LINGYU

LINGYU

AIR CONDITIONING TOOLS & EQUIPMENT

For Automotive Air Conditioning Systems



- manifold gauge set
- hose and Connector
- Cleaning and Testing
- Vacuum Series and Others

ZHUJI LINGYU MACHINERY CO.,LTD.

Website: www.Lingyumachine.com

Phone: +86-17763202219

E-mail: info@lingyumachine.com

WeChat: LingyuMachine

Address: Diankou Town, Zhuji City, Zhejiang, China

CONTENTS

2 company spreads · 13 product chapters · 19 spreads

C1 **Facilities & Workshop**
Main plant, machining shop, assembly lines, dispatch

C2 **Quality & Capability**
ISO 9001, patents, test bench, metrology, showroom

05 - 07 **Manifold Gauges & Sets**
22 gauge and set pairs: gauge picture above, matching set below

08 **Single Valve Gauges**
5 single valve gauges catalogued on their own, full spec table

09 **Charging Hoses**
24 models CH-A to CH-D and 4 quick charging kits

10 **Quick Couplers**
13 models QC-12 to QC-22

11 **Can Tap Valves**
17 models CT series

12 **Adapters & Ball Valves**
AD-10A to AD-65, AD-M12 / M14, LY-BV01 / BV02

13 **Vacuum Pumps**
27 models: cordless, brushless DC, single and double stage

14 **Vacuum & Oil Service Accessories**
VG100 gauge, hoses, Y-connectors, chambers, oil injectors

15 **Leak Test Kits**
8 kits from 26 to 123 pieces, coolant pressure test

16 **Coolant, Oil & Funnel Kits**
FO funnels, EFP01 and FP fuel pressure kits

17 **Fuel & Cleaning Service**
Injector cleaning, A/C flush, TF transfer pumps

18 **Refrigerant Recovery**
RM03 brushless 1 HP, RM01 / RM02 oil-free piston, full specs

19 **Sight Glass & System Parts**
Sight glasses, valve core tools, KM hand valves

HOW TO READ THIS CATALOGUE

PICTURE AND MODEL
Every tile shows the product with its model number printed underneath

SPEC TABLE BELOW
Each chapter closes with the full parameter table for the models shown above

SET CONTENTS
Bundled gauge sets list the hoses, couplers, taps and adapters included

FACILITIES & WORKSHOP

Diankou, Zhuji · 12,000 sqm site · 200+ staff · machining to assembly under one roof



MAIN PLANT
Six-storey production building



MACHINING SHOP
CNC turning lines



ASSEMBLY
Gauge sets and hoses



DISPATCH
Pallets for export

THE COMPANY

Lingyu has been manufacturing metal components and automotive air-conditioning service tools in Diankou, Zhuji since 2004. The site covers 12,000 sqm of land with 4,630 sqm of built-up floor space over six floors, and employs more than 200 people across machining, assembly, testing and dispatch.

Production runs from CNC turning of valve bodies and fittings through manual assembly of gauge sets and charging hoses to pressure and leak testing on every set before it is packed. The same floor carries the video measuring machine and the gauge set test benches used for incoming and final inspection.

2004
FOUNDED, DIANKOU TOWN

12,000 sqm
SITE AREA, DIANKOU TOWN

200+
STAFF ACROSS FOUR DEPARTMENTS

LINGYU AT A GLANCE

SITE AREA
12,000 sqm of land

BUILT-UP
4,630 sqm, six floors

WORKFORCE
200+ staff

ANNUAL OUTPUT
approx. RMB 35 million

GROWTH
~10% a year, three years

TAX RATING
Grade A, three years

ISO 9001
Certified in 2022

PATENTS
8 utility models · 2 pending

HIGH-TECH
National application in progress

CUSTOMERS
Exemption supplier to Zhejiang Sanhua

QUALITY & CAPABILITY

ISO 9001 · 8 utility patents · in-house metrology · pressure and leak test on 100% of output



GAUGE SET TEST BENCH
Pressure and leak test, 100% of output



VIDEO MEASURING MACHINE
Dimensional accuracy inspection



SAMPLE SHOWROOM
Full range displayed at the plant

CERTIFICATION & MILESTONES

Year	Milestone
2004	Company founded; metal parts for fitness equipment, automotive and solenoid valve bodies
2018	Environmental management assessment passed
2022	ISO 9001 quality management system certified
2022	Waste-water treatment and environmental equipment installed
Now	National High-Tech Enterprise application in progress

CAPABILITY

Item	Detail
Patents	8 utility models granted; 2 invention patents pending
Key customer	Exemption supplier to Zhejiang Sanhua Intelligent Controls Co., Ltd.
Partners	Close collaboration with several listed companies
Testing	Pressure and leak test on every set; video metrology in house
Output	Approx. RMB 35 million a year, growing ~10% annually
Delivery	Pallets consolidated at the Diankou plant; FOB Ningbo / Shanghai

ISO 9001
Quality management system
Certified 2022

GRADE A
Tax credit rating
Three years running

HIGH-TECH
National enterprise
Application in progress

PRODUCTION FLOW

01 INCOMING MATERIAL
Bar stock and purchased parts checked on receipt

>

02 CNC MACHINING
Valve bodies, fittings and hose ferrules turned in house

>

03 ASSEMBLY
Gauge sets, charging hoses and kits assembled by hand

>

04 PRESSURE & LEAK TEST
Every set tested on the bench, 100% of output

>

05 PACKING & DISPATCH
Colour boxes and inner boxes, pallets at the plant

“ZHEJIANG QUALITY, LINGYU MANUFACTURING”
Every gauge set pressure tested and inspected before it leaves the plant.

GAUGE AND SET

1 of 3 · brass, aluminium 2-valve, FT and square sheath · gauge above, matching set below



