

YLPB

Heat pump scroll compressor

Cooling capacities from 336 kW to 629 kW

Heating capacities from 344 kW to 653 kW



Features

The **YLPB** heat pump delivers premium energy efficiency, it is easy to install, quiet to run, and it is supported by a knowledgeable service force.

Efficiency

One of the highest part load cooling efficiency unit in the market, improved defrost cycle, extended operating envelope. Maximize heating efficiency and renewable energy use with the **YLPB** heat pump.

Sound

Designed for quiet operation at full and part load conditions.

Ease of installation

Quick and easy to install, compact design. Smart Equipment and Verasys ready.

Reliability

The **YLPB** is our third generation of fully factory tested scroll heat pumps, and thanks to our extensive service solutions, support and minimal maintenance are assured.

Options/Accessories

- Soft start
- Power factor correction capacitors
- Bms interfacing options
- Dual pressure relief valves
- Victaulic coupling
- Flow switch
- Desuperheater
- Enclosure options
- Sound attenuation options
- Anti-vibration mounts options
- VSD single and dual pump kits



Multiple scroll design enables sound reduction during part load operation by simply turning off unnecessary compressors

Heat pump scroll compressor

YLPB 0345 to 0650



Nominal capacity

YLPB	0345	0430	0525	0575	0650
Cooling capacity (kW)	336	413	479	559	629
EER	3.00	2.93	2.88	2.95	2.99
SEER	4.36	4.55	4.47	4.53	4.51
$\eta_{s,c}$	172	179	176	178	178
Heating capacity (kW)	344	427	514	575	653
COP	3.07	3.07	3.03	2.99	3.01
SCOP	3.53	3.52	3.54	3.47	3.47
$\eta_{s,h}$	138	138	139	136	136
Sound Power Level (dBA)	96	96	97	98	99

Net values at Eurovent nominal conditions:

Cooling capacities in kW given for 7°C water leaving temperature Δt 5°C and 35°C ambient temperature.

Heating capacities in kW given for 45°C water leaving temperature and 7°C ambient temperature.

SCOP calculated according to EN14511 and EN14825.

$\eta_{s,c}$ calculated according to Ecodesign regulation for heating (813/2013).

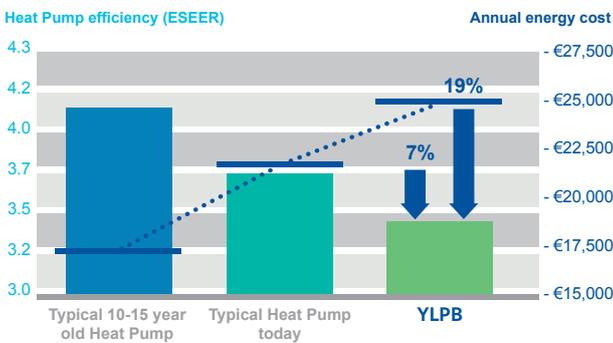
Ecodesign figures are calculated following fixed water and variable outlet approach (FW/VO). For other Ecodesign calculations, please contact your JCI representative.

The above data is based on Johnson Controls' selection software YORKworks 20.05b. Please refer to the latest version of the software for specific projects.

Technical data

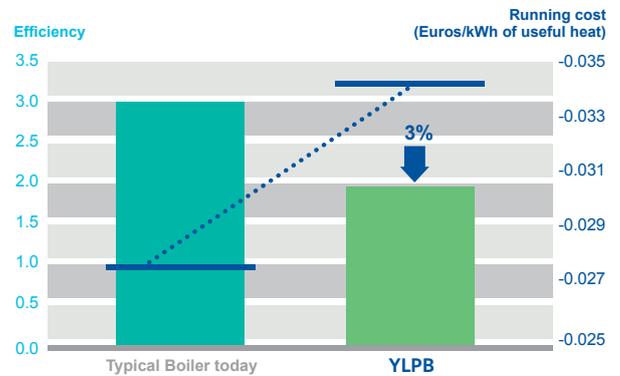
YLPB			0345	0430	0525	0575	0650	
Dimensions	Length	mm	4721		5839		6958	
	Width	mm	2242					
	Height	mm	2391					
Operating weight kg			3793	4043	4210	4747	5495	

