

Technical Submittal

Streamline[®]

ACR Copper Press

[32000]

SANHA[®]
a perfect fit



Product Group Description

High-quality system press fittings from copper for copper pipes according EN12735-1, AS/NZS 1571, ASTM B280, ASTM B88. ACR Copper Press fittings are made of 99,9% copper, CU-DHP (material number CW024A). They are mounted with two black HNBR (=hydrogenated nitrile-butadiene rubber) sealing rings (with T.R.A.P Technology) for HVAC and VRF applications.

Marking

Marking on the fitting: Manufacturer & dimension, approval marking (UL), blue "ACR" color marking

Marking on the packaging: Logo manufacturer (SANHA[®] Streamline), Approval markings (UL,.) , quantity, dimension, system name (SANHA[®]-Streamline), Product type (elbow), operating pressure (48 bar)

Sealing Elements

HNBR Black (hydrogenated nitrile-butadiene rubber)

Notice: Depending on the operation period and media temperature, the press fitting system's sealing materials may undergo thermal aging. The sealing material undergoes thermal aging more quickly at higher media temperatures. When dealing with unique operating circumstances, such as industrial heat recovery systems, it is important to compare the press fitting system's specifications with those of the appliance manufacturer. Please get in touch with SANHA[®] if you have any questions about the proper material selection or would like to use the press fitting system outside of the specified application regions. Mechanical ACR Copper press system fittings contain two seals per press end to provide additional security. The sealing elements have a D-profile resulting in a larger contact surface coverage after pressing.

Dimensions

All dimensions from 1/4" to 1 3/8".

Tools

ACR Copper Press fittings can be pressed with standard pressing machines and the appropriate pressing jaws/slings for the system. The requirements for the machine are 32 kN and a bolt stroke of 40 mm must be ensured. You can find more information about the pressing machines on our SANHA[®] homepage. For reason of guarantee, the installer always has to respect the instructions of the manufacturer regarding the use of press tools and press machines; Especially the instructions for the use and combination of tools and machines of different manufacturers. Finally, a common use of the press tools and press machines of different manufacturers is strictly forbidden without the authorization of the respective manufacturers.

Areas of applications

- | Air Conditioning
- | Heat Pump
- | VRF and VRV
- | Light Commercial
- | Refrigeration
- | Non-Potable Water
- | Glycol
- | Technical Gases
 - Nitrogen
 - Oxygen
 - Argon
 - Carbon Dioxide
 - Hydrogen
 - Compressed Air
 - Inert Gases

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Approved Refrigerants

R-125, R-134a, R-32, R-404A, R-407A, R-407C, R-407F, R-407H, R-410A, R-417A, R-421A, R-422B, R-422D, R-427A, R-438A, R-444A, R-447A, R-447B, R-448A, R-449A, R-450A, R-452A, R-452B, R-452C, R-454A, R-454B, R-454C, R-457A, R-459A, R-507A, R-513A, R-513B, R-718, R-1234ze, R-1234yf, R-290, R-600A

Approved Oils

Mineral Oil, POE, PVE, PAO, PAG, and AB

Any use of the system for media or application areas not listed above requires approval from SANHA[®]! The product information, available online or in print, contains comprehensive details regarding uses, limitations, and national regulations and guidelines.

Standard of approvals

IMC - International Mechanical Code certified,
ICC-ES, PMG-1625 2021, 2018, 2015, 2012, 2009, 2006
IRC - International Residential Code certified,
ICC-ES, PMG-1625, 2021, 2018, 2015, 2012, 2009 and 2006
UMC - Uniform Mechanical Code certified,
ICC-ES, PMG-1625 2021, 2018, 2015, 2012, 2009, and 2006
ASHRAE 15 - Safety Standard for Refrigeration Systems
ASME B31.5 - Refrigeration Piping and Heat Transfer Components
CSA C22.2 - No. 140.3-15 Standard for Refrigerant-Containing Components for Use in Electrical Equipment
UL 207 - Refrigerant-Containing Components and Accessories
Further certifications and approvals can be found at the website

Operating conditions

The press fitting system ACR Copper Press can be used with the following operating conditions:

- | Refrigerant, mineral oils and technical gases
- | Continuous Operating Pressure: 700 PSI / 48 BAR Max
- | Continuous Operating Temperature: -40°C to 120°C
- | Sealing Ring Temperature Rating: -40°C to 149°C

Leak Tightness

Helium $\leq 7.5 \times 10^{-7}$ Pa · m³/s at 20°C and 10 BAR

Vaccum Capability

200 mbar

Permitted pipes

For the installation system ACR Copper Press, Product is designed to join EN12735-1, AS/NZS 1571, ASTM B280 and ASTM B88 hard-drawn copper tube (Types ACR, K, L) from 1/4" to 1-3/8" as well as EN12735-1, AS/NZS 1571, ASTM B280 and ASTM B1003 soft (annealed) copper tube up to 7/8". More information about the wall thickness per size can be found in the assembly instructions.

National standards and guidelines relevant to the application must be observed. If other dimensions are needed, please do not hesitate to contact us at technik@sanha.com

Certificates

These certificates can be found at www.sanha.com:

Country	Certifier
USA	UL
Worldwide	ABS