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01

LATS PROGRAMS

- · LATS CAD
- · LATS HVAC
- · LATS ENERGY
- · LATS REVIT

The LATS* Program series has been developed to offer the best and the most optimized tool for LG HVAC systems, providing our customers a faster, easier, and a more accurate way in everyday duties of Model-selection, Draft Energy Estimation & Designing, and many more.

* LATS: LG Air-conditioner Technical Solution

02

ENERGY MODELING

- ·TRNSYS

03

CFD

· FLUENT

· LMS Raynoise

NOISE

TOOLS

· Rayacoustics

ANALYSIS

LG Electronics

http://partner.lge.com http://www.lgeaircon.com http://www.lq.com/qlobal/business

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· eQUEST®

EnergyPlus™

LATS CAD

LATS HVAC



LATS CAD

LATS CAD is LG's designing program, aligned with AutoCAD. Compared with the conventional AutoCAD, LATS CAD enables faster and a more accurate design of LG HVAC products. Moreover, it offers not only designing, but also quotation, installation review(estimation on refrigerant piping diameter and additional refrigerant, test driving result by piping lengths), and minimizes possible issues of installation by estimation.





- 1. Drawing check (Installation review)
- 2. VRF system drawing
- 3. System diagram

Data Requirements for Analysis

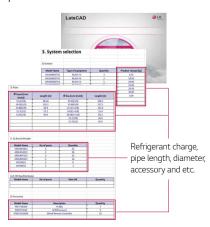


- Drawings
- Architectural drawings (Plan, Elevation)
- · Report of load calculation

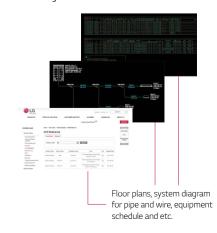


LG's Support & Offering

· Excel report

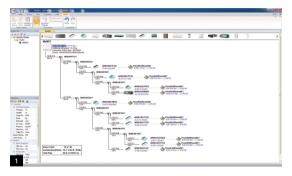


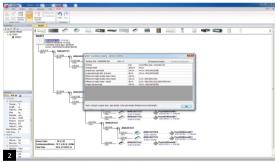
· LATS CAD drawings



LATS HVAC

LATS HVAC is an integrated model selection program of LG HVAC products*, enabling an accurate and quick selection on the best model suitable to each sites. Deriving results for test driving by piping lengths is also possible, same as LATS CAD program. In addition to model selection, faster estimation on refrigerant piping diameter and additional refrigerant is possible, along with auto printing of reports.





* Multi V, Single, Multi, ERV, AHU kit (AHU Kit : to be released in 2nd half of '16)

O LICC	tronics					N	odel Select		
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ARUN 300LTS 4			1				0		
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ARNU24GTTC2			1		_		_	٥	
ARNU15GTQC2			1				0		
ARNU24GTPC2			1				0		
ARNU28GTPC2			1				0		
ARNU48GTMC2			1				0		
ARNU42G BRA2			1				0		
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PT-UMC1 (IDU)			3		+			0	
PT-UQC(IDU)			1		1			0	
Total			6		_	0			

- Automated pipe selection, additional refrigerant calculation
- 2. System check
- Auto printing of estimation and result reports

Data Requirements for Analysis



Report of load calculation



LG's Support & Offering

- · Equipment selection report
- · Pipe quantity report
- · Accessory quantity report
- · Additional refrigerant amount report
- · Equipment diagram

LATS ENERGY

LATS REVIT



LATS ENERGY

LATS Energy program is a draft energy estimation program, self-developed by LG Air-Solution Business Unit. This program helps estimate the draft energy usage and analyzes the life cycle cost of LG VRF models during the early stage of a project. By simply selecting information such as the project's region, equipment usage schedule, and applied products, the results can be easily seen.







- 1, 2. LATS Energy Input (products, schedule)
- 3. Result (draft energy consumption)

Data Requirements for Analysis



HVAC Equipment schedule (Load Calculation Report)

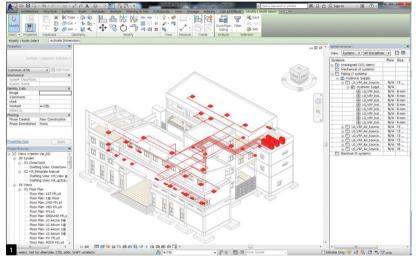


LG's Support & Offering

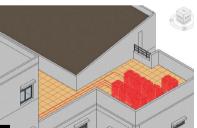
- · Energy Consumption
- · LCC (life-cycle cost)

LATS REVIT

LATS REVIT is LG's 3D HVAC designing program, aligned with REVITTM LATS REVIT is developed to make 3D designing of LG HVAC products easier than the conventional program. It enables engineers to check 3D images from designing stage and prevents possible issues of the installation stage.







- 1. LATS REVIT running screen
- 2. Indoor unit 3D floor plan
- 3. Outdoor unit 3D floor plan

Data Requirements for Analysis



- Drawings
- Architectural drawings(3D)
 (Plan, Elevation)
- Report of load calculation



- · Drawings (3D)
 - LG VRF
- · HVAC Equipment Schedule

LG's Support & Offering

· HVAC Quantity report