



Backroom Package



Product Manual





Contents

Section	Content
1	Safety
2	Introduction and overview
3	Installation
4	Service and maintenance
5	Fault finding
6	Product specifications
7	Parts and exploded views
8	Wiring diagrams
9	Plumbing schematics





SAFETY

Read this booklet before undertaking installation or maintenance. Recognise safety alerts – isolate the power supply before removing panels.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance.

- **DANGER** Indicates an immediate hazardous situation which, if not avoided, **WILL** result in serious injury, death, or equipment damage.
- **WARNING** Indicates an immediate hazardous situation which, if not avoided, **COULD** result in serious injury, death, or equipment damage.
- **CAUTION -** Indicates an immediate hazardous situation which, if not avoided, **MAY** result in minor or moderate injury, or equipment damage.

Handling and Transportation

Keep in an upright position.

Do not drag over rough floors or down steps.

SAFETY TIPS

- Carefully read and follow all safety messages in this manual and safety signs on the unit.
- Keep safety signs in good condition and replace missing or damaged items.
- Learn how to operate the unit and how to use the controls properly.
- Keep your unit in proper working condition and do not allow unauthorized modifications to the unit.

WARNING: Only trained and certified electrical, plumbing and refrigeration technicians should service this unit. ALL WIRING AND PLUMBING MUST CONFORM TO NATIONAL AND LOCAL CODES OF PRACTICE. FAILURE TO COMPLY COULD RESULT IN SERIOUS INJURY, DEATH OR EQUIPMENT DAMAGE.

WARNING: If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

SAFETY PRECAUTIONS

This unit has been specifically designed to provide protection against personal injury. To ensure continued protection observe the following:

Failure to disconnect the power before commencing with any form of maintenance could result in serious injury, death or equipment damage.

WARNING: Disconnect power to the unit before servicing following notification procedures established by the user, to ensure power remains off during service work duration. Verify all of the power is off to the unit before any work is performed.

SHIPPING AND STORAGE

CAUTION: Always be sure to keep area around the unit clean and free of clutter. Failure to keep this area clean may result in injury or equipment damage.

CAUTION: Before shipping, storing, or relocating the unit, water must be drained from the system. A freezing ambient environment will cause residual water remaining inside the unit to freeze resulting in damage to internal components.





The products, technical information, and instructions contained in this manual are subject to change without notice. These instructions are not intended to cover all details or variations of the equipment, or to provide for every possible contingency in the installation, operation or maintenance of this equipment. This manual assumes that the person(s) working on the equipment have been trained and are skilled in working with electrical, plumbing and mechanical equipment. It is assumed that appropriate safety precautions are taken and that all local safety and construction requirements are being met, in addition to the information contained in this manual.

This Product is warranted only as provided in Cornelius' Commercial Warranty applicable to this Product and is subject to all of the restrictions and limitations contained in the Commercial Warranty.

Cornelius will not be responsible for any repair, replacement or other service required by or loss or damage resulting from any of the following occurrences, including but not limited to, (1) other than normal and proper use and normal service conditions with respect to the Product, (2) improper voltage, (3) inadequate wiring, (4) abuse, (5) accident, (6) alteration, (7) misuse, (8) neglect, (9) unauthorised repair or the failure to utilise suitably qualified and trained persons to perform service and/or repair of the Product, (10) improper cleaning, (11) failure to follow installation, operating, cleaning or maintenance instructions, (12) use of "non-authorised" parts (i.e., parts that are not Cornelius supplied with the Product) which use voids the entire warranty, (13) Product parts in contact with water or the product dispensed which are adversely impacted by changes in liquid scale or chemical composition.

Contact Information:

To inquire about current revisions of this and other documentation or for assistance with any Cornelius product contact:

www.corneliusuk.com CorneliusCustomerService@corneliusuk.com 0044 (0) 1484 714584

Trademarks and Copyrights:

This document contains proprietary information and it may not be reproduced in any way without permission from Cornelius.