High Efficiency Cooling Mode



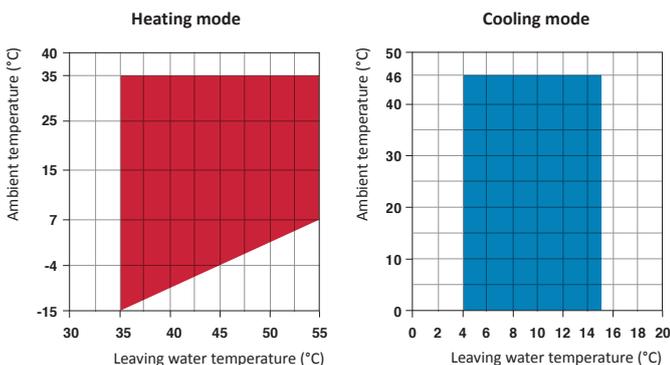
500 kW unit, 3000 operating hours, energy rate = 0.1 EUR / kWh

Additional Energy Savings in Heating Mode

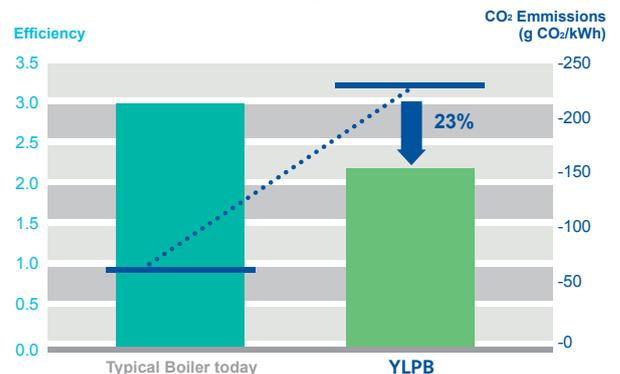


Energy Rate: Electricity 0.1 EUR / kWh; Gas 0.03 EUR / kWh

Operation limits



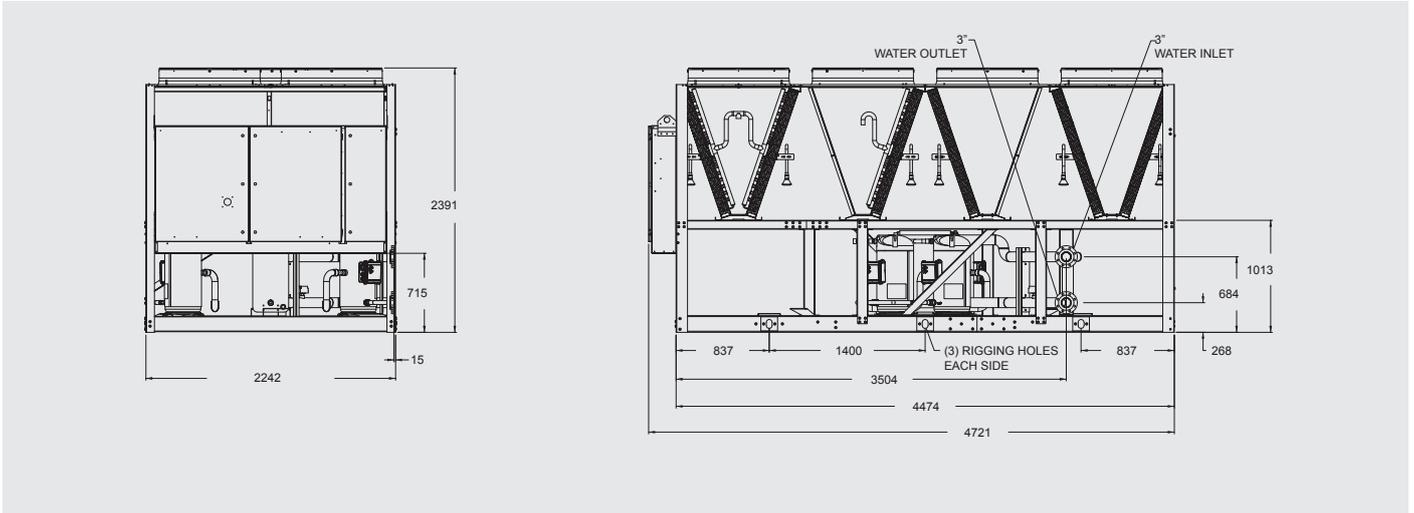
Carbon footprint in Heating Mode



Manufacturer reserves the rights to change specifications without prior notice.

