

# 兵泉企業有限公司



**PINCHUAN CO. LTD**

Quality • Service • Protection

**Refrigeration Service Products And  
Components**

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## 徹底擺脫傳統壓力表的煩腦

-  每次使用前都要校正?
-  壓力指針辨示有視差?
-  壓力一過載表就壞掉?
-  測量數據要自己換算單位?

量程範圍: -76cmHg~800Psi

測量單位:MPa,kPa,bar,psi,kg/cm<sup>2</sup>,cmHg

面版尺寸: 50mm X 26mm(藍色背光) 精準度:0.1psi / 0.001Mpa

電池:AAA 四號電池 3顆 (續航力達一年) 按鍵材質:防水抗油耐壓矽膠

全冷媒對應:R32/R410a/R22/R134a/R404A/R600/R290.....共87種

## 意大利進口壓力傳感器

ITALY IMPORTS PRESSURE SENSOR

 ± 0.5% FS高精度顯示

 較小的零點漂移量

 超低綫性偏差

 ≥ 10 MPA ≥ 1400PSI破壞壓力



## 新款球閥型表組

### Ball VALVE 2 way Manifold Set



艾弗斯新款球閥型表組是針對R32/R410A高壓力冷媒推出的實用型表組，球閥構造大幅增加閥門的壽命，並且在操作高壓力冷媒時可做微量的調節流量，防止冷媒充填過量問題。在秉承艾弗斯產品耐用的基礎上，產品皆通過SGS校正標準，準確度達±0.2%以內(RptNo: ECAC0033315)。為冷凍空調市場提供了無可挑剔的選擇。

- 堅固的本體：  
整體鋁製鍛造，磨砂塗層，更美觀耐用

- 壓力表防震套  
有效吸收外力撞擊

- 鋁合金高低壓旋鈕  
陽極噴砂處理堅固耐用

- 優質壓力軟管選擇：  
長度 900mm  
1500mm  
1800mm  
\*另可訂作



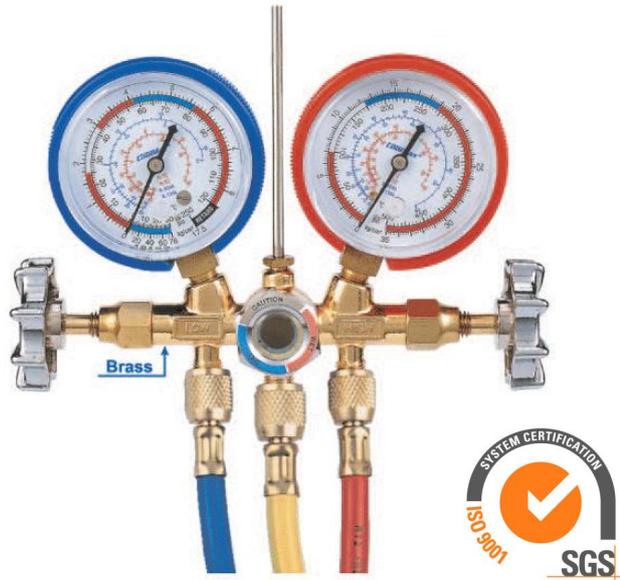
- 68mm 錶盤直徑：  
可清晰讀取資料

- 球閥式手輪：  
僅旋轉 90° 省力耐用

- 暫壓記憶指針：  
方便記憶暫壓壓力

- 適用冷媒：  
R32/R410a  
(另有)  
R22/R404  
R134a/R12

產品編號	產品規格	備註
AF-260GR	R22,R134a,R404/1500mm HOSE	紙盒包裝
AF-260GR-K	R22,R134a,R404/1500mm HOSE	塑盒包裝
AF-260GR-R32	R32,R410A/1500mm HOSE	紙盒包裝
AF-260GR-R32-K	R32,R410A/1500mm HOSE	塑盒包裝



有視窗銅製雙表組

- AF-536G 36" (90cm)
- AF-560G 60" (150cm)
- AF-572G 72" (180cm)

接頭規格: 1/4" SAE

適用冷媒: R12、R22、R134a、R404a

採用高品質 C3771 合金銅一體成型表架

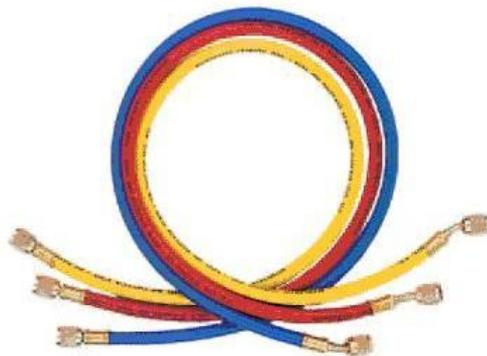
加氣管工作壓力為 600PSI, 最大爆破力為 3000PSI

修理包採 100% 鐵氟龍製成.

通過 SGS 校正標準, 準確度達正負 0.2% 內

RptNo: ECAC0033315

**100% 台灣製造**  
**100% 品質檢驗**



R22 Charging HOSE

AF-336RYB 36" (90cm)

AF-360RYB 60" (150cm)

AF-372RYB 72" (180cm)

接頭規格: 1/4" SAE

適用冷媒: R12、R22、R134a、R404a

加氣管工作壓力為 600PSI, 最大爆破力為 3000PSI

修理包採 100% 鐵氟龍製成.



加氣管接頭皆採 20mm 厚螺母製成

內為鎖牙頂針不易脫落

修理包為 100% 鐵氟龍

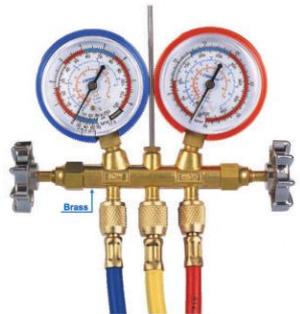


加氣管採用三層防護

**Manifold Gauge Set**
**Item No.**
**Contents**


R32/R410a 有視窗銅雙表組  
 AF-536G- R32 36" (90cm)  
 AF-560G- R32 60" (150cm)  
 AF-572G- R32 72" (180cm)

接頭規格: 1/4" SAE 、5/16" SAE  
 適用冷媒: R32/R410a  
 採用高品質 C3771 合金銅一體成型表架  
 加氣管工作壓力為 800PSI, 最大爆破力為  
 4000PSI, 修理包採 100%鐵氟龍製成.



R22 無視窗銅雙表組  
 AF-636G 36" (90cm)  
 AF-660G 60" (150cm)  
 AF-672G 72" (180cm)

接頭規格: 1/4" SAE  
 適用冷媒: R12、R22、R134a、R404a  
 採用高品質 C3771 合金銅一體成型表架  
 加氣管工作壓力為 600PSI, 最大爆破力為  
 3000PSI, 修理包採 100%鐵氟龍製成.



R32/R410a 無視窗銅雙表組  
 AF-636G-R32 36" (90cm)  
 AF-660G-R32 60" (150cm)  
 AF-672G-R32 72" (180cm)

接頭規格: 1/4" SAE 、5/16" SAE  
 適用冷媒: R32/R410a  
 採用高品質 C3771 合金銅一體成型表架  
 加氣管工作壓力為 800PSI, 最大爆破力為  
 4000PSI, 修理包採 100%鐵氟龍製成.



R22 有視窗鋁雙表組  
 AF-136G 36" (90cm)  
 AF-160G 60" (150cm)  
 AF-172G 72" (180cm)

接頭規格: 1/4" SAE  
 適用冷媒: R12、R22、R134a、R404a  
 採用高品質一體成型表架  
 加氣管工作壓力為 600PSI, 最大爆破力為  
 3000PSI, 修理包採 100%鐵氟龍製成.



R32/R410a 有視窗鋁雙表組  
 AF-136G- R32 36" (90cm)  
 AF-160G- R32 60" (150cm)  
 AF-172G- R32 72" (180cm)

接頭規格: 1/4" SAE 、5/16" SAE  
 適用冷媒: R32/R410a  
 採用高品質一體成型表架  
 加氣管工作壓力為 800PSI, 最大爆破力為  
 4000PSI, 修理包採 100%鐵氟龍製成.

