



CATALOG



ECQ TOOLS



Exquisite pursuit, never stop.



What you choose from us is not only the best quality but also the best humanized use experience.

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Produce *High Quality* Products

Provide *Sincere* Service

Digital Clamp meter

Digital multi-meter is widely applied. With overload protection in 30 ranges, it is safer. The LCD makes reading clearer. Precise measurement, easy work!



Accurate measurement

Wide range of measurement

- Suitable for measuring AC/DC voltage, AC current, resistance, diode, temperature and so on

LCD Backlit Display

- Clear display, easy to read

Compact design

- Easy to carry, and more convenient

E-201 technical specifications

function	range	resolution	accuracy
ACA	2A	1mA	± (3.0%+5)
	20A	10mA	± (2.5%+5)
	200A/600A	0.1A	± (2.5%+5)
ACV	2V/20V/200V/ 600V	1mV	± (1.2%+2)
DCV	200mV/2V/20V/200V/600V	0.1mV	± (0.8%+2)
Ω	200/2k/20k/ 200k/2M/20M	0.1 Ω	± (1.2%+5)
▶	To the display is the pressure drop		Open circuit voltage of about 1.5 V
○)))	During a resistor < 30 Ω buzzer - ring		Open circuit voltage of about 1.5 V

Digital Clamp meter

Digital multi-meter is widely applied. With overload protection in 30 ranges, it is safer. The LCD makes reading clearer. Precise measurement, easy work!



Accurate measurement

Wide range of measurement

- Suitable for measuring AC/DC voltage, AC current, resistance, diode, °C/°F temperature and so on

LCD Backlit Display

- Clear display, easy to read

Compact design

- Easy to carry, and more convenient

E-202+ technical specification

Function	range	resolution	accuracy
ACA	40A/400A	0.01A	± (2.5%+5)
ACV	4V/40V/400V/ 600V	1mV	± (1.2%+2)
DCV	400mV/4V/40V/400V/600V	0.1mV	± (0.8%+5)
Hz	10Hz—10MHz	0.01Hz	± (0.5%+5)
CX	5nF—200uF	1pF	± (3.0%+5)
°C	-20°C—750°C	1°C	± (3.0%+5)
Ω	400/4k/40k/ 400k/4M/40M	0.1 Ω	± (1.2%+5)
▶	To the display is the pressure drop		Open circuit voltage of about 1.5 V
○)))	During a resistor < 30 Ω buzzer - ring		Open circuit voltage of about 1.5 V

Digital Multimeter

Digital multi-meter is widely applied. With overload protection in 30 ranges, it is safer. The LCD makes reading more clearer. Precise measurement, easy work!



Accurate measurement

Wide rang of measurement

- Multiple functions, It is suitable for measuring on a variety of applications

LCD Backlit Display

- Clear display, easy to read

Compact design

- Easy to carry, and more convenient

Item No.	E-51
working temperature	0°C - 40 °C (32°F-104°F)
storage temperature	-10 °C - 50 °C (14°F-122°F)

Infrared Thermometer

Features:

- Measuring range: (320)
-50°C~380°C
-58°F~716°F
- Measuring range: (550)
-50°C~550°C
-58°F~1022°F
- Repeatability: $\pm 1.5\%$ or $\pm 1.5^\circ\text{C}$
- Accuracy: $0.1^\circ\text{C}/^\circ\text{F}$
- power supply: 9v 6f22 Battery
- Distance Spot Ratio: 12:1
- Emissivity: 0.95 (adjustable)
- °C/° F selection
- Display data hold
- Auto power off
- Laser target pointer
- Backlight(LCD) display



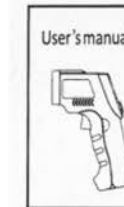
Operation Procedure:



1. Insert one 9v batteries.



2. Aim at the target surface and pull on the trigger, then temperature will be shown on the LCD.



3. Other operation shall be in accordance with user manual.



Accurate measurement

Precision infrared sensor

- Accurate measurement, respont faster

Large-aperture silicon mirror

- Measured long distance
- Widely measurement range

LCD Backlit Display

- Clearly display, easy to read

One-key temperature measurement

- Easy to use, more convenient

Item No.	Description	Package
E-550	Emissivty 0.10~1.00	Blister packing
	Temperature Range -50°C~550°C	
	Max measuring Accuracy $\pm 1.5^\circ\text{C}$ or $\pm 1.5\%$ (Ambient operation temperature: $23^\circ\text{C} \pm 2^\circ\text{C}$)	
	Resolution 0.1	
	Response Time 500ms	

Suitable for R407C,R404A,R507A,R134a refrigerant

- Exhausting and oil inlet fitting

- Forced oil cycling system
High reliability



- Large oil screen better visibility

- Integrated body structure
Higher precision
Higher ultimate vacuum

Suitable for old refrigerant

Household air-conditioning	 VP115 1L/S	 VP135 2L/S
Large household air-conditioning Bus air-conditioning	 VP160 3L/S	 VP180 4L/S
Central air-conditioning Large refrigerated warehouse	 VP245 2L/S	 VP280 4L/S

PARAMETER

Model	Parameter						packing
	Voltage	Flow rate	Ultimate vacuum	Power	oil capacity (ml)	weight (Kg)	
VP115	220V/50Hz	3.6m ³ /h	3Pa	180W	350	5.6	3pcs/carton
	110V/60Hz	2CFM	22.5micron	1/4HP			
	110V~220V/50Hz~60Hz	50/56L/min	3Pa22.5micron	1/4HP			
VP125	220V/50Hz	5.4m ³ /h	3Pa	180W	340	6	3pcs/carton
	110V/60Hz	3CFM	22.5micron	1/4HP			
	110V~220V/50Hz~60Hz	70/84L/min	3Pa22.5micron	1/4HP			
VP135	220V/50Hz	7.2m ³ /h	3Pa	250W	340	6.5	3pcs/carton
	110V/60Hz	4CFM	22.5micron	1/3HP			
	110V~220V/50Hz~60Hz	100/114L/min	3Pa22.5micron	1/3HP			
VP145	220V/50Hz	9m ³ /h	3Pa	250W	340	6.7	3pcs/carton
	110V/60Hz	5CFM	22.5micron	1/3HP			
	110V~220V/50Hz~60Hz	128/142L/min	3Pa22.5micron	1/3HP			
VP160	220V/50Hz	10.8m ³ /h	3Pa	370W	530	9.8	2pcs/carton
	110V/60Hz	7CFM	22.5micron	1/2HP			
	110V~220V/50Hz~60Hz	170/198L/min	3Pa22.5micron	1/2HP			
VP180	220V/50Hz	14.4m ³ /h	3Pa	550W	740	14.2	2pcs/carton
	110V/60Hz	9CFM	22.5micron	3/4HP			
	110V~220V/50Hz~60Hz	226/254L/min	3Pa22.5micron	3/4HP			
VP1100	220V/50Hz	18m ³ /h	3Pa	750W	710	14.5	2pcs/carton
	110V/60Hz	12CFM	22.5micron	1HP			
	110V~220V/50Hz~60Hz	283/340L/min	3Pa22.5micron	1HP			
VP215	220V/50Hz	1.8m ³ /h	0.3Pa	180W	310	5.8	3pcs/carton
	110V/60Hz	1.8CFM	2.25micron	1/4HP			
	110V~220V/50Hz~60Hz	42/50L/min	0.3Pa2.25micron	1/4HP			
VP225	220V/50Hz	3.6m ³ /h	0.3Pa	250W	290	7.2	3pcs/carton
	110V/60Hz	2CFM	2.25micron	1/3HP			
	110V~220V/50Hz~60Hz	50/56L/min	0.3Pa2.25micron	1/3HP			
VP235	220V/50Hz	5.4m ³ /h	0.3Pa	250W	280	7.4	3pcs/carton
	110V/60Hz	3CFM	2.25micron	1/3HP			
	110V~220V/50Hz~60Hz	70/84L/min	0.3Pa2.25micron	1/3HP			
VP245	220V/50Hz	9m ³ /h	0.3Pa	370W	460	11.5	2pcs/carton
	110V/60Hz	6CFM	2.25micron	1/2HP			
	110V~220V/50Hz~60Hz	100/114L/min	0.3Pa2.25micron	1/2HP			
VP260	220V/50Hz	10.8m ³ /h	0.3Pa	550W	430	12.8	2pcs/carton
	110V/60Hz	7CFM	2.25micron	3/4HP			
	110V~220V/50Hz~60Hz	170/198L/min	0.3Pa2.25micron	3/4HP			
VP280	220V/50Hz	14.4m ³ /h	0.3Pa	750W	570	15.3	2pcs/carton
	110V/60Hz	9CFM	2.25micron	1HP			
	110V~220V/50Hz~60Hz	226/254L/min	0.3Pa2.25micron	1HP			
VP2100	220V/50Hz	18m ³ /h	0.3Pa	750W	540	16	2pcs/carton
	110V/60Hz	12CFM	2.25micron	1HP			
	110V~220V/50Hz~60Hz	283/340L/min	0.3Pa2.25micron	1HP			

Single Stage / Dual Stage



AC Power Supply Plug

P01	China plug	P02	America plug	P03	Britain plug	P04	Europe plug
P05	Argentina plug	P06	Australia plug	P07	Italy plug	P08	Brazil plug
P09	Japan plug	P10	Thailand Plug	P11	Israel plug	P12	South Africa plug

Oil

Model	200ml	330ml	450ml	650ml
Kinematic viscosity(40°C)	41.4-50.6mm ² /s	41.4-50.6mm ² /s	41.4-50.6mm ² /s	41.4-50.6mm ² /s
Viscosity index	110	110	130	130
Flash point	240°C	240°C	250°C	250°C
Pour point	-10°C	-10°C	-35°C	-35°C
Type	Mineral oil	Mineral oil	Synthetic di-ester oil	Synthetic di-ester oil



Vacuum Gauge



Manifolds Gauge

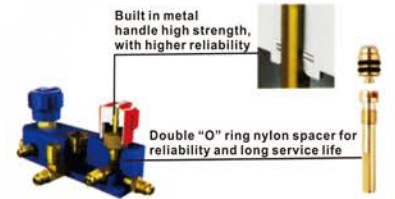
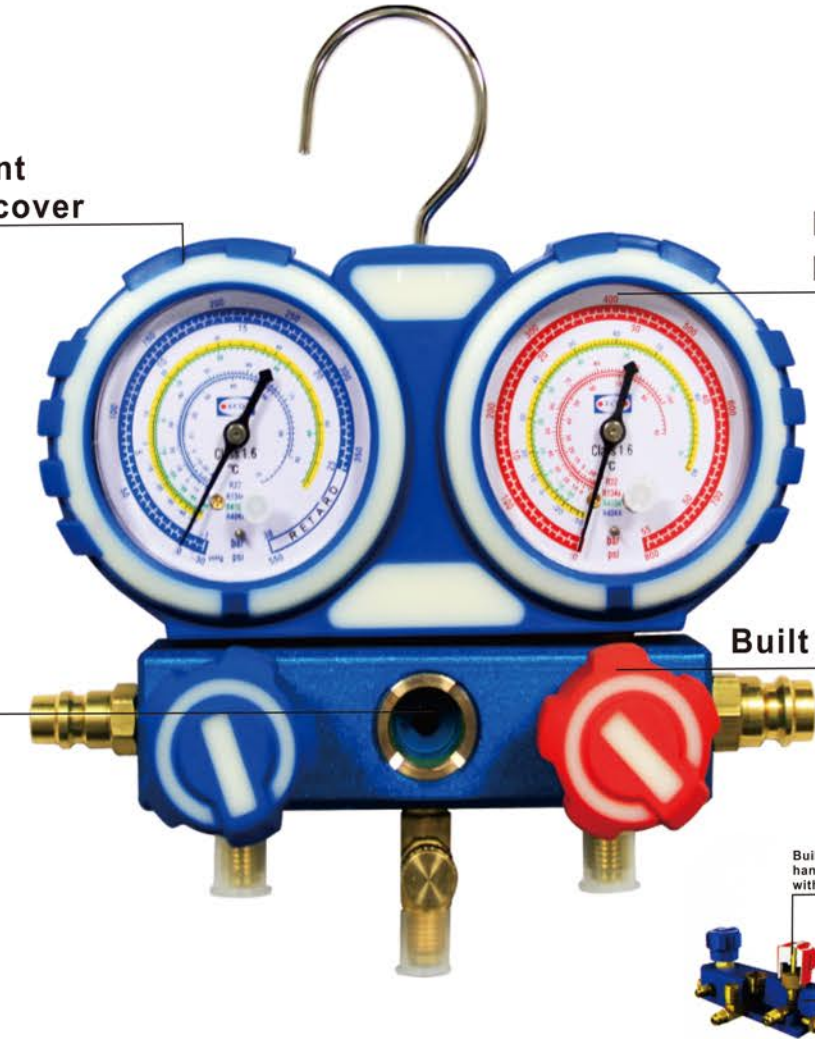
Suitable for R22,R134a,R404A,R410A refrigerant

Impact-Resistant
Durable rubber cover

High precision
pressure gauge

Sight glass

Built in metal handle



Precision/Impact-Resistant

Impact-Resistant

- Impact-Resistant design
- Durable rubber cover

Accurate

- precision pressure gauge

Built in metal handle

- High strength, with higher reliability

Sight Glass

- easily for viewing refrigerant movement and condition during charging and recovery

Model	Outside dimension	Description
CT-136BAS 36"(90cm)	ø68MM,2-1/2"/-30~550PSI,0~800PSI R22,R134,R404,R410	3pcs charging hose.Working pressure 800PSI Burst 4000PSI. Aluminum body with sight glass Designed to meet 1/4" SAE
CT-160BAS 60"(150cm)		
CT-172BAS 72"(180cm)		
Package	Blow case	

Manifolds Gauge

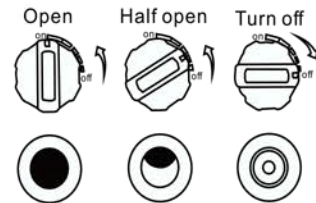
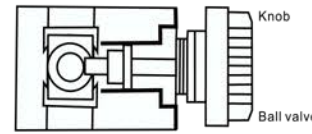
Suitable for R22,R134a,R404A,R410A refrigerant

Impact-Resistant
Durable rubber cover

High precision
pressure gauge

Sight glass

Ball valve



Precision/Impact-Resistant

Impact-Resistant

- Impact-Resistant design high strength rubber sheet sets,prevent impact failure

Precision

- Using high-precision movement, precision 1.0

Ball valve switch

- High efficiency, more easier and convenient
- Good consume experience

Folding hook

- Concealed hook design, easy to carry

Model	E-501
Refrigerants scale	R22/R134a/R404A/R410A
Gauge diameter/Pressure	φ68mm 0inHg~800psi;-30inHg~550psi
Hose	Length:90/120/150cm Red 1/4"-1 4", yellow:1/4"- 1/4"blue:1/4"- 1/4"
Package	Box

