

Air Conditioning and Refrigeration

System Data Sheet

>B< MaxiPro, the 3-point press copper fitting system for air conditioning and refrigeration applications with maximum operating pressure up to 700 psi.

Product information

>B< MaxiPro fittings are suitable for use with hard, half hard or annealed copper tube conforming to ASTM B743, ASTM-B280, ASTM-B88 type K or L from 1/4" to 1 3/8". For a list of compatible tube, please visit: <https://conexbanninger.com/en-us/>

>B< MaxiPro fittings are available in the following sizes; 1/4", 3/8", 1/2", 5/8", 3/4", 7/8", 1", 1 1/8", 1 3/8". The comprehensive range includes elbows, couplers, repair couplers, reducing couplers, reducers, flares and stop ends.

Fittings are manufactured from refrigerant grade copper (UNS C12200 min 99.9% pure).

Applications

- Refrigeration
- Air conditioning
- Heat pump (refrigeration side)

Approvals, standards and test compliance

- >B< MaxiPro fittings are UL 207 recognized and listed, refrigerant fitting report reference SA44668, approved use for field and factory installations.
- UL 109 - 7 Pull test, compliant.
- UL 109 - 8 Vibration test, compliant.
- UL 1963 - 79 Tests of gaskets and seals used in refrigerant systems, compliant.
- ISO 5149-2:2014, Refrigerating systems and heat pumps - Safety and environmental requirements -Part 2: Design, construction, testing, marking and documentation compliant.
- ISO 5149-2, 5.3.2.2.3 Strength pressure test, compliant.
- ISO 14903 - 7.4 Tightness test, compliant.
- ISO 14903 - 7.6 Pressure temperature vibration tests (PTV), compliant.
- ISO 14903 - 7.8 Freezing test, compliant.
- ASTM G85 salt spray (fog) compliant.

- ASHRAE 15 - 2016 Safety Standard for Refrigeration Systems, compliant.
- ASME B31.5 - 2016 Refrigeration Piping and Heat Transfer Components, compliant.
- 2021, 2018, 2015, 2012, 2009 and 2006 International Mechanical Code (IMC), certified, ICC-ES, PMG-1440.
- 2021, 2018, 2015, 2012, 2009 and 2006 International Residential Code (IRC), certified, ICC-ES, PMG-1440.
- 2021, 2018, 2015, 2012, 2009 and 2006 Uniform Mechanical Code (UMC), certified, ICC-ES, PMG-1440.
- 2019, 2016, 2013, and 2010 California Mechanical Code (CMC), Certified, ICC-ES, PMG-1440.

Technical data

Parameters	Capability
Connections	Copper to copper
O-ring	HNBR
Approved oils	POE, PAO, PVE, AB, MO
Maximum operating and abnormal pressure	700 psi / 48 bar / 4800 kPa
Leak tightness	Helium $\leq 7.5 \times 10^{-7}$ Pa.m ³ /s at +20 °C, 10 bar
Vacuum	200 microns
O-ring temperature range	-40°F to 284°F / -40°C to 140°C
UL listing continuous operating temperature	-40°F to 250°F / -40°C to 121°C
Compatible A1 refrigerants:	R-125, R-134a, 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-448A, R-449A, R-450A, R-452A, R-507, R-513A, R-513B, R-718

For a full list of refrigerants please visit <https://conexbanninger.com/en-us/>

Technology

>B< MaxiPro benefits from a 3-point press - three press points; one on each side of the bead and one press compressing the O-ring. This provides a permanent and secure joint.

Press tool and jaws

Only ROTHENBERGER jaws are approved for use with >B< MaxiPro fittings. For a full list of compatible press tools please visit <https://conexbanninger.com/en-us/>

Quality and certification

Conex Bänninger operates an accredited Quality Management System to ISO 9001.

Trademarks and patents

>B< MaxiPro is a registered trademark in numerous territories worldwide. For information on >B< MaxiPro patents visit <https://conexbanninger.com/en-us/>

Fifteen year limited warranty

Conex Universal Ltd. warrants that its >B<MaxiPro fittings will be free of material defects resulting from errors in manufacture, for fifteen (15) years from the date of first purchase by an end user. This warranty will be void if not professionally installed by a trained and certified >B< MaxiPro installer, and used and maintained in accordance with the installation and maintenance instructions detailed in the >B< MaxiPro technical brochure.

For full terms and conditions please visit <https://conexbanninger.com/en-us/>

Contact us:

Phone: **904-217-4970**

Email: salesUSA@ibpgroup.com

IBP Group LLC.

24 Cathedral Place, Suite 400,
St Augustine, FL 32084

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