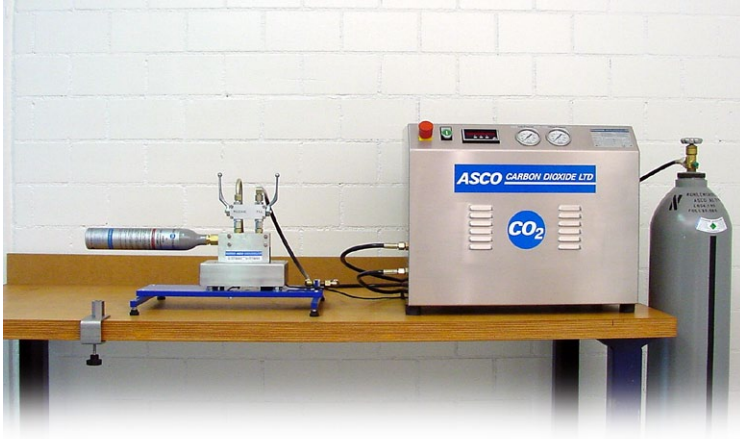


Cylinder Filling Systems

CO₂ Cylinder Filling System HH110AS

part no. 902300



The compact **ASCO** CO₂ Cartridge/Cylinder Filling System type HH110AS is designed for easy and accurate filling of small high pressure CO₂ cartridges or cylinders from standard high pressure liquid CO₂ cylinders. The system is supplied ready for immediate use.

Advantages of HH110AS:

- Very robust pump built into stainless steel cabinet, with service door
- Electronic control and filling with automatic stop when preset filling weight is reached
- Automatic zero-adjustment
- Filling weight setting via digital indicator
- Two pressure gauges showing CO₂ supply and filling pressures
- CO₂ inlet filter
- Emergency „stop“ button
- 2 m electrical connection cable
- Two CO₂ high pressure hoses to interconnect CO₂ cylinder and filling unit
- Safety valve 130 bar

Scale with filling adapter:

- Scale with load cell (in steps of 2 grams)
- Two different filling adapters for Soda Club/Soda Stream, Soda Fresh and 1/2" BSP
- Additional adapters are available on request
- Complete scale and filling unit is built on a robust base frame
- Filling and discharge valves
- Platform kit for CO₂ cylinders with a gross weight of max. 10 kg (optional)

Specifications

Pump dimension (L x W x H) / weight:	605 x 403 x 501 mm / approx. 48 kg
Scale dimension (L x W x H) / weight:	500 x 362 x 370 mm / approx. 11 kg
Platform kit dimension (L x W x H) / weight:	250 (420) x 200 x 320 mm / approx. 3 kg
Pump capacity (continuously):	approx. 110 kg/hr
Filling capacity (example):	1 cartridge of 450 gr in approx. 15 seconds
Voltage:	400 V, 50 Hz, 3 Ph + N + PE (other voltages on request)
Power consumption:	1.1 kW
Differential pressure (max.):	90 bar
Operating pressure (max.):	130 bar
CO ₂ source:	CO ₂ cylinder with siphon tube inside



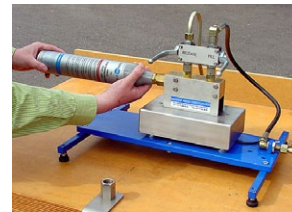
Easy to use:



1. Set exact CO₂ filling weight for cylinders to be filled.



2. Empty cartridge / cylinder with device included with system.



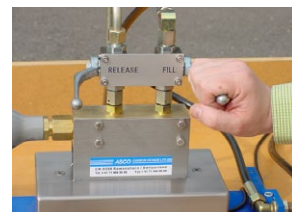
3. Connect cartridge to filling head.



4. Open filling valve.



5. Press start button and wait until cartridge is full. Pump stops then automatically.



6. Close filling valve.



7. Open release valve for one second and close it again.



8. Disconnect cartridge.



9. Check filled weight on separate scale (option).

Standardly included in the delivery of HH110AS:

CO₂ Cylinder Filling System HH110AS

Complete CO₂ cartridge/cylinder filling system with a capacity of approx. 110 kg/hr, with automatic shut-off, comprising:

- pump with motor on base frame
- pulleys
- drive belt
- one safety valve 130 bar
- pressure gauges for tank- and filling pressure
- motor switch
- electric control box

Built in a stainless steel cabinet.

Voltage: 3 x 400 V / 50 Hz

Pump dimension: 605 x 403 x 501 mm (L x W x H)

Electronic scale with load cell

(in steps of 2 grams), 2 different filling adaptors for Soda Club/Stream, Soda Fresh and 1/2" BSP, electronic scale with digital indicator, filling and discharge valves, complete scale and filling unit is built on a robust platform.