Manifolds Gauge

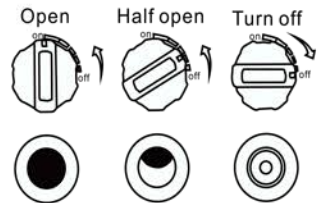
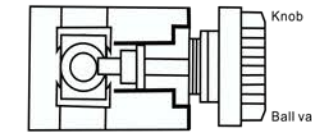
Suitable for R32,R410A refrigerant

Impact-Resistant
Durable rubber cover

High precision
pressure gauge

Sight glass

Ball valve



Precision/Impact-Resistant

Impact-Resistant

- Impact-Resistant design high strength rubber sheet sets,prevent impact failure

Precision

- Using high-precision movement, precision 1.0

Ball valve switch

- High efficiency, more easier and convenient
- Good consume experience

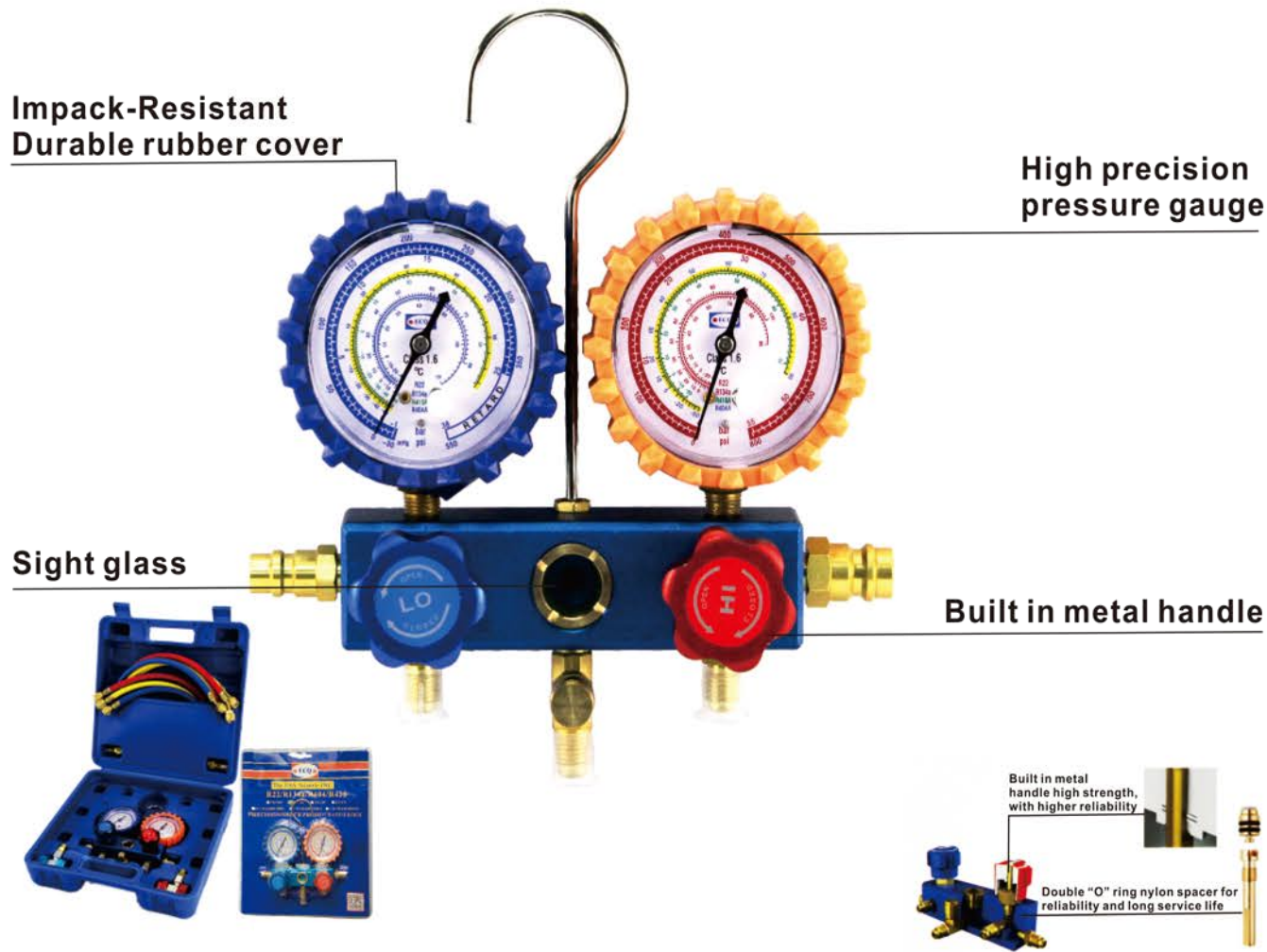
Folding hook

- Concealed hook design, easy to carry

Model	E-502
Refrigerants scale	R32/R410A
Gauge diameter/Pressure	φ68mm 0inHg~800psi;-30inHg~550psi
Hose	Length:90/120/150cm Red 1/4"-5/16",yellow:1/4"-1/4"blue:1/4"-5/16"
Package	Box

Manifolds Gauge

Suitable for R22,R134a,R404A,R410A refrigerant



Precision/Impack-Resistant

Impack-Resistant

- Impack-Resistant design
- Durable rubber cover

Accurate

- precision pressure gauge

Built in metal handle

- High strength, with higher reliability

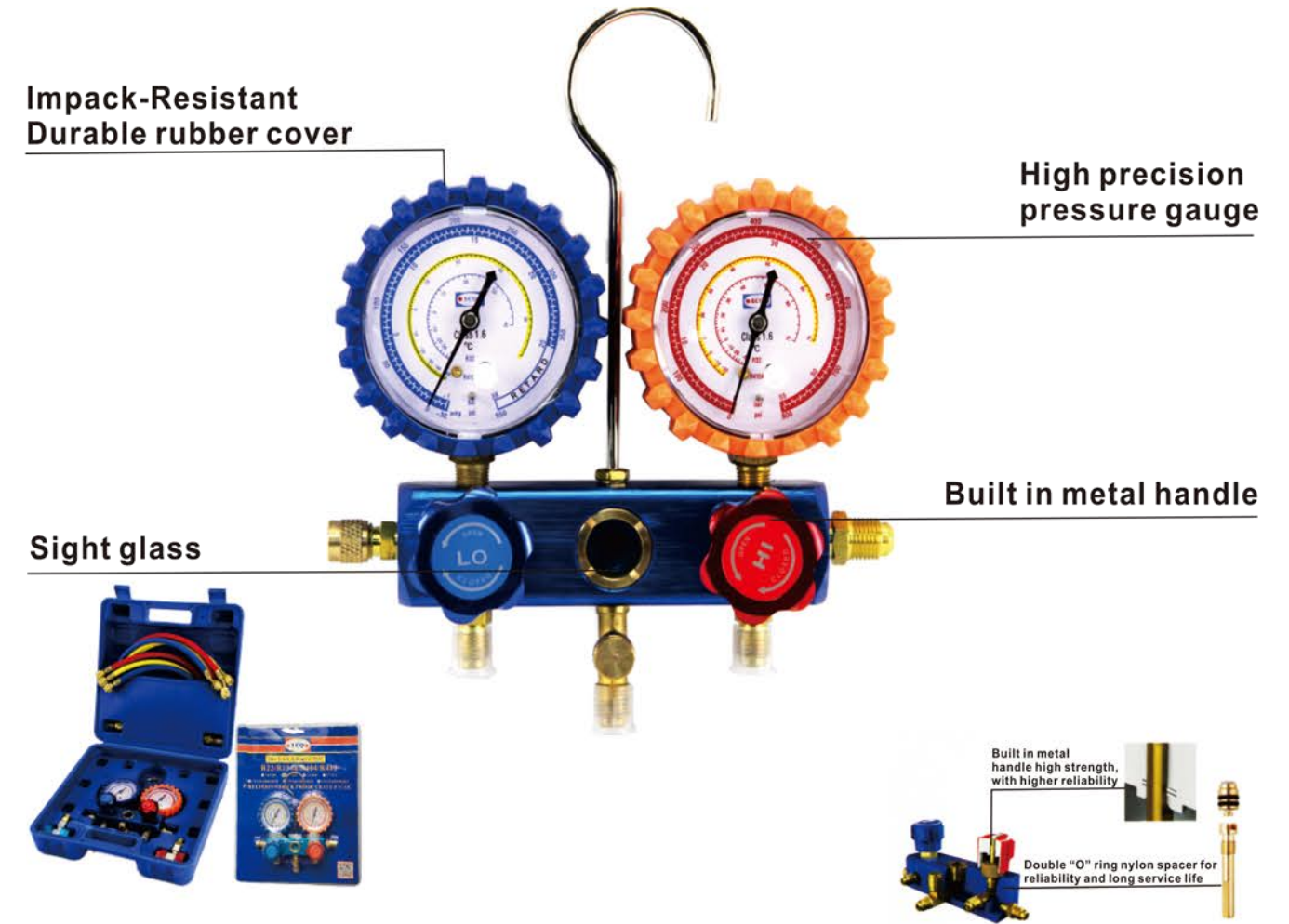
Sight Glass

- easily for viewing refrigerant movement and condition during charging and recovery

Model	Outside dimension	Description
CT-136 36"(90cm)	ϕ68MM,2-1/2", R22,R134,R404,R410	3pcs charging hose.Working pressure 800PSI
CT-160 60"(150cm)		Burst 4000PSI. Aluminum body with sight glass
CT-172 72"(180cm)		Designed to meet 1/4" SAE
CT-136AS 36"(90cm)	ϕ68MM,2-1/2", R22,R134,R404,R410	3pcs charging hose. Working pressure 800PSI
CT-160AS 60"(150cm)		Burst 4000PSI. Aluminum body with sight glass
CT-172AS 72"(180cm)		Designed to meet 1/4" SAE
Package	Blow case/Blister packing	

Manifolds Gauge

Suitable for R32,R410A refrigerant



Precision/Impack-Resistant

Impack-Resistant

- Impack-Resistant design
- Durable rubber cover

Accurate

- precision pressure gauge

Built in metal handle

- High strength, with higher reliability

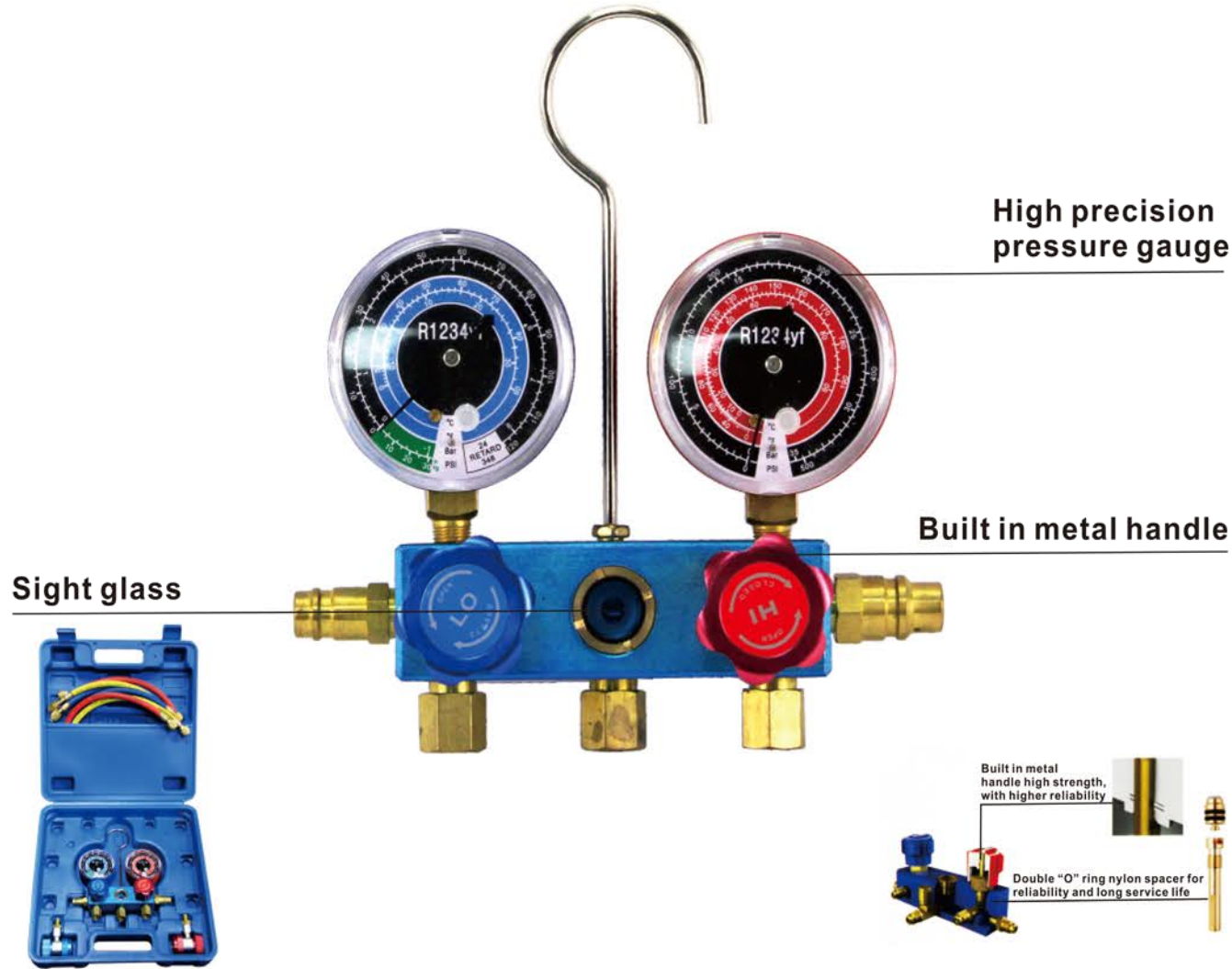
Sight Glass

- easily for viewing refrigerant movement and condition during charging and recovery

Model	Outside dimension	Description
CT-336 36"(90cm)	ϕ68MM,2-1/2" R32,R410	3pcs charging hose.Working pressure 800PSI
CT-360 60"(150cm)		Burst 4000PSI. Aluminum body with sight glass
CT-372 72"(180cm)		Red 1/4"-5/16",yellow:1/4"-1/4"blue:1/4"-5/16"
CT-336AS 36"(90cm)	ϕ68MM,2-1/2" R32,R410	3pcs charging hose.Working pressure 800PSI
CT-360AS 60"(150cm)		Burst 4000PSI. Aluminum body with sight glass
CT-372AS 72"(180cm)		Red 1/4"-5/16",yellow:1/4"-1/4"blue:1/4"-5/16"
Package	Blow case/Blister packing	