MG-B301

VB-301 · PG-01/PG-05



MG-B301-02

R12/R22/R134a/R502



MG-B302

VB-302 · PG-59



MG-B302-02

R22/R134a/R404/R410



MG-A301

VB-311-01 White · PG-34



MG-A301-01

R410/R32



MG-A302

VB-311-02 White · PG-19



MG-A302-03

R32/R410/R134a/R1234yf



MG-A303

VB-311-03 · PG-83



MG-A303-01

R1234yf



MG-F301

VB-311-01 Dark Blue · PG-34



MG-F301-02



MG-F302

VB-311-02 Dark Blue · PG-12



MG-F302-01

R22/R134a/R404/R410



MG-S301

VB-311-01 Black · PG-35



MG-S301-01

R32/R410

Model No.	Refrigerant	Hose	Quick Coupler	Can Tap	Adapter	Packing	Set description
MG-B301-02	R12/R22/R134a/R502	CH-336AF	QC-12	CT-343	—	Carton packaging N11	R12/R22/R134a/R502 manifold gauge, 1 m R22 hose, R134a straight quick coupler, R134a US-style self-sealing can tap valve. Carton packaging
MG-B302-02	R22/R134a/R404/R410	CH-336C	—	—	—	Carton packaging N11	R22/R134a/R404/R410 manifold gauge, 1 m R410A hose. Carton packaging
MG-A301-01	R410/R32	CH-360C(5/16SAE)	—	—	—	XY-06D	R410/R32 manifold gauge, 1.5 m R410A hose with reducer. Plastic case + inner box
MG-A302-03	R32/R410/R134a/R1234yf	CH-360C	QC-16B/QC-20	CT-343/CT-345	AD-30A*2+AD-10+AD-20	Carton packaging N11	R32/R410/R134a/R1234 manifold gauge, 1.5 m R410A hose, R134a one-piece small adjustable coupler, Land Rover adapter, R134a US-style self-sealing can tap valve, Land Rover explosion-proof flat-head can tap valve, ×2, 1/2 ACME to 1/4 SAE ×1. Carton packaging
MG-A303-01	R1234yf	CH-360C(M12*1.5)	QC-19	—	AD-02	XY-06D	R1234 manifold gauge, 1.5 m R410A hose with Land Rover coupler, Land Rover adjustable coupler, adapter 1/4 SAE to 1/2 ACME-LH. Plastic case
MG-F301-02	Refrigeration manifold gauge & tube expander set	CH-360C(5/16SAE)	—	—	—	XY-05E	Refrigeration manifold gauge and tube expander set, 1.5 m R410A hose + pipe cutter set
MG-F302-01	R22/R134a/R404/R410	CH-360C	QC-16B	CT-339J	AD-30A*2	XY-06H	R22/R134a/R404/R410 manifold gauge, 1.5 m R410A hose, R134a one-piece small adjustable coupler, CT-339J explosion-proof can tap valve, adapter 5/16 SAE to 1/4 SAE ×2. Plastic case
MG-S301-01	R32/R410	CH-360C(5/16SAE)	—	—	—	XY-06D	R32/R410 manifold gauge, 1.5 m R410A hose with reducer. Plastic case

Set contents as listed; a dash means the item is not part of that set. Every set ships with the gauge shown above it and the hoses, couplers, taps and adapters in this table.

GAUGE AND SET

2 of 3 · square sheath, ball valve and 4-valve · gauge above, matching set below



MG-S302
VB-311-02 Black · PG-15



MG-S302-02
R134a/R1234yf/R404



MG-S311
VB-313-01 Black · PG-15



MG-S311-01
R22/R32/R134a/R410



MG-M301
VB-312-01 Black · PG-406



MG-M301-01
R22/R134a/R407/R410



MG-M302
VB-312-02 Black · PG-406



MG-M302-02
R1234yf/R134a



MG-M311
VB-313-01 Black · PG-408



MG-M311-01
R22/R134a/R407/R410



MG-A401
VB-401 Black · PG-56



MG-A401-01
R12/R22/R134a/R410



MG-S401
VB-401 Black · PG-63



MG-S401-03
R32/R410/R1234yf/R134a



MG-M401
VB-401 Black · PG-407



MG-M401-03
R32/R410/R1234yf/R134a

Model No.	Refrigerant	Hose	Quick Coupler	Can Tap	Adapter	Packing	Set description
MG-S302-02	R134a/R1234yf/R404	CH-360C	QC-16B/QC-20	CT343/345	AD-10/AD-20	XY-06F	R134a/R1234/R404 manifold gauge, 1.5 m R410A hose, R134a mini one-piece adjustable coupler (brass), R134a-to-R1234 Land Rover adapter (brass), R134a US-style self-sealing can tap valve, Land Rover explosion-proof flat-head can tap valve, adapters 1/2 ACME to 1/4 SAE and 1/2 ACME-LH to 1/4 SAE. Plastic case
MG-S311-01	R22/R32/R134a/R410	CH-360C	—	—	AD-30A*2	XY-06D	R22/R32/R134a/R410 manifold gauge, 1.5 m R410A hose, adapter 5/16 SAE to 1/4 SAE ×2. Plastic case
MG-M301-01	R22/R134a/R407/R410	CH-360CJ	—	—	AD-30A*2	XY-07B	R22/R134a/R407/R410 manifold gauge, 1.5 m R410A hose (thickened, knurled, with wrench), adapter 5/16 SAE to 1/4 SAE ×2. Plastic case
MG-M302-02	R1234yf/R134a	CH-360CJ	QC-17/QC-19	CT343J/345J	AD-10/AD-20	XY-07C	R1234/R134a manifold gauge, 1.5 m R410A hose (thickened, knurled, with wrench), R134a split-type adjustable coupler (brass), R1234yf premium adjustable coupler (brass), US-spec explosion-proof flat-head can tap valve, Land Rover explosion-proof flat-head can tap valve, adapters 1/2 ACME to 1/4 SAE and 1/2 ACME-LH to 1/4 SAE. Plastic case
MG-M311-01	R22/R134a/R407/R410	CH-360CJ	QC-17	CT339J	AD-30A*2	XY-07B	R22/R134a/R407/R410 manifold gauge, 1.5 m R410A hose (thickened, knurled, with wrench), R134a split-type adjustable coupler (brass), CT-339J anti-backflow can tap valve, adapter 5/16 SAE to external 1/4 SAE ×2. Plastic case
MG-A401-01	R12/R22/R134a/R410	CH-460C	QC-16B	CT342/343	AD-30A*2+AD-10	XY-06G	R12/R22/R134a/R410 manifold gauge, 1.5 m R410A four-color hoses, R134a mini one-piece adjustable coupler (brass), R134a US-style piercing brass can tap valve, R134a US-style self-sealing brass can tap valve, adapters 5/16 SAE to 1/4 SAE with depressor pin ×2 and 1/2 ACME to 1/4 SAE. Plastic case
MG-S401-03	R32/R410/R1234yf/R134a	CH-460C	QC-16B/QC-19	CT343J/345J	AD-10/AD-20+AD-30A*2	XY-06J	R32/R410/R1234/R134a manifold gauge, 1.5 m R410A four-color hoses, R134a mini one-piece adjustable coupler (brass), R1234yf premium adjustable coupler (brass), US-spec explosion-proof flat-head can tap valve, Land Rover explosion-proof flat-head can tap valve, adapters 1/2 ACME to 1/4 SAE, 1/2 ACME-LH to 1/4 SAE, and 5/16 SAE to 1/4 SAE ×2. Plastic case
MG-M401-03	R32/R410/R1234yf/R134a	CH-460CJ	QC-17/QC-19	CT-343J/345J	AD-10/AD-20+AD-30A*2	XY-07C	R32/R410/R1234/R134a manifold gauge, 1.5 m four-color R410A hoses with wrench, R134a adjustable coupler with flower-type handwheel / Land Rover adjustable coupler, US-spec explosion-proof flat-head can tap valve / Land Rover explosion-proof flat-head can tap valve, internal 1/2 ACME to external 1/4 SAE, Land Rover external-thread adapter (internal 1/4 SAE to external 1/2 ACME-LH), 5/16 SAE to 1/4 SAE ×2. Plastic case

Set contents as listed; a dash means the item is not part of that set. Every set ships with the gauge shown above it and the hoses, couplers, taps and adapters in this table.

