

Comparison List UNILAB COILS

Technical features available in UNILAB COILS 6.5 - Main Description		L	S	P	E
Geometries	Possibility to insert up to maximum n° 4 geometries, which users may select from archive or insert ex novo	•			
“	Wide archive of geometries		•	•	•
“	Possibility to add new geometries		•	•	•
“	Calculation of radiators used usually in the Automotive field: with rectangular tubes or with Rounded rectangular tubes	•	•	•	•
Management of archives	Fluid properties: Liquid (pure and mixtures), Gases (pure and mixtures), Refrigerants (wide library, ref. REFPROP 8 – NIST)	•	•	•	•
“	Fluid properties: Added new refrigerants R1234YF and R1234ZF	•	•	•	•
“	Archive of materials: Tubes, Fins, Manifolds	•	•	•	•
Calculation modalities	N° 3 Calculations: Module “A” (Heating, Cooling and Steam), Module “B” (Condensing, Direct Expansion and Pump evaporator), or Module COMPLETE (A+B)	•	•	•	•
“	Calculation: in Design and in Verify	•	•	•	•
Condensing	Overheating and subcooling analysis	•	•	•	•
“	Analysis of each phases (deoverheating, condensing, subcooling) with the calculation of each surface’s portions			•	•
Direct Expansion	Possibility to use different equations for the calculation in Direct Expansion		•	•	•
“	Flow map printout		•	•	•
“	Distributors selection			•	•
Pump Evaporator	System for fine calibration of the pump evaporator		•	•	•
“	Possibility of using alternative method of calculation for pump evaporator			•	•
Other options	Simulation with skipped tubes	•	•	•	•
“	Multi-factor			•	•
“	Possibility to set the number of baffles in the frontal surface			•	•
Determination of coil’s cost	Implemented fast mode for the calculation of coil cost calculation			•	•
“	Detailed coil cost calculation			•	•
Refrigerant cycles	Calculation of the refrigerant cycle of units made of a condenser, a compressor and an evaporator			•	•
“	Calculation and diagram of refrigerator cycle			•	•
“	Line pressure drops			•	•
Balance point	Calculation of the balance point with axial fans and compressors (including archive administration)			•	•
Recuperators	M-N heat recovery coil analysis				•
“	Printout for 1-1 recuperator coil with coils drawing				•
“	Additional information concerning the performance of heat recovery system				•
Components in series	Calculation of components in series: coils, compressors, mixing boxes				•
Smooth tube analysis	Available in all no. 6 calculation typologies: heating, cooling, condensing, direct expansion, steam and pump evaporator				•
Other fluids outside tubes	(Not air) – Available in all no. 6 calculation typologies: heating, cooling, condensing, direct expansion, steam and pump evaporator				•

Other functionalities available in UNILAB COILS 6.5 - Main Description		L	S	P	E
Activation	Activation with USB key. Physical delivery (backup copy CD and USB key) by courier	•	•	•	•
“	On demand, with price integration, possibility to activate the software by only software activation	•	•	•	•
Upgrade & maintenance	Unilab provides the technical support only to customers with regular subscription of maintenance contract	•	•	•	•
Technical support	Automatic renewal of maintenance contract, except the receipt of written notice within 3 months before the expiring date	•	•	•	•
“	The annual quote covers maximum n° 3 technical licenses	•	•	•	•
True update	Online upgrade to the latest release in real time	•	•	•	•
Eurovent & Ahri	Support on demand: available only for customers with regular subscription of maintenance contract			•	•
“	Support on demand: Service taxable to quotation, based on certain parameters (numbers of geometries, calculation's typologies, etc.)			•	•
Management of languages	Software available in the following languages: Italian, English, German, French, Turkish, Russian, Spanish and Brazilian	•	•	•	•
“	Unicode support for non latin alphabets	•	•	•	•
“	Possibility to include more languages by Excel file: up to no. 10 languages			•	•
Project's archive	Calculations can be saved in files, for easy cataloguing	•	•	•	•
“	Possibility to save the output data in EXCEL format			•	•
Customizations	Customization view of the project details	•	•	•	•
“	Logo customization	•	•	•	•
“	Program Page Builder Light for the customization of the current printout or the addition of new ones			•	•
Drawings	EMF Drawings insertion	•	•	•	•
“	Possibility to converter DXF/DWG drawings to EMF format	•	•	•	•
Script	Quote calculation script	•	•	•	•
“	VB Script Engine for special calculation			•	•
Printouts	Printouts in PDF and in WORD format and PDF file export	•	•	•	•
“	Management of own printouts by WORD template			•	•
Units of measurement	Customizable units of measurement	•	•	•	•
“	Transformation of units of measurement in print preview, with the option to hide the lines			•	•
Geometry's administration	Simplified geometry administration		•	•	•
Tables & charts	Capacity in function of rows number, of the number of circuits, of air flow, of the fluid inlet temperature (fixed air-fluid delta T)		•	•	•
“	Air pressure drop in function of air flow		•	•	•
“	Fluid pressure drop in function of fluid air flow, of the number of circuits		•	•	•
“	Fan balance point, Compressor balance point		•	•	•
Catalogues	Automatic generation of catalogues and performance tables			•	•