Manifolds Gauge

Suitable for R1234yf refrigerant



Precision/Impact-Resistant

Impact-Resistant

- Impact-Resistant design
- Durable rubber cover

Accurate

- precision pressure gauge

Built in metal handle

- High strength, with higher reliability

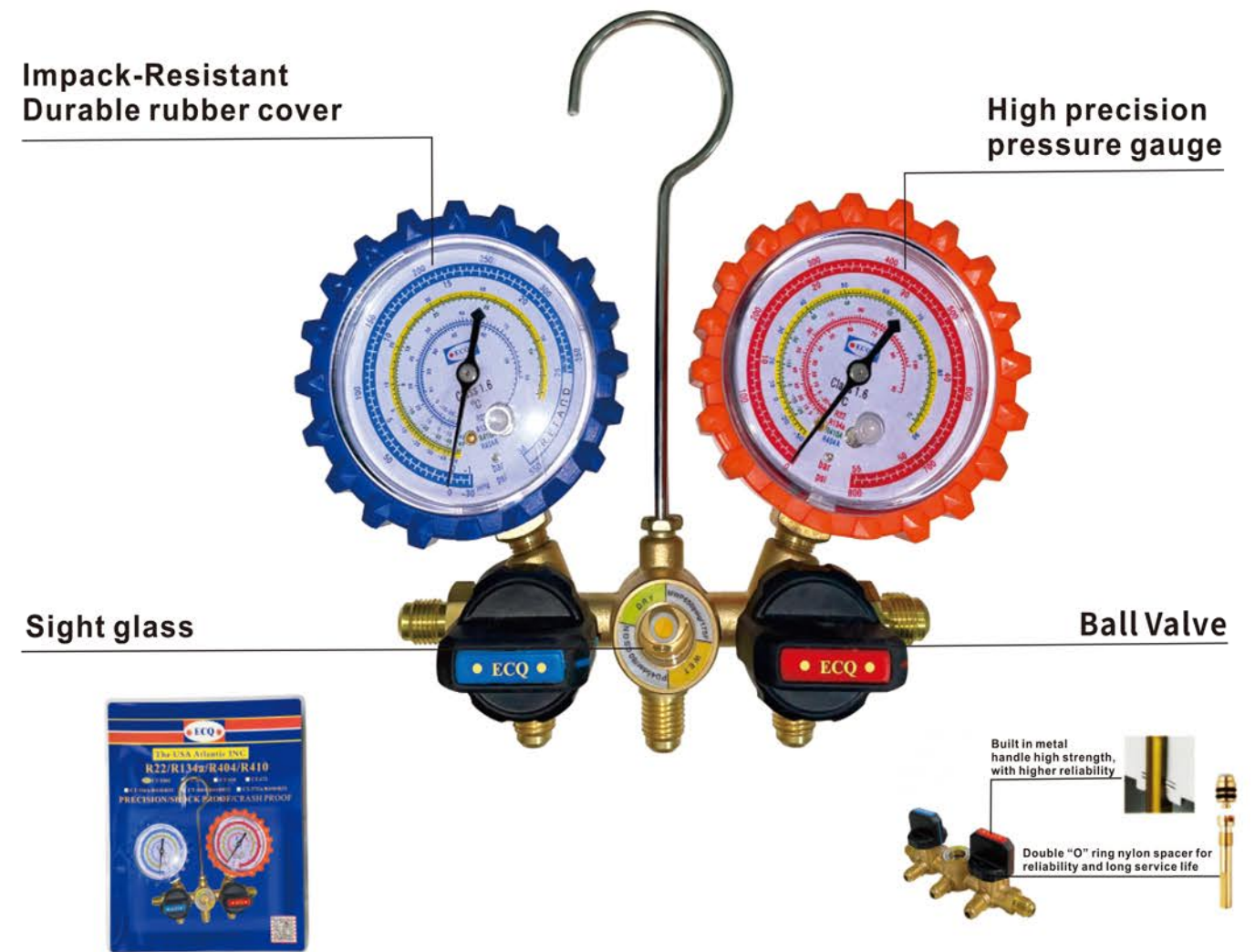
Sight Glass

- easily for viewing refrigerant movement and condition during charging and recovery

Model	Outside dimension	Description
CT-236G-1234 36"(90cm)	ϕ68MM,2-1/2" R22,R134,R404,R410	3pcs charging hose.Working pressure 800PSI Burst 4000PSI. Aluminum body with sight glass Designed to meet 1/4" SAE Red&blue:M12*1.5-M12*1.5,2*1pc,yellow:M12 *1.5-1/2", Acme.1PC
CT-260G-1234 60"(150cm)		
CT-272G-1234 72"(180cm)		
Package	Blow case	

Manifolds Gauge

Suitable for R22,R134a,R404A,R410A refrigerant



Precision/Impact-Resistant

Impact-Resistant

- Impact-Resistant design
- Durable rubber cover

Accurate

- precision pressure gauge

Built in metal handle

- High strength, with higher reliability

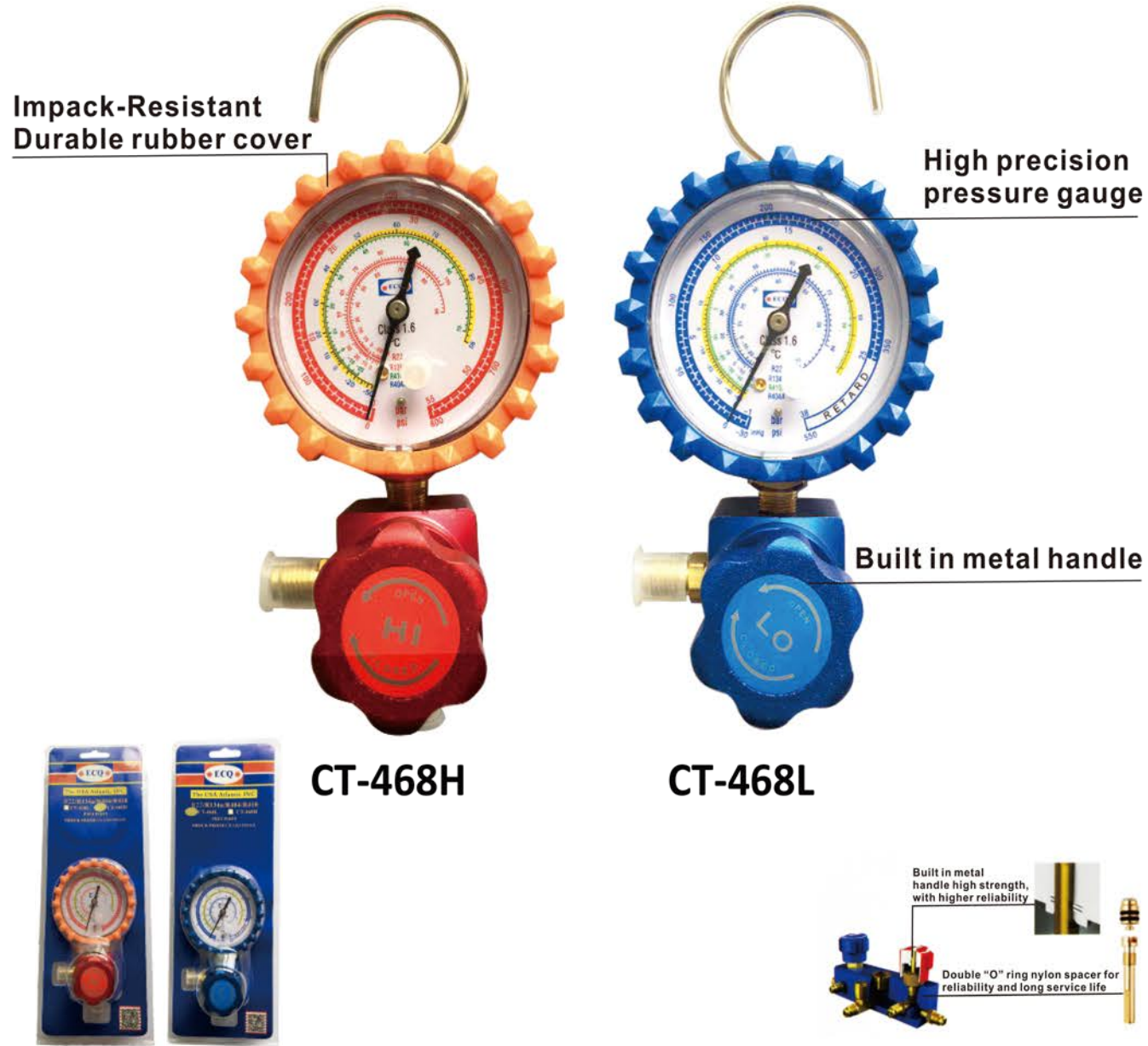
Sight Glass

- easily for viewing refrigerant movement and condition during charging and recovery

Model	Outside dimension	Description	
CT-536C 36"(90cm) 60"(150cm) 72"(180cm)	ϕ68MM,2-1/2" R22,R134,R404,R410	3pcs charging hose.Working pressure 800PSI Burst 4000PSI. Aluminum body with sight glass Designed to meet 1/4" SAE	
Package			Box/Blister packing

Single Gauge

Suitable for R22,R134a,R404A,R410A refrigerant



Precision/Impact-Resistant

Impact-Resistant

- Impact-Resistant design
- Durable rubber cover

Accurate

- precision pressure gauge

Built in metal handle

- High strength, with higher reliability

Model	Outside dimension	Description
CT-468H	φ68MM,2-1/2"	High pressure single valve gauges without sight glass
CT-468L	R22/R134a/R410A/R404A	Low pressure single valve gauges without sight glass
Package	Blister packing	

Single Gauge

Suitable for R22,R134a,R404A,R410A refrigerant



Precision/Impact-Resistant

Impact-Resistant

- Impact-Resistant design high strength rubber sheet sets, prevent impact failure

Precision

- Using high-precision movement, precision 1.0

Ball valve switch

- High efficiency, easier and convenient
- Good consume experience

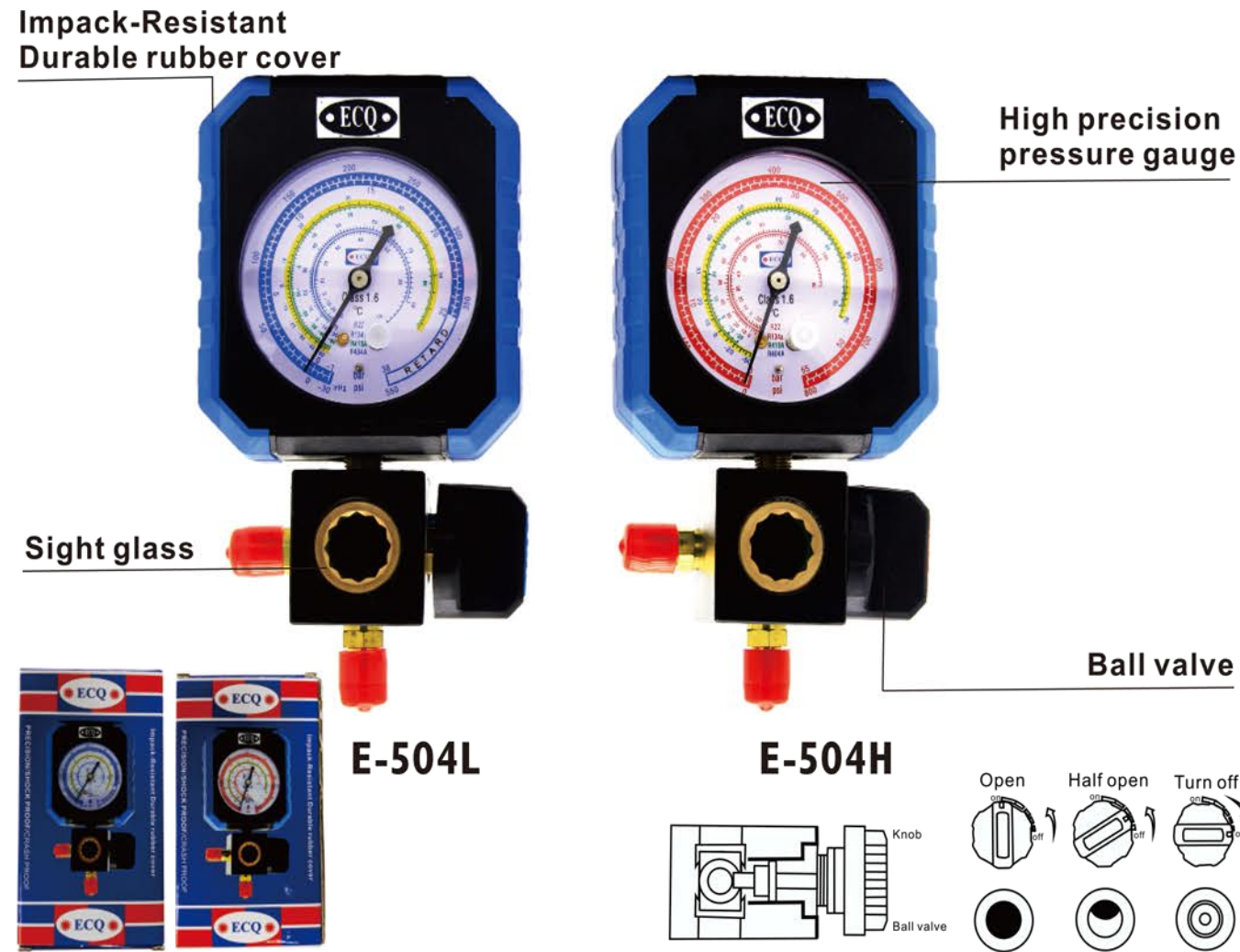
Folding hook

- Concealed hook design, easy to carry

Model	E-503H	E-503L
Refrigerants scale	R22/R134a/R404A/R410A	R22/R134a/R404A/R410A
Gauge diameter/Pressure	φ68mm 0inHg~800psi	φ68mm -30inHg~550psi
Package	Box	

