

# ZoomLock MAX

## Press-to-Connect Refrigerant Fittings

### TECHNICAL DATA

#### Product Parameters

- **Applications:**
  - Refrigeration
  - Air Conditioning
  - Heat Pump (Refrigeration side)
  - VRF and VRV
- **Continuous Operating Temperature:**  
-40°F to 250°F / -40°C to 121°C
- **O-ring Temperature Range:**  
-40°F to 284°F / -40°C to 140°C
- **Maximum Rated Operating and Abnormal Pressure:**  
700 psi / 48 bar / 4800 kPa
- **Burst Pressure:**  
>3X Maximum operating and abnormal pressure  
>2,100 psig / >14400 kPa / >144 bar
- **Vacuum Pressure Capability:**  
200 Microns
- **Leak Tightness:**  
Helium  $\leq 7.5 \times 10^{-7}$  Pa.m<sup>3</sup>/s at +20°C, 10 bar
- **Size Availability (Inches):**  
1/4, 3/8, 1/2, 5/8, 3/4, 7/8, 1-1/8, 1-3/8

#### Agency Approvals and Certifications

- UL Refrigerant Fitting File SA7511
  - UL Listed: Approved use for field and factory installations with A1 refrigerants
  - UL Recognized: Approved use for factory installations with A2, A2L, and A3 refrigerants
- 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

#### Fitting Materials

- **Fitting Body:**  
Refrigerant Grade Copper  
(UNS C12200 min 99.9% pure)
- **O-Ring:**  
HNBR

#### Fitting Warranty

- 15-year warranty. Refer to page 26 for more details.

#### Compatibility

- **Approved Lubricants:** POE, PAO, PVE, AB and MO
- **Approved Connections:**  
Copper to Copper
- **Approved Tube:**  
Copper tube conforming to\*  
ASTM B280, ASTM B88,  
or ASTM B743
- **Approved Copper Tubing:**  
Hard Copper (Drawn)  
- Type ACR, L, K  
  
Soft Copper (Annealed)  
- Type ACR, L, K

#### Approved Refrigerants

32**	422D	454A**
125	427A	454B**
134a	438A	454C**
290**	444A**	457A**
404A	447A**	459A**
407A	447B**	507A
407C	448A	513A
407F	449A	513B
407H	450A	600A**
410A	452A	718
417A	452B**	1234yf**
421A	452C	1234ze**
422B	HYCOOL 20	

\* Please refer to ZoomLock MAX Tube Compatibility Table, page 18.

\*\* When using refrigerants classified A2L (lower flammability), A2 (flammable) and A3 (higher flammability) additional/ specific standards, local rules and regulations, codes of practice and by-laws may be applicable.

ZoomLock MAX fittings are NOT suitable for R-717, R-723, R-764, R-744 refrigerants. Refer to ZoomLockMAX.com for the latest approved refrigerants list.

## ZoomLock MAX



#### Quality Assurance

ZoomLock MAX is manufactured in an ISO 9001 certified facility committed to providing quality products and support.