



Technical overview

Model	Single Compressor Units				Tandem Compressor Units			
	HLR13-ZBD30KE	HLR13-ZBD45KE	HLR13-ZBD58KE	HLR13-ZBD76KE	HLR31-ZBDT60KE	HLR31-ZBDT90KE	HLR31-ZBDT116KE	HLR31-ZBDT152KE
Nominal Horsepower (hp)	4	6	7.5	10	8	12	15	20
Capacity (kW) *	7.0	10.2	13.5	17.8	14.1	20.3	26.9	35.6
Voltage (V)	TFD (380-420/3~ 50Hz)				TFD (380-420/3~ 50Hz)			
Receiver with Sight Glass, Volume (l)	13	13	13	13	31	31	31	31
Suction Line Ø (inch) with Rotalock	7/8	7/8	1 1/8	1 3/8	1 3/8	1 3/8	1 5/8	1 5/8
Discharge Line Ø (inch) with Rotalock	5/8	5/8	3/4	3/4	7/8	7/8	1 1/8	1 3/8
Liquid Receiver Inlet Ø (inch)	5/8	5/8	5/8	5/8	5/8	5/8	7/8	7/8
Liquid Receiver Outlet Ø (inch) with Rotalock	5/8	5/8	5/8	5/8	5/8	5/8	7/8	7/8
Height x Depth x Width (mm)	710 x 400 x 690		710 x 400 x 725		910 x 480 x 970		870 x 480 x 970	
Weight (kg)	72	75	84	90	130	138	165	175
Crank Case Heater	✓	✓	✓	✓	✓	✓	✓	✓
Electrical Box with: Overload Protection, Contractor and Fuse	✓	✓	✓	✓	✓	✓	✓	✓
Liquid Line equipped with: Filter Drier and Sight Glass	✓	✓	✓	✓	✓	✓	✓	✓
EC2-552 Controller with: TCP/IP Network Interface, Continuous Suction Pressure Control and Continuous Condensing Pressure Control	✓	✓	✓	✓	✓	✓	✓	✓
HP/LP Switch	PS2 (HP/LP)	PS2 (HP/LP)	PS2 (HP/LP)	PS2 (HP/LP)	PS1 + 2 x PS3	PS1 + 2 x PS3	PS1 + 2 x PS3	PS1 + 2 x PS3
Oil Separator	-	-	-	-	✓	✓	✓	✓

\* @ EN 12900 MT Condition: R404A, -10/32°C, SGT = 20°C



Digital Receiver Unit HLR  
Perfect Fit for High Efficiency and Limited Space Demands



For more details, see [www.emersonclimate.eu](http://www.emersonclimate.eu)

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# The Best Choice for Remote Condenser Refrigeration Systems

Copeland Scroll Digital™ Receiver Units HLR are an innovative offering by Emerson Climate Technologies for food service and retail businesses. Their compact design and the power of Digital Scroll™ continuous capacity modulation allow for optimized environmental integration at highest system efficiency.

## Flexibility for Optimum Building Integration

- HLR Digital Receiver Units combine the concepts of remote condenser and digital modulation for maximized installation flexibility:
- Remote condensers can be selected to meet environmental constraints related to space, noise and energy efficiency
  - Copeland Scroll Digital™ technology offers continuous capacity modulation for precise temperature control in small multi-evaporator systems



Digital Receiver Unit HLR

## Choice of Condenser Selection for Environmental Conditions

- The Digital Receiver Unit can be combined with various third party condenser solutions:
- Condenser outdoor installation reducing indoor noise levels and maximizing indoor vending space
  - Selection of low speed and low noise condenser fans to comply with outdoor noise regulations
  - Generous condenser sizing for high system efficiency
  - Use of water cooled condensers for heat recovery systems

## Energy Saving

The latest Copeland Scroll Digital™ compressor technology offers significantly higher efficiency than traditional piston compressors in the target application. Digital Scroll™ continuous capacity modulation optimizes system operation under varying load conditions. The resulting precise suction pressure control raises overall system efficiency.