Single Gauge

Suitable for R22,R134a,R404A,R410A refrigerant



Precision/Impack-Resistant

Impack-Resistant

- Impack-Resistant design high strength rubber sheet sets,prevent impact failure

Precision

- Using high-precision movement, precision 1.0

Ball valve switch

- High efficiency, easier and convenient
- Good consume experience

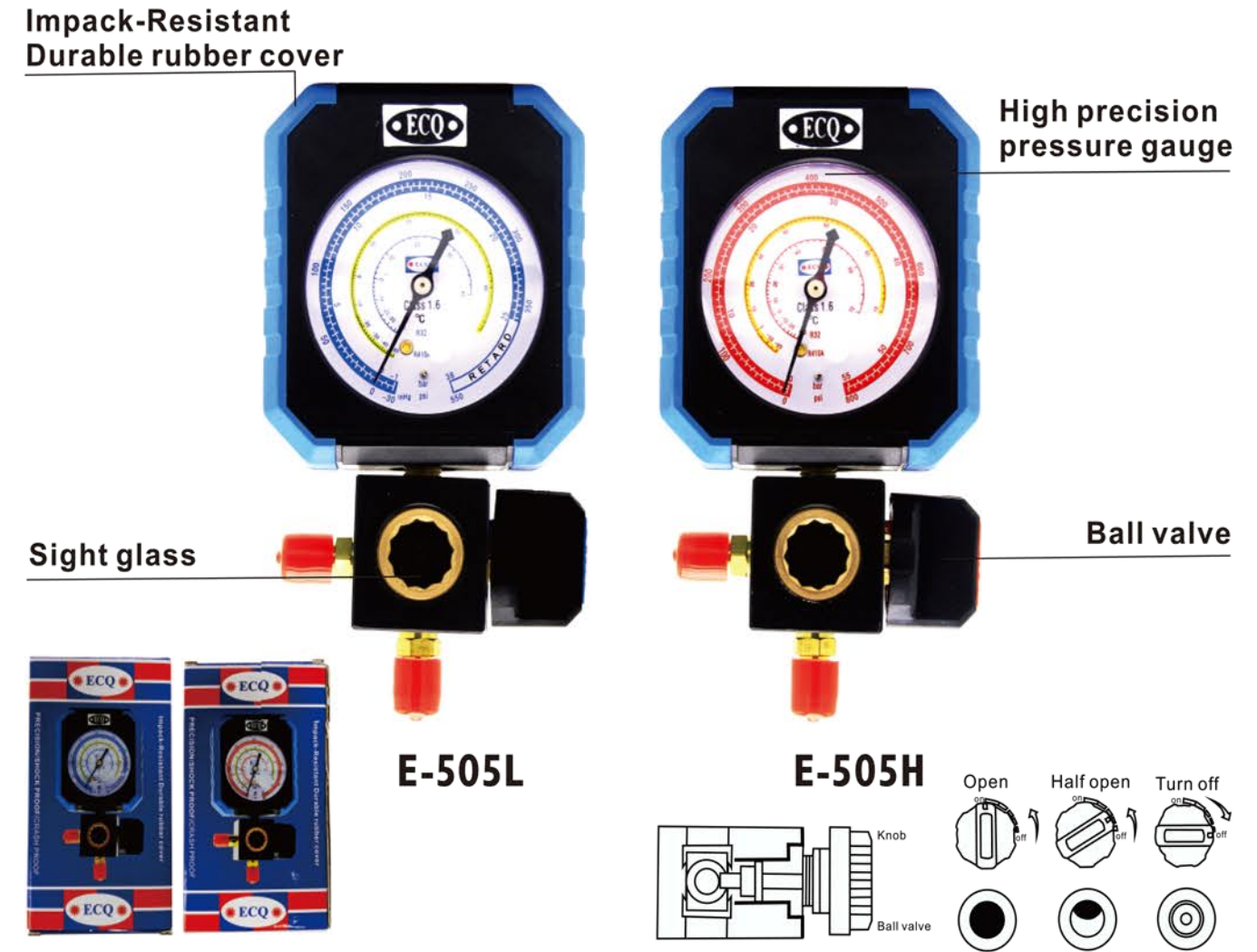
Folding hook

- Concealed hook design, easy to carry

Model	E-504H	E-504L
Refrigerants scale	R22/R134a/R404A/R410A	R22/R134a/R404A/R410A
Gauge diameter/Pressure	φ68mm 0inHg~800psi	φ68mm -30inHg~550psi
Package	Box	

Single Gauge

Suitable for R32,R410A refrigerant



Precision/Impack-Resistant

Impack-Resistant

- Impack-Resistant design high strength rubber sheet sets,prevent impact failure

Precision

- Using high-precision movement, precision 1.0

Ball valve switch

- High efficiency, easier and convenient
- Good consume experience

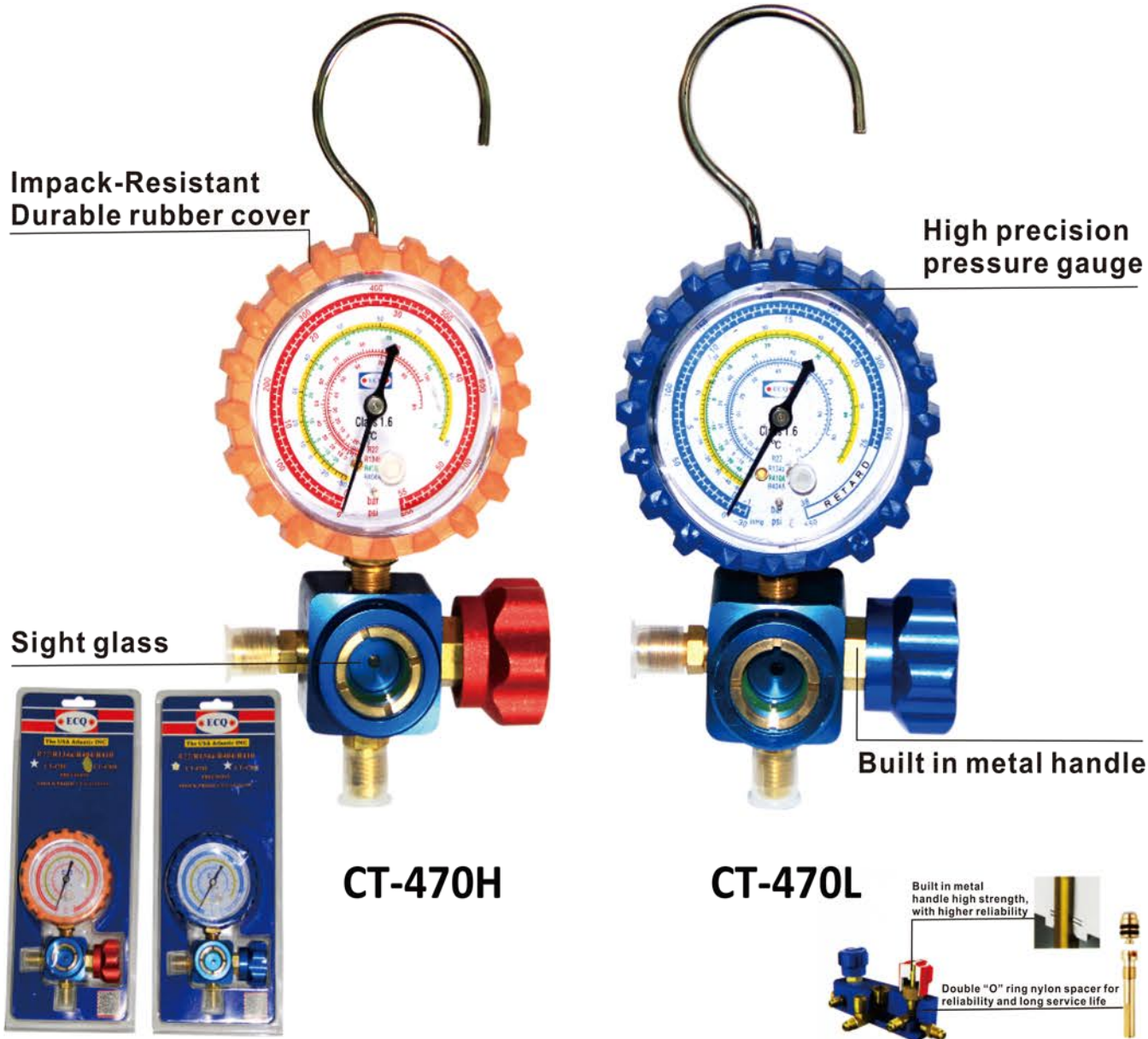
Folding hook

- Concealed hook design, easy to carry

Model	E-505H	E-505L
Refrigerants scale	R32/R410A	R32/R410A
Gauge diameter/Pressure	φ68mm 0inHg~800psi	φ68mm -30inHg~550psi
Package	Box	

Single Gauge

Suitable for R22,R134a,R404A,R410A refrigerant



Precision/Impact-Resistant

Impact-Resistant

- Impact-Resistant design
- Durable rubber cover

Accurate

- precision pressure gauge

Built in metal handle

- High strength, with higher reliability

Sight Glass

- easily for viewing refrigerant movement and condition during charging and recovery

Model	Outside dimension	Description
CT-470H	ø68MM,2-1/2"	High pressure single valve gauges with sight glass
CT-470L	R22/R134a/R410A/R404A	Low pressure single valve gauges with sight glass
Package	Blister packing	

Single Gauge

Impact-Resistant Durable rubber cover

High precision pressure gauge



Precision/Impact-Resistant

Impact-Resistant

- Impact-Resistant design
- Durable rubber cover

Accurate

- precision pressure gauge

Built in metal handle

- High strength, with higher reliability

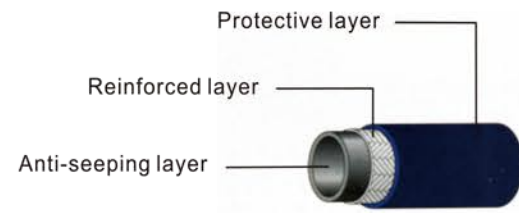
Model	Outside dimension	Thread	Package
CT-A68L	ø68MM,2-1/2"	NPT 1/8"	Blister packing
CT- A68H	R22/R134a/R410A/R404A		

Charging Hose

3 layer anti-seeping refrigerant hose



Pure cooper connector

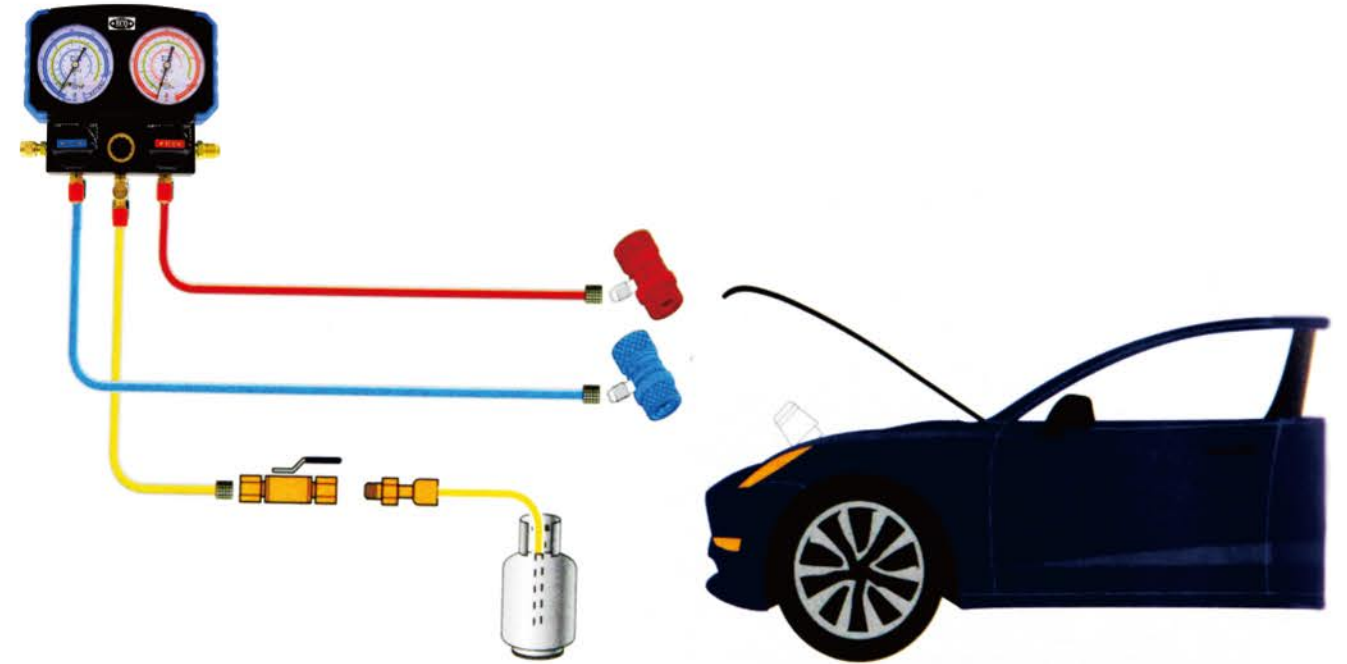


High strength

- | | | |
|--|---|---|
| <p>Wide Range of Application</p> <ul style="list-style-type: none"> • It's suitable for R410A, R134a, R22, etc | <p>Safe and reliable</p> <ul style="list-style-type: none"> • Rubber tube reinforced thickness 12mm, Ensure safe and reliable using | <p>High oil-resistance, Anti-seep</p> <ul style="list-style-type: none"> • 3 layer reinforce refrigerant tube, Effective avoid seeping • Pure cooper connector, Longitudinal die-casting |
|--|---|---|

Model	CONNECTOR SIZE	Description
CT-336 36"(90cm)	R22,R134,R404,R407,R507&R600	3pcs charging hose.
CT-360 60"(150cm)	R22,R134,R404,R407,R507&R600	Working pressure 600PSI Burst 3000PSI. Designed to meet 1/4" SAE
CT-372 72"(180cm)	R22,R134,R404,R407,R507&R600	
CT-336A 36"(90cm)	R410,R32	
CT-360A 60"(150cm)	R410,R32	Working pressure 800PSI Burst 4000PSI. Designed to meet 1/4" SAE and 5/16"SAE
CT-372A 72"(180cm)	R410,R32	
Package	Blister packing / plastic bag	

Quick Couplers



Quick-connect

- | | | |
|--|---|---|
| <p>Easy to use</p> <ul style="list-style-type: none"> • Automatically locks, one-step connection | <p> durable</p> <ul style="list-style-type: none"> • High strength, high pressure resistance • Long service life | <p>High oil-resistance, Anti-seep</p> <ul style="list-style-type: none"> • 3 layer reinforce refrigerant tube, Effective avoid seeping • Longitudinal die-casting seal, prevent leakage of connector |
|--|---|---|