Manifold Gauge Set	Item No.	Contents
	<p>R410A Charging HOSE            AF-336RYB-410 (90cm)            AF-360RYB-410 (150cm)            AF-372RYB-410 (180cm)</p>	<p>接頭規格: 1/4" SAE、5/16" SAE            適用冷媒: R410a            加氣管工作壓力為 800PSI, 最大爆破力為 4000PSI, 採 20mm 合金銅螺母            修理包採 100%鐵氟龍製成.</p>
	<p>R22 鋁單表閥組            AF-467-250-5 (Low)            AF-467-500-5 (HIGH)</p>	<p>接頭規格: 1/4" SAE            適用冷媒: R12、R22、R134a、R404a            附 2 條加氣管工作壓力為 600PSI, 最大爆破力為 3000PSI, 採 20mm 合金銅螺母            修理包採 100%鐵氟龍製成.</p>
	<p>R32/R410a 鋁單表閥組            AF-467-500-R32 (Low)            AF-467-800-R32 (HIGH)</p>	<p>接頭規格: 1/4" SAE、5/16" SAE            適用冷媒: R32/R410a            附 2 條加氣管工作壓力為 800PSI, 最大爆破力為 4000PSI, 採 20mm 合金銅螺母            修理包採 100%鐵氟龍製成.</p>
	<p>R22 銅單表閥組            AF-466G</p>	<p>接頭規格: 1/4" SAE            適用冷媒: R12、R22、R134a、R404a            採用高品質 C3771 合金銅一體成型表架            加氣管工作壓力為 600PSI, 最大爆破力為 3000PSI</p>
	<p>R410a 銅單表閥組            AF-466G-410</p>	<p>接頭規格: 1/4" SAE、5/16" SAE            適用冷媒: R410a            採用高品質 C3771 合金銅一體成型表架</p>

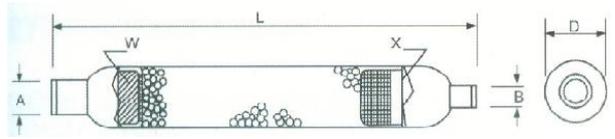
Refrigerant Gauges	Item No.	Contents
	<p>R32/R410a 冷媒低壓力表 AF-500-R32</p>	<p>Pc cover low side 0 vacuum to 500psi 1/8"NPT connection,2-3/4"dia Blue color ball crust. Scale for R32/R410a, °C or °F, PSI, KG.</p>
	<p>R32/R410a 冷媒高壓力表 AF-800-R32-M</p>	<p>Pc cover low side 0 vacuum to 800psi 1/8"NPT connection,2-3/4"dia Red color ball crust. Scale for R3R410a, °C or °F, PSI, KG.</p>
	<p>R22 冷媒低壓力表 AF-250-C</p>	<p>Pc cover low side -30 vacuum to 250psi 1/8"NPT connection,2-3/4"dia Blue color ball crust. Scale for R12、R22、R134a、R404a, °C or °F, PSI, KG.</p>
	<p>R22 冷媒高壓力表 AF-500-C</p>	<p>Pc cover low side 0 vacuum to 500psi 1/8"NPT connection,2-3/4"dia Red color ball crust. Scale for R12、R22、R134a、R404a, °C or °F, PSI, KG.</p>
	<p>加氣管修理包 AF-79583 AF-79583-410</p>	<p>NBR,CR,HNBR or Teflon gasket For 1/4"SAE,5/16"SAE HOSE</p>

Refrigerant Gauges	Item No.	Contents
	<p>埋入式低壓充油表 For R22 CT-250GF</p> <p>埋入式高壓充油表 For R22 CT-500GF</p>	<p>Low side -30 vacuum to 250psi HIGH side 0 vacuum to 500psi 1/4"SAE connection,2-3/4" dia Scale for R12、R22、R134a,℃ or°F,PSI,KG. Stainless steel frame.</p>
	<p>指針式真空壓力表 AF-VG100</p>	<p>表徑採用 80mm side 0 vacuum to -76CmHg&amp;-30InHg 1/8"PT connection</p>
	<p>指針式專業暫壓表 AF-NOG1000</p>	<p>表徑採用 80mm side 0 to 1000psi &amp; 70Kg 1/8"PT connection (內含冷媒暫壓範圍數值)</p>
	<p>VRV 專用簡易型暫壓表 FC-800M-NOG</p>	<p>HIGH side 0 to 800psi 1/4"SAE connection, *使用無頂針端加氣管充填 可防止拆卸軟管時氮氣外漏</p>
	<p>水壓表 RG-10KG RG-15KG</p>	<p>3/8"PT connection For 10kg &amp; 15kg</p>

## TDK 冷凍/冰箱 乾燥劑

-包裝全採鋁鉚真空包裝-

### REFRIGERATOR DRIER



ITEM NO.	TUBE O.D.IN	gr.
IMP-SM2/50S	1/8"×3/8"	50



IMP-SM2/50S

### DRIER

ITEM NO.	TUBE O.D.IN	gr.
IMP-SM2/13S	1/8"×1/4"	13
IMP-SM2/13D	1/8"×1/4"×2"	13

IMP-SM2/13S

IMP-SM2/13D



- CT-052 1/4"
- CT-083 3/8"
- CT-163 3/8"
- CT-164 1/2"
- CT-165 5/8"



- FT-6 1/4"
- FT-10L 3/8"
- FT-10S 3/8"
- FT-13 1/2"
- FT-16 5/8"

High quality welded low carbon steel.  
Double layer filtration

## Enguang 冷凍庫排水電熱線

★新型專利第 206571 號

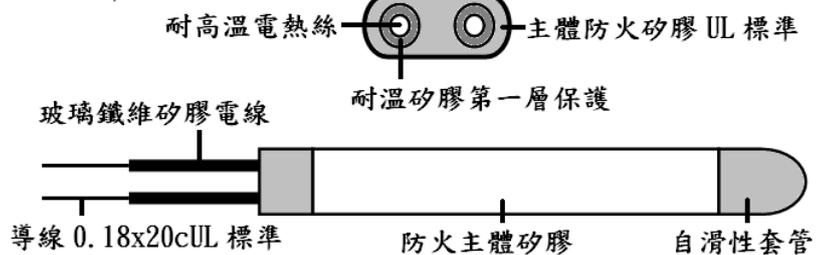
(依美國安規標準製造)

完全防水、壽命最長



實品圖

斷面



規格	0.5 米	0.5 米	1 米	1.5 米	2 米	3 米
	110V	220V	220V	220V	220V	220V
	20W	20W	40W	60W	80W	120W

## 過濾器

ITEM NO.	TUBE O.D.IN	gr.
CT-101	3/8"×3/8"	
CT-102	3/8"×1/8"×2	
CT-106	1/2"×1/2"	
CT-105	5/8"×5/8"	
CT-103	3/4"×3/4"	

CT-101



CT-102



CT-106



CT-105

CT-103

銅接頭製品 (所有銅接頭皆符合日本 C3604 材質冷抽銅製做)



High quality C3771 brass fittings

N-06×04	3/8" × 1/4"
N-08×06	1/2" × 3/8"
N-10×08	5/8" × 1/2"
N-12×10	3/4" × 5/8"

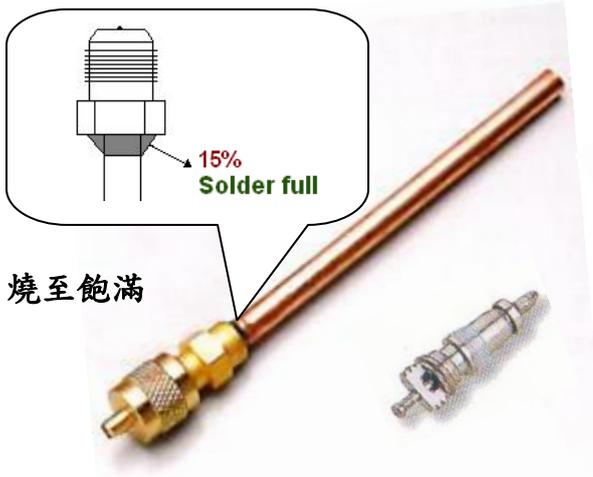
High quality C3771 brass fittings

SN2-04	1/4"
SN2-05	5/16"
SN2-06	3/8"
SN2-08	1/2"
SN2-10	5/8"
SN2-12	3/4"



High quality C3771 brass fittings

U-04	1/4"
U-05	5/16"
U-06	3/8"
U-08	1/2"
U-10	5/8"
U-12	3/4"



燒至飽滿

充灌閥

採 10cm 銅管焊接而成

焊接點燒至飽滿防止漏氣

氣門蕊為 100% 鐵氟龍材質

SU-02	1/8" O.D.tubing
SU-03	3/16" O.D.tubing
SU-04	1/4" O.D.tubing
SU-06	3/8" O.D.tubing



High quality C3771 brass fittings  
Special design for R410a

N-04C	1/4"
N-06C	3/8"
N-08C	1/2"
N-10C	5/8"
N-12C	3/4"



Item No. Tube O.D.IN

RU-04×06	1/4" × 3/8"
RU-06×04	3/8" × 1/4"
RU-08×06	1/2" × 3/8"
RU-06×08	3/8" × 1/2"
RU-08×10	1/2" × 5/8"
RU-10×08	5/8" × 1/2"
RU-10×12	5/8" × 3/4"
RU-12×10	3/4" × 5/8"



Item No.	Tube O.D.IN
CA-04x12	1/4" x 3/4"
CA-04x10	1/4" x 5/8"
CA-05x04	5/16" x 1/4"
CA-04x05	1/4" x 5/16"

Item No.	Tube O.D.IN
MC-04x02	1/4" x 1/8"
MC-04x04	1/4" x 1/4"
MC-04x06	1/4" x 3/8"
MC-06x04	3/8" x 1/4"
MC-08x06	1/2" x 3/8"
MC-06x08	3/8" x 1/2"
MC-08x10	1/2" x 5/8"
MC-10x08	5/8" x 1/2"
MC-10x12	5/8" x 3/4"
MC-12x10	3/4" x 5/8"



Item No.	Tube O.D.IN
FSU-04	1/2"
FSU-06	3/8"
FSU-08	1/2"
FSU-10	5/8"
FSU-12	3/4"



Item No.	Tube O.D.IN
UE-04	1/2"
UE-06	3/8"
UE-08	1/2"
UE-10	5/8"
UE-12	3/4"

Item No.	Tube O.D.IN
UT-04	1/2"
UT-06	3/8"
UT-08	1/2"
UT-10	5/8"
UT-12	3/4"



Item No.	Tube O.D.IN
ME-04x02	1/4" x 1/8PT
ME-04x04	1/4" x 1/4PT



R410a 轉換頭 (活動式)  
CA-04x05-410  
1/4" SAE x 5/16" SAE



Item No.	Tube O.D.IN
R-04x06	1/4" x 3/8"
R-06x04	3/8" x 1/4"
R-08x06	1/2" x 3/8"
R-06x08	3/8" x 1/2"
R-08x10	1/2" x 5/8"
R-10x08	5/8" x 1/2"
R-10x12	5/8" x 3/4"
R-12x10	3/4" x 5/8"

### SPLIT AIR-CONDITIONER VALVE



- CT-602-04 1/4"
- CT-603-06 3/8"
- CT-604-08 1/2"
- CT-605-10 5/8"
- CT-605-12 3/4"
- CT-605-14 7/8"



- CT-627-04x02  
1/4" x 1/8" NPT
- CT-627-04x04  
1/4" x 1/4" NPT
- CT-629-05x02  
5/16" x 1/8 NPT



CT-7000  
For 1/8", 3/16", 1/4", 5/16", 3/8", 1/2"  
O.D.tubing with valve core.