GAUGE AND SET

3 of 3 · digital manifolds and R744 · gauge above, matching set below



MG-E201

E201 Digital Gauge



MG-E201-01



MG-E301

E301 Digital Gauge



MG-E301-02



MG-E302

E302 Digital Gauge



MG-E302-02



MG-E303

E303 Digital Gauge



MG-E303-02



MG-E305

E305 Digital Gauge



MG-E305-01



MG-R744

VB-R744 · PG-R744



MG-R744-01

R744

Model No.	Refrigerant	Hose	Quick Coupler	Can Tap	Adapter	Packing	Set description
MG-E201-01	19 refrigerants	CH-260CJ	—	—	AD-30A	XY-09E	Digital ball valve single gauge (residential), 2 × 1.5 m R410A all-black hoses with wrench, adapter 5/16 SAE to 1/4 SAE. Plastic case
MG-E301-02	19 refrigerants	CH-360CJ	QC-17	CT-339J	AD-30A*2	XY-07B	Digital ball valve dual gauge (automotive), 1.5 m R410A all-black hoses with wrench, R134a adjustable coupler with flower-type handwheel, 1.5 m R410A hose with wrench, CT-339J explosion-proof can tap valve, adapters 5/16 SAE to 1/4 SAE ×2. Plastic case
MG-E302-02	89 refrigerants	CH-360CJ	QC-17/QC-19	CT-343J/CT-345J	—	XY-09D	Mini digital manifold (automotive), 1.5 m R410A hoses with wrench, R134a adjustable coupler with flower-type handwheel / Land Rover adjustable coupler, US-spec explosion-proof flat-head can tap valve / Land Rover explosion-proof flat-head can tap valve. Plastic case
MG-E303-02	89 refrigerants	CH-360CJ	QC-17	CT-340J	AD-30A*2+AD-10	XY-05B	Mini digital manifold (automotive), 1.5 m R410A hoses with wrench, R134a adjustable coupler with flower-type handwheel, universal explosion-proof can tap valve, adapters: internal 5/16 SAE to external 1/4 SAE ×2 and internal 1/2 ACME to external 1/4 SAE, with temperature clamp. Plastic case
MG-E305-01	120 refrigerants	CH-360CJ Black	—	—	—	XY-07A	New-generation digital manifold, 1.5 m R410A all-black hoses with wrench, with temperature clamp. Plastic case + inner box
MG-R744-01	R744	1.5 m R744 hose	QC-22	—	—	XY-07A	R744 manifold gauge + R744 hose + R744 quick coupler

Set contents as listed; a dash means the item is not part of that set. Every set ships with the gauge shown above it and the hoses, couplers, taps and adapters in this table.

SINGLE VALVE GAUGES

5 single valve gauges catalogued on their own · the gauge alone, no bundled set · specs in the table



MG-B201
Brass · spiked



MG-B202
Brass · moon-cake



MG-A201
Alu · moon-cake



MG-S201
Alu · square sheath



MG-M201
Alu · FT sheath

Model	Valve body	Protective sheath	Default gauge head	Refrigerant	Head swap
MG-B201	Brass	Spiked	PG-01/PG-05	By head	No
MG-B202	Brass	Moon-cake	PG-59	By head	Yes
MG-A201	Aluminium	Moon-cake	PG-34	By head	Yes
MG-S201	Aluminium	Square Black-Yellow	PG-63	By head	Yes
MG-M201	Aluminium	FT	PG-406	By head	Yes

WHERE TO FIND THE REST

BUNDLED SETS
22 models on spreads 05 - 07 ship as a complete gauge and set pair

SEPARATE PARTS
Charging hoses spread 09 · quick couplers spread 10 · can taps spread 11

SINGLE VALVE
These five are catalogued on their own, without a bundled set

CHARGING HOSES

21 models · CH-A to CH-D · 4 quick charging kits · specs in the table



CH-A
Grade A 500 PSI



CH-B
Grade B 600 PSI



CH-C
Grade C 800 PSI



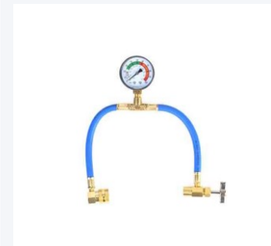
CH-D
Grade D A2L 4-layer



JF-001
Self-piercing 42 cm



JF-006B
Universal 32 cm



JF-007
Self-sealing 42 cm



JF-009
R1234yf 42 cm

Model	Length	Qty	Application	Working	Burst	Connector material
CH-A Grade A Standard Charging Hose | connector 1/4SAE / 5/16SAE / 1/2ACME / M12-1.5 for selection | colours Red / Yellow / Blue / Black						
CH-336A	36"(91CM)	3	R12/R22/R502	500PSI	2500PSI	Brass
CH-336AF	36"(91CM)	3	R12/R22/R502	500PSI	2500PSI	Outer:Brass;Inner:Iron plated with brass
CH-360A	60"(152CM)	3	R12/R22/R502	500PSI	2500PSI	Brass
CH-360AF	60"(152CM)	3	R12/R22/R502	500PSI	2500PSI	Outer:Brass;Inner:Iron plated with brass
CH-372A	72"(182CM)	3	R12/R22/R502	500PSI	2500PSI	Brass
CH-372AF	72"(182CM)	3	R12/R22/R502	500PSI	2500PSI	Outer:Brass;Inner:Iron plated with brass
CH-B Grade B Charging Hose						
CH-336B	36"(91CM)	3	R22/R134A/R404A/R407C	600PSI	3000PSI	Brass
CH-360B	60"(152CM)	3	R22/R134A/R404A/R407C	600PSI	3000PSI	Brass
CH-372B	72"(182CM)	3	R22/R134A/R404A/R407C	600PSI	3000PSI	Brass
CH-C Multi-layer Composite Charging Hose						
CH-336C	36"(91CM)	3	R410A/R32	800PSI	4000PSI	Brass
CH-336CJ	36"(91CM)	3	R410A/R32	800PSI	4000PSI	Brass
CH-360C	60"(152CM)	3	R410A/R32	800PSI	4000PSI	Brass
CH-360CJ	60"(152CM)	3	R410A/R32	800PSI	4000PSI	Brass
CH-372C	72"(182CM)	3	R410A/R32	800PSI	4000PSI	Brass
CH-D Premium 4-layer Charging Hose						
CH-336D	36"(91CM)	3	R1234yf(A2L) Four-layer material	800PSI	4000PSI	Brass
CH-360D	60"(152CM)	3	R1234yf(A2L) Four-layer material	800PSI	4000PSI	Brass
CH-372D	72"(182CM)	3	R1234yf(A2L) Four-layer material	800PSI	4000PSI	Brass
QUICK CHARGING KITS | self-piercing and self-sealing						
JF-001	42 cm	1	R134a	Self-piercing	Standard	Quick charging
JF-006B	32 cm	1	9 refrigerants	Universal	Standard	Quick charging
JF-007	42 cm	1	R134a	Self-sealing	Standard	Quick charging
JF-009	42 cm	1	R1234yf	Self-sealing	Standard	Quick charging

Grade A 500 / 2500 PSI for R12, R22, R502. Grade B 600 / 3000 for R22, R134a, R404A, R407C. Grade C 800 / 4000 for R410A, R32. Grade D 800 / 4000 four-layer for R1234yf (A2L). Suffix J with wrench, AF brass outer with iron core plated brass, E with ball valve.