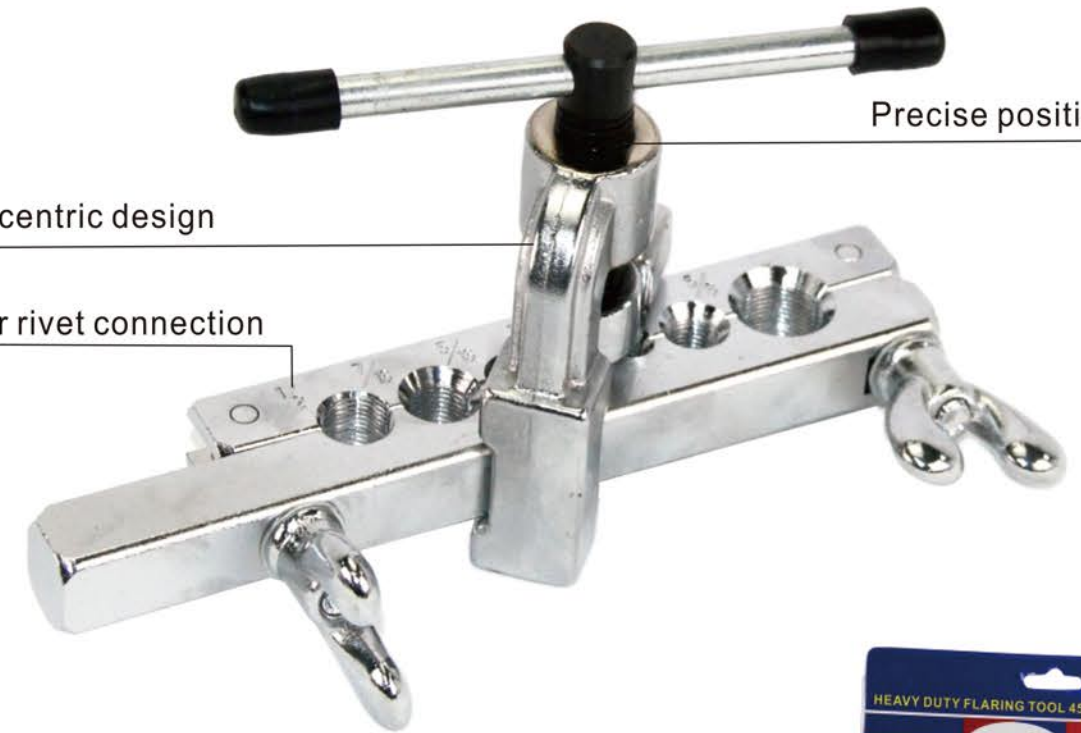
Model	Connection	Refrigerant	Package
QC12-L Blue	1/4 "SAE	R134	Blister packing
QC12-H Red	1/4 "SAE	R134	
QC-L Blue	1/4 "SAE ,14mm 90° Auto	R134	
QC-H Red	1/4 "SAE ,14mm 90° Auto	R134	
QC-LA Blue	1/4 "SAE ,14mm 90° Auto	R134 for car AC	
QC-HA Red	1/4 "SAE ,14mm 90° Auto	R134 for car AC	
QC-1234YFL Blue	1/4 "SAE ,12mm 90° Auto	R1234 for car AC	
QC--1234YFH Red	1/4 "SAE ,12mm 90° Auto	R1234 for car AC	



- Large base design to prevent backturning
- Base rubber protection against collision
- Precision measurement of high precision sensors
- LCD backlight display is clearer
- Scale handlebar design is easy to carry
- Horizontal beads on scale are easy to place horizontally
- Scale handlebar design is easy to carry

Specifications

Model	E-50A	E-100A	E-50AI	E-100AI
Max Capacity	50Kg (110Lb)	100Kg (220Lb)	50Kg (110Lb)	100Kg (220Lb)
Resolution	2g	5g	2g	5g
Accuracy	±0.05%			
Connection Mode	有线连接 Cable connection		无线连接 Wireless connection	
Power	4 × AAA电池 Batteries		秤盘 Scale: 4 × AA 电池 Batteries 遥控器 Handheld: 4 × AAA 电池 Batteries	
Operating Temperature	-10°C ~ 40°C			
Size	308 × 220mm			



Precise positioning

45° Eccentric design

Annular rivet connection



Accurate flaring

Annular rivet connection

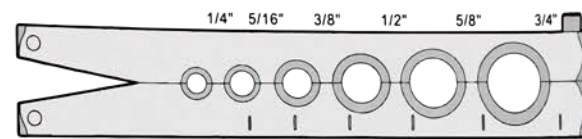
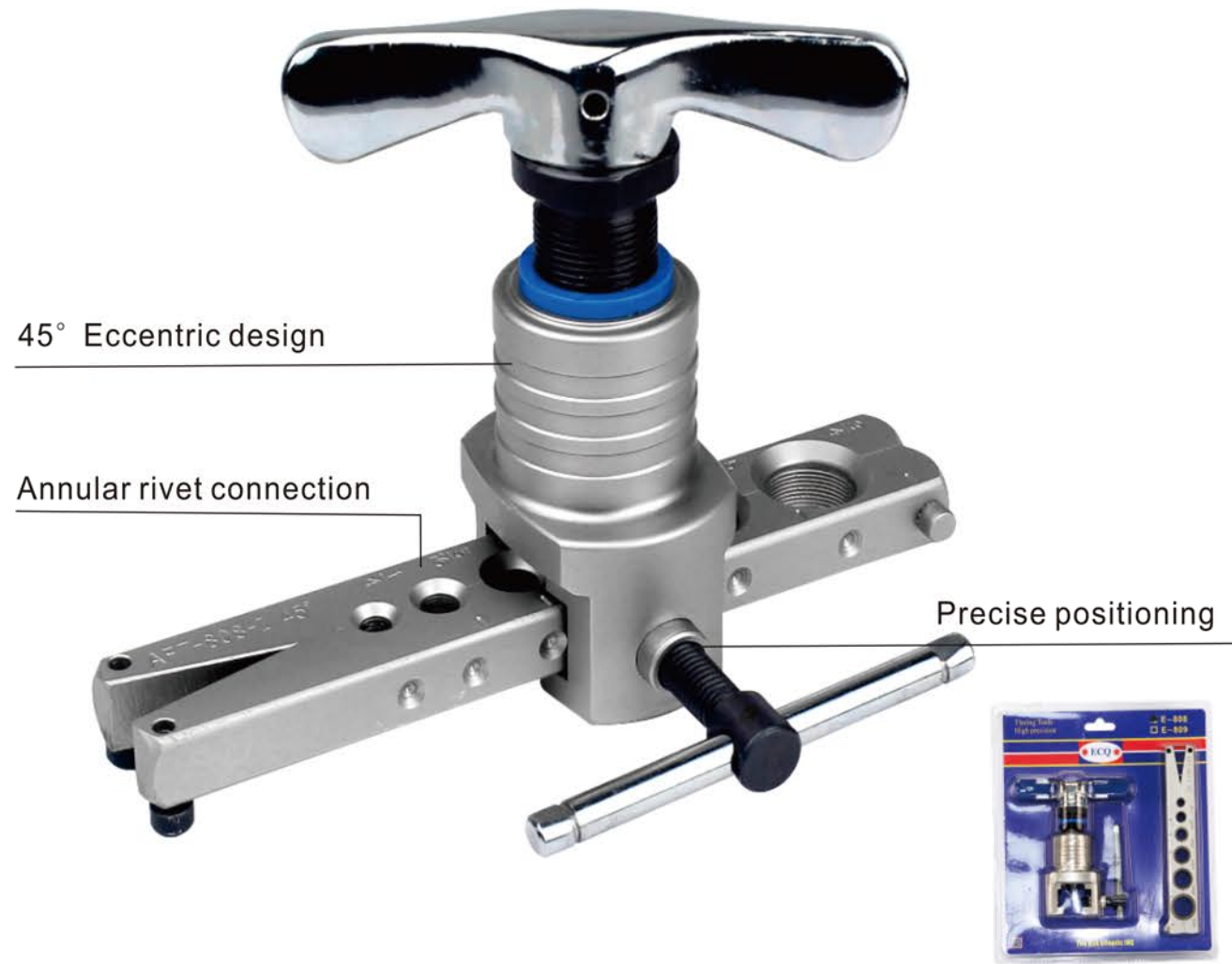
- More precise of flaring

45° Eccentric design

- Point contact flare, dimension standard, easy to use

Item No.	Description	Package
E-195	For 3/16", 1/4", 5/16", 3/8", 7/16", 1/2" & 5/8" O.D. Tubing individual	Blister packing

E-808 Flaring Tool



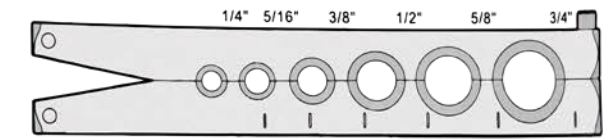
Accurate flaring

Annular rivet connection
 •More precise of flaring

45° Eccentric design
 •Point contact flare, standard dimension, easy to use

Item No.	Description	Package
E-808	For inch:1/4",5/16",3/8",1/2",5/8"&3/4"O.D.Tubing individual	Blister packing

E-806 Flaring Tool



Accurate flaring

Annular rivet connection
 •More precise of flaring

45° Eccentric design
 •Point contact flare, standard dimension, easy to use

Item No.	Description	Package
E-806	For inch:1/4",5/16",3/8",1/2",5/8"&3/4"O.D.Tubing individual	Box

CT-275 Flaring Tool



Include 5 swage adapters



Accurate flaring

Annular rivet connection
 •More precise of flaring

45° Eccentric design
 •Point contact flare, dimension standard, easy to use

Item No.	Description
CT-275	Flares 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 5/8" & 3/4" O.D. Includes 5 swage adapters that swage 7 tube sizes 3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4" O.D. Packed In Hand Carrying Plastic Case.
Package	Box

CT-278 Flaring Tool



CT-274 Tube Cutter

Include 5 swage adapters

CT-122 Ratchet Wrench



Accurate flaring

Annular rivet connection
 •More precise of flaring

45° Eccentric design
 •Point contact flare, dimension standard, easy to use

Item No.	Description
CT-278	CT-275 Flares 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 5/8" & 3/4" O.D. Includes 5 swage adapters that swage 7 tube sizes 3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4" O.D. CT-274 Tube Cutter 1/8" ~ 1-1/8" (3-28mm) CT-122 Ratchet Wrench For 1/4", 3/8", 3/16", 5/16" Packed In Hand Carrying Plastic Case.
Package	Box

Bending tool



Easy To Bend

Double-roller

- Unique X-TURN steering structure It's more easier to bend on 90°
- Double-roller design, reducing the pipe's friction, easy to bend

Angle Table

- The angle of bending is clearly visible

Anti-slip handle

- Easy to bend

Item No.	Description	Package
CT-364-06	Size: 3/8" (10mm) O.D. Tubing	Box
CT-364-08	Size: 1/2" (12mm) O.D. Tubing	

Bending tool



Easy To Bend

Double-roller

- Unique X-TURN steering structure It's more easier to bend on 90°
- Double-roller design, reducing the pipe's friction, easy to bend

Angle Table

- The angle of bending is clearly visible

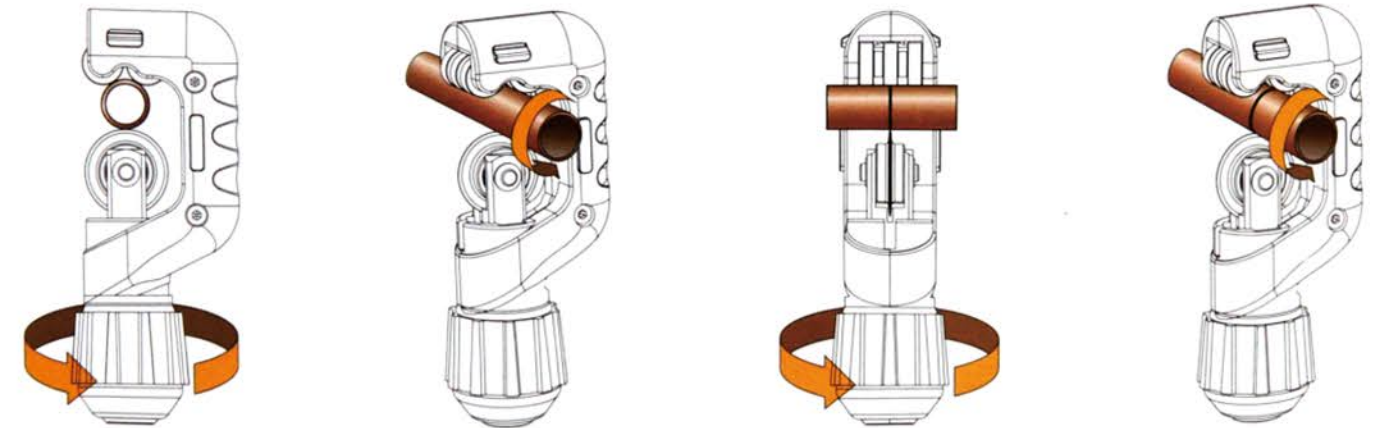
Anti-slip handle

- Easy to bend

Item No.	Description	Package
CT-364-10	Size: 5/8" (16mm) O.D. Tubing	Box
CT-364-12	Size: 3/4" (19mm) O.D. Tubing	
CT-364-14	Size: 7/8" (22mm) O.D. Tubing	



Cutter usage method



Easy To Cut

High-quality cutting blade
 •Sharp and durable

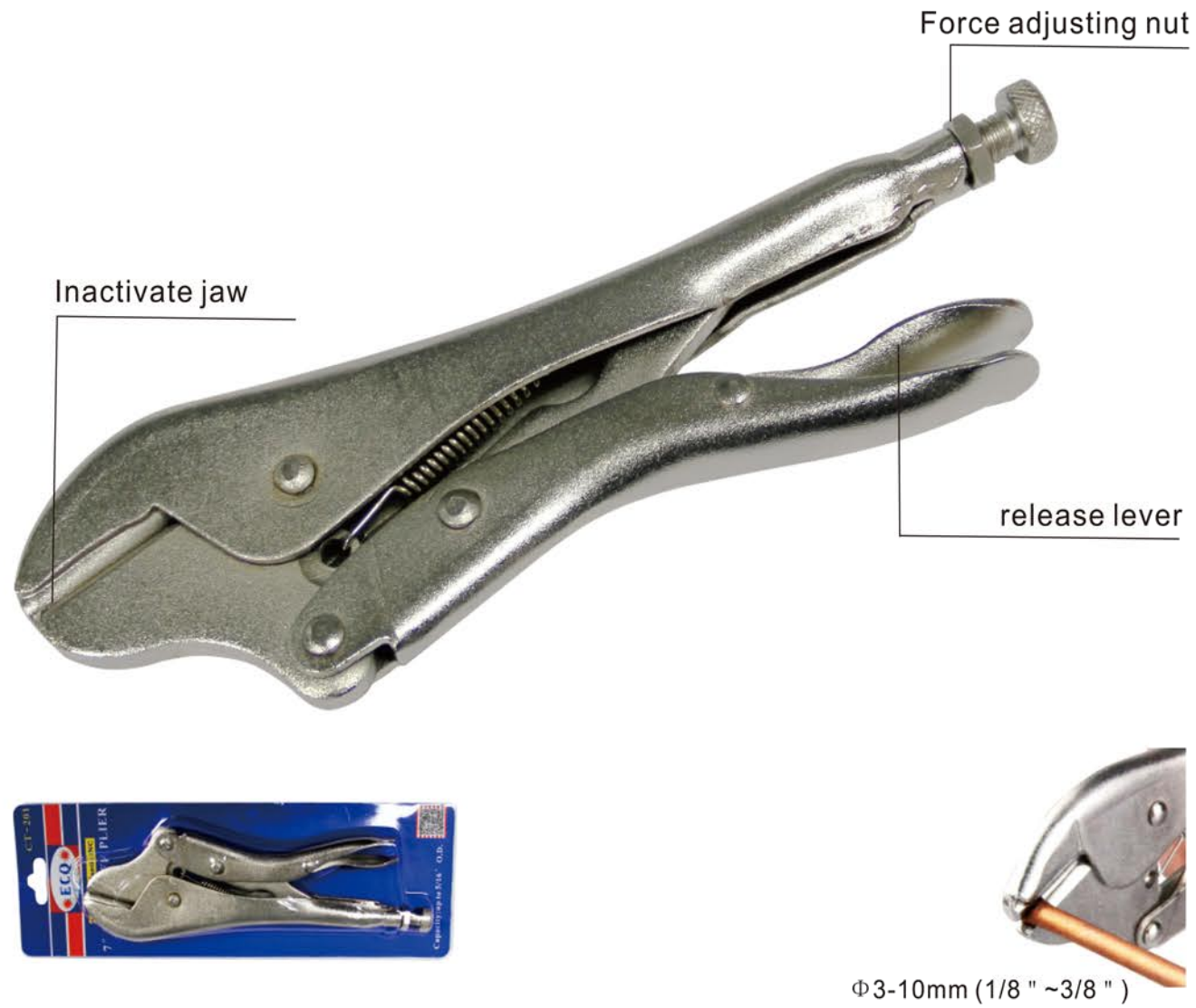
Ball bearing
 •Easy cutting and better quality