CT-628-04  
1/4" x 1/4" flare with valve core



- | Item No. | Tube O.D.IN        |
|----------|--------------------|
| RV-04x04 | 1/4" SAE x 1/4" PT |
| RV-04x06 | 1/4" SAE x 3/8" PT |
| RV-06x06 | 3/8" SAE x 3/8" PT |



### 4-WAY REVERSING VALVES

ITEM NO.	Port Size (mm)	Allowable Substance	Nominal Capacity (KW)	Connection Soldering ODF		Pressure Differential		Max. Operating Pressure (MPa)	Max. Fluid Temperature (°C)	Voltage (V)	Inside Leakage (ml/min)	Allowable Power (HP)
				Charge (in.)	Discharge (in.)	Max. (MPa)	Max. (MPa)					
WRV-05	8	R22 R134a R407C	4.7	5/16"	3/8"	22.5	0.25	2.9	-20°C +120°C	AC220 OR AC110	<1000	3/4-1.5
WRV-09	11.1		9	3/8"	1/2"		0.25				<1500	3/4-2
WRV-11	11.5		11	1/2"	5/8"		0.34				<2000	2-4
WRV-20	15.5		20	1/2"	3/4"		0.34				<4000	3-8



Item No.	Tube O.D.IN
CN-04	1/4"
CN-06	3/8"
CN-08	1/2"
CN-10	5/8"
CN-12	3/4"



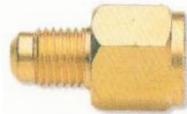
Item No.	Tube O.D.IN
P-04	1/4"
P-06	3/8"
P-08	1/2"
P-10	5/8"
P-12	3/4"



Item No.	Tube O.D.IN
VCR-04	1/4"



Item No.	Tube O.D.IN
CT-640-04	1/4"



**CB-04×05**  
1/2" flare male×1/2" ACME female



**CB-05×04**  
1/2" ACME male×1/4" flare female



**For R134a Adapter**  
1/4" M.F. (7/16-20UNF) ×M14×1.5 with O-ring



Item No.	Tube O.D.IN
FP-02	1/8", 76°C
FP-04	1/4", 76°C
FP-06	3/8", 76°C
FP-02-1	1/8", 100°C
FP-04-1	1/4", 100°C
FP-06-1	3/8", 100°C



Item No.	Tube O.D.IN
FC-04×02	1/4" SAE×1/8" PT
FC-04×04	1/4" SAE×1/4" PT
FC-04×06	1/4" SAE×3/8" PT



**CT-672-04×02**  
1/4" ×1/4" 1/8" NPT  
**CT-672-04×04**  
1/4" ×1/4" 1/4" NPT



**CT-682-04×04**  
1/4" ×1/4" ×1/4"  
**CT-682-04×02**  
1/4" ×1/4" ×1/8" NPT

**銅管切刀 TUBE CUTTERS**

**CT-105**



For 1/8" ~ 1-1/4" (3-33mm) O.D. tubing  
Aluminum alloy body

**CT-107**



For 1/4" ~ 2" (6-51mm) O.D. tubing  
Aluminum alloy body

**CT-274**



For 1/8" ~ 1-1/8" (3-28mm) O.D. tubing  
Aluminum alloy body

**CT-312**



For 1/4" ~ 1-5/8" (6-42mm) O.D. tubing  
Aluminum alloy body

**CT-206**



For 3/8" ~ 2-5/8" O.D. tubing  
Aluminum alloy body

**CT-127**



For 1/8" ~ 5/8" (3-16mm) O.D. tubing  
Aluminum alloy body



**Cutting Blade**

CT-127B/CT-206B  
CT-274B/312B  
CT-105B/107B  
SK SII Special Material  
25PCS Per Color Card

**彎管器**

**Curving Pliers**



**CT-999**

FOR SIZE : 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8"



**CT-369**  
3-in-1 90° TUBE BENDER  
OR 1/4", 5/16" & 3/8", size O.D. tubing

**CT-368**  
3-in-1 180° TUBE BENDER  
OR 1/4", 5/16" & 3/8", size O.D. tubing

**手動多功能漲管器**

**NO. CT-1000N**

FOR SIZE: 1/4", 3/8", 1/2", 5/8", 3/4", 7/8", 1"  
and 1-1/8" O.D.

可另購 1-3/8" & 1-5/8" O.D.



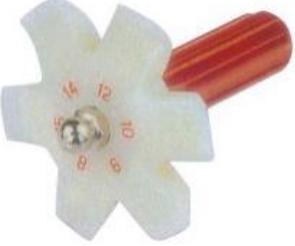
CT-364A-04 1/4"  
CT-364A-05 5/16"  
CT-364A-06 3/8"  
CT-364A-08 1/2"

CT-364A-10 5/8"  
CT-364A-12 3/4"  
CT-364A-14 7/8"

**油壓型漲管器 NO. CT-3000**

FOR SIZE: 3/8", 1/2", 5/8", 3/4", 7/8", 1"  
and 1-1/8" O.D.



Flaring Tools	Item No.	Size OF The Bar
	45° 偏斜擴管工具 SP-806A(For R22) SP-808A(For R410)	CT-806A (1/4", 5/16, 3/8", 1/2", 5/8" & 3/4" O.D.tubing)  CT-808A (3/16", 1/4", 5/16, 3/8", 1/2", 5/8" & 3/4" O.D.tubing)
	擴管工具  CT-275L	The 5 swage adapters can swage sizes of tubing from 3/16" to 3/4" (6mm-18mm) and help to better tubings' connection.
	絞刀 CT-208 (塑膠)  CT-209 (鐵)	Plastic body, 3/16" ~ 1-1/2" O.D.tubing. Reams both inside and Outside Edges of Tubing
	散熱刷(塑膠)  CT-351	Fin Straightener For : 8" 9" 10" 12" 14" 15" spacing per inch.
	散熱刷(不銹鋼)  CT-352	Fin straightener stainless steel. cleaning & straightening evaporator fin

Service Tools	Item No.	Tube O.D.IN
	沖頭組 <b>CT-193-S</b>	for 1/4",5/16",3/8",1/2",5/8",O.D.tubing.
	多功能沖頭 <b>CM-95-S</b>  <b>CM-96-S</b>	<b>CM-95-S for</b> <b>1/4",5/16",3/8",1/2",5/8",O.D.tubing</b>  <b>CM-96-S for</b> <b>1/4",5/16",3/8",1/2",5/8",3/4",O.D.tubing</b>
	毛細管剪刀 <b>CM-128L</b>	<b>Cuts all sizes of capillary tubes without collapsing nor swaging the tubes.</b>
	封口鉗 <b>7"Pinch- off plier</b> <b>CM-201</b>	<b>7"Pinch off plier can pinch off copper tubing up to 3/4"(19mm) instantly.</b>
	扭力扳手  <b>AF-4104 (R410A)</b> <b>AF-4106 (R22&amp;R410A)</b>	<b>17mm × 180kg/cm for R22,R410A</b> <b>20mm × 420kg/cm for R22,R410A</b> <b>24mm × 550kg/cm for R22</b> <b>27mm × 650kg/cm for R22</b> <b>26mm × 550kg/cm for R410A</b> <b>29mm × 650kg/cm for R410A</b>

Item No.

Tube O.D.IN



針閥  
CH-341

Line Piercing Valve Fits 3/16" thru 3/8" O.D. and has 1/4" flare connection for charging hose



開瓶器  
CH-338

1/4" flare outlet valve bottom female thread fitted with 12mm x 1.5 can thread.

CH-339

10mm flare outlet valve bottom female thread fitted with 14mm x 1.5 can thread.



閥瓶器  
CH-340

Can Tap Valve Steel body, zinc handle, Clamp type fits for flat and every kind connection thread refrigerant can.