Printed in United Kingdom

Copyright © 2010, All rights reserved, IMI Cornelius UK Ltd.





2. Introduction & overview

Introduction

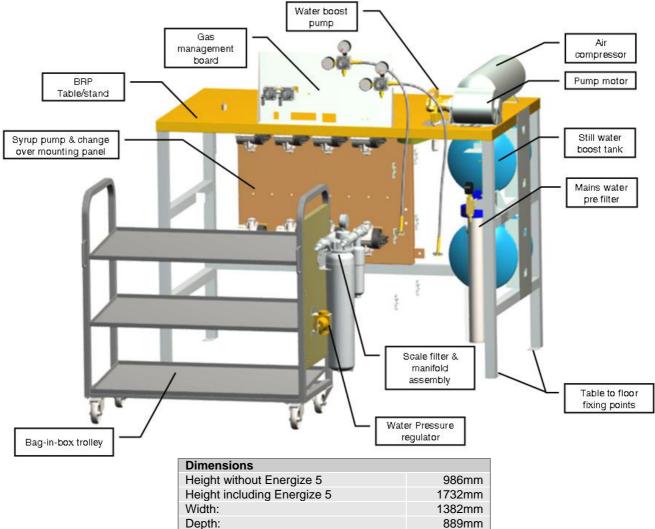
Please follow these instructions carefully. Only if Backroom Package is properly installed and maintained will trouble free operation and customer satisfaction be achieved.

The Cornelius Backroom Package is designed to accommodate the Cornelius Energize Cooler along with the ancillary water, gas and syrup systems. Located remotely in the store room, the unit has been designed with ease of access in mind for both crew members and service engineers resulting in reduced down time and simple troubleshooting.

Handling & transportation

Both syrup trolley and main table should be lifted by a minimum of 2 people, components already attached could be subject to damage, care must be taken when moving both items into position. The nature of the system requires it to be delivered in modules and care should be taken not to damage any loose packed items. Upon receipt, unpack the units carefully and visually inspect for any damage which may have been sustained during transit. Record the nature of any damage on the courier's delivery note and, at the same time inform your supplier. When unpacking any units – **Do not use a knife, as this could damage components underneath the packing materials.**

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.



Overview





3. Installation

Installation must only be carried out by suitably trained persons and must comply with national and local codes for connection to electrical supplies. It is recommended that the installation is protected by an RCCB (Residual Current Circuit Breaker).

Locating the Backroom Package

Backroom Package is designed for indoor use only.

Backroom Package may be sited within store rooms or other appropriate internal areas where the ambient air temperature is between 5°C and 43°C.

Backroom Package should not be exposed to liquid spillage, spray, steam or humidity at a level higher than 90% RH.

A supply of cold, potable water must be available with an accessible means of isolation. Pressure must be within the range 15psi (1.03 bar or 103421Pa) to 90 psi (6.2 bar or 620528Pa) with a minimum flow of 16 Litres/min. A boost pump or pressure regulator may be required to ensure this.

Locate the Backroom stand/table within 2 metres of an earthed, switched, 13 Amp, 230V 50Hz socket which is accessible for isolation of the equipment. The socket must be installed to comply with current IEE regulations.

Site the stand/table on a firm level surface, protect from physical damage. The rear of the stand/table must allow 100mm clearance at the rear to allow cooler to work correctly when sited. Wall spacers are fitted to ensure that the minimum space is made available.

There must be enough space above the stand to allow positioning of cooler, additional height must also be available to allow removal of cooler lid for servicing (For details of Energize 5 Cooler see separate Manual).

Access to all components can be made from the front of the Backroom Package once located.

DANGER - Before any amount of weight is applied to the table top, the 4 x table feet must be secured to the ground. There is also 2 x wall mount brackets supplied, and we recommend that these are secured to a solid wall where possible.

Installation - General

WARNING - The appliance must be earthed.

