

Copeland digital receiver unit HLR

Perfect fit for high efficiency and limited space demands



The best choice for remote condenser refrigeration systems

HLR scroll digital receiver units are an innovative offering by Copeland 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.
- Suitable for multiple refrigerants: R407A/F, R448A/R449A, R404A, R134a, R450A and R513A



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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 digital scroll 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:

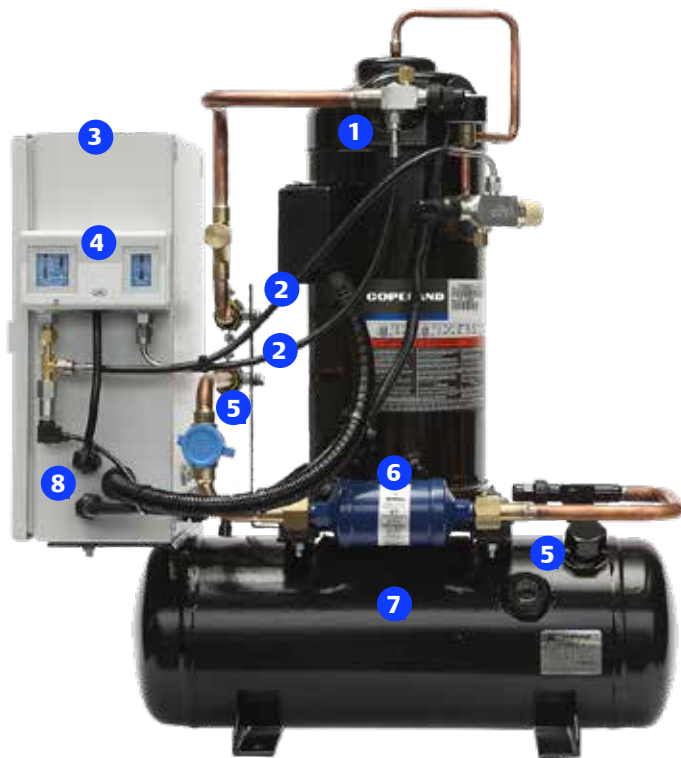
- Electronic control and protection devices
- Complete liquid line with filter drier and sight glass
- Free standing concept and clear unit design
- Convenient access to all components

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

High reliability

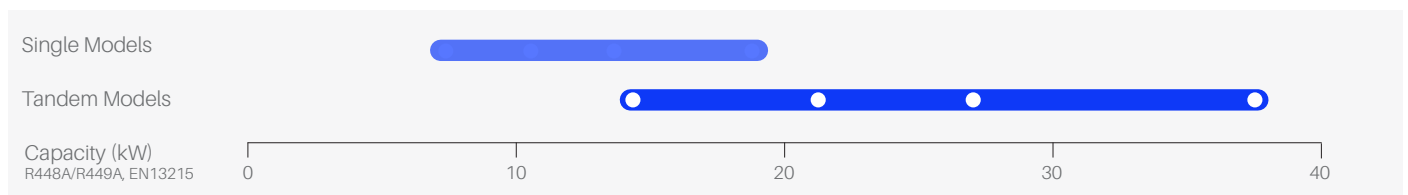
The HLR indoor installation concept reliably protects the heart of the cooling system. Carefully chosen and approved quality components and the built-in electronic overload protection guarantee long-term reliability.

Features



- 1** High efficiency Copeland digital scroll compressor with continuous capacity modulation
- 2** Easy accessible connections for discharge line and liquid line
- 3** Controller with overload protection and communication interface
- 4** Adjustable dual pressure switch
- 5** Sight glasses
- 6** Filter drier
- 7** High capacity horizontal receiver
- 8** Robust control box

Digital Receiver Unit HLR Line-up



Single Models



Tandem Models



Technical overview

Models	Displacement (m³/h)	Receiver Capacity (l)	Stub Suction (inch)	Liquid Line Diameter (inch)	Width/Depth/ Height (mm)	Net Weight (kg)	Motor Version/ Code	Maximum Operating Current (A)	Locked Rotor Current (A)	Sound Pressure @ 1 m (dBA) ***	
							3 Ph**	3 Ph**	3 Ph**	without sound shell	with sound shell
Single Compressor Unit Models											
HLR-13-ZBD30KCE	11.7	13	7/8	5/8	719/412/712	68	TFD	8	52	59	49
HLR-13-ZBD45KCE	17.1	13	7/8	5/8	719/412/712	70	TFD	12	74	61	51
HLR-13-ZBD58KCE	22.1	13	1 1/8	7/8	723/439/685	95	TFD	16	95	65	55
HLR-13-ZBD76KCE	28.8	13	1 1/8	7/8	723/439/742	93	TFD	20	118	66	56
Tandem Compressor Unit Models											
HLR-31-ZBDT60KCE	23.4	31	1 3/8	7/8	956/577/917	122	TFD	8 + 10	52 + 49	59	49
HLR-31-ZBDT90KCE	34.1	31	1 3/8	7/8	956/577/917	125	TFD	12 + 13	2 x 74	64	54
HLR-31-ZBDT114KCE	44.2	31	1 5/8	7/8	954/559/940	142	TFD	2 x 16	2 x 95	67	-
HLR-31-ZBDT152K5E	57.6	31	1 5/8	7/8	954/592/945	168	TFD	24 + 20	2 x 118	66	-

** 3 Ph: 380-420V/ 50Hz

*** @ 1m: sound pressure level at 1m distance from the compressor, free field condition

For more details, see copeland.com/en-gb

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