CT-102-04

1/4" x 30cm

CT-102-06

3/8" x 30cm

CT-102-08

1/2" x 30cm

CT-102-10

5/8" x 30cm

CT-102-12

3/4" x 30cm



CT-102-06-1

3/8" x 300cm

CT-102-08-1

1/2" x 300cm

CT-102-10-1

5/8" x 300cm

CT-102-12-1

3/4" x 300cm

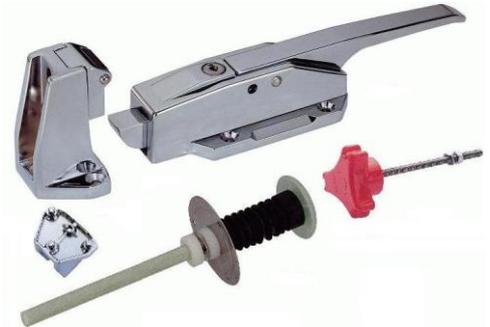
	Item No.	Tube O.D.IN
	<p>Capillary Tube CT-900M</p>	<p>1/8" capillary tube Two 1/4" flared tube with two 1/4" copper nuts. Length is 90cm total. Double lap flare adapters. Shockproof</p>
	<p>毛細管 CT-900M-1 CT-900M-3</p>	<p>1/4" ×2cm 1/4" ×4cm</p>
	<p>視窗 (鎖牙型) CT-800-04 CT-800-06 CT-800-08 CT-800-10 CT-800-12</p>	<p>Enhanced sight glass is melted with the steel body. With a humidity testing paper inside the sight glass different color indicates Dry / Caution / Wet status.</p>
	<p>視窗 (焊接型) CT-801-04S CT-801-06S CT-801-08S CT-801-10S CT-801-12S</p>	<p>Enhanced sight glass is melted with the steel body. With a humidity testing paper inside the sight glass different color indicates Dry / Caution / Wet status.</p>
	<p>Assembly CT-135</p>	<p>Charging assembly Assembly of various automotive filling fittings and hose.</p>

	Item No.	Tube O.D.IN
	手動凡而 (焊接型) CT-S-04 CT-S-06 CT-S-08 CT-S-10 CT-S-12	Standard flux, not easy to be jammed. Forged flare is available on request.
	手動凡而 (鎖牙型) CT-D-04 CT-D-06 CT-D-08 CT-D-10 CT-D-12	Standard flux, not easy to be jammed. Forged flare is available on request.
	CT-122  CT-123	CT-122 for 4 size : 1/4", 3/8", 3/16, 5/16"  CT-123 for 4 size : 1/4", 3/16", 9/16", 1/2"
	L 型溫度計 PC-083	Temperature Range: -10/50°C
	筆型溫度計 CH-1005C	Temperature Range: -40/70°C

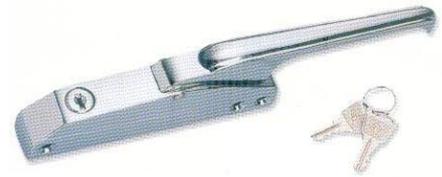
CT-1178



CM-1178L-E3



Material: High pressure die-cast zinc.  
 Finish: Highly polished chrome plated.  
 Packing: 1 body and strike per box. Then 12 boxes per carton.  
 Offset: Adjustable height from 45mm to 70mm.  
 Action: Door of big or medium refrigerator.  
 Set include CT-1100 inside release handle.



CT-1200B

Material: High pressure die-cast zinc.  
 Finish: Highly polished chrome plated.  
 Packing: 1 body and strike per box. Then 50 boxes per carton.  
 Offset: Standard strike adjustable from 18mm to 22mm.  
 Door of big or medium refrigerator.

CT-1300B

CT-1300B & CT-1400B

Material: High pressure die-cast zinc.  
 Finish: Highly polished chrome plated.  
 Packing: 50 pcs per carton.  
 Offset: Adjustable height from 18mm to 32mm.  
 Action: Door of small refrigerator.



CT-1400B

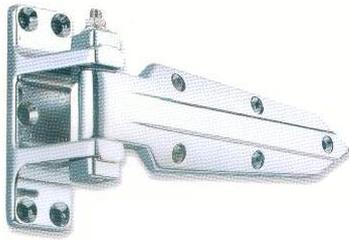


CT-1500

Material: High pressure die-cast zinc.  
 Finish: Highly polished chrome plated.  
 Packing: 50pcs per carton.  
 Installations: Tapped for 6.0mm screw.  
 Action: Home or commercial refrigerator handle.

**CT-1470**

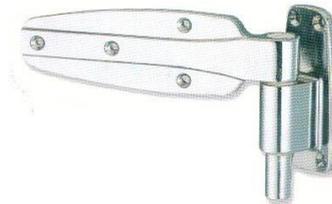
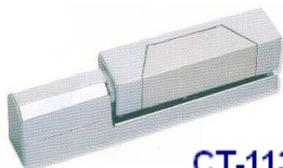
**Material:** High pressure die-cast zinc.  
**Finish:** Highly polished chrome plated.  
**Packing:** 10 pcs per carton.  
**Offset:** Adjustable height from 40mm to 70mm.  
**Action:** Door of big refrigerator.  
**Speciality:** Same as CT-1450

**CT-1470****CT-1450 & CT-1460****CT-1450 & CT-1460**

**Material:** High pressure die-cast zinc.  
**Finish:** Highly polished chrome plated.  
**Packing:** 15 pcs per carton.  
**Offset:** Adjustable height  
CT-1450 from 32mm to 50mm  
CT-1460 from 32mm to 60mm  
**Action:** Door of medium refrigerator.  
**Speciality:** Can be used for left or right door.

**CT-1238S**

**Material:** High pressure die-cast zinc.  
**Finish:** Highly polished chrome plated.  
**Packing:** 20 pcs per carton.  
**Action:** Door of medium or small refrigerator.  
**Speciality:** Automatic close within 120° angle or stay  
Open beyond 120° angle 38mm height,he.

**CT-1238S****CT-1132**

**Material:** High pressure die-cast zinc.  
**Finish:** Highly polished chrome plated.  
**Packing:** 50 pcs per carton.  
**Action:** Light Door of big or medium refrigerator.  
**Speciality:** Self-closing, cam-lift hing of left or right doors,  
automatic Close within 95° angle or stay open beyond 120° angle.

**CT-1332**

**Material:** High pressure die-cast zinc.  
**Finish:** Highly polished chrome plated.  
**Packing:** 50 pcs per carton.  
**Speciality:** Install for left or right door.  
**Action:** Various doors.

**CT-1332**

## A & F® 真空幫浦



內建真空逆止功能  
不需另外加裝(部份除外)



全系列採用  
美國殼牌幫浦油

TYPE	Vacuum Pump						
Model	AFVAC1S018	AFVAC1S030	AFVAC1S050	AFVAC1S070	AFVAC1D050	AFVAC1D070	AFVAC1D090
Free Air Displacement	1.8CFM	3CFM	5CFM	7CFM	5CFM	7CFM	9CFM
Number of Stages	1	1	1	1	2	2	2
Ultimate Vacuum	5Pa	5Pa	5Pa	5Pa	25Microns	25Microns	25Microns
Flow Rate(L/min)	53L/min	87L/min	145L/min	203L/min	145L/min	203L/min	261L/min
Rotating Speed(r/min)	1725	1725	1725	1725	1725	1725	1725
Check Valve	YES	YES	YES	YES	YES	NO	NO
Motor	1/4HP	1/4HP	1/3HP	1/2HP	1/2HP	3/4HP	1HP

### 真空泵浦逆止閥

NO.AF-901  
1/4"SAE×1/4"SAE



### 美國原裝 JB 真空油(1L)

NO.DVO-12

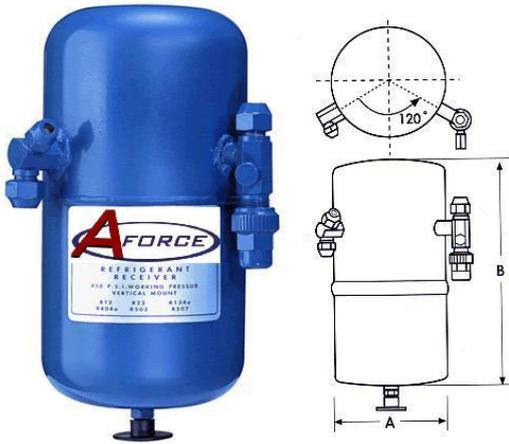


### 安全洩壓閥(關斷閥)

NO.RCV-04  
1/4"SAE×1/4"SAE  
NO.RCV-05  
5/16"SAE×5/16"SAE



Made in USA



ITEM NUMBER	尺寸(英寸)		出入口尺寸		冷煤容量		
	DIAA	B	入口	出口	R-134a	R-22	R-404a/R-507
CR-101	3.35	7.87	3/8	1/4	2.5	2.40	2.50
CR-102	5.00	10.24	3/8	3/8	6.10	5.80	6.00
CR-103	5.00	11.42	3/8	3/8	7.00	6.70	6.80
CR-104	6.00	13.78	1/2	1/2	10.00	9.50	9.80
CR-105	7.00	16.15	5/8	5/8	14.00	13.20	13.50
CR-106	6.50	23.6	3/4	3/4	17.64	16.63	17.01
CR-107	6.50	27.56	7/8	7/8	20.58	19.40	25.00

歡迎特殊規格定製

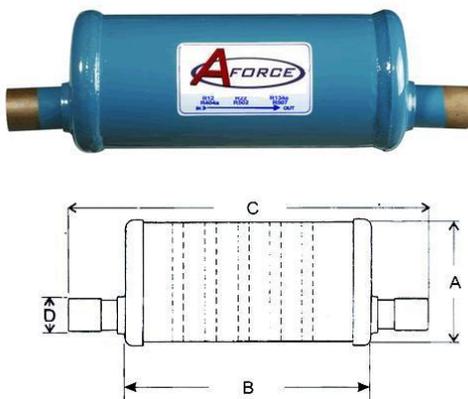
高壓儲液器



ITEM NUMBER	DIMENSIONS-INCHES				REFRIGERANT HOLDING CAP			
	SIZE CONN O.D.S	DIA A	B	C	D	R-134a	R-22	R-404a R-507 (LBS,0°F SAT)
RA-204	1/2	4	8.47	1.38	2.08	3.5	3.3	3.4
RA-205S	5/8	4	8.47	1.38	2.08	3.5	3.3	3.4
RA-205	5/8	4	10.83	1.38	2.12	4.4	4.0	4.2
RA-206	3/4	5.5	10.24	1.58	3.11	6.1	6.8	6.2
RA-207S	7/8	5.5	10.24	1.58	3.11	6.1	6.8	6.2
RA-207	7/8	5.5	12.60	1.58	3.19	9.8	9.0	9.3
RA-208	1-1/8	6.5	15.75	1.96	3.11	14.2	13.3	13.7
RA-209	1-3/8	6.5	20.87	2.16	3.31	21.8	20.5	21.2
RA-210	1-5/8	6.5	22.84	2.36	3.23	23.8	22.64	23.1