Aluminum alloy
 •Light weight, easy to carry and use

FAQ	Cause	Consequence
Cutting surface is tilt	The copper pipe is tilted, not vertical with the blade	Refrigerant leakage machinery damage
Burr inward of cutting surface	blade is not sharp	

Item No.	Description	Package
E-319	1/8"~3/4"(3~19mm) O.D. Tubing	Blister packing
E-428	3/16"~1-1/8"(4.76~28mm) O.D. Tubing	
E-532	1/8"~1-1/4"(4~32mm) O.D. Tubing	

E-201 7" Pinch off Plier



Easy To Seal

Inactivate Jaw

- Power clamp force, it can seal copper pipe quickly

Force Adjusting Nut

- Easy to adjust clamp force

Item No.	Description	Package
E-201	Pinch of copper tubing up to 5/16"(8mm)instantly.	Blister packing

E-202 7" Pinch off Plier



Easy To Seal

- Power clamp force,it can seal copper pipe quickiy
- Easy to adjust clamp force
- Anti-slip design,easy to use

Item No.	Description	Package
E-202	7" Pincn-off plier can pinch off copper tubing up to 1/8"~1/4"(3~6mm)instantly.	Blister packing

E-23 Tube Expander



•Hinge design to avoid swing

- 7-in-1 hand tool, light and easy to use
- Use for 1-4"~5/16" tubings. Fill the black of the same products



Instruction



Easy To Expand

Easy to use

- Simple structure for expanding tubing

Easy to Carry

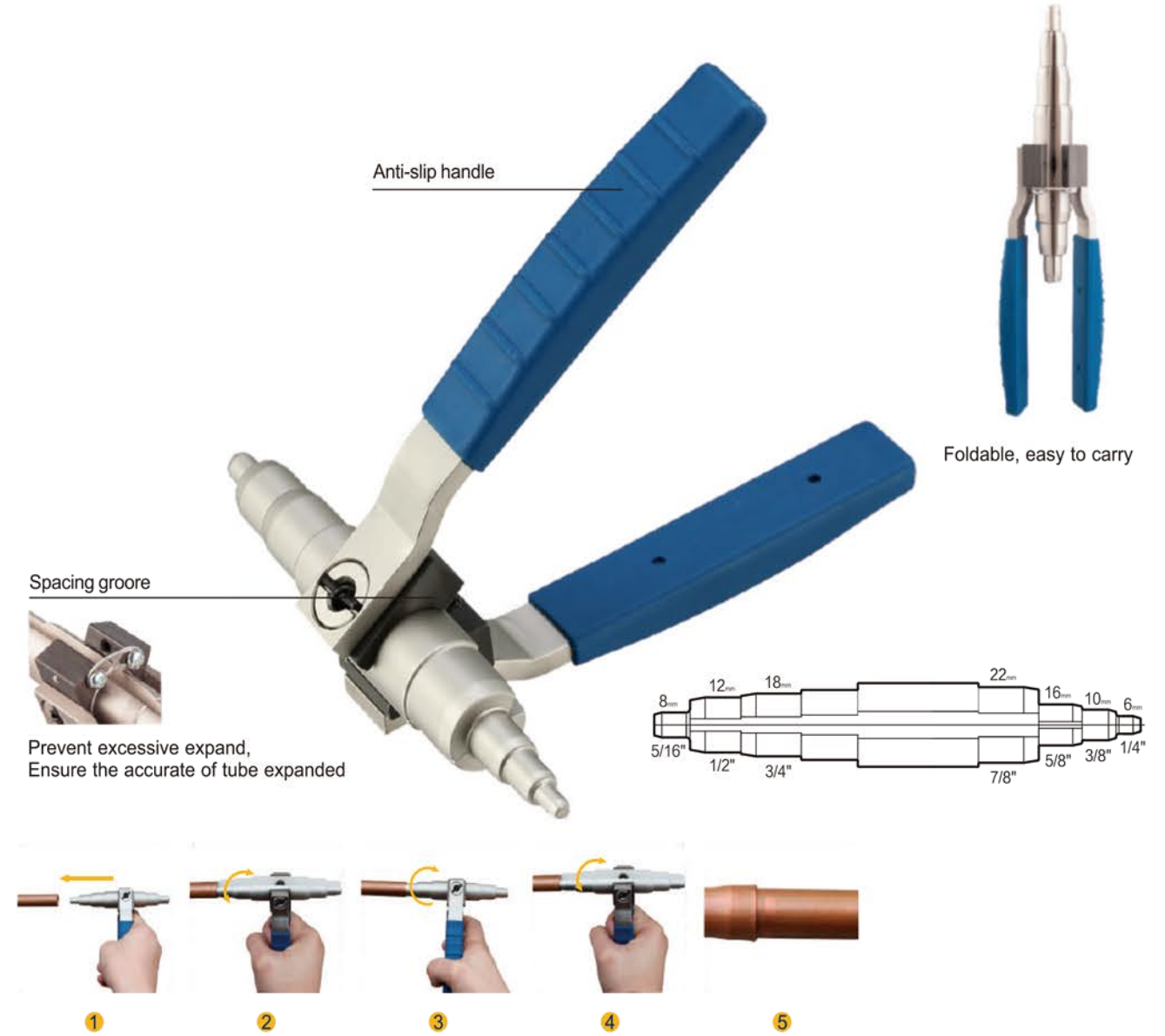
- Foldable design for portability

Spacing Groore

- To prevent over flared, ensure the accurate of tube flaring

Item No.	Description	Package
E-23	1/4 " ,5/16 " ,3/8 " ,1/2 " ,5/8 " ,3/4 " , 7/8 "	Blister packing

E-622 Tube Expander



Easy To Seal

Easy to Use

- Simple structure for expanding copper tubing

Easy to Carry

- Foldable design for portability

Spacing Groore

- To prevent over flared, ensure the accurate of tube flared

Anti-slip handle

- Easy to use

Item No.	Description	Package
E-622	For 6,8,10,12,16,19 & 22mm O.D. 1/4",5/16",3/8",1/2",5/8",3/4" & 7/8" O.D.	Blister packing

Swaging Needle

Patent No.: 202021270011.9
202030347871.7

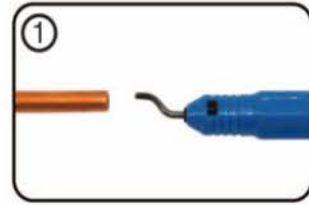


E-900S-A

E-900S-AM

E-900S-4S

E-900S-5S



1. Use reamer to remove burr on inner wall of pipe end. (Please take safety precautions during the whole process)



2. Select the corresponding expansion needle and fix it on the electric drill. (It is recommended to use electric drill with power above 550W)



3. Secure the tube, insert the expansion needle into the copper tube, start the electric drill to expand the pipe. (It is recommended to use universal tube expander splint to clamp fixed copper pipe)



4. Turn off the drill, remove the copper pipe and insert another copper pipe.

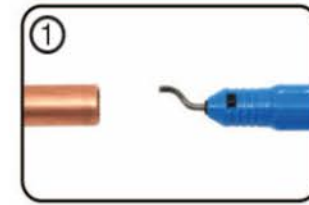
Item No.	Name	Spec	Qty/Case (Pes)	G. W / N. W (Kg)	Carton Size (Cm)
E-900S-6-8-10mm	Swaging Needle	6mm, 8mm, 10mm	100	9/8	20x20x20
E-900S-9-12mm	Swaging Needle	9mm, 12mm	100	9/8	20x20x20
E-900S-04-05-06	Swaging Needle	1/4", 5/16", 3/8"	100	9/8	20x20x20
E-900S-08-10	Swaging Needle	2/1", 8/5"	100	9/8	20x20x20
E-900S-12	Swaging Needle	3/4"	100	9/8	20x20x20
E-900S-14	Swaging Needle	7/8"	100	9/8	20x20x20
E-900S-A	Swaging Needle	1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8"	20	8/7	38.5x20x21.5
E-900S-AM	Swaging Needle	Metric: 6, 8, 9, 10, 12mm Inch: 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8"	20	8/7	38.5x20x21.5
E-900S-4S	4-in-1 Swaging Needle	1/4" (6mm), 3/8" (9mm), 1/2" (12mm), 5/8" (16mm)	50	5/4	19x19x22
E-900S-5S	5-in-1 Swaging Needle	1/4" (6mm), 3/8" (9mm), 1/2" (12mm), 5/8" (16mm), 3/4" (19mm)	50	5/4	19x19x21

Flaring Head

Patent No.: 202030542977.2
202021999773.2



E-900F



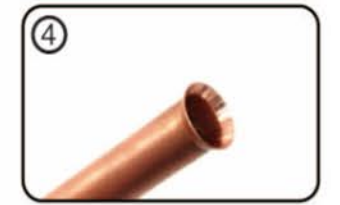
1. Use reamer to remove burr on inner wall of pipe end. (Please take safety precautions during the whole process)



2. Select the corresponding expansion needle and fix it on the electric drill. (It is recommended to use electric drill with power above 550W)



3. Secure the tube, insert the expansion needle into the copper tube, start the electric drill to expand the pipe. (It is recommended to use universal tube expander splint to clamp fixed copper pipe)



4. Turn off the drill, remove the copper pipe and insert another copper pipe.

Item No.	Name	Spec	Qty/Case (Pes)	G. W / N. W (Kg)	Carton Size (Cm)
E-900F-04	Flaring Head	1/4"	100	9/8	20x20x20
E-900F-06	Flaring Head	3/8"	100	9/8	20x20x20
E-900F-08	Flaring Head	1/2"	100	9/8	20x20x20
E-900F-10	Flaring Head	5/8"	100	9/8	20x20x20
E-900F-12	Flaring Head	3/4"	100	9/8	20x20x20
E-900F-14	Flaring Head	7/8"	100	9/8	20x20x20
E-900F	Flaring Head	1/4", 3/8", 1/2", 5/8", 3/4"	20	8/7	38.5x20x21.5



COMPACT BALL VALVES 1/4" FOR FULL FLOW

CT-7011	1/4"SAEX 1/4" FEMALE
CT-7012	1/4"SAEX5/16" FEMALE
CT-7013	1/4"SAEX1/4"SAE
CT-7014	1/4.,SAEX1/4// FEMALE 45°
CT-7015	1/4" SAEX5/16" FEMALE 45°
CT-7016-RED	1/4" SAE x 1/4" FEMALE
CT-7016-BLUE	1/4" SAE x 5/16" FEMALE
CT-7016-YELLOW	1/4" SAE x 1/4" SAE



Ball Valve 1/4" for full flow

Connection: red and blue:1/4SAE *5/16SAE Yellow:1/4SAE *1/4SAE

Application:R22 R502 R134a R404A R407c R410A
Pressure Rating:600psi-3000psi or 800psi-4000psi
Length:130mm



Automotive R134a and R12 can taps CT-1202

Connection: 1/4SAE

R134a can tan tap valve and R134a high pressure hose with quick connect fittings



Automotive R134a 3-IN-1 Vacuum Charge recover core tool

CT-206H High-side R-134A auto valve core tool

CT-206L Low-side R-134A auto valve core tool



270PC Green O type seal ring for refrigeration air condition

7/32"x1/16" or (5.29x1.78)	20pcs	11x2	15pcs
1/4"x1/16" or (6.07x1.78)	20pcs	12x2	15pcs
6.8x1.9	20pcs	13.9x1.8	10pcs
5/16"x1/16" or (7.68x1.78)	20pcs	9/16"x3/32" or (13.95x2.62)	10pcs
7.8x1.9	20pcs	14x2	10pcs
8x2	20pcs	15x2	10pcs
8.8x1.9	20pcs	17x2	10pcs
7/16"x1/16" or (10.82x1.78)	15pcs	11/16"x1/16" or (17.17x1.78)	10pcs
7/16"x3/32" or (10.82x1.78)	15pcs	11/16"x1/8" or (17.04x3.53)	10pcs



Cap valve

CT-338A 1/4" SAE R22/R404/R107/R507/R600

CT-339A 1/4" SAE R134



CT-1221 1/4" * 1/4" SAE R22/R404/R107/R507/R600

CT-1222 1/4" * 5/16" SAE R134



Adapter

R410 Switch connector-19011/4 "SAE Repl. O ring/orificeR410

R410 Switch connector-19025/16" SAE Repl. O ring/orificeR410



Capillary Group

50/90/150cm



CT-351 Fin Straightener

For 8",9",10",12",14",15"Spacing's per inch.