QUICK COUPLERS

13 models · QC-12 to QC-22 · R134a, R1234yf and R744 · specs in the table



QC-12
R134a · straight



QC-13
R134a · 90 degree



QC-14
R1234yf · straight



QC-15
R1234yf · 90 degree



QC-16
Manual locking



QC-16B
Manual locking mini



QC-17
Locking + AD-M14



QC-17B
Locking mini + AD-M12



QC-18
Protection cover



QC-19
Cover · SAE J639



QC-20
Conversion kit



QC-21
Extended high side



QC-22
R744 · 170 bar

Model	Refrigerant	Knob	Port size	Adapter	Application / note
QC-12	R134a	No	SAE 1/4"	-	Straight, push-pull
QC-13	R134a	No	SAE 1/4"	-	90 degree elbow
QC-14	R1234yf	No	SAE 1/4"	-	Straight, push-pull
QC-15	R1234yf	No	SAE 1/4"	-	90 degree elbow
QC-16	R134a	Yes	SAE 1/4"	-	Manual locking
QC-16B	R134a	Yes	SAE 1/4"	-	Manual locking, mini shape
QC-17	R134a	Yes	SAE 1/4"	AD-M14	Manual locking, with adapter
QC-17B	R134a	Yes	SAE 1/4"	AD-M12	Manual locking, mini, with adapter
QC-18	R134a	Yes	SAE 1/4"	AD-M14	With protection cover
QC-19	R1234yf	Yes	SAE 1/4"	AD-M12	Protection cover, SAE J639
QC-20	R134a to R1234yf	No	R134a spec	-	Conversion kit
QC-21	R134a	Yes	SAE 1/4"	AD-M14	Extended high side, BMW / Volvo
QC-22	R744 (CO2)	Yes	G1/4"	-	170 bar / 2466 psi, SAE J639

Adapters AD-M12 (1/4 SAE x M12-1.5) and AD-M14 (1/4 SAE x M14-1.5). One-hand connect and disconnect, compatible with standard service ports.

PRODUCT FEATURES

One-hand connect
Push-pull sleeve locks in a single motion

R744 rated
QC-22 handles 170 bar / 2466 psi, SAE J639

Conversion set
QC-20 upgrades R134a vehicles to R1234yf

Metric ports
AD-M12 / AD-M14 adapters for non-SAE ports

Locking and covers
Knob lock on six models, covers on QC-18 / 19

One range, 13 models
R134a, R1234yf and R744, no gaps

CAN TAP VALVES

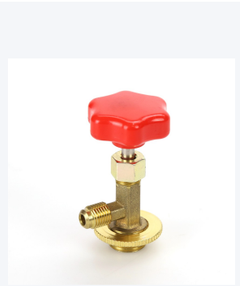
17 models · CT series · J suffix with wrench · specs in the table



CT-338



CT-338J



CT-339



CT-339J



CT-340



CT-340J



CT-341



CT-341J



CT-342



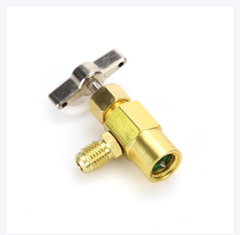
CT-342J



CT-343



CT-343J



CT-345



CT-345J



CT-351



CT-361



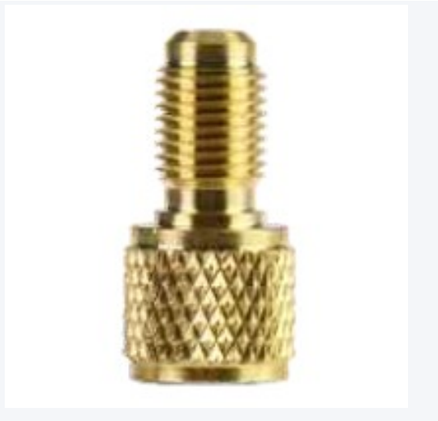
CT-362

Model	Application	Explosion	Pressure	Piercing	Sealing	Body	Knob	Backflow
CT-338	R22	Yes	Yes	No	No	brass	Engineering plastics	No
CT-338J	R22	Yes	Yes	No	No	brass	aluminium	No, optional
CT-339	R134a	Yes	Yes	No	No	brass	Engineering plastics	No
CT-339J	R134a	Yes	Yes	No	No	brass	aluminium	Yes, standard
CT-340	Universal	Yes	Yes	No	Yes	brass	Engineering plastics	No
CT-340J	Universal	Yes	Yes	No	Yes	brass	aluminium	No, optional
CT-341	R22/R134a/R410(7/16-28)	Yes	Yes	No	No	brass	Engineering plastics	No
CT-341J	R22/R134a/R410(7/16-28)	Yes	Yes	No	No	brass	aluminium	No, optional
CT-342	R134a(USA)	No	Yes	Yes	No	brass	zinc alloy/aluminium	No
CT-342J	R134a(USA)	No	Yes	Yes	No	brass	aluminium	No, optional
CT-343	R134a(USA)	No	Yes	Yes	No	brass	zinc alloy/aluminium	No
CT-343J	R134a(USA)	No	Yes	Yes	No	brass	aluminium	No, optional
CT-345	R1234yf(USA)	No	No	No	Yes	brass	zinc alloy/aluminium	No
CT-345J	R1234yf(USA)	No	No	No	Yes	brass	aluminium	No, optional
CT-351	6mm/8mm/10mm, Suitable for pipe diameters1/4", 5/16", 3/8"	No	No	No	No	zinc alloy	zinc alloy	No
CT-361	R22/R410	No	No	No	No	brass	aluminium	No
CT-362	R22/R410	No	No	No	No	brass	aluminium	No

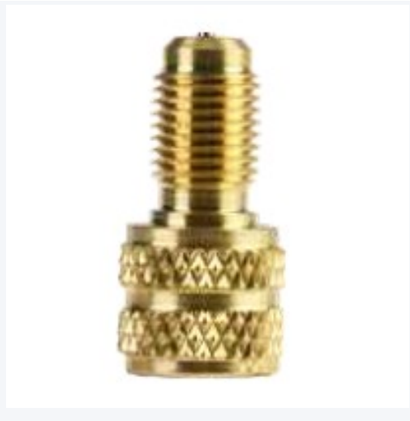
Brass valve body throughout except CT-351 (zinc alloy weldless piercing valve for 6 / 8 / 10 mm pipe). All J models ship without backflow prevention as standard and can be ordered with it, except CT-339J which includes it as standard; CT-361 and CT-362 add a retention safety valve.