歡迎特殊規格定製

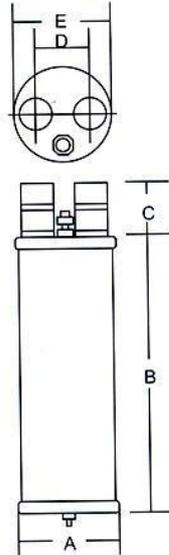
低壓儲液器



ITEM NUMBER	FLOW CAPACITY TONS <sup>①</sup>	DIMENSIONS-INCHES			
		DIA A	B	C	D
CM-2203	2	2	5.47	7.36	3/8"
CM-2204	3		5.47	7.36	1/2"
CM-2205	5		5.47	7.36	5/8"
CM-2305	5	3	6.30	7.48	5/8"
CM-2307	7 1/2-10		8.27	11.42	7/8"
CM-2311	10-15	4	10.24	13.38	1-1/8
CM-2411	10-15		9.65	13.19	1-1/8
CM-2413	10-25		10.83	14.76	1-3/8
CM-2415	25-50		14.76	19.09	1-5/8

歡迎特殊規格定製

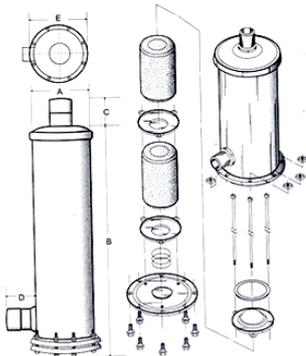
消音器



DIMENSIONS-INCHES							
ITEM NUMBER	SIZE CONN O.D.S	DIA A	B	C	D	E	
S-5200	5201S	1/2	4	8.46	1.19	1.89	4.25
	5201	1/2		9.64	1.18	1.89	4.25
	5202	5/8		13.38	1.38	1.89	4.25
	5203	7/8		16.34	1.58	1.89	4.25
	5204	1-1/8		17.52	1.77	1.89	4.25
	5205	1-3/8		18.70	1.97	1.89	4.25

歡迎特殊規格定製

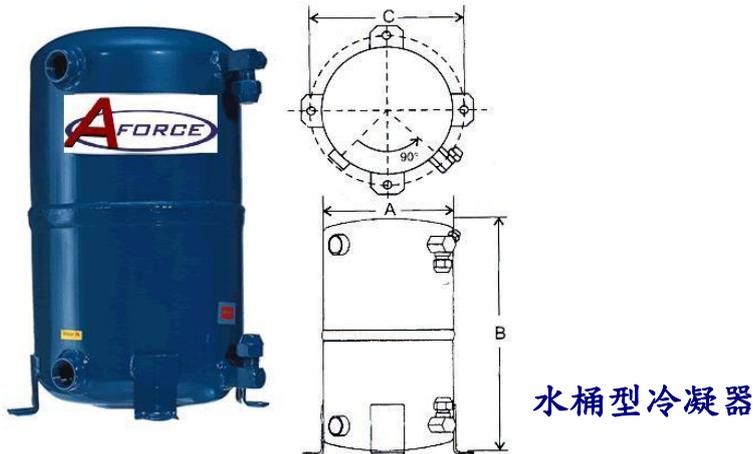
油分離器



ITEM NUMBER	SIZE CONN O.D.S	DIMENSIONS-INCHES				
		DIA A	B	C	D	E
CD-1100	5/8	5	7.88	1.38	1.58	6.10
CD-1101	3/4		7.88	1.58	1.58	
CD-1102	7/8		7.88	1.58	1.58	
CD-1103	1-1/8		7.88	1.77	1.77	
CD-2202	7/8		13.78	1.58	1.58	
CD-2203	1-1/8		13.78	1.77	1.77	
CD-2204	1-3/8		13.78	1.97	1.97	
CD-2205	1-5/8		13.78	1.97	1.97	
CD-2206	2-1/8		13.78	2.40	2.40	
CD-3303	1-1/8		19.30	1.77	1.77	
CD-3304	1-3/8		19.30	1.97	1.97	
CD-3305	1-5/8		19.30	1.97	1.97	
CD-3306	2-1/8		19.30	2.40	2.40	
CD-4404	1-3/8		24.80	1.97	1.97	
CD-4405	1-5/8		24.80	1.97	1.97	
CD-4406	2-1/8		24.80	2.40	2.40	

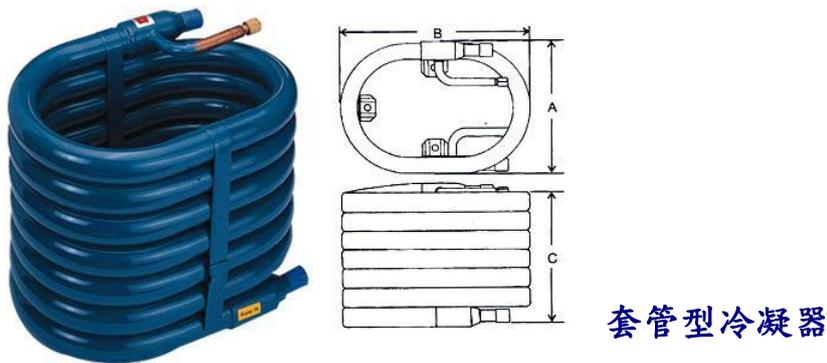
歡迎特殊規格定製

乾燥筒



ITEM NUMBER	FLOW CAPACITY TONS	COPPER TUBING CONNECTIONS		DIA A	B	C	FLOW CAPACITY TONS
		REFRIGERANT	WATER				
		TUBE SIZE IN/OUT	TUBE SIZE IN/OUT				
ST-6101	1	3/8"SAE	1/2"FPS	6"	10.83	7.32	3/4"ODX72"
ST-6102	2	3/8"SAE	1/2"FPS	6"	12.29	7.32	3/4"ODX118"
ST-6103	3	1/2"SAE	3/4"FPS	6"	14.18	9.09	7/8"ODX175"
ST-6105	5	5/8"SAE	1"FPS	8.5"	20.08	9.65	7/8"ODX348"

歡迎特殊規格定製



ITEM NUMBER	FLOW CAPACITY TONS	COPPER TUBING CONNECTIONS		DIMENSIONS-INCHES			
		REFRIGERANT	WATER	DIA A	B	C	FLOW CAPACITY TONS
		TUBE SIZE IN/OUT	TUBE SIZE IN/OUT				
DT-5201	1	1/2"OD	1/2"OD	8	9.5	6.75	3/4"ODX132"
DT-5202	2	1/2"OD	1/2"OD	8	11.25	9.5	3/4"ODX138"
DT-5203	3	1/2"OD	1/2"OD	9.5	12.5	11.5	7/8"ODX175"
DT-5205	5	5/8"OD	1"OD	11	17.25	14.5	7/8"ODX348"

歡迎特殊規格定製

## 日本進口偏斜擴管工具



- ★ TF-456WH 迫夾採用強力彈簧，可增加使用壽命!(與 TF-455WN 比較)
- ★ 能對應 6 分 1.2mm 厚度銅管! 操作小尺寸更為省力!
- ★ 如何辨識 TF-456WH: 迫夾本體有套兩塑環(紅色和粉紅色)為 R410A 專用迫夾。  
\*套一塑環(粉紅色)為 R22 專用迫夾

FLARING TOOL SET, Eccentric Cone Type

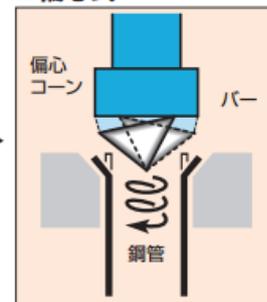
### フレアリングツールセット 偏心式



#### 新冷媒・新規格対応

- ※なまし銅管 3/4・肉厚 1.2 mm 対応型
- 過負荷防止のクラッチ機構。

#### ■偏心式



フレアリングコーン  
精密仕上げのフレアリングコーンが偏心して回転し、コーン側面でムラなく確実にフレアしていくので、軽い力で均一にキレイなフレアができます。

#### TF 456WH

品番	適合チューブ管外径 軟質の銅・アルミニウム管	セット質量 (kg)
TF 456WH	1/4・5/16・3/8・1/2・5/8・3/4	1.6

### パイプスクレーパー

PIPE SCRAPER

- ★採用輕巧符合人體工學防滑手柄
- ★適用金屬: 不銹鋼管、鐵管、銅管、鋁管、塑料管
- ★替換刀刀方便(本體內附備用刀刀一支)



PS100

品番	適応金屬	本体全長	(mm)
			質量 (g)
PS100	ステンレス鋼・鉄・銅・アルミ・プラスチック	121.5	48

### パイプスクレーパー替刃 (2本セット)

Blade for Pipe Scraper

- ★材質: HSS-適用不銹鋼管、鐵管、銅管、鋁管、塑料管
- ★尖端角度: 40 度 / 刀片長度: 12mm
- ★包裝 2 入一卡片



PSS100

## 日本進口切管刀工具



- ★ 採用高硬度本體結構。
- ★ 刀片採用特殊熱處理，具有卓越的切割能力及耐用度。
- ★ 切割後大量減少毛邊產生。
- ★ 全系列切刀皆為日本製造。(注意!若在型號後加上"E"為非日本製造的簡易款)

**TC 103~205**

### TUBE CUTTER

#### ● MINI TUBE CUTTER



▲TC103

● Despite the small body size, the usable range is large and it is optimal for work in narrow places.

