

YLCS

Remote Air-Cooled and Heat Pump screw compressor

Cooling capacities from 323 kW to 1079 kW

Heating capacities from 397 kW to 1307 kW



Features

Designed to operate with leaving chilled liquid temperature from -4.5°C to $+15^{\circ}\text{C}$ and warm water to 60°C in heat pump.

Efficient compressors

YLCS is a dual circuit chiller with industrial type semi-hermetic screw compressors. Star delta compressor starters are incorporated to reduce the inrush current.

Outstanding chiller control

An advanced microprocessor controller with a 40 character plain language display, controls and monitors temperatures, pressures, operating hours, number of starts and start stop/holiday times.

Fast and easy installation

Evaporator water connections can be provided in a vertical or horizontal plain. Electrical power supplies enter from the top for easy drop down wiring.

Options / Accessories

- Compressor suction shut-off valves
- Companion flange kits
- Multi-point power supply
- Remote leaving liquid temperature offset
- Pressure gauges
- Closed transition star delta starters
- Power factor correction capacitors
- Heat pump control up to 60°C
- 90/10 cupro/nickel condenser

Remote Air-Cooled (AA) and Heat Pump (HA) screw compressor

YLCS 0350 to 1120



Remote Air Cooled Chiller (Condenser less)

YLCS-AA	0350	0415	0480	0530	0575	0620
Cooling capacity (kW)	323	383	454	483	520	553
Power input (kW)	92.6	107	126.5	134	144.3	153.7
Full Load Efficiency (EER) (kW/kW)	3.49	3.58	3.59	3.6	3.61	3.6
Evap. Pressure Drop (kPa)	39.8	47.5	26.7	30	40	44.8
Sound Power (dBA)	93	93	93	95	95	95
YLCS-AA	0670	0750	0860	0980	1120	
Cooling capacity (kW)	617	713	833	944	1079	
Power input (kW)	153.9	175.5	196.6	219.5	250.5	
Full Load Efficiency (EER) (kW/kW)	4.01	4.06	4.24	4.3	4.31	
Evap. Pressure Drop (kPa)	31.1	46.1	93.4	116	76.5	
Sound Power (dBA)	95	95	101	101	101	

At 7°C leaving chilled water and condensing at 45°C with 5°C sub cooling.
 The above data is based on Johnson Control's selection software YORKworks 18.06. Please refer to the latest version of the software for specific projects.

Heat Pump Application

YLCS-HA	0350	0415	0480	0530	0575	0620
Net Heating capacity (kW)	397	469	556	590	641	681
Net Heating Power input (kW)	104.7	121.2	142.9	151	163.5	174.4
Net Heating COP (kW/kW)	3.79	3.87	3.89	3.91	3.92	3.91
Evap. Pressure Drop (kPa)	34.1	41.2	23.3	26.1	35.4	39.6
Cond. Pressure Drop (kPa)	39	32	44.2	34.6	40.4	33.1
Sound Power (dBA)	93	93	93	95	95	95
YLCS-HA	0670	0750	0860	0980	1120	
Net Heating capacity (kW)	756	873	1013	1145	1307	
Net Heating Power input (kW)	174.4	199.6	225.2	254.7	289.9	
Net Heating COP (kW/kW)	4.34	4.37	4.5	4.5	4.51	
Evap. Pressure Drop (kPa)	28.9	42.8	87.3	108.5	71.5	
Cond. Pressure Drop (kPa)	40.3	31.1	41.1	69.2	89.1	
Sound Power (dBA)	95	95	101	101	101	

At 12-7°C leaving chilled water and condensing at 40-45°C.
 The above data is based on Johnson Control's selection software YORKworks 18.06. Please refer to the latest version of the software for specific projects.

Technical data

YLCS			0350	0415	0480	0530	0575	0620	
Dimensions	Length	mm	3225	3244	3274		3544	3600	
	Width	mm	900						
	Height	mm	2100						
Operating weight kg			3420	4030	4170	4270	4370	4540	
YLCS			0670	0750	0860	0980	1120		
Dimensions	Length	mm	3565	3645	3830	3830	3830		
	Width	mm	1290						
	Height	mm	2148						
Operating weight kg			4510	5010	5620	6090	6610		



Manufacturer reserves the rights to change specifications without prior notice.