## Simple System Design and Installation

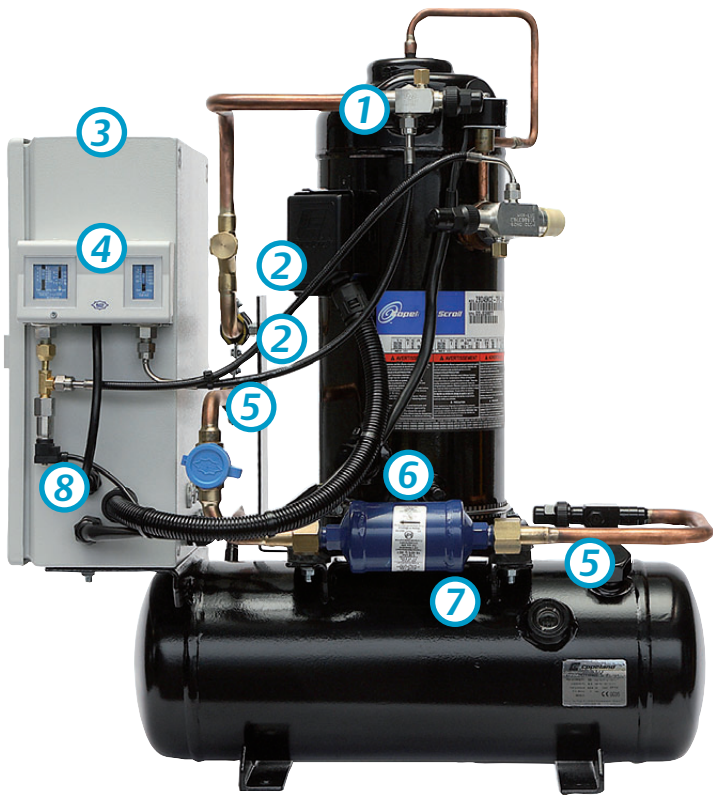
- HLR Digital Receiver Units are fully equipped for quick installation and maintenance, saving time and costs. The delivery scope includes:
- Electronic control and protection devices
  - Complete liquid line with filter dryer and sight glass
  - Free standing concept and clear unit design
  - Convenient access to all components

The wide Digital Scroll™ continuous capacity modulation range avoids the need for multiple condensing units, keeping overall system design simple.

## High Reliability

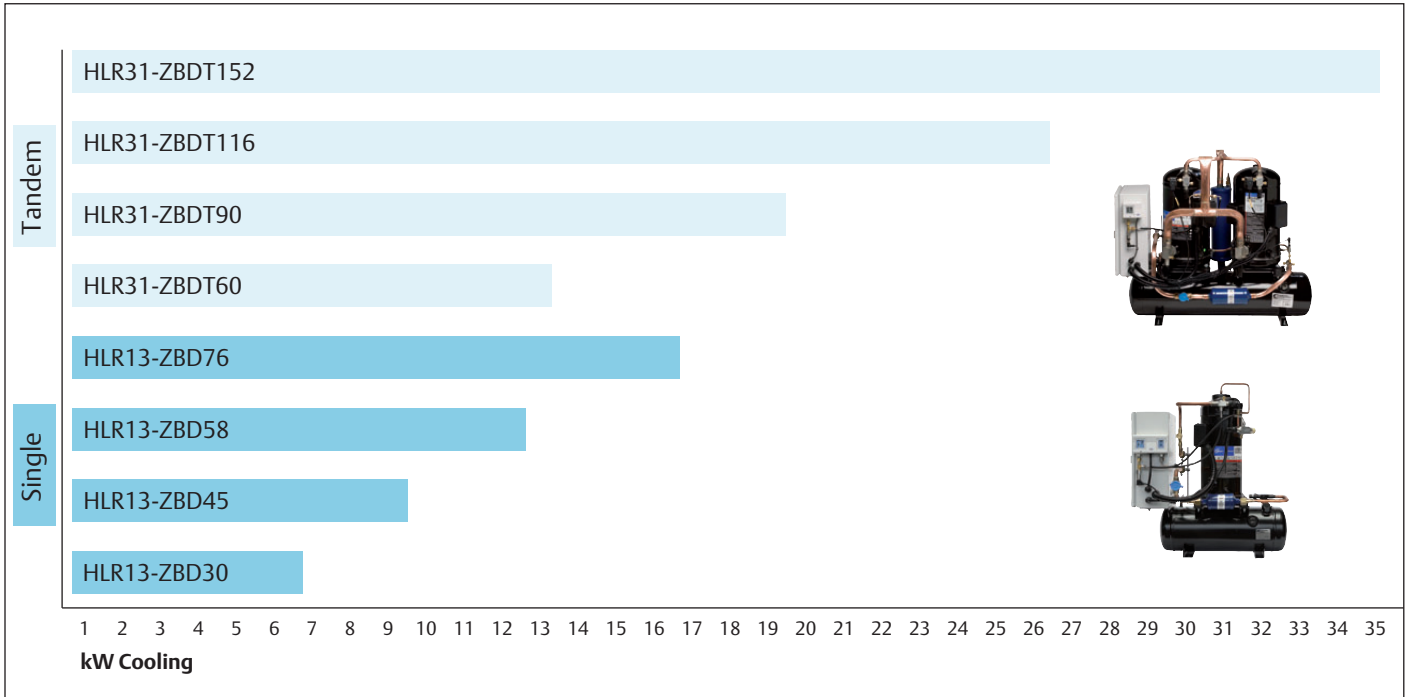
The HLR indoor installation concept reliably protects the heart of the cooling system. Carefully chosen and approved quality components and the built-in electronic overload protection guarantee long-term reliability.

## Features



- 1 High efficiency Copeland Scroll Digital™ compressor with continuous capacity modulation
- 2 Easy accessible connections for discharge line and liquid line
- 3 Control unit with overload protector and EC2-552 Controller with TCP/IP Network Interface
- 4 Adjustable dual pressure switch
- 5 Sight glasses
- 6 Filter drier
- 7 High capacity horizontal receiver
- 8 Robust control box

## Capacity Range



© EN 12900 MT, -10/32°C, SGT 20°C, R404A