★ Spare blade attached.



▲TC105

★ Knife built-in for surface treatment and spare blade included.



rapid forward and backward mechanism

▲TC205

★ Knife built-in for surface treatment and spare blade included.

(Unit : mm)

Item No.	Applicable pipes			Spare blade	Full length	Weight (g)	Remarks
	External diameter	Max. thickness	Material				
TC103	3~16 (1/8~5/8)	3 (1/8)	Copper, Aluminum, Brass and PVC	TCC 105	50	110	
TC104	5~28 (3/16~1)				65	200	
TC105	3~32 (1/8~1 1/4)				126.5	230	
TC107	5~45 (3/16~1 3/4)				163	400	
TC205	6~60 (1/4~2 3/8)			TCC 205	193	750	

#### ■ Example of use



★ One spare blade is attached in the knob.

**SMAPTORCH** 燒焊瓦斯組系列



Made in USA



NO. STH-81BK



NO. STH-81ABKP



NO. STH-91BK



★ 全新 STH-81BK 配備軟管及自動點火器，  
大幅增加施工方便性！



(施工示意圖)

瓦斯探漏器

NO. STH-8128BK

採用美國進口 PROPANE 瓦斯



NO. STH-61BK



(簡易帶管型)

# 專業空調電子扭力扳手

**±2%準確度**



★單支對應全尺寸

★超高準確精度

★杜絕不當施力

## NO.AF-DTW850

1. 台灣首創空調專業電子扭力扳手。
2. 快速調整開口尺寸及扭力值設定。
3. 單支扳手對應全部空調冷氣設備。
4. 扭力準確度比傳統款更精準穩定。
5. 能杜絕施工不確定性更加的可靠。



〈附工具包裝塑盒〉

型號規格	AF-DTW850
精確度	順時針：±2%反時針：±3%
單位	N·m (牛頓米)
LED 燈	6 LEDs (1 紅燈+5 綠燈)
預設扭力值	6 組(含工程校正 1 組)
扳手重量	550g
扳手長度	28CM
電池	AAA X 2(四號電池)
操作溫度	-10°C~60°C
儲存溫度	-20°C~70°C
摔落測試	1 公尺

Made in Taiwan



# R410A/R22 兩用扭力扳手



## AF-4104 (4PCS) / AF-4106(6PCS)

:For R410A

- ✧ Audible and tangible “CLICK” when the set torque is reached, assuring a securely tightened joint, This series is well-suited for production line us.
- ✧ Accuracy: ±3%pre-set value.
- ✧ Designed, engineered by AFORCE.

Item No.	Total length	Nut SiZE	Torque
AF-17	200mm	17mm	180kgf×cm(18Nm)
AF-22	248mm	22mm	420kgf×cm(42Nm)
AF-24	258mm	24mm	550kgf×cm(55Nm)
AF-27	290mm	27mm	650kgf×cm(65Nm)
AF-26	258mm	26mm	550kgf×cm(55Nm)
AF-29	290mm	29mm	650kgf×cm(65Nm)



## 無線定量冷媒電子秤

**NEW**

ITEM NO: AFWPS200-BW

無線操作   
  定量充填   
  準確度高



- ◆ 高精度傳感器
- ◆ 自動充填與回收
- ◆ 無線藍芽控制器
- ◆ 超強合金結構
- ◆ 航太用鋁合金材質
- ◆ 堅固耐用



### 產品規格

負載重量	100kg(220lbs.)	辨 示 率	0.17oz. / 0.011lb. / 5g
精 準 度	±0.05%	顯 示 器	2"LCD
單位選擇	lbs. / oz. / kg	外型尺寸	27.1x27.1x7.4cm
總 重 量	3.6kg(8 lbs.)	電池型號	5 x 1.5V (AAA/AA)
電池壽命	Bluetooth 4.0 (10M)	存放溫度	-15° to 50° C



## 高精度冷媒電子秤

**NEW**



**ITEM NO: AFWPS200**

**結構性強!**

**準確度高!**

**便利性佳!**

- ☑ 準確度高達0.05%
- ☑ 最大負荷重量100kg (220lb)
- ☑ 獨特Stability顯示穩定系統  
提供更準確的充填數據



控制器可收納於秤台(底部)

### 產品規格

負載重量	100kg(220lbs.)	辨 示 率	0.17oz. / 0.011lb. / 5g
精 準 度	±0.05% of reading +10g	顯 示 器	2"LCD
單 位 選 擇	lbs. / oz. / kg	外 型 尺 寸	27.1x27.1x7.4cm
總 重 量	3.6kg(8 lbs.)	電 池 型 號	5 x 1.5V (AAA)
電 池 壽 命	40 hours continuous	存 放 溫 度	-15° to 50° C

# HEATED DIODE REFRIGERANT LEAK DETECTOR

NO.AF-RLD200

高精度加熱二極管冷媒探漏器  
幫你快速有效找出洩漏點!

R22,R32,R134a,R404a,R407c,R410a,  
CFCs,HCFCS,HFCs,and HFOS 冷媒適用

大型數位面板快速顯示漏源  
超高精準靈敏度(3克/年)  
俱備手自動雙探測模式  
高強度鋁合金收納盒  
採高容量鋰電池



CE



**6** - MONTH  
WARRANTY

Terms and conditions apply.

**A** FORCE<sup>®</sup>

德國工藝 領導品牌



## Standard ECO Manifold Set

### 德國進口羅森伯格經濟型表組



羅森伯格經濟型表組是羅森伯格繼傳統表組系列後，推出的又一款經濟實用型表組，在秉承羅森伯格產品精巧耐用的基礎上，以更加精美的外觀、優惠的價格再次為冷凍空調市場提供了無可挑剔的選擇。

■ **堅固的本體：**

整體鋁製鍛造，磨砂塗層，更美觀耐用

■ **易於連接各種冷媒**  
標配 1/4"SAE 接頭

■ **高精度冷媒視窗：**  
用戶可隨時觀察到冷媒的流動

■ **配有三色壓力軟管：**  
軟管長度為 1500mm，



■ **80mm 錶盤直徑：**  
可清晰讀取資料  
(R22 款為 68mm 表徑)

■ **德國球閥式手輪：**  
僅旋轉 90° 省力耐用

■ **可選配附件：**  
5/16"SAE 接頭  
1500mm 軟管

■ **適用各種冷媒：**  
R32,R410A,  
R404A,R134a,R22



產品名稱	規格	產品編號	備註
經濟型表組	R22,R134a,R404A	RO-560G	紙盒包裝
經濟型表組	R410A/R32	RO-560G-R32-80	塑盒包裝

## 專業冷凍設備/空調系統真空機

德國羅森伯格高效能雙級真空機

ROAIRVAC 6.0



★符合 DIN8975 標準擁有整合性真空錶及電磁閥裝置★

德國工藝 領導品牌

### 產品特點:

1. 單向電磁閥可以防止空氣回流系統, 增加系統真空度.
2. 真空錶可清礎指示真空度, 用定位針可簡單操作系統測漏功能.
3. 輕便堅固的外殼可保護內部配件不受破壞.
4. 排氣閥可防止水蒸氣進入油箱, 有效增加系統真空度.
5. 特殊濾油器大幅減少油氣產生.
6. 油箱視窗可清礎了解真空油狀況.
7. 不需特殊工具, 可快速更換真空油.
8. 全系列機種皆擁有過載保護功能, 防止真空設備損壞.
9. 標配 1/4" SAE 接頭, 另提供 5/16" SAE 和 3/8" SAE 接頭供替換.
10. 採用可拆卸電源線, 防止電源設備損壞 .

型號	ROAIRVAC 6.0
效能	6.0CFM / 170L/m
真空級數	2
馬達效能	375W / 3440r/m
電壓	110V
接頭	1/4"SAE
配件接頭	5/16"SAE & 3/8"SAE
油量	330ml
重量	11.5kg
真空表直徑	50mm
測量單位	Mbar / Mpa



[www.rothenberger.com](http://www.rothenberger.com)

## 專業冷凍設備/空調系統冷媒探漏器

德國羅森伯格高敏感度電子冷媒探漏器

RO-LEAK



德國工藝 領導品牌

產品特點:

1. 羅森伯格電子冷媒探漏器擁有 3g/年的高精準度。
2. 四方位直覺式按鍵簡單執行冷媒探漏。
3. 配備 7 顆高感度 LED 清楚辨示探漏狀況。
4. 七段靈敏度調整更快速找出冷媒洩漏位置。
5. 提供環境重置鍵可在高濃度區精準探漏。
6. 音頻信號可輔助探漏速度。
7. 配備 30 公分蛇管能夠克服任何狹小空間使用。
8. 適用於市面上所有通用冷媒。(CFCs, HCFCs, HFCs)
9. 採用 4 號電池 2 顆方便更換電池使用。
10. 標準配件: 電子探漏器 X1, 四號電池 X2, 備用感應探頭 X1