ADAPTERS & BALL VALVES

conversion adapters · charging ball valves · specs in the table



AD-10A



AD-30A



AD-40



AD-51



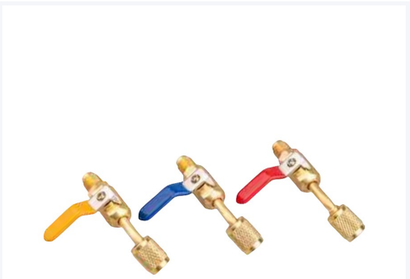
AD-65



AD-M12



AD-M14



LY-BV01
ball valve



LY-BV02
ball valve

Model	Female end	Male end	Option / use
AD-10A	1/2 ACME	1/4SAE	Option threads 1/4", 5/16", M12-1.5 - R12 / R22 cans and 1/2 ACME lines
AD-30A	5/16 SAE	1/4SAE	R410A 5/16 SAE ports to 1/4 SAE hose
AD-40	3/8 SAE	1/4SAE	3/8 SAE ports to 1/4 SAE hose
AD-51	1/4 SAE	R134a	1/4 SAE to R134a service port
AD-65	3/8 SAE -LH	R1234yf	3/8 SAE-LH to R1234yf service port
AD-M12	1/4 SAE	M12-1.5	Metric port conversion, supplied with QC-17B / QC-19
AD-M14	1/4 SAE	M14-1.5	Metric port conversion, supplied with QC-17 / QC-18 / QC-21
LY-BV01	Hose end	1/4" - 1/2" ACME	Charging ball valve, shuts the line, part-turn operation
LY-BV02	Hose end	M12-1.5 / M12-1.5L	Metric charging ball valve, ISO / UNC-UNF / NPT on request

Ball valves fit on the charging hose end and shut the line after charging, so residual refrigerant stays inside the hose instead of venting to atmosphere. Thread options include 1/4", 5/16", M12-1.5, M12-1.5L, 1/2 ACME and 3/8".

VACUUM PUMPS

27 models · cordless, brushless DC, single and double stage · full specification table



LY-VP01
single stage 1.5 CFM



LY-VPL02
cordless battery 2 CFM



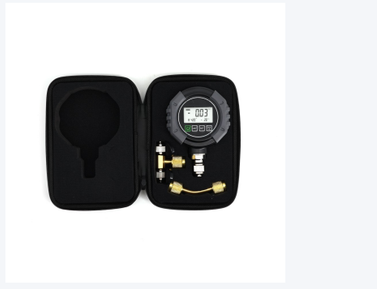
LY-VPB02
brushless DC 2 CFM

Model	Flow 50/60 Hz (CFM)	Flow (L/min)	Ultimate vacuum	Motor	Intake	Dimensions (mm)	Oil (ml)
CORDLESS BATTERY DRIVEN | 1/5 - 1/2 HP | battery pack, no mains cable							
LY-VPL02	2	56	2 Pa (150 micron)	1/5 HP	1/4"	274 x 92 x 196	250
LY-VPL02L	2	56	0.2 Pa (15 micron)	1/4 HP	1/4"	274 x 92 x 196	200
LY-VPL03	3	85	2 Pa (150 micron)	1/5 HP	1/4"	328 x 118 x 283	530
LY-VPL03L	3	85	0.2 Pa (15 micron)	1/4 HP	1/4"	328 x 118 x 283	460
LY-VPL04	4	113	2 Pa (150 micron)	1/3 HP	1/4" & 3/8"	328 x 118 x 283	330
LY-VPL04L	4	113	0.2 Pa (15 micron)	1/3 HP	1/4" & 3/8"	328 x 118 x 283	410
LY-VPL06	6	170	2 Pa (150 micron)	1/2 HP	1/4" & 3/8"	328 x 118 x 283	480
LY-VPL06L	6	170	0.2 Pa (15 micron)	1/2 HP	1/4" & 3/8"	328 x 118 x 283	360
BRUSHLESS DC | 1/5 - 1 HP | longer run time, lower noise							
LY-VPB02	2	56	2 Pa (150 micron)	1/5 HP	1/4"	307 x 129 x 284	250
LY-VPB03	3	85	2 Pa (150 micron)	1/4 HP	1/4" & 3/8"	307 x 129 x 284	530
LY-VPB04	4	113	2 Pa (150 micron)	1/3 HP	1/4" & 3/8"	307 x 129 x 284	500
LY-VPB06	6	170	2 Pa (150 micron)	1/2 HP	1/4" & 3/8"	302 x 118 x 283	480
LY-VPB08	8	226	2 Pa (150 micron)	3/4 HP	1/4" & 3/8"	349 x 138 x 304	780
LY-VPB10	10	283	2 Pa (150 micron)	1 HP	1/4" & 3/8"	349 x 138 x 304	780
SINGLE STAGE ROTARY VANE | 1/5 - 1 HP | 220V 50Hz / 110V 60Hz							
LY-VP01	1.5 / 1.8	42 / 50	2 Pa (150 micron)	1/5 HP	1/4"	252 x 104 x 207	230
LY-VP02	2 / 2.4	56 / 68	2 Pa (150 micron)	1/4 HP	1/4"	281 x 123 x 230	280
LY-VP03	3 / 3.6	85 / 100	2 Pa (150 micron)	1/4 HP	1/4"	281 x 123 x 230	280
LY-VP04	4 / 4.8	113 / 135	2 Pa (150 micron)	1/3 HP	1/4"	305 x 123 x 230	330
LY-VP06	6 / 7.2	170 / 203	2 Pa (150 micron)	1/2 HP	1/4" & 3/8"	332 x 129 x 242	450
LY-VP08	8 / 9.6	226 / 270	2 Pa (150 micron)	3/4 HP	1/4" & 3/8"	383 x 138 x 255	780
LY-VP12	12 / 14.4	340 / 407	2 Pa (150 micron)	1 HP	1/4" & 3/8"	383 x 138 x 255	780
DOUBLE STAGE ROTARY VANE | 1/3 - 1 1/2 HP | 220V 50Hz / 110V 60Hz							
LY-2VP01	2 / 2.4	56 / 68	0.2 Pa (15 micron)	1/3 HP	1/4"	305 x 123 x 230	330
LY-2VP02	3 / 3.6	85 / 100	0.2 Pa (15 micron)	1/2 HP	1/4" & 3/8"	332 x 129 x 242	500
LY-2VP04	4 / 4.8	113 / 135	0.2 Pa (15 micron)	1/2 HP	1/4" & 3/8"	332 x 129 x 242	500
LY-2VP06	6 / 7.2	170 / 203	0.2 Pa (15 micron)	3/4 HP	1/4" & 3/8"	332 x 129 x 242	500
LY-2VP08	8 / 9.6	226 / 270	0.2 Pa (15 micron)	1 HP	1/4" & 3/8"	383 x 138 x 255	660
LY-2VP12	12 / 14.4	340 / 407	0.2 Pa (15 micron)	1 1/2 HP	1/4" & 3/8"	383 x 138 x 255	660

Integrated body, precision rotor, fast evacuation; the oil refill cap doubles as an exhaust port to cut oil mist. Soft rubber-lined handle, square-shaped pump casing.