If not already fitted, fit the appropriate electrical plug to the service cord of the booster system.

With the unit unpacked and in position, do not connect to an electrical supply at this stage.

Installation - Location of Ancillary Items

Backroom Package is shipped with water booster system and Syrup pumps in place. Before installation it is recommended that ancillary assemblies are located in their respective positions, see illustration in overview section.

The Energize 5 Cooler alone is a significant weight (120kg empty) and must be lifted onto the stand using correct mechanical lifting equipment. Do not lift the cooler if the water bath still contains any amount of water or ice. It is the responsibility of the installation company to risk assess the installation of the Backroom Package and Energize 5 cooler, before providing a method statement to McDonalds Restaurants and the associated restaurant manager.

DANGER – Do Not use plastic handles to lift Energize 5, they are for manoeuvring at ground level only!!! Suitable mechanical lift equipment must be used in accordance with the installers method statement.

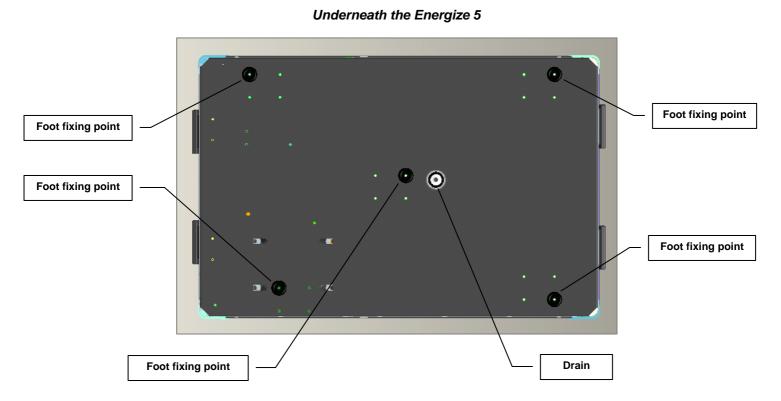




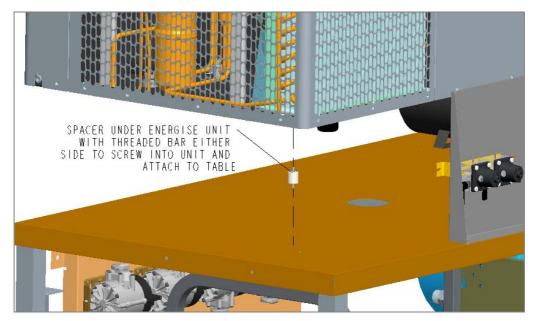
Cooler - Cooler must be located on top of the stand/table.

Cooler with Castors

To prepare the cooler, lift using a suitable device to access the underside. Remove its 5 x castors (if fitted) before replacing them with 5 x feet as supplied as part of the installation kit. The feet should be fixed to the cooler using the 5 x M5 screws as supplied. The screw secures each foot to one of the four castor fixing points. Please see diagram below, fixing point identified with black feet positions.



Once the feet are in place, lift the unit onto the stand/table. Care should be taken to ensure that water bath drain is located over hole in stand before dropping onto stand. Also ensure that securing bolts are fitted at this time.



Securing screws must be inserted through bottom of stand into location holes on base of cooler once cooler is in place.

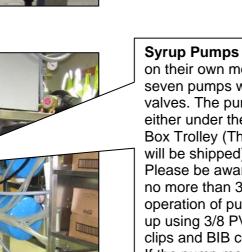
During the installation route all tubing so as to prevent undue stress, tight bends and kinking.

Air Compressor (if used) provided through the rubber mounting

Compressor is located on the end of the rack and is fitted using screws feet.

