

The FLARLESS UNION – A New era in Refrigerant Piping

No Special Tools required

Effortless Installation

E-chan イーちゃん

All-metal
design

No brazing
required

No risk of
Fire or Burns

Perfect for
FLAME-RESTRICTED
SITES, including
renovation projects



E-chan Features **1**

Fireless Fitting

No brazing required, allowing for much faster installation



Applicable ISO14903 Certified JCDA0012

E-chan has passed 11 performance tests—including leak, tensile, and bending tests—under ISO 14903 and JCDA0012 standards. Certified under JCDA0012, it is suitable for Ministry of Land, Infrastructure, Transport and Tourism-approved renovation projects.



E-chan イーちゃん

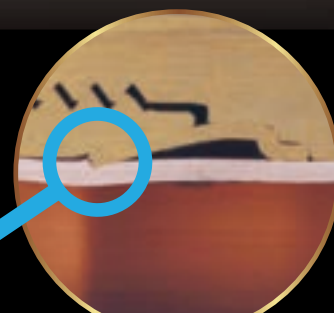
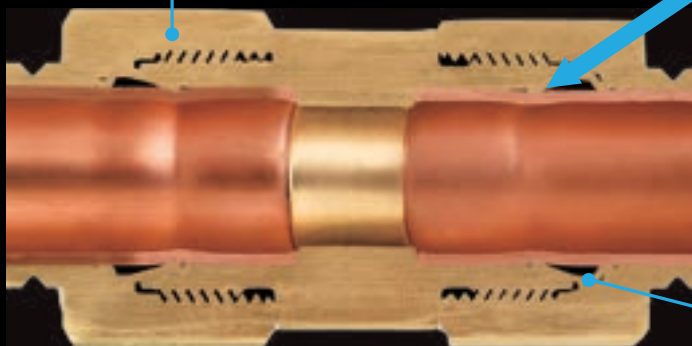
E-chan Features 2

All-Metal Structure

O-ring free design ensures excellent durability

【Internal Structure】

Nut



Bites firmly

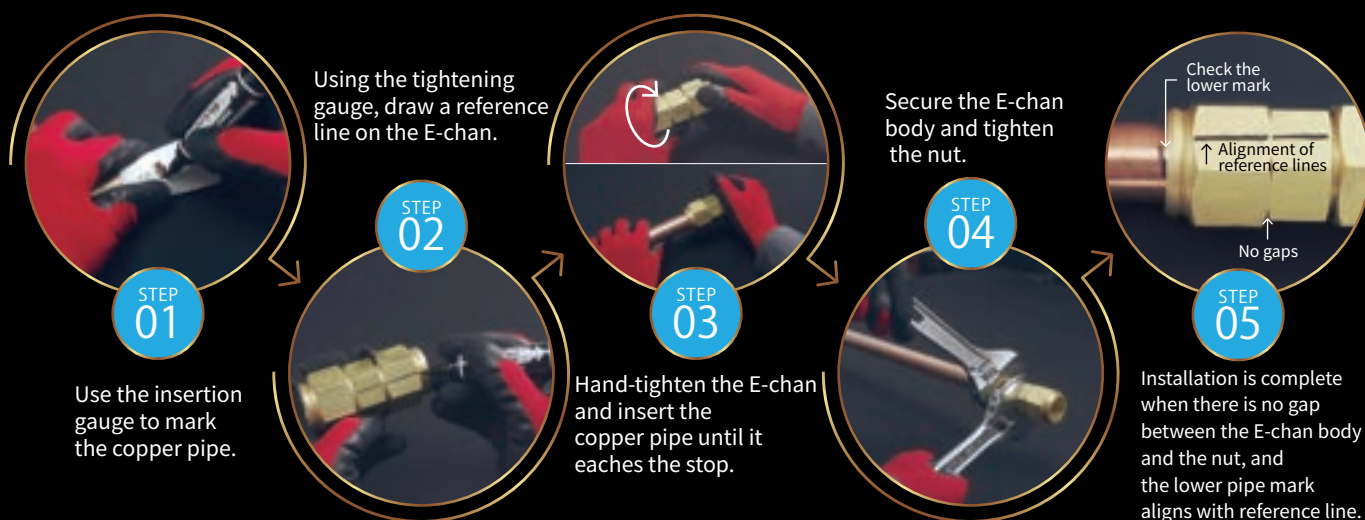
Ferrule

E-chan Features 3

Easy installation as Flareless

Easy installation with no special techniques required.

❗ Installation training must be completed prior to installation.



Classified as a threaded fitting in accordance with JRA GL-20•JRA GL-16

It meets the guidelines established by the Japan Refrigeration and Air Conditioning Industry Association for "safety facilities" and "measures to prevent the spread of fire" for refrigerant equipment that uses specific inert gases such as R-32 or mildly flammable (A2L) refrigerants.