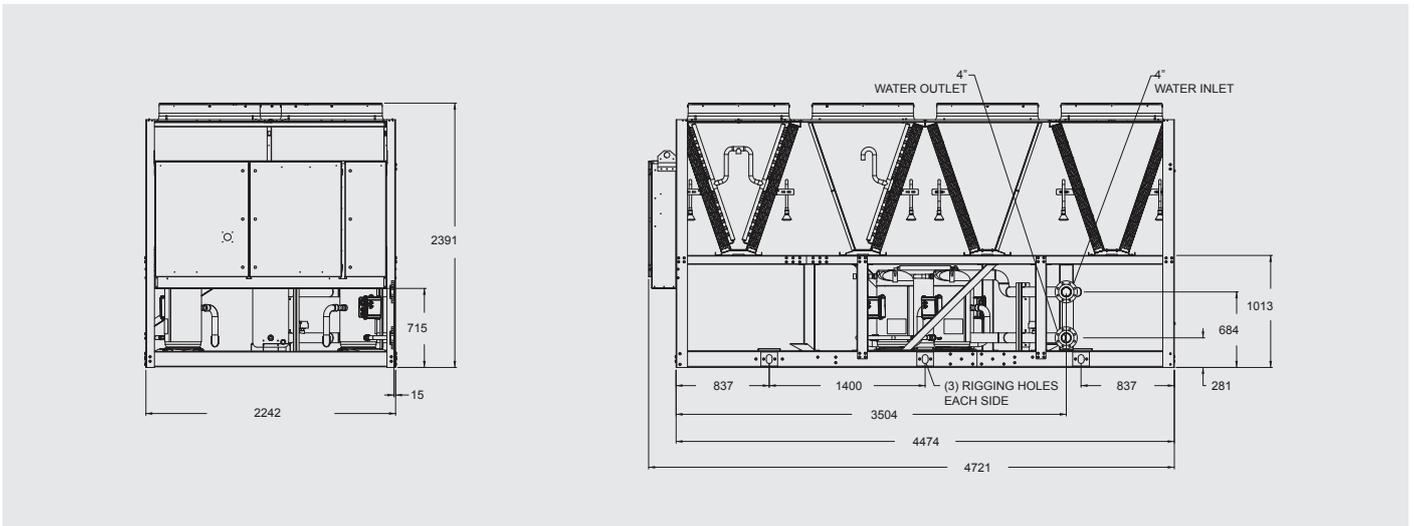
Dimensions and hydraulic connections

YLPB 0345 and 0430



All dimensions in mm. Drawings not in scale.

