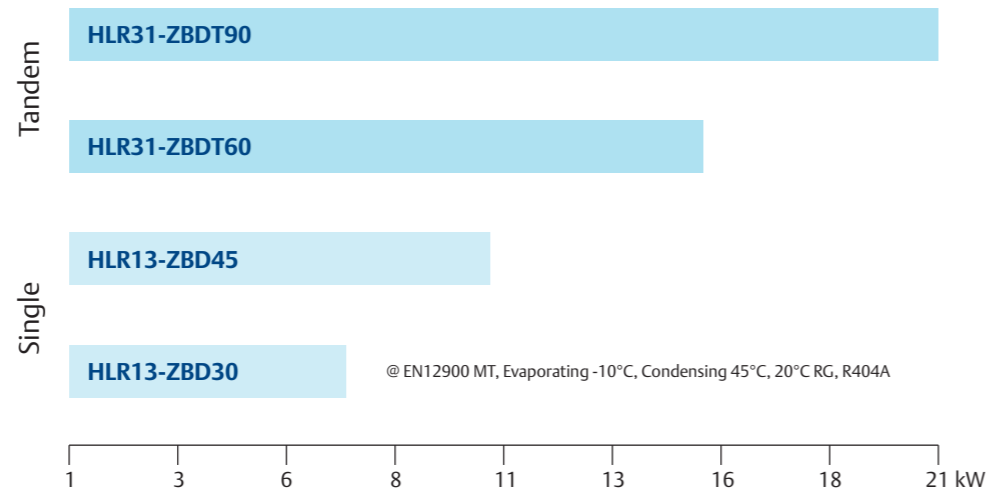


## HLR Capacity Range



## HLR Digital Receiver Units for Remote Condenser Systems

Model	Single Compressor Units		Tandem Compressor Units	
	HLR 13-ZBD30KCE	HLR13-ZBD45KCE	HLR31-ZBDT60KCE	HLR31-ZBDT90KCE
Nominal Horsepower (hp)	4	6	8	12
Capacity (kW)*	7,0	10,2	14,1	20,3
Capacity Modulation	10 - 100%		5 - 100%	
Voltage (V)	TFD (380-420/3~ 50Hz)			
Receiver with Sight Glass	13 l	13 l	31 l	31 l
Suction Line Ø (inch) with Rotalock	7/8	7/8	1 3/8	1 3/8
Discharge Line Ø (inch) with Rotalock	7/8	7/8	7/8	7/8
Liquid Receiver Inlet Ø (inch)	5/8	5/8	5/8	5/8
Liquid Receiver Outlet Ø (inch) with Rotalock	5/8	5/8	5/8	5/8
Height x Depth x Width (mm)	710 x 400 x 690		910 x 400 x 920	
Weight (kg)	90	90	130	130
Crankcase Heater	✓	✓	✓	✓
Electrical Box (IP54) with:				
Overload Protection	✓	✓	✓	✓
Contactor	✓	✓	✓	✓
Fuse	✓	✓	✓	✓
EC2-552 Controller with:				
TCP/IP Network Interface with Ethernet port	✓	✓	✓	✓
Webserver for Configuration, Visualisation and Monitoring	✓	✓	✓	✓
Continuous Suction Pressure Control	✓	✓	✓	✓
Continuous Condensing Pressure Control	✓	✓	✓	✓
Liquid Line equipped with:				
Filter Drier	✓	✓	✓	✓
Sight Glass with Moisture Indicator	✓	✓	✓	✓
HP/LP Switch	PS2 (HP/LP)	PS2 (HP/LP)	PS1 + 2 x PS3	PS1 + 2 x PS3
Oil Separator	-	-	✓	✓

\* @ EN 12900 Medium Temperature Conditions: R404A, Evaporating: -10°C, Condensing: 45°C, Suction Return Gas: 20 °C

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

Emerson Climate Technologies - European Headquarters - Pascalstrasse 65 - 52076 Aachen, Germany  
Phone: +49 (0) 2408 929 0 - Fax: +49 (0) 2408 929 570 - Internet: [www.emersonclimate.eu](http://www.emersonclimate.eu)

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*Digital Receiver Unit HLR  
with Continuous  
Capacity Modulation  
for Remote Condenser  
Refrigeration Systems*





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



A fully equipped unit – easy to install, commission and service.