型號	RO-LEAK
敏感度	3g/年
調整級數	7 級
適用冷媒	CFCs/HCFCs/HFCs
電壓	2.4V
探頭長度	30CM
工作溫度	-10°C ~ 49°C
電池	AAA 電池(4 號)
重量	280g

高敏感度感應探頭 (3g/年)

響亮的音頻信號

30cm 感應蛇管  
克服任何狹小空間

7 顆高感度 LED 清楚探漏狀況

環境重置鍵  
前往高濃度區進行探漏

七段靈敏度調整  
快速找出洩漏位置

採用可替換式四號電池  
方便經濟取得

CE

〈附專用手提箱〉

R410A	R22	R134A
R407C	R404A	R507A

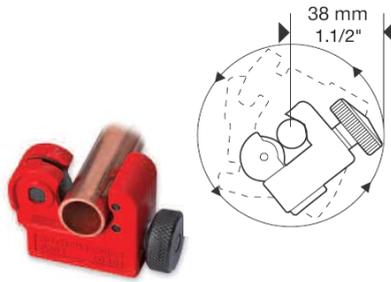
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羅森伯格專業冷凍設備/空調系統切刀系列



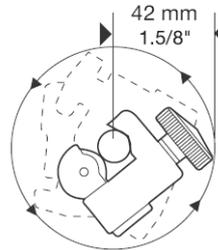
## MINICUT I PRO / II PRO / MINI MAX



RO-70401



RO-70402

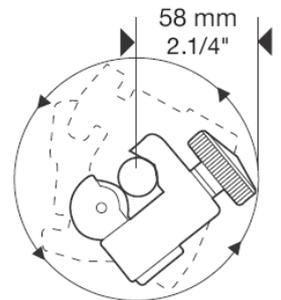


RO-70017D

Model	 mm	 inch	No.
MINICUT I PRO	3 - 16	1/8 - 5/8"	<b>70401</b>
MINICUT II PRO	6 - 22	1/4 - 7/8"	<b>70402</b>
MINI MAX	3 - 28	1/8 - 1.1/8"	<b>70015</b>
Spare axle			<b>70041</b>
Spare cutter wheel			<b>070017D</b>



RO-70015



## ROTRAC 28 / ROTRAC 42

### 產品特點：

1. 全系列切刀適用於銅管, 鋁管, 薄型鋼管, PVC 塑管.
2. 採用德國鋼材製造刀片鋒利易於切割又耐用.
3. 特殊設計球型滾花旋鈕, 方便施工操作.
4. 超省力旋鈕快速定位切割尺寸.
5. 鍍鉻烤漆美觀耐用另配備收納盒(限 ROTRAC28).
6. 配備去毛邊刮刀.

Model	 mm	 inch	No.
ROTRAC 28	3 - 28	1/8 - 1.1/8"	<b>70045</b>
ROTRAC 42	6 - 42	1/4 - 1.5/8"	<b>71928</b>
Spare cutter wheel	Cu, Al, brass		<b>70007D</b>
Spare axle			<b>70080</b>



**ROTHENBERGER**

RO-70045 / RO-71928

[www.rothenberger.com](http://www.rothenberger.com)

## 專業冷凍設備/空調系統多功能漲管器

德國羅森伯格多功能漲管器



### ROCAM EXPANDER Power Torque

德國工藝 領導品牌

#### 產品特點:

1. 業界漲管器唯一採用高規格鍍鈦錐頭大幅增加耐用壽命。
2. 漲管器把手採用德國鍛造鋁合金技術製造主體堅固又輕便。
3. 唯一配備可微調錐頭供不同規格微調使用。
4. 把手採槓桿原理可減少 50% 施力增加施工方便性。
5. 漲管器可減少銅接頭使用達到快速焊接減少不必要的浪費。
6. 羅森伯格漲管器符合德國 DVGW 認證擁有更精準的漲管口徑。
7. 所有漲管頭皆採德國鍛造鋼材堅固耐磨不斷裂。
8. 符合人體工學把手好操作不打滑。
9. 符合 EPT® 技術標準達到防污抗損及高效能省力。
10. 配備可替換七種尺寸漲管頭及毛邊刮刀及工具箱。



ROCAM® EXPANDER Power Torque Sets	No.
3/8 - 1/2 - 5/8 - 3/4 - 7/8 - 1 - 1.1/8"	12336



可微調式錐頭  
供細微調整

長型槓桿手臂  
更加省力

符合人體工學手柄  
操作順手不打滑

漲管頭採鍛造鋼材  
堅固耐磨不斷裂

符合 EPT®-Technology  
(Enclosed Power Transmission)

採用德國鍛造鋁合金材質  
兼顧主體硬度及輕便性



採用高級鍍鈦處理更耐用



[www.rothenberger.com](http://www.rothenberger.com)

## 專業冷凍設備/空調冷媒回收機

### ROREC 羅森伯格高效能冷媒回收機



德國工藝 領導品牌

#### 產品特點:

1. 四極電機確保回收設備的耐久性.
2. 優良整合設計, 使抽排振動噪音極低.
3. 輕便堅固的外殼可保護內部配件不受破壞.
4. 直覺式按鍵, 操作簡單及安全.
5. 採用無油式壓縮機, 免維護保養.
6. 配備自我清洗功能, 雖時保持設備管路清潔.
7. 輕便體積方便攜帶.
8. 回收設備皆擁有過載保護功能, 防止設備損壞.
9. 標準配備乾燥劑/加氣管/肩背帶.
10. 採用可拆卸電源線, 防止電源設備損壞 .

型號	ROREC168607SA
氣態效能	0.26 kg / min
液態效能	1.85 kg / min
推/拉效能	6.22 kg / min
馬達效能	370W
電壓	110V
支援冷媒	CFC-HCFC-HFC
高壓開關	38.5 bar
重量	17kg
壓力表徑	63mm
外型尺寸	490 x 244 x 353 mm

配備高壓開關保護總成

清潔功能

排除冷媒殘留雜物  
(清潔模式)

簡單的控制冷媒劑量

RESET 重置開關

可拆卸電纜  
防止電纜損壞



後置儲物箱



無油式壓縮機  
方便維護

過載開關保護設備

採用四極電機  
延長設備耐用性



[www.rothenberger.com](http://www.rothenberger.com)

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德國羅森伯格專業電動彎管器



## ROBEND® 4000

- ★對應~180°彎曲半徑
- ★支持 1/2"~1-3/8" 彎管尺寸
- ★施工快速減少焊接問題
- ★管徑加工美觀無皺折損壞
- ★公司貨保固一年

德國工藝 領導品牌

型號	1000001690
適用銅管	軟/半硬/硬質銅管
適用鋼管	薄型不銹鋼管
馬達效能	900W/110V
彎曲角度	~180°(最大195°)
彎曲角度間隔	3°
彎模尺寸	1/2"~1-3/8"
本體重量	14.5kg
配件	主機/彎模滑片7組 滑片桿/腳架/手提箱

**NEW**



[www.rothenberger.com](http://www.rothenberger.com)

# TEK-Mate®

## Refrigerant Leak Detector



### PROVEN HEATED DIODE TECHNOLOGY IN AN AFFORDABLE PACKAGE

TEK-Mate is the ideal refrigerant leak detector for the light-to-medium duty user who demands reliable leak detection at a budget-friendly price.

Features such as the patented INFICON heated diode sensor, variable intensity audible and visual alarms and automatic compensation for changing background refrigerant concentrations make TEK-Mate the best bargain in refrigerant leak detectors.

See for yourself why TEK-Mate is the #1 selling refrigerant leak detector in the HVAC/R market.

#### FEATURES AT A GLANCE

- Detects R22, R410A, R134A, HFO1234yf, and all other CFCs, HCFCs and HFCs
- Automatic background adjustment (“zeroing”)
- Rugged flexible rubber coated metal probe
- Low battery indicator
- High/low sensitivity selector and power in one switch
- Made in the USA

#### SPECIFICATIONS

Base unit includes	Sensor, two D-size alkaline batteries, spare filters, and a hard plastic carrying case.
Minimum sensitivity	0.25 oz. / yr (7 g/a)
Controls	One multi-function button for power and high/low sensitivity selection
Power source	Two D-size (1.5V) alkaline batteries (included)
Battery life	Approximately 16 hours
Weight with batteries	1.54 lb. (700 g)
Probe	Rubber coated flexible metal, approx. 15 in. (38 cm) long
Certifications	CE marking per Safety and EMC. SAEJ1627, EN 14624:2012.
Warranty	Two-year replacement

#### ORDERING INFORMATION

TEK-Mate	705-202-G1
TEK-Check R134A reference leak	703-080-G10
<b>REPLACEMENT PARTS</b>	
Sensor	703-020-G1
Storage case	705-700-G1
Filters	705-600-G1

# GAS-Mate®

## Combustible Gas Leak Detector



### FEATURES AT A GLANCE

- Sensitive to 5 ppm methane
- Great for flammable refrigerants like R290, R600a, and R441a!
- Also detects natural gas, hydrogen, propane, butane, cyclopentane, ethane, ethanol, isobutane, ammonia and forming gas (95% nitrogen, 5% hydrogen)
- Multiple LEDs, variable intensity audio alarm indicate leak strength
- Adjustable sensitivity helps pinpoint leaks fast
- Auto zeroing for ignoring background gas levels in leak test area
- Small sensor and probe tip permit leak checking in tighter places
- Certified intrinsically safe by MET Laboratories for use in combustive/explosive environments
- Three-year replacement warranty
- Made in the USA

### SAFELY DETECT FLAMMABLE REFRIGERANT AND COMBUSTIBLE GAS LEAKS

INFICON raises the bar on combustible gas detectors with the next-generation GAS-Mate, the ideal tool for locating leaks in forming gas, flammable refrigerant, or combustible heating and appliance applications. GAS-Mate is also intrinsically safe, so you can leak check with confidence in potentially hazardous environments.