VACUUM & OIL SERVICE ACCESSORIES

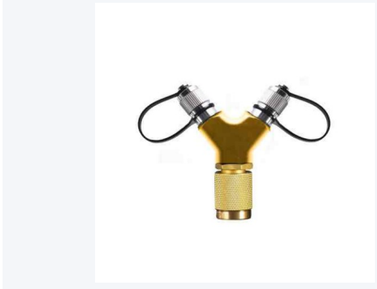
gauge · hoses · Y-connectors · chambers · oil injectors · specs in the tables



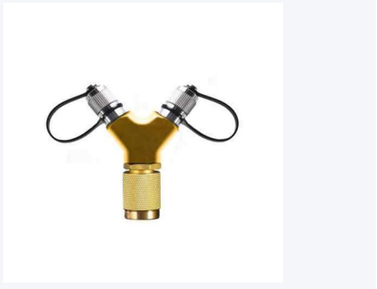
LY-VG100
digital gauge



LY-VH01
FL vacuum hose



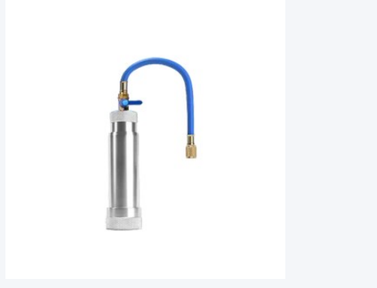
LY-VK01
rapid-Y 3/8 x 2



LY-VK02
rapid-Y 3/8 + 1/4



LY-ZKY
chamber 1.5 - 7 gal



LY-OF01
manual 7.5 ml



LY-OF02
manual 60 ml



LY-OF03
pneumatic 7.5 ml



LY-OF04
pneumatic 60 ml



PAG46
lubricant

LY-VG100	Specification
Measuring range	0 - 10000 Pa (0 - 10000 micron), resolution 1 Pa below 100 Pa
Accuracy	+/-5% of reading, 2 - 100 Pa at 20 °C
Units	Pa / mbar / mmHg / micron, switchable
Display	Backlit digital, buzzer alarm above threshold
Max overload	14 PSI / 0.1 MPa
Application	Evacuation verification, laboratory vacuum measurement

Hoses, Y-connectors & chambers	Description
LY-VH01 / VH02	FL vacuum hose, 3/8" and 1/2" diameter, 1/4" - 3/8" - 1/2" threads
LY-VK01	Rapid-Y connector, male 3/8 x 2, female 3/8 x 1
LY-VK02	Rapid-Y connector, male 3/8 x 2, female 1/4 x 1
LY-ZKY series	Vacuum chamber 1.5 / 2 / 3 / 5 / 7 gal (6 - 27 L), 15 mm PC lid, 1/4G port

Oil injection & lubricant	Drive	Capacity	Note
LY-OF01 / OF02	Manual	1/4 oz (7.5 ml) / 2 oz (60 ml)	Side low-pressure inlet, backflow protection
LY-OF03 / OF04	Pneumatic	1/4 oz (7.5 ml) / 2 oz (60 ml)	Effortless for high-volume workshop use
PAG46	Lubricant	Bottle	For R134a and R1234yf, IR-tested, European process
Leak finder	Detector	Syringe per vehicle	R134a / R1234yf, harmless to compressor and lines

PRODUCT FEATURES

Micron-level readout
VG100 resolves 1 Pa below 100 Pa

Overload alarm
Buzzer warns before the pump is stressed

Rapid-Y split
One pump feeds two lines, no extra fittings

Leak-proof chambers
15 mm PC lid, 1/4G port, 1.5 - 7 gal

No-spill oil fill
OF01/02 backflow protection, OF03/04 air driven

PAG46 lubricant
IR tested, European process, R134a and R1234yf

LEAK TEST KITS

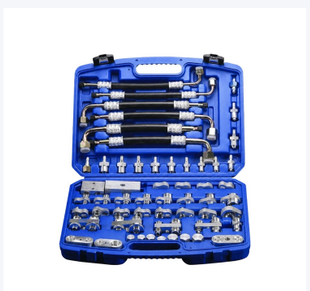
8 configurations · 26 to 123 pieces · 5 coolant pressure kits · specs in the tables



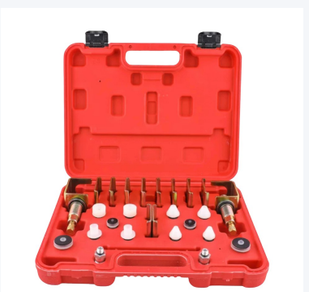
LY-LT123
123 pcs



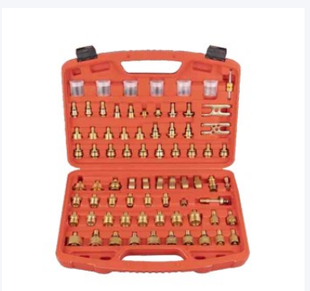
LY-LT108
108 pcs



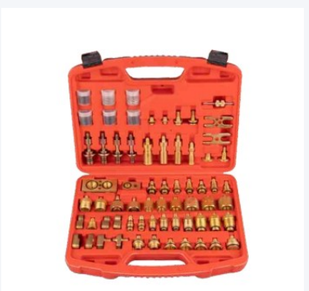
LY-LT1021
56 pcs



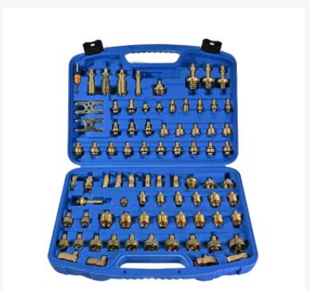
LY-LT1020
26 pcs



LY-LT1017
Asian models



LY-LT1013
European / US models



LY-LT81
81 pcs



LY-LT77
77 pcs



LY-CP14
coolant test



LY-CP18
coolant test



LY-CP28
coolant test



LY-CP31
coolant test



LY-CP34
coolant test

Model	Pieces	Positioning	Best for
LY-LT123	123	Full edition, all vehicle types	Large multi-brand service centres
LY-LT108	108	Special edition, core components	European / US models, cost efficiency
LY-LT1021	56	Large-diameter adapters, high flow	Trucks, excavators, agricultural machines
LY-LT1020	26	Universal flushing adapters, sectional testing	Most car models, light trucks
LY-LT1017	-	Asian vehicle adapter set	Asian brand dealers and export markets
LY-LT1013	-	European and American car models, 0.01 psi gauge	Micro-leak location, powertrain systems
LY-LT81	81	Professional balance	Mid-size workshops, brand specialists
LY-LT77	77	Asian and European vehicles combined, sectional testing	Garages, workshops and mobile A/C service

Coolant kit	Content
LY-CP14	Coolant pressure test, 14 pcs, colour-coded adapters, hand pump
LY-CP18	Coolant pressure test, 18 pcs, extended adapter coverage
LY-CP28	Coolant pressure test, 28 pcs, full radiator and port range
LY-CP31	Coolant pressure test, 31 pcs, workshop edition with case
LY-CP34	Coolant pressure test, 34 pcs, complete vehicle coverage

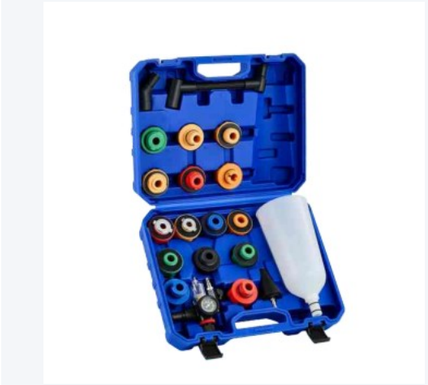
Aluminium, nylon and brass parts resistant to coolant. Colour-coded adapters match radiator cap and port sizes. Custom blow-moulded case available.