The integrated webserver of the EC2 controller gives additional reassurance as it permits data monitoring at runtime."

## Digital Receiver Unit HLR: Flexibility at the Highest Levels of Efficiency



### The Benefits of HLR Digital Receiver Units

#### 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

#### 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 level 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 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

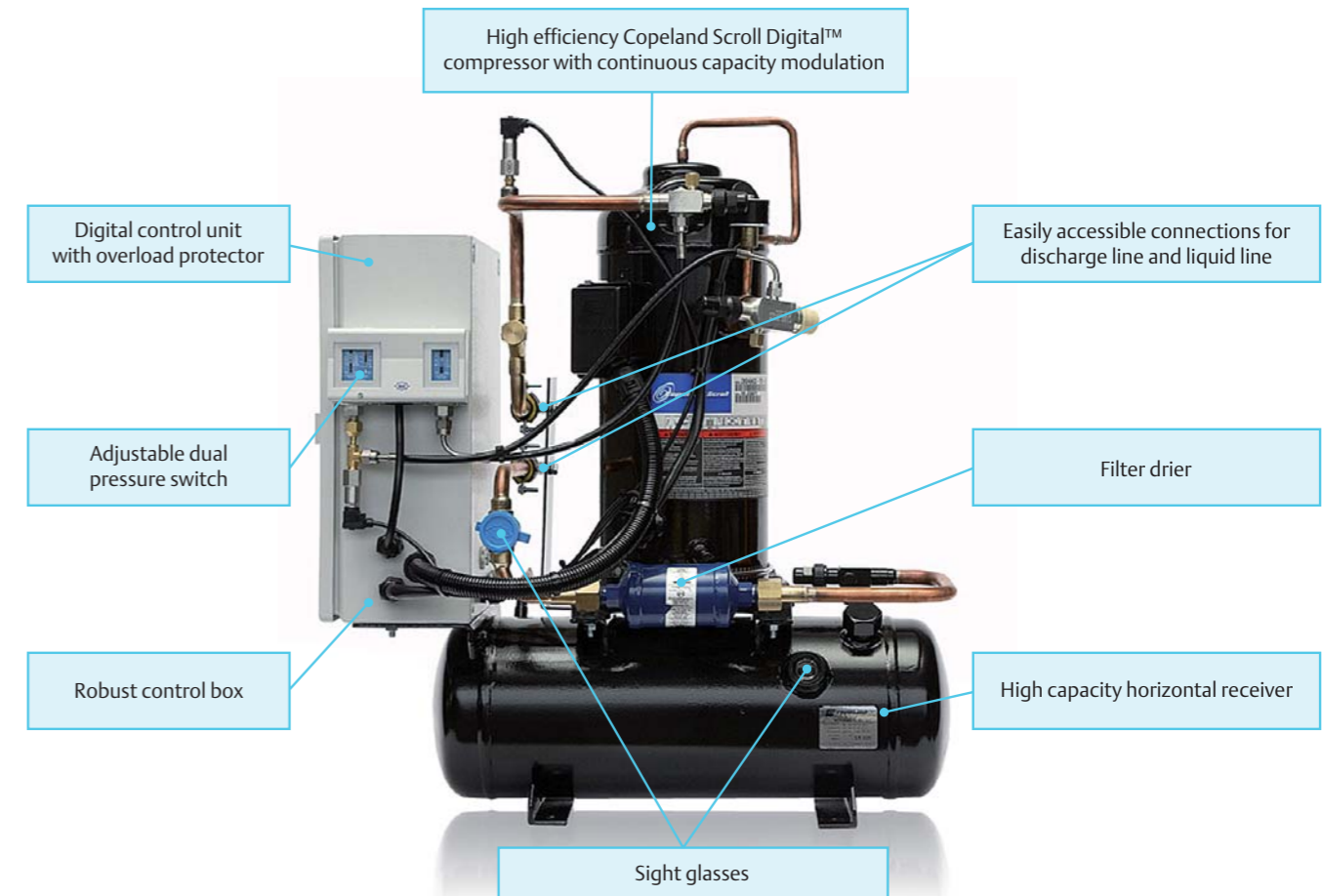
HLR Digital Receiver Units are fully equipped for quick installation and maintenance, saving time and costs. The delivery scope includes:

- Electronic control and protection devices
- Complete liquid line with filter drier 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.



#### Dimensions

