

ECOFRIO v2 / ECOFRIO v2 Plus Air cooled chiller / heat pump

YLCA 0012 to 0027 / YLHA 0012 to 0027 Plus

A complete range from 12 kW up to 25.8 kW



The **YORK YLCA/YLHA** air-cooled chillers and heat pumps represents the right solution for any kind of installation.

With thousand. of units installed all around Europe and Africa, used for different applications and in different climate conditions are one of the most flexible and reliable scroll type chillers in the market.

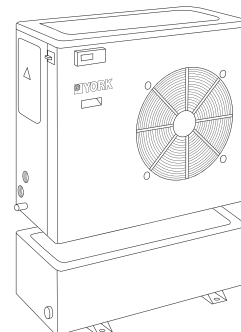
The standard product configuration and the different options and accessories selectable by the customer make these units ideal where a compact, and high performance unit is required.

Features

- Scroll compressor units
- Very compact units
- High efficiency units
- Leaving and return water temperature control
- Hydro pack standard
- Buffer tank supresion function
- Dynamic set point function
- Fan speed control as standard
- Coated condenser fins as standard (blue fin)
- Flow switch and water filter included

Options / Accessories

- Condenser copper fins
- BMS Communication (Carel and Modbus protocol)
- Remote control / Remote terminal
- High pressure fans
- External buffer tank
- Tray cable heater (YLHA Plus)
- Condenser protection grill



External Buffer tank in accessories

ECOFRIO v2 / ECOFRIO v2 Plus

YLCA 0012 to 0027 / YLHA 0012 to 0027 Plus



Technical features

T Three phases supply C Hydro Pack

| Model | YLCA G1 | | | | YLHA PLUS G1 | | | | | |
|----------------------------------|--|----------------------------|-----------------------------|--------------|---------------|-----------------------------|-------------------|---------|---------------|-------|
| | 0012 TC | 0015 TC | 0020 TC | 0027 TC | 0012 TC | 0015 TC | 0020 TC | 0027 TC | | |
| Performance | Cooling capacity (1) | kW | 12.6 | 14.8 | 19.9 | 26.2 | 12.2 | 14.1 | 19.8 | 26.4 |
| | Total Input Power (1) | kW | 4.32 | 5.9 | 6.96 | 9.26 | 4.31 | 5.62 | 7.07 | 9.07 |
| | EER (1) | | 2.92 | 2.51 | 2.86 | 2.83 | 2.83 | 2.51 | 2.8 | 2.91 |
| | ESEER | | 3.07 | 2.87 | 3.66 | 3.07 | 3.05 | 2.77 | 3.27 | 3.24 |
| | Heating capacity (1) | kW | - | - | - | - | 12.2 | 15.8 | 19.8 | 25.7 |
| | Total Input Power (1) | kW | - | - | - | - | 4.31 | 5.32 | 6.64 | 8.77 |
| | COP (1) | | - | - | - | - | 2.83 | 2.97 | 2.98 | 2.93 |
| | Heating capacity (2) | kW | - | - | - | - | 12.6 | 16.4 | 20.5 | 26.8 |
| | COP (2) | | - | - | - | - | 3.86 | 4.0 | 3.79 | 3.8 |
| | Capacity steps | % | 0 / 100 | | | | | | | |
| Sound power level | dB(A) | 73 | 73 | 74 | 78 | 73 | 73 | 74 | 78 | |
| Sound pressure level at 10 m | dB(A) | 43 | 43 | 44 | 48 | 43 | 43 | 44 | 48 | |
| Compressor | Type | Scroll | | | | | | | | |
| | Quantity | 1 | | | | | | | | |
| Air side heat exchanger | Fans quantity | 2 | | | | | | | | |
| | Working ambient temp. cool / heat mode | (5) (-18°C ~ -10°C ~ 46°C) | | -18°C ~ 46°C | | -18°C ~ 46°C / -15°C ~ 20°C | | | | |
| Water side heat exchanger | Type | Plate Heat Exchanger | | | | | | | | |
| | Unit water volume | Litres | 1.5 | 2 | 2.8 | 3.2 | 1.5 | 2 | 2.8 | 3.2 |
| | Pump Type | Multi stage | | | | | | | | |
| | Nominal water flow in cooling | l/h | 2 065 | 2 530 | 3 360 | 4 405 | 1 980 | 2 375 | 3 335 | 4 440 |
| | Available pressure (1) (3) | kPa | 115 | 152 | 134 | 191 | 118 | 160 | 130 | 191 |
| | Working water leaving temp. cooling/heating mode (4) | °C | -5°C to 15°C / 30°C to 50°C | | | | | | | |
| | Water connections | inch | 1" | | 1 1/4" | | 1" | | 1 1/4" | |
| Dimensions & Weight | Height / Width / Depth | mm | 1 270 / 905 / 460 | | 1270/1430/502 | | 1 270 / 905 / 460 | | 1270/1430/502 | |
| | Weight | kg | 146 | 160 | 220 | 290 | 150 | 164 | 235 | 330 |
| Electrical features | Voltage / Phases / Frequency | V/ph/hz | 400-3-50+N+E | | | | | | | |
| | Maximum Unit current | A | 11.6 | 15.8 | 18.1 | 23 | 11.6 | 12.4 | 15.5 | 21 |