Bender Spring

CT-102-04 For Inch:1/4"O.D.Tubing

CT-102-06 For Inch:3/8"O.D.Tubing

CT-102-08 For Inch:1/2"O.D.Tubing

CT-102-10 For Inch:5/8"O.D.Tubing

CT-102-12 For Inch:3/4"O.D.Tubing

Access Valve / Adapter

Brass valve adapter for AC: 1/4", 3/8", 1/2", 5/8", 3/4"

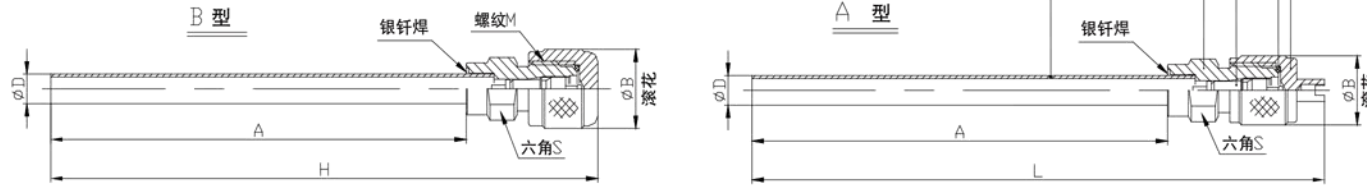


Model	E-120A	E-120B	E-120C	E-120D	E-120E
Description	1/4"	3/8"	1/2"	5/8"	3/4"

Applicable Refrigerant: HCFC and HFC



外型结构 Structure



1. 阀帽 2. O-Ring 3. 气门芯 4. 阀体 5. 铜接管 1. valve bonnet 2. O-ring 3. valve inside 4. valve body 5. copper tube

Specification

Type	Connection	Size	Overall Dimension				Hexagonal S	Thread M	Weight(g)								
			A	B	ΦD	H											
Type A	1/4 SAE	1/8	60	14	3.17	---	94	11	7/16-20UNF	22							
		3/16	60	14	4.76					23							
		1/4	90	14	6.35					124	28						
Type B	1/4 SAE	1/4	90	14	6.35	118	---	12	7/16-20UNF	30							
										1/2 SAE	16	6.35	118	---	14	1/2-20UNF	39
																	1/2 ACME

Dry Filter

Overall Dimension

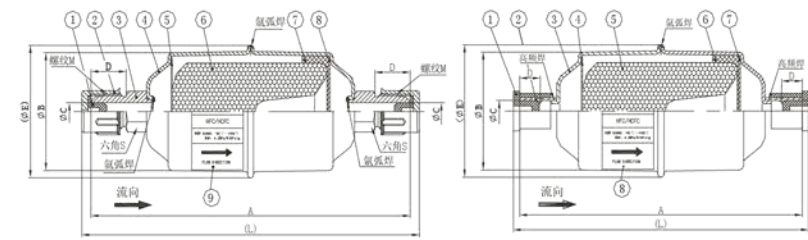
Thread

1. rubber plug
2. thread cap
3. steel connector
4. steel cup
5. barrier
6. solid filter cartridge
7. filter pad
8. filter net
9. label



Thread

1. rubber plug hat
2. welding pipe
3. steel cup
4. barrier
5. solid filter cartridge
6. filter pad
7. filter net
8. label



Technical Parameters

Technical Parameters

- Applicable Refrigerant HCFC or HFC
- Applicable Medium Temperature
- Max. Operating Pressure
- Max. Allowable Pressure



SAE接口

Model	Connection	A	ΦB	ΦC	D	ΦE	L	S	Thread M	Weight(g)
ECQ-032	1/4 SAE	109	Φ43	Φ4.8	14	Φ48.5	113	14	7/16-20UNF	183
ECQ-033	3/8 SAE	118		Φ8	17		127	16	5/8-18UNF	211
ECQ-052	1/4 SAE	119	Φ53.5	Φ4.8	14	Φ60.5	125	14	7/16-20UNF	261
ECQ-053	3/8 SAE	128		Φ8	17		137	16	5/8-18UNF	289
ECQ-083	3/8 SAE	154	Φ53.5	Φ8	17	Φ60.5	163	16	5/8-18UNF	372
ECQ-084	1/2 SAE	162		Φ10	19		172	19	3/4-16UNF	403
ECQ-085	5/8 SAE	173	Φ75	Φ13	23.5	Φ84.5	185	22	7/8-14UNF	440
ECQ-163	3/8 SAE	160		Φ8	17		169	16	5/8-18UNF	615
ECQ-164	1/2 SAE	168	Φ75	Φ10	19	Φ84.5	178	19	3/4-16UNF	655
ECQ-165	5/8 SAE	179		C13	23.5		191	22	7/8-14UNF	695
ECQ-304	1/2 SAE	262	Φ79	Φ10	19	Φ79	272	19	3/4-16UNF	1325
ECQ-305	5/8 SAE	272		Φ13	21		284	22	7/8-14UNF	1365
ECQ-306	3/4 SAE	273	Φ79	Φ16	25	Φ79	285	27	1-1/16-14UNS	1423

ODF接口

Model	Connection	A	ΦB	ΦC	D	ΦE	L	Weight(g)
ECQ-032S	1/4 ODF	99	Φ43	Φ6.5	8	Φ48.5	103	159
ECQ-033S	3/8 ODF	101		Φ9.6	10		107	166
ECQ-052S	1/4 ODF	109	Φ53.5	Φ6.5	8	Φ60.5	113	235
ECQ-053S	3/8 ODF	111		Φ9.6	10		117	242
ECQ-083S	3/8 ODF	137	Φ53.5	Φ9.6	10	Φ60.5	143	320
ECQ-084S	1/2 ODF	145		Φ12.9	11		151	335
ECQ-085S	5/8 ODF	145	Φ75	Φ16	11	Φ84.5	151	348
ECQ-163S	3/8 ODF	143		Φ9.6	10		149	527
ECQ-164S	1/2 ODF	151	Φ75	Φ12.9	11	Φ84.5	157	542
ECQ-165S	5/8 ODF	151		Φ16	11		157	547
ECQ-304S	1/2 ODF	245	Φ79	Φ12.9	11	Φ79	251	1263
ECQ-305S	5/8 ODF	245		Φ16	11		251	1268
ECQ-306S	3/4 ODF	250	Φ79	Φ19.2	12	Φ79	256	1286
ECQ-307S	7/8 ODF	256		Φ22.4	12.5		262	1302
ECQ-309S	1-1/8 ODF							

Core / Sight Glass



Water and Acid removal for all typical liquid and suction line applications.

Universal Replacement: 48 cubic inch desiccant core. For use with CFC, HCFCs, HFCs, Mineral oil and POE.

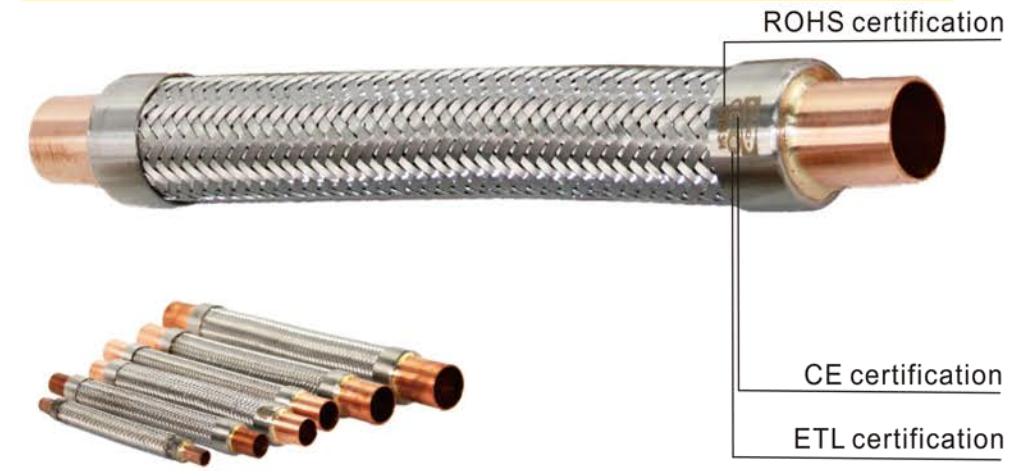
Sight Glass-HCFC and HFC

- Model SGN and Model SGS
- Be applicable to HCFC/HFC refrigerants.
- Indicate high water cut in system if any.
- Indicate no overcooling in refrigerant liquid.
- Indicate insufficient charging of refrigerant if any.
- Both welded and threaded connections are available.

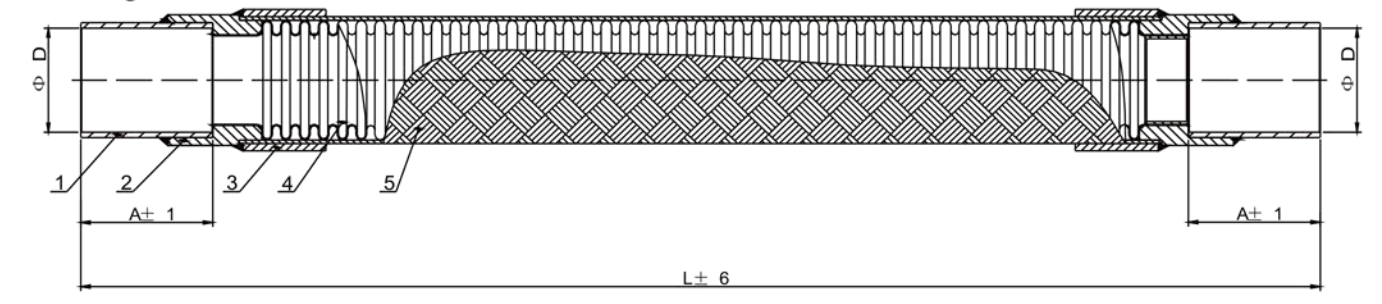


Model		A	B	ΦC	ΦD	E	F	L	S	Thread M	Weight(g)	
											SGN	SGS
SGN/SGS-1/4	ODF	9.5	14.5	28	6.5	7	27	102	14	—	105	125
	SAE				—	—	14	64		7/16-20UNF	145	145
SGN/SGS-3/8	ODF	12.5	16.5	28	10.1	8	36	119	19	—	110	155
	SAE				—	—	17	70		5/8-18UNF	215	195
SGN/SGS-1/2	ODF	13	18	28	12.8	10	46	146	22	—	170	150
	SAE				—	—	19	78		3/4-16UNF	240	210
SGN/SGS-5/8	ODF	15	20	31.5	16.1	14	46	152	24	—	190	220
	SAE				—	—	20	78		7/8-14UNF	350	300
SGN/SGS-3/4	ODF	18	23	31.5	19.1	16	51	167	29	—	270	230
	SAE				—	—	23	94		1-1/16-14UNS	545	440
SGN/SGS-7/8	ODF	16.5	21.5	31.5	22.3	17	54	173	27	—	315	290
SGR-3/4NPT	NPT	10.5	13	—	—	—	—	—	32	3/4NPT	90	
SGR-G3/4	G	—	—	—	—	—	—	—	—	G3/4	70	

Vibration absorbers



Configuration:



1:紫铜接管 2:接头 3:压圈 4:波纹管 5:网套

1. red copper tube 2. metal connector 3. metal clamping ring 4. corrugated metal hose 5. braided metal wire sleeve

Applicable Refrigerants: HCFC/HFC
 Applicable Medium Temperature: -40°C~+150°C
 Maximum Working Pressure: refer to the table
 Maximum Proof Pressure: refer to the table



Technical Parameters:

Model	Nominal size		Dimension (inch)						(psig) working pressure	(psig) burst pressure	
	inch	(ϕ)mm	A	B	C	D	E				
VAFX-038-10	3/8	9.52	10	3/8	3-4	7	8-1/2	217mm	1/2	500	2500
VAFX-012-12	1/2	12.7	12	1/2	7/8	7-1/4	9	228mm	1/2	500	2500
VAFX-058-16	5/8	15.88	16	5/8	15/16	8	9-7/8	250mm	7/8	500	2500
VAFX-034-19	3/4	19.05	19	3/4	1/4	8-1/16	10-1/2	268mm	7/8	500	2500
VAFX-078-22	7/8	22.23	22	7/8	1-3/8	9-1/4	12	305mm	7/8	500	2500
VAFX-001-25	1	25.4	25	1	1-3/4	9-7/16	13	332mm	7/8	500	2500
VAFX-118-28	1-1/8	28.58	28	1-1/8	1-3/4	9-7/16	13	332mm	7/8	500	2500
VAFX-114-32	1-3/8	34.93	35	1-3/8	2-1/16	11-7/16	15-1/2	395mm	7/8	500	2500
VAFX-138-35	1-5/8	41.28	42	1-5/8	2-1/4	12-3/8	16-15/16	429mm	1	500	2500
VAFX-158-42	2-1/8	53.98	54	2-1/8	2-11/16	15-3/16	20-1/2	524mm	1-3/8	390	1950
VAFX-218-54	2-5/8	66.68	67	2-5/8	3-1/16	18	24-1/8	617mm	2	340	1700
VAFX-258-67	3-1/8	79.38	80	3-1/8	3-7/16	20	26-15/16	684mm	2	300	1500
VAFX-318-79	3-5/8	92.08	92	3-5/8	4-1/16	24	32-1/8	818mm	2	175	525



- Model GBC ball valve is a manually regulated shut-off valve, which is applicable to two-direction flow.
- Model GBC ball valve is used on the liquid, air suction and hot vapor Piping of the freezer, cold storage and air conditioning unit.
- The valve seat of Model GBC ball valve is well sealed with perfect sealing performance.
- Model GBC ball valve is a through-type ball valve with maximum flow rate and wide scope of operating temperature.
- Model GBC ball valve is equipped with a secondary sealing cap and the metal wire could be used to prevent the sealing cap from missing and avoid any mistake operation in maintenance.

Features

- No pressure drop in flow.
- Only turn 1/4 circle to make valve full open or full close.
- Turning stop for full open or full close.
- Full Open and Full Close mark on top of valve stem.
- Two-direction flow is available.
- Certification • ISO9001 • QS • UL
- Argon arc welded structure.
- Explosion-proof valve stem design.
- Modified PTFE sealing.
- Inside liquid accumulation is avoided.
- Could be mounted on the control panel.

Technical Parameters

Applicable Refrigerant	HCFC or HFC (Customer choice)
Applicable Medium Temperature	-40°C ~ +150°C
Max. Operating Pressure	4.5MPa
Max. Test Pressure	6.5MPa
Yearly Leakage of Refrigerant	≤2g R22/a

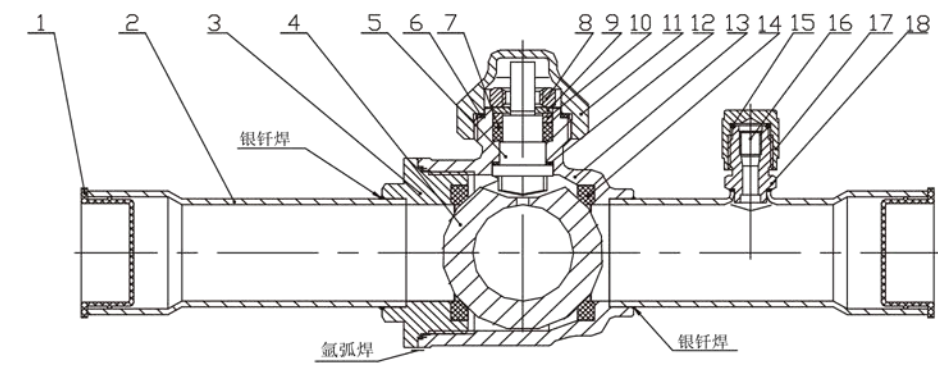
- Two types of Model GBC ball valve are available: one is equipped with the charging and inspection port; the other is not equipped with the charging and inspection port.