A more convenient and easier-to-use flareless

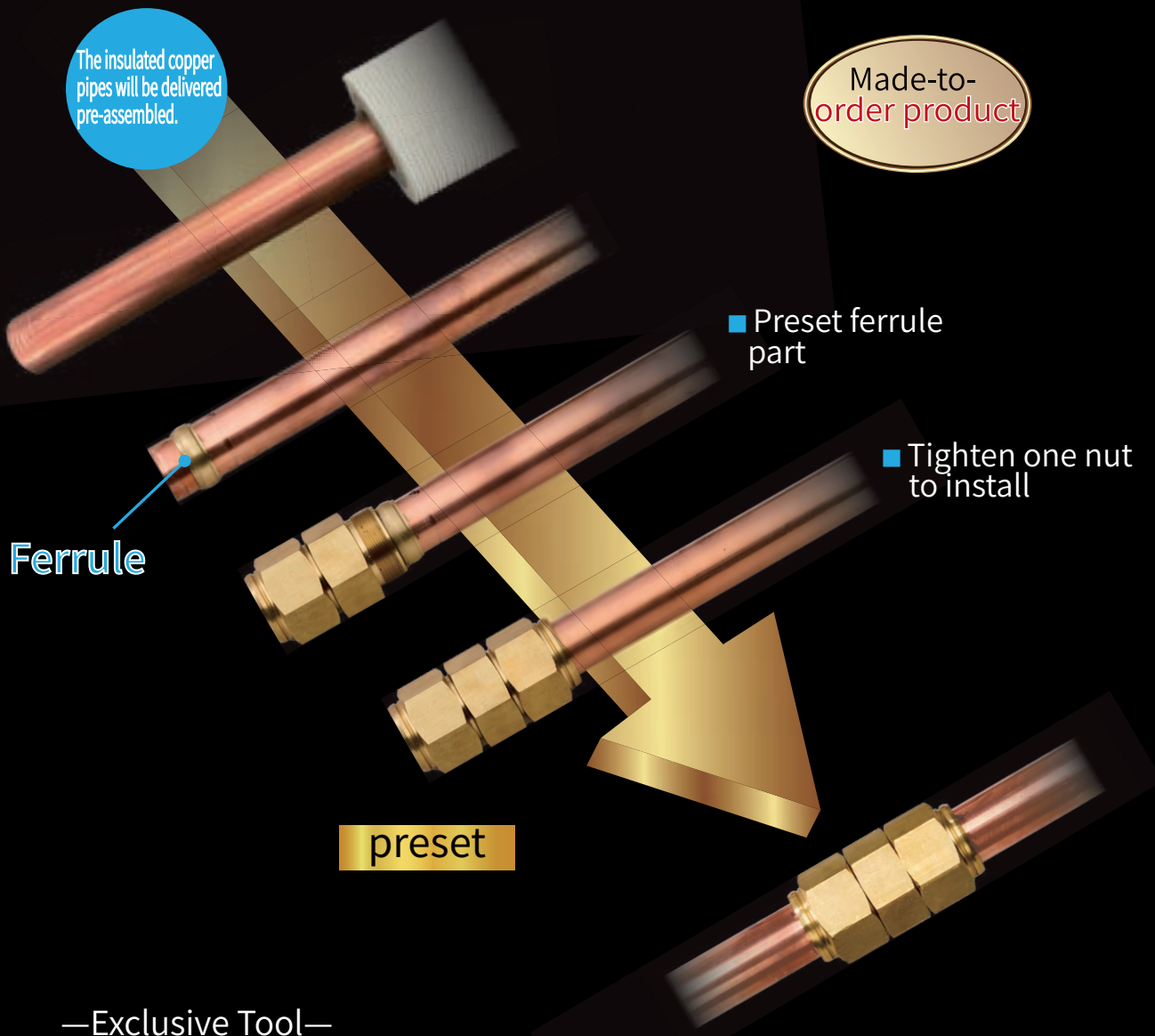
First in the industry!

Pre-assembled products

The ferrule section and nut of the E-chan union are pre-set on a 4 m straight pipe. This reduces on-site installation time and improves work efficiency. In addition, Proper tightening using the dedicated tool also contributes to the prevention of gas leakage.

The insulated copper pipes will be delivered pre-assembled.

Made-to-order product



—Exclusive Tool—



Set the appropriate jig for the copper pipe and E-chan union to be pre-set in the tightening device, then install the copper pipe and E-chan union. Operate the hydraulic pump lever up and down until the jig comes into contact with the nut end face. When the jig reaches the nut end face, the pre-setting process is complete. This device is a dedicated tightening tool designed to securely and easily tighten the copper pipe and E-chan union. By using a hydraulic pump, a constant tightening force is supplied in a stable manner, assisting with final tightening work at the job site. By using dedicated jigs matched to the size of the copper pipe and E-chan, tightening of all sizes can be accommodated.