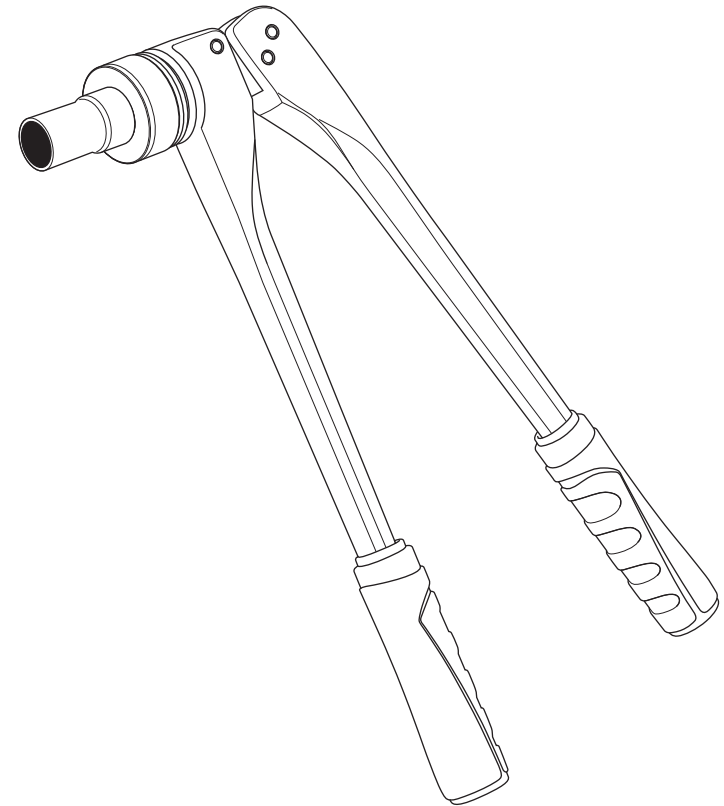


AC tools

# Expander Set

USER'S MANUAL



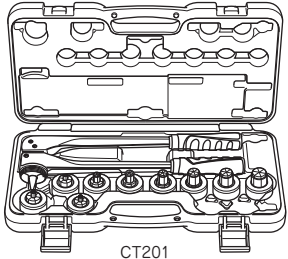
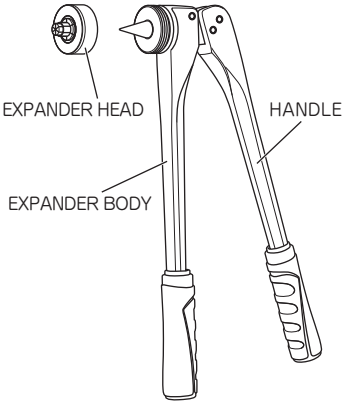
**[Read through this manual carefully before using the tool.]**

# EXPANDER SET

## SAFETY PRECAUTIONS

- Read this instruction manual carefully and completely before use and thoroughly understand the usage, capacity, cautions and maintenance for correct operation.
- Handle Expander Set properly to make full use of its functions for safe work.
- After reading the instructions, save this manual and read it when necessary.
- Use Expander Set for the intended application only.  
It will do a better job and be safer at the rate which it was designed for. In case any discrepancy is found, immediately report the fact to the shop you purchased or our sale office.  
(The contents of this manual are subject to change without prior notice.)

## SPECIFICATION

Item	Expander Set	Expander Set A7	Main Parts
Appearance	 <p style="text-align: center;">CT201</p>		 <p>EXPANDER HEAD EXPANDER BODY HANDLE</p>
Code No.	CT201	CT221	
Capacity	Soft copper tube 1/4" ~ 1 1/8"		
Weight	875g		

※ A size engraved on an expander head shows an outer diameter of a tube for refrigerant. A diameter of a tube for architecture is 1/8" bigger than a tube for refrigerant. In order to operate a tube for architecture, use an expander head 1/8" bigger.  
Ex) Use expander head 5/8" for 1/2" tube or expander head 1 1/8" for 1" tube.

## STANDARD ACCESSORIES

Item	Code No.	Expander Set	Expander Set A7
EXPANDER BODY	CT210	○	○
EXPANDER HEAD A 1/4"	CT212	○	—
EXPANDER HEAD A 5/16"	CT211	○	—
EXPANDER HEAD A 3/8"	CT213	○	○
EXPANDER HEAD A 1/2"	CT214	○	○
EXPANDER HEAD A 5/8"	CT215	○	○
EXPANDER HEAD A 3/4"	CT216	○	○
EXPANDER HEAD A 7/8"	CT217	○	○
EXPANDER HEAD A 1"	CT218	○	○
EXPANDER HEAD A 1 1/8"	CT219	○	○
CARRYING CASE	CT220	○	○

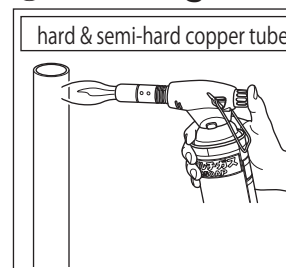
# EXPANDER SET

## OPERATION

### ⚠ CAUTION

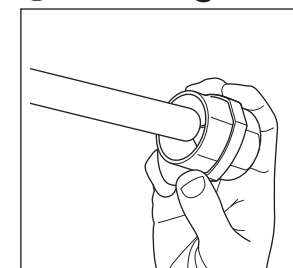
- Expander Set is for soft copper tube.
- In case of operating hard or semi-hard copper tube, annealing is necessary to avoid damaging the unit.
- In case of operating small sized tubes (1/4", 5/16", 3/8" ), operate little by little to avoid cracking the tubes.

### ① annealing



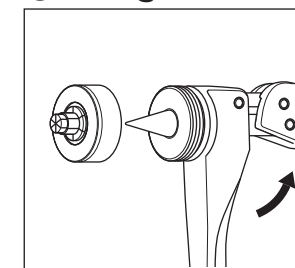
Anneal the part to be expanded if the tube is hard copper.

### ② deburring



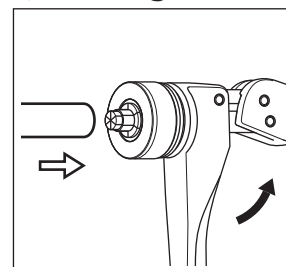
Deburr inside of the tube by a reamer

### ③ setting head



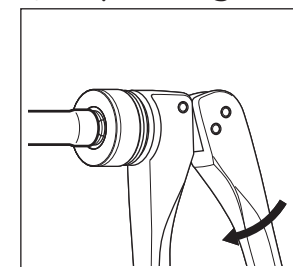
Open the handle and set the expander head fits to the tube.

### ④ setting tube



Open the handle and set the tube to the expander head.

### ⑤ expanding

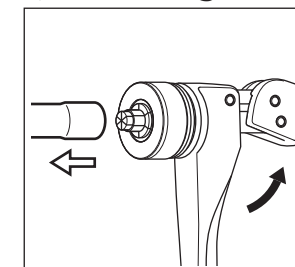


Close the handle slowly and expand the tube

Open the handle, roll the tube a bit, and expand again to make a perfect circle.

\*Please adjust the final dimension by tightening or loosening the expander head.

### ⑥ removing tube



Open the handle and remove the tube from the expander head