure Drop (dry)	23 Pa
Air Pressure Drop (wet)	23 Pa
Condensed Water	0 l/h
Total Power (Nominal)	**4,37 kW**
SHR Factor	1,00
Fluid Flow Rate	0,38 l/h
Fluid Pressure Drop	14,29 kPa
Sensible Power	**4,37 kW**
Latent Power	**0 kW**

Values are calculated based on the provided input data and the CoilCalc model.