Specification

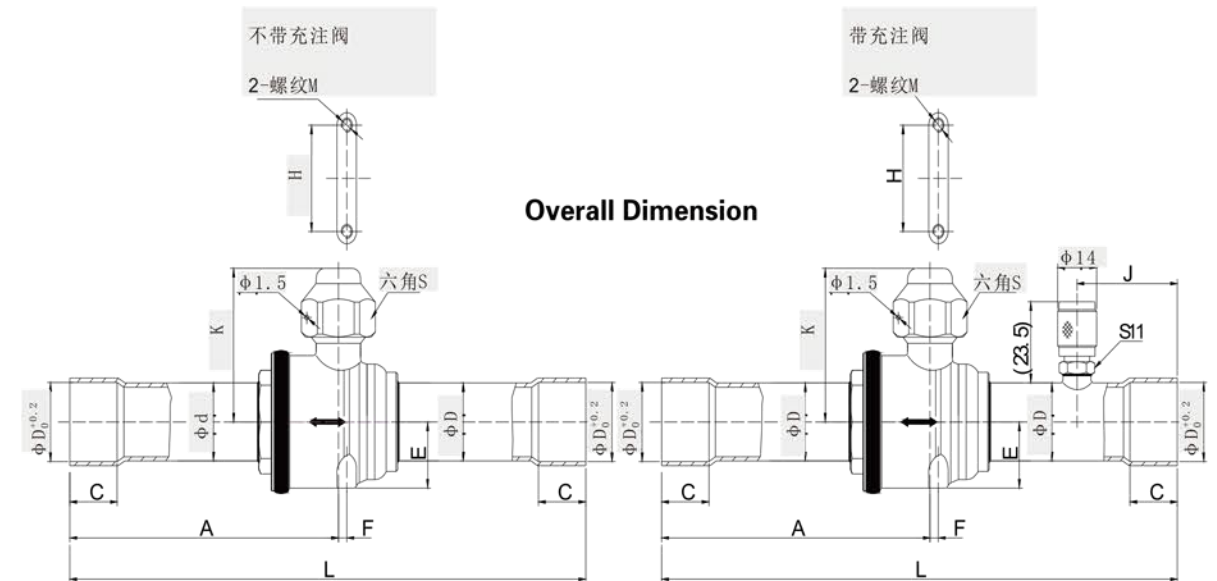
Model	Size	(OD)mm	Kv (m³/h)	Model	Size	(OD)mm	Kv (m³/h)
GBC-6S	1/4(Φ6)	Φ10	2	GBC-28	1-1/8(Φ28)	Φ25	52.0
GBC-10S	3/8(Φ10)	Φ10	5.7	GBC-35	1-3/8 (Φ35)	Φ31	80
GBC-12S	1/2(Φ12)	Φ10	5.7	GBC-42	1-5/8 (Φ42)	Φ37	121
GBC-10	3/8(Φ10)	Φ14	5.7	GBC-54	2-1/8(Φ54)	Φ50	200
GBC-12	1/2(Φ12)	Φ14	10.6	GBC-67	2-5/8 (Φ67)	Φ50	200
GBC-16	5/8(Φ16)	Φ14	14.1	GBC-79	3-1/8 (Φ79)	Φ50	200
GBC-19	3/4(Φ19)	Φ19	20.4	GBC-67A	2-5/8 (Φ67)	Φ60.5	310
GBC-22	7/8(Φ22)	Φ19	28.2	GBC-79A	3-1/8 (Φ79)	Φ73	700



Structure



- 1.dust cap 2.copper tube 3.valve bonnet 4.valve ball 5.valve stem
- 6.cap gasket7.packing ring 8.locknut 9.lock 10.clamping ring
- 11.valve cap 12.sealing washer13.valve body 14.seal gasket
- 15.seal ring 16.valve core 17.charging cap18.charging valve



Model	A	C	D	d	E	F	K	M	J	H	L
GBC-6S	57	6	6.5	10	14	0	32.5	M4	20	16	110
GBC-10S	65	8	10.1	10	14	0	32.5	M4	26	16	126
GBC-12S	67	10	12.8	12	14	0	32.5	M4	26	16	130
GBC-10	73	9	10.1	16	14.5	2	38	M4	30	22	138
GBC-12	83	10	12.8	16	14.5	2	38	M4	30	22	159
GBC-16	83	12	16.1	16	14.5	2	38	M4	30	22	159
GBC-19	96	14	19.1	22	19	3	43	M4	36	30	185
GBC-22	96	17	22.3	22	19	3	43	M4	36	30	185
GBC-28	108	20	28.7	28	24	4	52.5	M4	44	38	208
GBC-35	130	25	35.2	35	30	5	64	M6	44	48	251
GBC-42	145	29	41.5	41.3	35	6	74	M6	56	55	281
GBC-54	157	35	54.2	54	45.5	9	83.5	M6	56	74	305
GBC-67	157	37	67	54	45.5	9	83.5	M6	63	74	305
GBC-79	157	40	79.6	54	45.5	9	83.5	M6	63	74	305
GBC-67A	171	37	67	66.8	54	16	94	M6	72	84	343
GBC-79A	207	37	79.6	79.4	64	16	104	M6	80	86	413

Note: ① The weight of charging port is excluded from above mentioned weight and it should add 15 g if the charging port is included in any mentioned weight.

Mapp Gas Torch

ECQ E-1

Gas Type:MAPP/Propane/LPG
 Connection Standard: CGA600
 Max Temperature: >3600°F (MAPP Gas)
 Soft Solder: Max. Φ4"
 Brazing:Max.Φ1 1/4"



ECQ E-2

Gas Type:MAPP/Propane/LPG
 Connection Standard: CGA600
 Max Temperature: >3600°F (MAPP Gas)
 Soft Solder: Max. Φ6"
 Brazing:Max.Φ3"



ECQ E-2C



ECQ E-1C

Gas Type:MAPP/Propane/LPG
 Connection Standard: CGA600
 Max Temperature: >3600°F (MAPP Gas)
 Soft Solder: Max. Φ4"
 Brazing:Max.Φ1 1/4"



ECQ E-1S



ECQ E-3S

Gas Type:MAPP/Propane/LPG
 Connection Standard: CGA600
 Max Temperature: >3600°F (MAPP Gas)
 Soft Solder: Max. Φ4"
 Brazing:Max.Φ1 1/4"



ECQ E-3SV

Gas Type:MAPP/Propane/LPG
 Connection Standard: CGA600
 Max Temperature: >3600°F (MAPP Gas)
 Soft Solder: Max. Φ4"
 Brazing:Max.Φ1 1/4"



ECQ E-1SV

Gas Type:MAPP/Propane/LPG
 Connection Standard: CGA600
 Max Temperature: >3600°F (MAPP Gas)
 Soft Solder: Max. Φ6"
 Brazing:Max.Φ3"



ECQ E-2S

Gas Type:MAPP/Propane/LPG
 Connection Standard: CGA600
 Max Temperature: >3600°F (MAPP Gas)
 Soft Solder: Max. Φ6"
 Brazing:Max.Φ3"



FLUX-4

Active Range: 1000 ~ 1800°C
 Net Weight: 100G



CE certification

TUV certification



Testing:40/85/21
-40°C-85°C / coutinus using 21 days

ROHS certification

S2 anti-hazard classification



The Capacitor has advantages of low dissipation, high insulation resistance, good self-healing character, anti-striking current, strong over-carries capacity and steady electric performance, and rliable safety with inner anti-explosion device,etc. It is applied in air conditioning ,refrigerator,motor,compressor, it's helpful for motor's starring and running.

Ambient Temp.	(VAC) Rated Voltage	Range of Capacitance	Testing Voltage	Dissipation Factor	Operation Frequency
-40~85C	150~500	2~100	T-T:2Un/2S	Tan	50/60HZ
			T-C: 2200VAC/2S	0.02(100HZ)	

Model	Size	Model	Size	Model	Size	Model	Size	Model	Size
25UF	45*85	60UF	50*125	30+5UF	50*95	45+5UF	50*120	60+5UF	55*125
30UF	50*85	20+1.5UF	50*75	30+7.5UF	50*105	45+7.5UF	50*125	60+6UF	55*125
35UF	50*85	20+5UF	50*85	35+2UF	50*105	50+5UF	50*125	60+7.5UF	55*125
40UF	50*100	25+1.5UF	50*85	35+5UF	50*105	50+7.5UF	50*125	65+5UF	55*125
45UF	50*100	25+3UF	50*95	35+7.5UF	50*105	55+5UF	55*125	80+5UF	60*125
50UF	50*110	25+5UF	50*95	40+5UF	50*105	55+6UF	55*125	70+5UF	60*125
55UF	50*110	30+2UF	50*95	40+7.5UF	50*120	55+7.5UF	55*125	70+7.5UF	60*125



Square Shaded Pole motor/5W/10W/16W/18W/25W/34W

They are widely used in radiators, evaporators and other refrigeration equipments.



Technical Specification

Model	Voltage(V)	Frequency(Hz)	Current(A)	Input/Output(W)	Speed(rpm)
5W	220V	50/60Hz	0.20A	5-25W	1300/min
10W	220V	50/60Hz	0.25A	10-40W	1300/min
16W	220V	50/60Hz	0.45A	16-60W	1300/min
18W	220V	50/60Hz	0.50A	18-70W	1300/min
25W	220V	50/60Hz	0.70A	25-90W	1300/min
34W	220V	50/60Hz	0.85A	34-110W	1300/min

AC industrial axial with ball bearing cooling fan

High quality 110v 220v 120mm 12038 AC industrial axial cooling fan 120x120x38mm



Technical Specification

Model	Voltage(V)	Frequency(Hz)	Current(A)	Input/Output(W)	Speed(rpm)	Air flow
12038	220V	50/60Hz	0.14A	23W	2600/min	80-90CFM
17250	220V	50/60Hz	0.23A	35W	2500/min	160-170CFM

Refrigerant Gas



Refrigerant Gas



ECQ provides Refrigerant Gas with top quality. Wide range and timely delivery are our advantages.

The standard package method is disposable cylinder or can type. The recycled cylinder, ton cylinder etc are also available on request.

Custom packing and neutral packages are acceptable

Refrigerant gas in 301b disposable cylinder. Refrigerant gas in disposable can for auto-mobile a/c.

ITEM	Regular packaging	ODP	GWP	Molecular Weight	Boiling point °C	Critical Temperature	Critical Pressure Mpa	Purity %	Moisture Ppm	Acidity MMp	Vapor Residue Ppm
R-22	30lb/ 13.6kg	0.034	1700	86.47	-40.8	96.2	4.99	≤ 99.99	≤ 10	≤ 1	≤ 100
R-134A	30lb/ 13.6kg	0	1200	102.03	-26.1	101.1	4.05	≤ 99.99	≤ 10	≤ 1	≤ 100
R-404A	24lb/ 10.9kg	0	3800	97.6	-46.5	72.1	3.74	≤ 99.99	≤ 10	≤ 1	≤ 100
R-407C	25lb/ 11.3kg	0	1700	86.2	-43.8	87.3	4.63	≤ 99.99	≤ 10	≤ 1	≤ 100
R-410A	25lb/ 11.3kg	0	2000	72.58	-51.6	72.5	4.95	≤ 99.99	≤ 10	≤ 1	≤ 100
R-507	25lb/ 11.3kg	0	3900	98.86	-47.1	70.9	3.79	≤ 99.99	≤ 10	≤ 1	≤ 100
R-600A	11lb/ 5.0kg	0	3	58.12	-11.7	134.71	3.64	≤ 99.99	≤ 10	≤ 1	≤ 100
R-125	ISO Tank	0	3400	120.2	-48.1	66.2	3.63	≤ 99.99	≤ 10	≤ 1	≤ 100
R-141B	250kg	0.11	0.09	116.95	32.05	204.15	4.25	≤ 99.99	≤ 10	≤ 1	≤ 100
R-142B	30lb/ 13.6kg	0.043	2400	100.5	-9.8	136.45	4.15	≤ 99.99	≤ 10	≤ 1	≤ 100
R-152A	ISO Tank	0	120	66.05	-24	113.3	4.52	≤ 99.99	≤ 10	≤ 1	≤ 100
R-290	11lb/ 5.0kg	0	0.01	44.1	-42.07	96.67	4.25	≤ 99.99	≤ 10	≤ 1	≤ 100
R-32	ISO Tank	0	550	52.2	-51.7	78.25	5.81	≤ 99.99	≤ 10	≤ 1	≤ 100
R-406A	30lb/ 13.6kg	0.038	2060	89.86	-32.7	116.5	4.88	≤ 99.99	≤ 10	≤ 1	≤ 100
R-415B	30lb/ 13.6kg	0.009	530	70.2	-26.72	124	4.768	≤ 99.99	≤ 10	≤ 1	≤ 100
R-417A	25lb/ 11.3kg	0	-	106.75	-41.8	89.9	4.10	≤ 99.99	≤ 10	≤ 1	≤ 100



Refrigeration oil viscosity conversion table

Refrigeration oil	Universal viscosity	International standards ISO VG
3GS	150 SUS 100°F	ISO VG 32
4GS	300 SUS 100°F	ISO VG 56 (68)
5GS	525 SUS 100°F	ISO VG 100

MAPP gas

Features for mapp gas cylinder

1. Burning temperature: approach to 3600°F
2. The full burning time for one full bottle: nearly 2 hours and 40 mins
3. Scientific gas mix and high flame temperature, utmost burning performance and guaranteed short working times.
4. Increased user safety through improved cartridge valve.
5. Pressure(psig) 110 psig at temperature 20°C
6. CGA600 Connection
7. Portable for using and longer periods of use.

Widely used for below application

- 1)Cooking and Catering - Flaming, add color and texture to food, blistering a skinning, finishing foods for presentation and adding drama when serving.
- 2)Lighting BBQ's and fires.
- 3)Defrosting and thawing frozen water pipes plus other plumbing work.
- 4)Hobby and craftwork, model making. Soldering pipe joints. Paint stripping.



Package:
packed in disposable steel cylinder,
then packed in paper carton
12pcs/carton;1417CTNS=17004pcs
in 1*20ft container
Gross weight:11.5kgs/carton
Carton size:47*29*16CM

Type of refrigeration equipment	Gas	Type of compressor	Recommended refrigeration oil
Refrigerator	R12	Reciprocating type	1GS ~ 3GS
		Rotary Type	3GS
	R502	Rotary Type	3GS
		R134a	Energy-saving type
	Common type		SL-22S. 32S
	R600a	Energy-saving type	P9GS - AJ. 1GS - AJ. L5GS - AJ
Common type		2GS - AJ. 3GS - AJ	
Household Electric Appliances	R22	Reciprocating type	3GS
		Rotary Type	4GS
	R407C	Rotary Type	T - 68
R410A	Rotary Type	T - 68	
Central air-conditioning Various cold room	R22	Reciprocating type	3GS
		Rotary Type	4GS (5GS)
	R502	Centrifugal Type	4GS
		Scroll Type(High pressure)	4GS
	R12	Scroll Type(Low pressure)	3GS
R123	Centrifugal Type	4GS. SUNICE T-68	
Industrial refrigeration unit	General evaporation temperature above -40°C use 4GS, Evaporation temperature below -40°C use 3GS		
Industrial condensing unit	R717 (NH3)	Above -29 °C	4GS
		Below -29 °C	3GS
R134a, R404A R407C, R410A	Reciprocating type	SL - 32S	
	Rotary Type	T - 68	
	Centrifugal Type	T - 68	
Display freezer	R22	Reciprocating type	3GS, 4GS
		Rotary Type	4GS
R502	Reciprocating type	3GS, 4GS	
	Rotary Type	4GS	
Automobile air conditioner	R12	Rotary Swash plate Type	5GS
		Scroll Type	5GS
		Rotary Type	5GS
R134a		56	
Refrigerated truck Refrigerated ship	R22, R12		3GS~5GS
		R134a, R404A R407C, R410A	SL - 32S T - 68

*This table is only for reference, The specific choice according to the requirements of the compressor manufacturer.