(1) net values at Nominal conditions (2) net values at floor heating conditions (3) with filter (4) below 6°C with glycol (5) -18°C with LAK option
 Nominal conditions: Cooling capacities for 7°C water leaving temperature Δt 5°C and 35°C ambient temperature
 Heating capacities for 45°C water leaving temperature Δt 5°C and 7°C ambient temperature
 Floor heating conditions: Heating capacities for 35°C water leaving temperature Δt 5°C and 7°C ambient temperature

Compatibility table / Codes

| YLCA Model | 0012 TC | 0015 TC | 0020 TC | 0027 TC |
|------------------------------------|------------|------------|------------|------------|
| Cooling only units (Pack included) | S668551282 | S668551582 | S668552082 | S668552782 |
| YLHA Plus Model | 0012 TC | 0015 TC | 0020 TC | 0027 TC |
| Heat pump units (Pack included) | S668651285 | S668651585 | S668652085 | S668652785 |

Use this unit code when a factory fitted option is NOT required

Accessories (Supplied loose)

| | | | | | |
|-------------------------|----------------------|------------|------------|------------|------------|
| Water tank | 30 Liters | S613990300 | - | S613990300 | - |
| | 115 Liters | - | S613991150 | - | S613991150 |
| Water tank + heater | 30 L + 4.5 kW (3-) | - | - | S613990305 | - |
| | 30 L + 6 kW (3-) | - | - | S613990306 | - |
| | 115 L + 10.5 kW (3-) | - | - | - | S613991151 |
| Remote control | | | | S613802011 | |
| Remote terminal | | | | S613802231 | |
| BMS Communication | | | | S613802041 | |
| Anti vibration mounting | S613029001 | | S613029002 | S613029001 | S613029002 |
| Compressor heater | S613760322 | | STANDARD | S613760322 | STANDARD |
| Tray cable heater | | | - | S611080788 | - |

| YLCA Model | 0012 TC | 0015 TC | 0020 TC | 0027 TC |
|------------------------------------|-------------|-------------|-------------|-------------|
| Cooling only units (Pack included) | S668000010 | S668000012 | S668000014 | S668000016 |
| YLHA Plus Model | 0012 TC | 0015 TC | 0020 TC | 0027 TC |
| Heat pump units (Pack included) | S6686000239 | S6686000242 | S6686000243 | S6686000244 |

Use this unit code when a factory fitted option is required

Options (Factory fitted)

| | | | | |
|----------------------------|------------|------------|------------|------------|
| High pressure fans | S611991083 | S611991085 | S611991083 | S611991085 |
| Condenser protection grill | S613995085 | S613995086 | S613995087 | S613995085 |
| LAK -18°C | S613112083 | | | STANDARD |



Manufacturer reserves the rights to change specifications without prior notice.