Scale dimension: 500 x 362 x 370 mm (L x W x H)

part no. 902300



Options for HH110AS:

Pos. 001

Set of recommended spares for HH110AS

part no. 902320

Consisting of:

- 6 pcs non return valve (902711)
- 3 pcs sealing kit (902712)



Pos. 002

Platform-Set for HH110AS

part no. 902705

Additional platform for small CO₂ cylinders and fire extinguishers consisting of:

- stainless steel platform with anti slip
- adaptor for CO₂ cylinder/10L
- adaptor CO₂-G1/4" for HH110AS
- male stud elbow 10L/1/4"
- high pressure hose DN6/10L
- gasket Ø 19 mm x Ø 12 x 3.2 mm



Pos. 003

Portable Digital Scale

part no. 902310

The 12.5 mm high display is one of high visibility liquid crystal integrated into the scale and the housing is of PP/ABS - an easily cleaned and maintained material, for industrial environments.

Operation is simplicity itself with only one key for on/off, tare and additive weighing. One touch control.

Capacity: 0 - 20 kg
Removable stainless steel platform.
To be used with a 9 V block battery (not included)
Automatic switch off.



Cylinder Filling Systems

CO₂ Cylinder Filling System LH800MRC



The **ASCO** CO₂ Cylinder Filling System LH800MRC has been designed to manually fill CO₂ cylinders.

The **ASCO** CO₂ Cylinder Filling System type LH800MRC (manual revert compact) comprises of a low to high pressure liquid CO₂ pump with a capacity of 800 kg/hr, a filling head plus a stand for the filling head and filling hose. Optionally available is a set of scale SK160.

Like all **ASCO** Equipment, the complete **ASCOMATIC K4** Electronic Cylinder Filling and Weighing System is thoroughly factory pretested before despatch.

Applications of a LH800MRC:

- to manually fill liquid CO₂ into high pressure CO₂ cylinders
- to manually fill fire extinguishers with CO₂

Specifications

Dimension (L x W x H):	920 x 540 x 1'000 mm
Weight net:	180 kg
Nominal capacity:	800 kg/hr
Operating voltage:	400 V, 50 Hz, 3 Ph + N + PE (other voltages on request)
Power consumption:	4 kW
Differential pressure (max.):	110 bar
Operating pressure (max.):	130 bar
Inlet pressure (approx.):	15 - 20 bar
CO ₂ inlet connection:	Ø OD 22 mm (from CO ₂ tank to pump)
CO ₂ outlet connection:	Ø OD 15 mm (from pump back to tank, by-pass)

Standardly included in the delivery of LH800MRC:

CO₂ Cylinder Filling System LH800MRC

part no. 902001

Complete low-to-high CO₂ cylinder filling system with manual shut-off and manual revert, consisting of:

- pump with motor (capacity up to 800 kg/hr)
- pulleys
- drive belt
- two safety valve 130 bar
- pressure gauges
- 3-way-valve
- filling hose
- 2-way-ball valve
- cylinder filling head W19
- non return valve
- main switch
- cabinet in stainless steel

The complete system is prewired and pretested.



Options for LH800MRC:

Pos. 001

Spare Parts Kit for LH800MRC

part no. 902220

Consisting of:

- 1 pce grease silicone, foodgrade, (130000)
- 1 pce set of packing rings (8 pcs), (902018)
- 1 pce forming tool for packing rings, (902032)
- 1 pce special tool for packing rings, (902034)
- 4 pcs O-rings ID32.93x3.53 mm, (902064)
- 1 pce gasket for filling head W19, (902588)
- 2 pcs RHV cartridges OUT (902015)
- 2 pcs RHV cartridges IN (902047)



Pos. 002

Connecting Kit for LH800MRC

part no. 902215

For flexible connection of the pump with the pipework

Consisting of:

- 902244 hose 22L
- 902245 hose 15L
- 110009 coupling 15LR-G1/2"
- 110002 coupling 22LR-G3/4"
- 115057 welding socket 3/4"
- 115058 welding socket 1/2"



Pos. 003

Indicator with Scale SK160

part no. 902290

Scale with digital indicator with a weighing capacity of up to 150 kg.
Robust construction with stainless steel platform.

(without CO₂ cylinder)



Cylinder Filling Systems

CO₂ Cylinder Filling System LH800AR



The LH800AR Liquid CO₂ Filling Pump and **ASCOMATIC K4** weighing computer has been developed as an universal unit for the filling by weight of high pressure CO₂ cylinders.

Like all **ASCO** Equipment, the complete **ASCOMATIC K4** Electronic Cylinder Filling and Weighing System is thoroughly factory pretested before despatch.

Easy operation

Switch on your **ASCOMATIC K4** and the unit automatically tares itself to „0“ which will show on the indicator display.

After placing a cylinder on the platform, the display will show the accurate tare weight of the cylinder, allowing the operator to check whether the empty cylinder weight is correct.