COOLANT, OIL & FUNNEL KITS

engine oil funnels · fuel pressure · cylinder test · specs in the tables



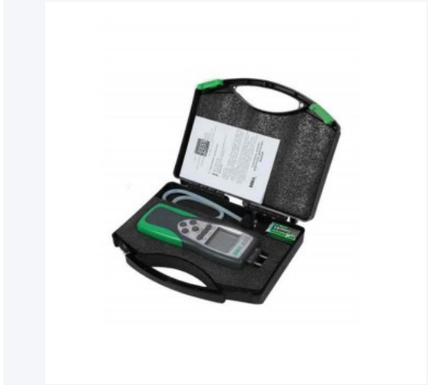
LY-FO10
10 pcs



LY-FO23
23 pcs



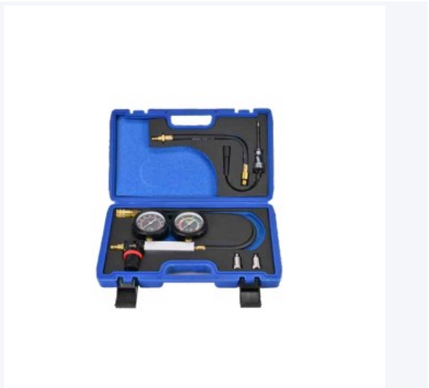
LY-FP04
folding



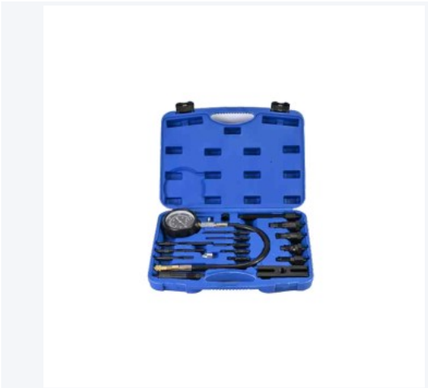
LY-EFP01
fuel pressure



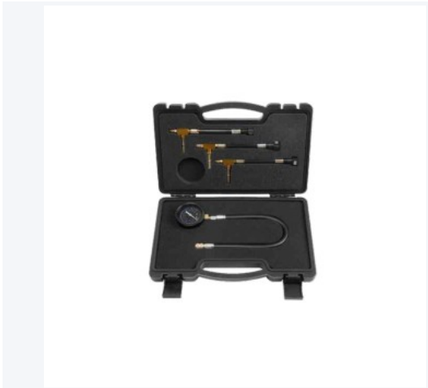
LY-FP01
13 pcs



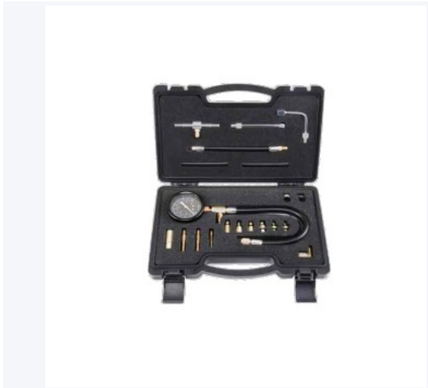
LY-FP02
leak detection



LY-FP03
workshop



LY-FP05
4 pcs



LY-FP06
20 pcs

Model	Pieces	Capacity	Feature
LY-FO10	10	2 Qt / 2 L	Oil-resistant funnel, anti-spill design, multi-bore adapters
LY-FO23	23	2 Qt / 2 L	Full engine coverage, colour-coded adapters
LY-FP04	4	Folding	Collapsible, 60% smaller packed volume, for synthetic, mineral and bio oil

Model	Pieces	Function
LY-EFP01	Kit	Fuel pump pressure re-check: differential gauge, metal adapters, 9V, case
LY-FP01	13	Engine cylinder pressure test, spark plug adapters, optimised gauge range
LY-FP02	Kit	Cylinder leak detection: regulator, flow measurement, leak rate quantification
LY-FP03	Kit	Cylinder leak tester, workshop edition
LY-FP05	4	Portable cylinder test, quick-fit, for roadside and used-car checks
LY-FP06	20	Portable cylinder test, full detection version

PRODUCT FEATURES

Anti-spill funnel
Oil-resistant body, 10 or 23 colour-coded adapters

Collapses flat
Folding funnel packs 60% smaller

Whole engine range
One funnel set covers the mainstream engines

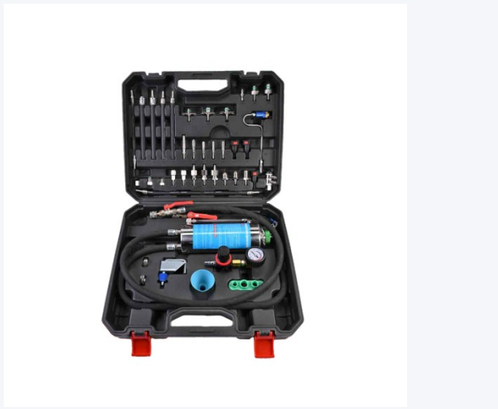
Fuel pressure re-check
EFP01 differential gauge, 9V, metal adapters

Cylinder diagnostics
FP01 compression, FP02 quantifies leak rate

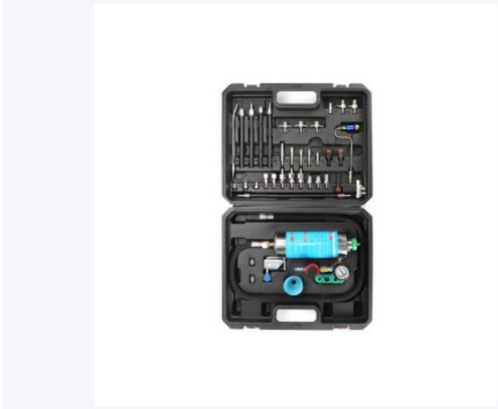
Roadside kit
FP05 quick-fit, portable cylinder test

FUEL & CLEANING SERVICE

injector cleaning · A/C flush · transfer pumps · specs in the table



LY-FC01
special edition



LY-FC02
standard edition



LY-FB01
standard



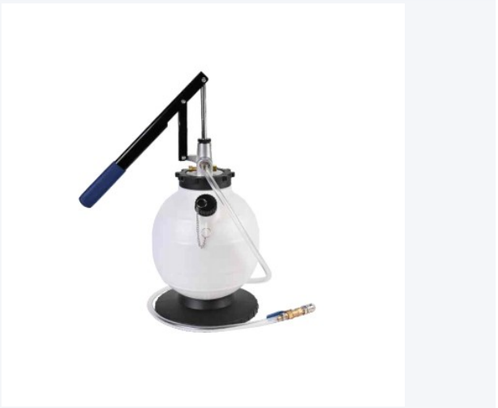
LY-FB02
aluminium bottle



LY-TF1L
1 L



LY-TF3L
3 L



LY-TF7.5L
7.5 L



LY-TF10L
10 L

INJECTOR CLEANING

LY-FC01 (special edition) and LY-FC02 (standard edition) ship with a stainless steel reservoir, an atomising nozzle and a set of vehicle adapters. The nozzle produces an even cleaning mist that dissolves injector deposits without damaging precision valve bodies.