YLPB 0525

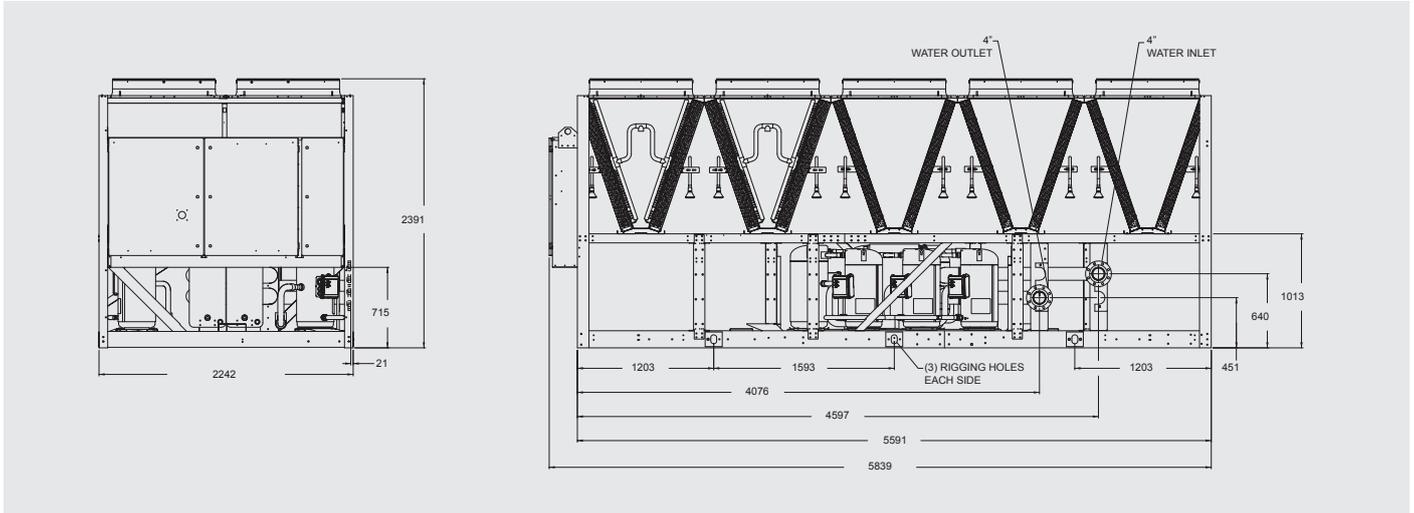


All dimensions in mm. Drawings not in scale.

YLPB 0345 to 0650

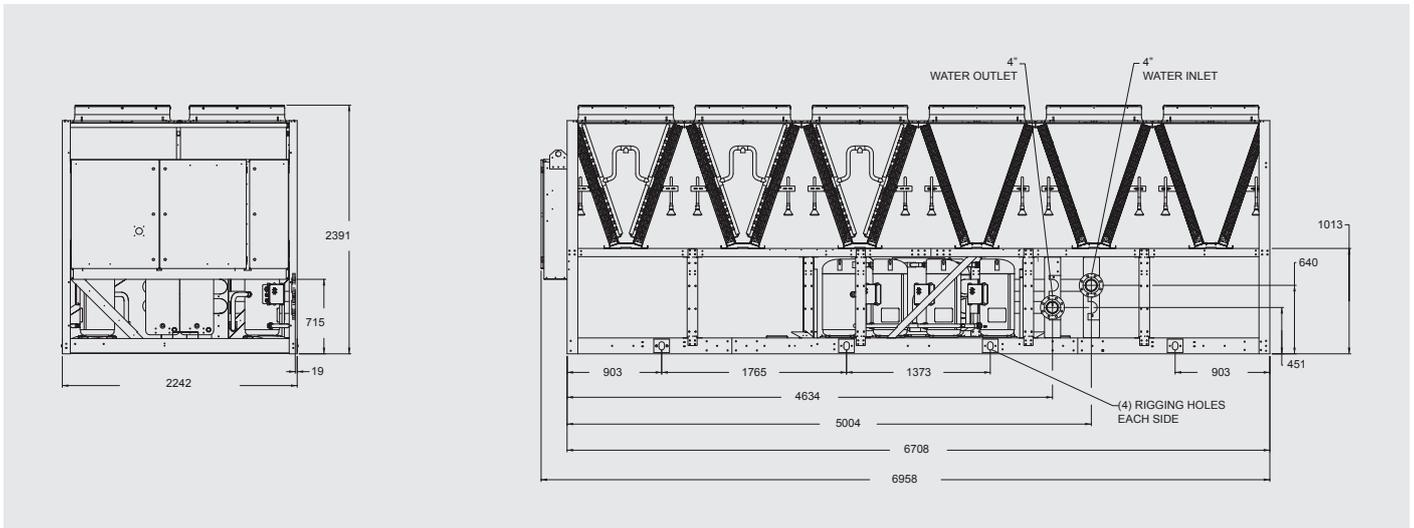


YLPB 0575



All dimensions in mm. Drawings not in scale.

YLPB 0650



All dimensions in mm. Drawings not in scale.