

All about



We manufacture and supply:

- CO2 Production Plants
- CO2 Stack Gas Recovery Plants
- CO2 Gas Recovery Systems for Dry Ice Machines
- Dry Ice Slices/Block/Pelletizer Machines
- Dry Ice Blasting Systems **ASCOJET**
- CO2 and Cryogenic Static and Transportable Tanks
- CO2 Pumps and Cylinder Filling Systems
- CO2 Atmospheric Vaporisers
- CO2 Detectors
- CO2 Flowmeters
- Low to Low Pressure CO2 Transfer Pumps
- CO2 Testing Equipment (Dew Point / Purity / Carbonation)
- Ancillary CO2 Equipment

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CO₂ Cylinder Filling Systems

- LH1000AR
- LH800AR
- LH800MRC



LH800AR ASCOMATIC K4

- **Automatic operation**
- **Accurate filling**
- **Reliable design**
- **Robust construction**
- **Low cost investment**
- **Easy and safe to operate**

The LH800AR/LH1000AR liquid CO₂ transfer pump and **ASCOMATIC K4** weighing computer has been developed as an universal unit to fill high pressure CO₂ cylinders by weight.

CO₂ Cylinder Filling System
LH800AR / LH1000AR
 with **ASCOMATIC K4**



The LH800AR / LH1000AR liquid CO₂ transfer pump and **ASCOMATIC K4** weighing computer has been developed as an universal unit for the filling by weight of high pressure CO₂ cylinders.

As shown above the complete **ASCO** electronic CO₂ cylinder filling system comprises:

1. **ASCO** low to high pressure liquid CO₂ transfer pump type LH800AR or LH1000AR
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.

CO₂ Cylinder Filling System
LH800MRC



LH800 MRC

SK160



As shown above the complete **ASCO** CO₂ cylinder filling system comprises:

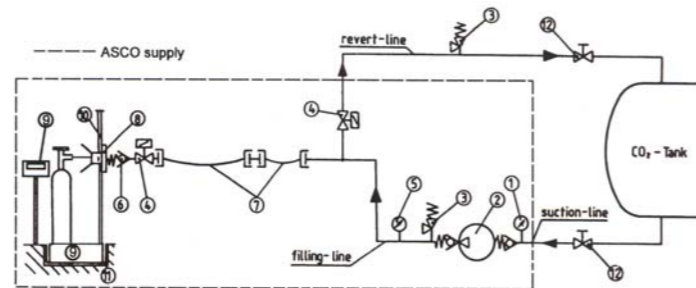
1. **ASCO** low to high pressure liquid CO₂ transfer pump type LH800 MRC (capacity 800kg/hr) all built into a compact stainless steel cabinet.

Optional:

2. Set of scales type SK160 (load cell type and incl. digital read out) with cylinder filling head.

Technical specifications of LH800AR/LH1000AR with ASCOMATIC K4 and electronic platform:

Pump description	LH800AR	LH1000AR
Nominal capacity	800 kg/hr	1'000 kg/hr
Differential pressure (max.)	110 bar	110 bar
Operating pressure (max.)	130 bar	130 bar
Inlet pressure (approx.)	18 bar	18 bar
Electric motor	4 kW	4 kW



- 1 low pressure gauge
- 2 CO2 pump
- 3 safety valve 130 bar
- 4 solenoid-valve
- 5 high pressure gauge
- 6 nonreturn-valve
- 7 high pressure hose (2 pcs for complete ASCO filling system)
- 8 cylinder filling head
- 9 ASCOMATIC K4 with automatic shut-off
- 10 ASCO cylinder filling stand
- 11 floor mounting case (optional)
- 12 ball valve

Weights, dimensions and connections of CO2 cylinder filling systems:

Pump type	LH800AR / LH1000AR	LH800MRC
Operating voltage	400 V, 3 ph, 50 Hz other voltages on request	400 V, 3 ph, 50 Hz other voltages on request
CO2 inlet connection (from CO2 tank to pump)	Ø OD 22 mm	Ø OD 22 mm
CO2 outlet connection (from pump back to tank, by-pass)	Ø OD 15 mm	Ø OD 15 mm
Dimensions (width / depth / height)	920 x 540 x 890 mm	920 x 540 x 1'000 mm
Weight net	220 kg	180 kg

ASCOMATIC WEIGHING PLATFORM	K4	SK160
Weighing range (CO2 cylinder incl. CO2)	7 - 150.0 kg	7 - 150.0 kg
Size (width / depth / height)	375 x 525 x 2'120 mm	375 x 525 x 1'188 mm
Overall height of filling stand	2'000 mm	1'770 mm
Operating voltage of weighing display	to be connected to pump	220V AC / 9V DC
Weight net (platform, stand and display support)	42.6 kg	28 kg

ASCO reserves the right to modify these specifications without prior notice.

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 desired filling weight can now be set on the display by pressing the appropriate 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 / LH1000AR pump will automatically switch to run the system in by-pass.

ASCOMATIC K4



Quick connect filling



CO₂ Cylinder Filling System LH800AR / LH1000AR with **ASCOMATIC K4** and Twin Fill Control



LH800AR/LH1000AR with **ASCOMATIC K4** and Twin Fill Control Device

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 Device

Twin Fill Control box and second **ASCOMATIC K4** filling stand can be added to a LH800AR or LH1000AR at any time.

For the fastest connection between filling head and CO2 cylinder



Place CO2 cylinder on scale platform. 1



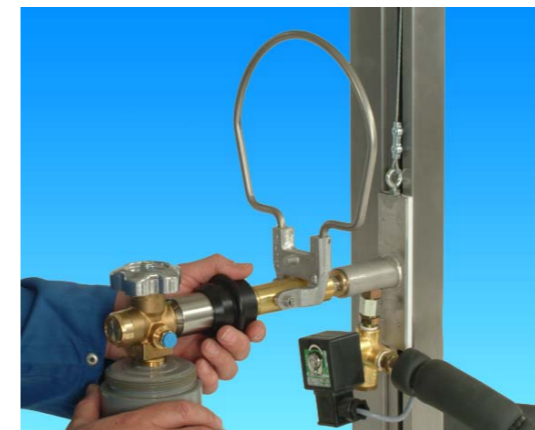
Turn down the handle which automatically opens the built-in non return valve. 4



Slide rubber ring towards valve. 2



Fast and safe high pressure connection is guaranteed. 5



Fit quick connect filling head to cylinder valve. 3



Slowly open CO2 valve. The CO2 cylinder is now ready to be filled. 6