A/C SYSTEM FLUSH

LY-FB01 (standard) and LY-FB02 (aluminium bottle upgrade) are built for deep cleaning of A/C systems. They work with light flushing solvents to remove old oil and debris; the anti-friction hose resists solvent corrosion, and the assembly uses welded-free joints.

Model	Capacity	Application
LY-TF1L	1 L	Brake fluid bottle, with 1 L waste collector
LY-TF3L	3 L	Brake and transmission fluid transfer
LY-TF7.5L	7.5 L	Transmission fluid and gear oil
LY-TF10L	10 L	High-volume drivetrain fluid service

PRODUCT FEATURES

Two cleaning editions
FC01 special duty, FC02 standard workshop

Atomising reservoir
Stainless steel, even mist, corrosion-free

Rail-port coverage
Adapters for mainstream fuel rail ports

Flush kits
FB01 standard, FB02 aluminium bottle

Transfer pumps
1 / 3 / 7.5 / 10 L, brake to gear oil

Sealed tank
Corrosion-resistant, welded-free joints

REFRIGERANT RECOVERY UNITS

brushless DC 1 HP · oil-free piston 3/4 and 1 HP · vapour, liquid and push-pull · full specs



LY-RM03
brushless DC 1 HP, 3000 rpm



LY-RM01 A/B
oil-free piston 3/4 - 1 HP



LY-RM02 A/B
adds R32 / R1234yf

LY-RM03	Specification
Compatible refrigerant III	R12, R134a, R401C, R406A, R500, R1234yf
Compatible refrigerant IV	R22, R401A, R401B, R402B, R407C, R407D, R408A, R409A, R502, R509
Compatible refrigerant V	R402A, R404A, R407A, R407B, R410A, R507, R32
Power supply	220 - 230V AC 50/60Hz or 115V AC 60Hz
Max current	6 A at 220V / 12 A at 115V
Motor	Brushless DC, 1 HP, 3000 rpm
Compressor	Oil-less, air-cooled piston
High-pressure cut-off	38.5 bar / 3850 kPa
Operating temperature	0 - 40 °C / 32 - 104 °F
Recovery rate liquid	R134a 3.36 kg/min · R22 4.0 kg/min · R410A 4.2 kg/min
Recovery rate push-pull	R134a 7.5 kg/min · R22 8.5 kg/min · R410A 9.5 kg/min
Protection	Self-purge, low-pressure auto stop, high-pressure cut-off

Model	LY-RM01A	LY-RM01B
Motor power	3/4 HP	1 HP
Compressor	Oil-less, piston style, air cooled	Oil-less, piston style, air cooled
Power supply	220 - 240V AC 50/60Hz, 110 - 120V AC 60Hz	220 - 240V AC 50/60Hz, 110 - 120V AC 60Hz
High-pressure cut-off	38.5 bar / 3850 kPa	38.5 bar / 3850 kPa
Operating temperature	0 - 40 °C / 32 - 104 °F	0 - 40 °C / 32 - 104 °F
Compatible refrigerant	III / IV / V, lists as LY-RM03	III / IV / V, lists as LY-RM03
Vapour recovery	0.26 kg/min	0.52 kg/min
Liquid recovery	1.85 kg/min	3.70 kg/min
Push-pull	6.22 kg/min	9.95 kg/min

Model	LY-RM02A	LY-RM02B
Motor power	3/4 HP	1 HP
Compressor	Oil-less, piston style, air cooled	Oil-less, piston style, air cooled
Power supply	220 - 240V AC 50/60Hz, 110 - 120V AC 60Hz	220 - 240V AC 50/60Hz, 110 - 120V AC 60Hz
High-pressure cut-off	38.5 bar / 3850 kPa	38.5 bar / 3850 kPa
Operating temperature	0 - 40 °C / 32 - 104 °F	0 - 40 °C / 32 - 104 °F
Compatible refrigerant	III / IV / V, adds R1234yf and R32	III / IV / V, adds R1234yf and R32
Vapour recovery	0.26 kg/min	0.52 kg/min
Liquid recovery	1.85 kg/min	3.70 kg/min
Push-pull	6.22 kg/min	9.95 kg/min

PRODUCT FEATURES

- Oil-free compressor recovers vapour and all kinds of liquid refrigerant
- Self-purge function cleans up the remaining refrigerant in the machine
- Low pressure protection, automatic stop
- High pressure protection with cut-off switch

Fixed-speed recovery on RM01 and RM02: vapour and liquid refrigerant are recovered through the oil-free piston compressor, push-pull mode is used for large charges. Compatible refrigerants follow the three lists given in the LY-RM03 table.

SIGHT GLASS & SYSTEM PARTS

sight glasses · valve core tools · KM hand valves · specs in the tables



LY-SGD01
sight glass kit



LY-SG01
SAE



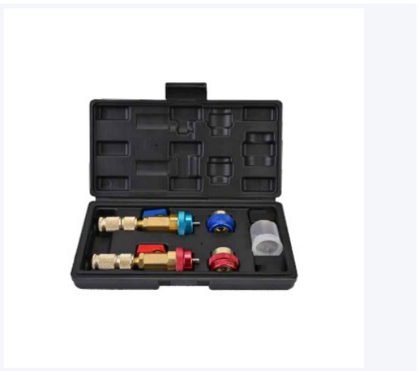
LY-SG02
ODF



LY-VC01
valve core



LY-VC02
ball valve



LY-VC13
removal kit



LY-VC13J
aluminium knob



LY-HF01
SAE



LY-HF02
ODF

Model	Type	Description
LY-SGD01	Sight glass kit	R134a inspection window, refrigerant condition chart, ball valve control, refrigerant returned to system
LY-SG01	Sight glass, SAE	Moisture indicator changes colour, 1/4" - 5/8" ports
LY-SG02	Sight glass, ODF	Solder connection version of SG01

Model	Type	Description
LY-VC01	Valve core tool	Basic model, metal ball valve switch, R410A brass adapter 1/4 SAE to 5/16 SAE
LY-VC02	Valve core tool	Ball valve control, for R22 / R12 / R410A / R32 / R404 / R407 / R507
LY-VC13	Removal kit	For R134a / R1234yf, four core sizes, high-low side adjuster
LY-VC13J	Removal kit	Aluminium knob version of VC13

Model	Type	Description
LY-HF01	Hand valve, SAE	Diaphragm valve for unidirectional flow, 1/4" to 3/4" sizes
LY-HF02	Hand valve, ODF	Solder version, liquid / suction / hot gas lines

PRODUCT FEATURES

Moisture you can see
SG01 indicator changes colour across 14 - 58° ports

Full kit option
SGD01 adds condition chart and valve control

Four core sizes
VC13 works both high and low side

Ball valve control
VC02 shuts the flow without losing the charge

Diaphragm hand valves
HF01 SAE / HF02 ODF, 1/4 to 3/4 in

Line coverage
Liquid, suction and hot gas lines