GAS-Mate outperforms other models with twice the sensitivity of many competitors—down to 5 ppm methane, the main component of natural gas. GAS-Mate also detects many other combustible gases, such as forming gas, ammonia, propane, ethanol and hydrogen sulfide.

No calibration is required for GAS-Mate or its field-replaceable sensor. Simply turn the unit on, allow it to warm up for a few seconds and it is ready to quickly pinpoint any gas leaks present.

To prove that GAS-Mate has the performance and durability for your job, it carries an industry-leading, three-year over-the-counter replacement warranty—three times what most other manufacturers offer.

### SPECIFICATIONS

Base unit includes	Sensor, two D-size alkaline batteries, and a hard plastic carrying case
Sensitivity	5 ppm methane
Controls	Power button, sensitivity touch pad
Power source	Two D-size (1.5V) alkaline batteries, included (use Duracell® MN1300 to maintain intrinsically safe approval)
Battery life	25 hours
Probe	Rubber-coated flexible metal, approx. 15 in. (38 cm) long
Alarm indicators	Multiple LEDs, variable intensity audio alarm
Weight with batteries	1.54 lb. (700 g)
Certifications	Intrinsically Safe for Class I, Division I, Groups A-D, T4 and II 3G Ex nA nL IIC T4 X as per MET Laboratories Listing #E112145
Warranty	Three-year replacement

### ORDERING INFORMATION

GAS-Mate	718-202-G1
<b>REPLACEMENT PARTS</b>	
Sensor	706-700-G1
Storage case	718-701-G1

# Vortex<sup>®</sup> Dual

## Refrigerant Recovery Machine

### SPECIFICATIONS

Unit includes	Shoulder strap, filter/dryer, 6 ft. (1.8 m) detachable power cord
Compatible refrigerants	Recovers commonly used CFCs, HCFCs, and HFCs including blends such as R410A, 12, 22, 134a, 404, 407C, 500, 502, and other Class III, IV and V refrigerants
Weight	29.75 lb. (13.5 kg)
Dimensions (L x W x H)	16.7 x 9.2 x 14.2 in. (42.4 x 23.4 x 36.1 cm)
Compressor	1 HP oil-less, dual piston, AC motor drive
High-pressure shut-off	550 psi
Power source	115 V (ac), 60 Hz, 15A or 230 V (ac), 50/60 Hz, 10A (depending on model)

### 產品特點概述

- 業界領先1HP馬力雙活塞式壓縮機提供高性能回收率！
- 微通道冷凝器提供卓越的熱量交換  
使Vortex Dual能夠維持極佳的工作效率
- 超大風扇提供卓越的散熱
- 簡單的雙閥操作
- 全尺寸保護測量儀，適用於吸氣和排氣壓力
- 無需更換軟管即可自行清洗
- 包括過濾器/乾燥器
- 吸音吹塑外殼
- 輕巧的機身方便移動
- 獨立測試通過美國AHRI標準740-1998認證



1. 肩背帶連接孔(配件附舒適背帶)
2. 精確易讀的儀表版
3. 耐用金屬旋鈕
4. 冷媒回收吸入口
5. 回收冷媒過濾器
6. 微通道高效冷凝器
7. 高效能散熱風扇

總代理:兵泉企業有限公司



# AST200IR

AST200IR uses years of proven technology making automotive leak detection quick and easy. The quick-charging lithium ion battery and long-lasting infrared sensor make the AST200IR a tool you can rely on to perform, day after day. AST200IR detects R134a, R1234yf, and even CO<sub>2</sub> using the optional CO<sub>2</sub> sensor, so you can be ready for any application. Upgrade your tool box with this accurate and reliable leak detector.



## ADVANTAGES

- Detects R134a and R1234yf, R32 and all other HFCs, HFOs
- Meets all SAE standards for automotive AC leak detection
- Infrared sensor minimizes false alarms from common under-hood chemicals
- Infrared sensor with easy field replacement
- Quick charging lithium ion battery
- Compatible with optional CO<sub>2</sub> sensor
- Includes UV inspection light and R1234yf check gauge

# D-TEK Stratus™

高精度行動式數位冷媒探漏器

**有效快速找出洩漏點!**

D-TEK Stratus 將 D-TEK Select 優秀的檢漏能力與實驗室採用的大型冷媒探測器雲搜索功能整合成業界唯一手持式數位冷媒探漏器。使用者可透過大LCD顯示數據，快速的搜索製冷設備洩漏區域的準確漏位置，只要一台D-TEK Stratus即能決速完成探漏，減少不必要的時間浪費！D-TEK Stratus將成為冷媒探漏領域的新一代創新產品！

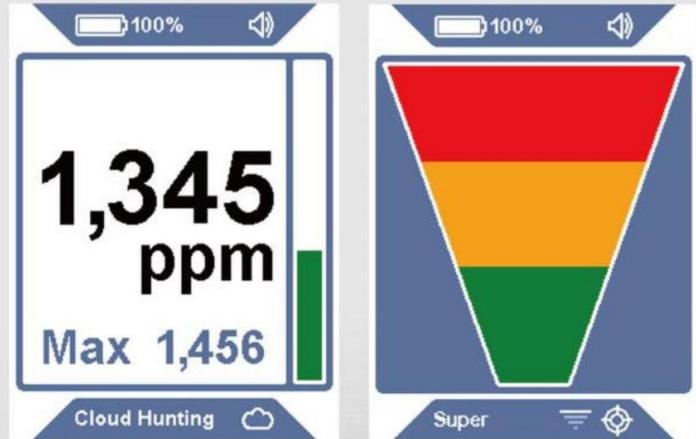


## 规格

包含	D-TEK Stratus 红外传感器 锂离子电池 备用过滤器 交流墙面充电器 直流车载充电器 超长探针 手提箱 耳塞
兼容冷媒	R22、R32、R134a、R404a、R407c、 R410a、R422b、R448a、R449a、 R452a、R452b、R507 (AZ50)、 R1234yf、氨、SF6 等
最低灵敏度	0.03 盎司/年 (1 克/年)
符合 EN14624 的灵敏度	1 克/年
电源	锂离子电池 (可充电) USB (充电时可使用)
电池寿命	~8 小时
重量	1.07 磅 (490 克)
认证	CE SAEJ2791 SAEJ2913 EN14624:2012 获得 A2L 认证
探针长度	15 英寸 (38 厘米)
保修服务	自购买起一年

## 订购信息

D-TEK Stratus	724-202-G11
<b>配件和替换件</b>	
耳塞式耳机	721-607-G1
TEK-Check R134a 参考漏孔	703-080-G10
墙面充电器 (美国和国际)	721-606-G1
12 V (直流) 车载充电器	721-605-G1
锂离子电池	721-702-G1
电池充电座	721-610-G1
电池/充电座组合	721-604-G1
超长探头	721-611-G1
针式探头延长件	721-612-G1
制冷剂传感器 (检测 CFC、HCFC、HFC 和 HFO)	724-701-G1
CO <sub>2</sub> 传感器	即将上市
过滤器帽	712-705-G1
滤芯 (五个起订)	712-206-G1
手提箱	724-700-G1



雙模式有助於更快找出洩漏點

使用新的雲搜索模式(左側)找到濃度最高的區域,然後切到經典定位模式(右側)定位漏點。

## 优势

- 灵敏度 0.03 盎司/年 (1 克/年)
- 带 ppm 读数的创新云搜索模式有助于更快地定位漏点
- 云搜索和定位模式就像同时拥有两种检漏仪
- 检测所有 CFC、HCFC、HFC 和 HFO 类型的冷媒
- 重新设计的全新红外传感器
  - 传感器使用寿命业内最长
  - 可在现场轻松替换
- 全新锂离子电池
  - 快速充电功能
  - 可在现场轻松替换
- 自动与手动归零模式
- 灵敏度不会随时间降低
- 附带坚固手提箱



觀看影片!



# AST100

## REFRIGERANT LEAK DETECTOR

Affordable price, simple operation, and reliable performance make AST100 a great choice for any technician. Save time by finding both R134a and R1234yf leaks like a professional with AST100.



R134a  
R1234yf

EN14624



### ADVANTAGES

- Sensitivity of 2 g/yr (per EN 14624)
- Detects R134a and R1234yf
- Reliable heated diode sensor
- Fewer false alarms than standard automotive leak detectors
- Runs on two D-cell batteries
- Includes UV inspection light

### SPECIFICATIONS

Includes	Heated diode sensor Two D-size alkaline batteries Spare filters Carrying case UV Inspection light
Compatible refrigerants	R134a and R1234yf (and all other HFCs, HFOs, and blends)
Sensitivity per EN14624	2 g/yr (R134a)
Power source	Two D-size alkaline batteries
Battery life	16 hours
Weight	1.54 lb. (700g)
Certifications	CE SAE J1627 EN14624:2012 A2L certified
Probe length	15 in. (38cm)
Warranty	Two-year

### ORDERING INFORMATION

AST100	AST100
<b>Accessories and Replacement Parts</b>	
TEK-Check™ R134a reference leak	703-080-G10
TEK-Check™ R1234yf reference leak	703-080-G12
Sensor	703-020-G1
Filters	705-600-G1



# TAIWAN-QUALITY

代理經銷品牌



**PINCHUAN CO. LTD**

兵泉企業有限公司

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