The chosen filling weight can now be set on the display by pressing the relevant keys (when filling the same size of cylinder, the filling weight need only be entered once).

Press the start button to commence automatic filling. The display will then show the weight being filled.

When the desired filling weight is reached and displayed, the solenoid valves of the **ASCO** LH800AR Pump will automatically switch to run the system in by-pass.

Advantages of a LH800AR:

- automatic operation
- accurate filling
- reliable design
- robust construction
- low cost investment
- easy and safe to operate

Specifications

Dimension (L x W x H):	920 x 540 x 890 mm
Weight net:	220 kg
Nominal capacity:	800 kg/hr
Operating voltage:	400 V, 50 Hz, 3 Ph + N + PE (other voltages on request)
Power consumption:	4 kW
Differential pressure (max.):	110 bar
Operating pressure (max.):	130 bar
Inlet pressure (approx.):	18 bar
CO ₂ inlet connection:	Ø OD 22 mm (from CO ₂ tank to pump)
CO ₂ outlet connection:	Ø OD 15 mm (from pump back to tank, by-pass)

The complete ASCO Electronic CO₂ Cylinder Filling System (Twin Fill):



Using 2 filling stands you can fill a CO₂ cylinder while you prepare the other one on the second filling stand for filling. The Twin Fill Control Box ensures that only one filling stand is in operation at a time.

Twin Fill Control Box and second **ASCOMATIC K4** filling stand can be added to a LH800AR at any time.

As shown above the complete **ASCO** Electronic CO₂ Cylinder Filling System (Twin Fill) comprises:

1. **ASCO** Low to High Pressure Liquid CO₂ Transfer Pump type LH800AR
2. **ASCOMATIC K4** electronic weighing indicator, on its own stand.
3. A specially developed, very robust, weighing platform featuring an inbuilt high quality load cell. The platform is large enough to allow almost any cylinder to be filled.
4. Cylinder filling stand with "quick connect" and smooth moving filling head system with counterbalance.

Standardly included in the delivery of LH800AR:

CO₂ Cylinder Filling Pump LH800AR

Complete CO₂ Cylinder Filling Pump with a capacity of 800 kg/hr, with automatic revert and automatic shut-off

Comprising:

- pump with motor on base frame
- pulleys
- drive belt
- one safety valve 130 bar
- pressure gauges for tank and filling pressure
- solenoid valve
- motor switch
- electric control box

Built in a stainless steel cabinet.

3 x 400 V, 50/60 Hz.

To be used with *ASCOMATIC K4 Filling/Weighing System* (item no. 902270).
Also designed to be used for the optional Twin Fill Control (Item no. 902009) for 2nd *ASCOMATIC K4 Scale*.

part no. 902000



Options for LH800AR:

Pos. 001

ASCOMATIC K4 Filling/Weighing System

Electronic CO₂ Cylinder Filling/Weighing System with digital indicator, electronic weighing cell platform (375 x 525 x 2'120 mm) with a capacity up to 150 kg.
Optional: different filling heads

(without CO₂ cylinder)

part no. 902270



Pos. 002

Twin Fill Control System for LH800AR

Prewired and ready for use to connect scale type K4 on one LH800AR. Twin fill control system fitted on LH800AR cabinet, tested including:

- 1 pce twin fill control box
- 1 set connections for hoses to filling stand
- 4 pcs cap screws M5x20 mm, Washers, Lock nuts

part no. 902009



Pos. 003

Filling Head Quick Connect Standard CO₂

For ASCOMATIC K4

To connect to a standard CO₂ cylinder valve with W21.8 x 1/14" DIN 477 Nr.6, Type B thread

Spares including:

- 1 pce O-ring for quick connect filling head (part no. 902120)

Also available with pin (part no. 902241), 3/4" connection (part no. 902135) and CGA 320 ANG connection (part no. 902240)

part no. 902093



Pos. 004

Spare Parts Kit for LH800AR

Consisting of:

- 1 pce grease silicone, foodgrade, (135100)
- 1 pce set of packing rings (8 pcs), (902018)
- 1 pce forming tool for packing rings, (902032)
- 1 pce special tool for packing rings, (902034)
- 4 pcs O-rings ID32.93x3.53 mm, (111510)
- 1 pce O-ring for quick connect filling head, (902120)
- 2 pcs RHV cartridge IN, type LH800 (902047)
- 2 pcs RHV cartridge OUT, type LH800 (902015)

part no. 902225



Pos. 005

Connecting Kit for LH800AR

For flexible connection of the pump with the pipework

Consisting of:

- 902244 hose 22L
- 902245 hose 15L
- 110009 coupling 15LR-G1/2"
- 110002 coupling 22LR-G3/4"
- 115057 welding socket 3/4"
- 115058 welding socket 1/2"

part no. 902215