Syrup Pumps – Syrup pumps are ready assembled on their own mounting panel and are configured for seven pumps with four pumps having changeover valves. The pump mounting panel can be located either under the stand at the rear behind the Bag-in-Box Trolley (This is the configuration in which they will be shipped) or on the wall above the cooler. Please be aware that Pump Suction Line should be no more than 3m maximum length to ensure correct operation of pumps. Pump lines can then be made up using 3/8 PVC food graded tubing, 17.0 Oetiker clips and BIB connectors supplied in installation kit. If the pump mounting plate is fixed behind the BIB rack, the pump suction lines should be assembled as in photo shown.

> Air/CO₂ Panel – The panel is shipped separately and care needs to be taken unpacking this. Panel needs to be mounted when the table in front of cooler, secured to the table top with fixings provided.



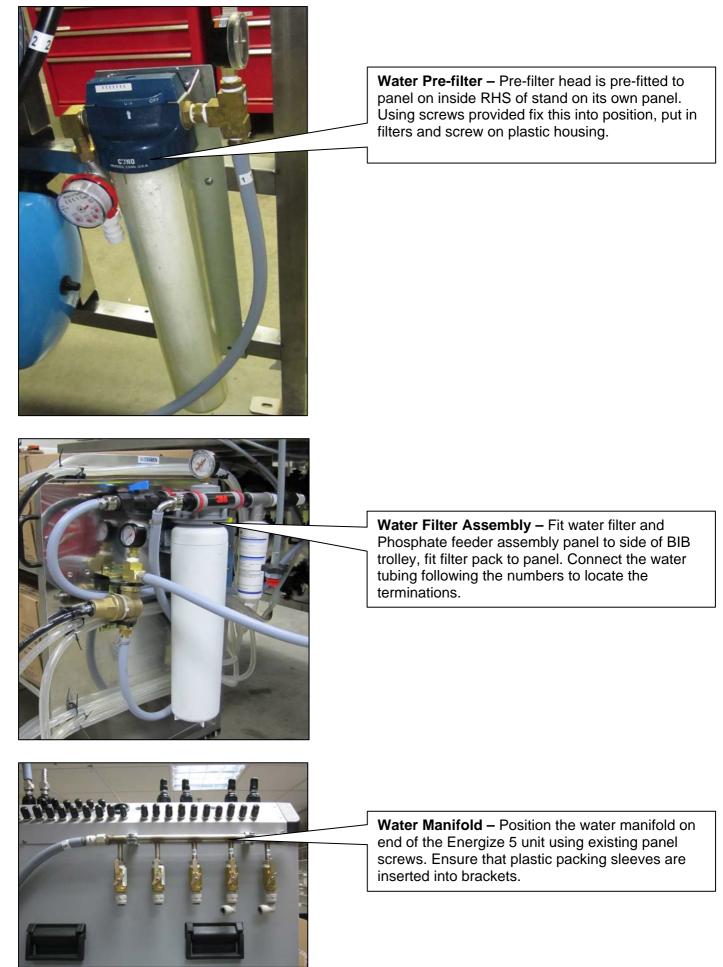
















Final Installation – Connection of components Syrup Connections

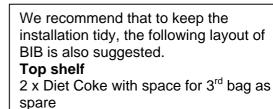


Air Connections

Syrup Lines – Pull syrup trolley out from under rack to the right so it is in maximum position for access to pumps. Syrup pumps set up as follows: Coke pumps will require to be linked together on installation. Pump suction lines can be cut to length and fitted to pump outlet/changeover valves with 17mm Oetiker clips and routed to the BIB rack. Cable tie saddles and cable ties are supplied so a neat routing can be made around the side of the rack as shown. Fit correct BIB connectors as supplied.



Air/gas supply lines are pre fixed to pumps and can be routed to gas board. When routing the lines take care not to pinch lines and secure out of the way of any items likely to be moved regularly.



Second Shelf

2 x Sprite on LHS and 1 x Oasis on RHS **Bottom Shelf**

2 x Fanta on LHS and 1 x Oasis on RHS





Only non-syphon type cylinders should be used. CO_2 cylinders should always be secured vertically with the outlet valves in the uppermost position to prevent injury through ingress of liquid carbon dioxide into the pressure regulator(s). On no account should a connection be attempted to a CO_2 cylinder other than with a purpose made high pressure assembly, which is date coded in accordance with the British Soft Drinks Association (B.S.D.A) Code of Practise.

The 1989 Electricity at Work Regulations require periodic testing of electrical equipment and this should only be carried out by a competent person.

Compliance to Standards and Legislation

EN 60335 1:2002 +A15: 2011

CE

EMC - Directive Low Voltage Directive Pressure Directive RoHS Directive Food Contact Material Directive

(2004/108/EC) (2006/95/EC) (97/23/EC) (2002/95/EC) (1935/2004/EC)

Commissioning

Once all the tubing and wiring connections are made, Turn on the Energize 5 refrigeration system following the Energize 5 manual to allow the unit to build an ice bank.

 Ensure both the secondary regulator shut-offs are in the closed position (see diagram C1) and the CO₂ ball valves supplying the carbonator are closed. (Lever in down position when off)



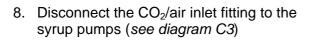
C1



2. Turn on the air compressor and switch the CO₂/air changeover to air (see diagram C2)

- 3. Check for leaks.
- 4. Slowly turn on CO_2 at the cylinder or bulk supply.
- 5. Check for leaks.
- Turn on the CO₂ ball valves supplying the carbonators and purge CO₂ at both the carbonator relief valve and the dispense valve to purge air from the system. For more details see energize 5 manual.
- 7. Check for leaks at both the Energize 5 and the dispense tower.

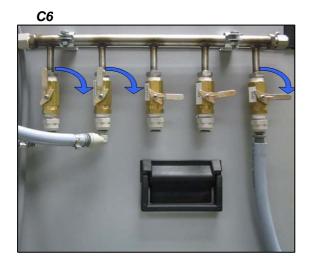


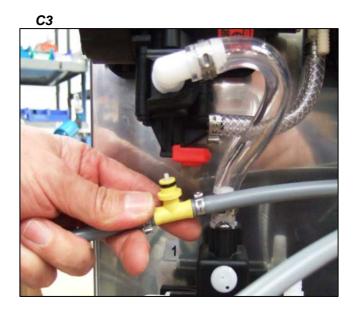


9. Adjust the pressures for both sugar and diet products and turn on the shut-offs on the secondary regulators using pressure adjustment screws. (see diagram C4)



- 12. Ensure all water valves on the manifold are turned off then turn on the water supply to the pre- filter. (*See diagram C6*)
- 13. Check for leaks between the water supply and the water manifold.





- 10. One by one connect the bag in box and reconnect the relevant CO₂/air inlet fitting to the syrup pump. The pump will run until pressure has built up in the line.
- 11. Check for leaks at both the Energize 5 and the dispense tower.



- 14. Turn on the water supply to each carbonator in the Energize 5 and turn on the carbonator and soda recirculation pump as per Energize 5 manual. The relevant carbonator filler pump will cut in when the unit senses the water supply.
- 15. After a short time the python will be fully primed with carbonated water automatically.
- 16. Ensure the Energize 5 has started creating an ice bank and adjust the brix as required at the dispense valve.





4. Service and maintenance

Service information

There are no user serviceable items inside the equipment. Maintenance and repairs must only be carried out by a properly qualified trained person.

Should the unit malfunction, suffer spillage, physical damage or component failure SWITCH OFF AND UNPLUG THE UNIT FROM THE MAINS ELECTRICAL SUPPLY.

CAUTION – Do not switch the unit 'off' and 'on' within 5 minutes.

If any maintenance/servicing is required, refer to the fault finding chart, wiring diagram and exploded drawings contained within this manual.

Only use Cornelius recommended spare parts for cooler maintenance, failure to do so will invalidate approvals and warranty.

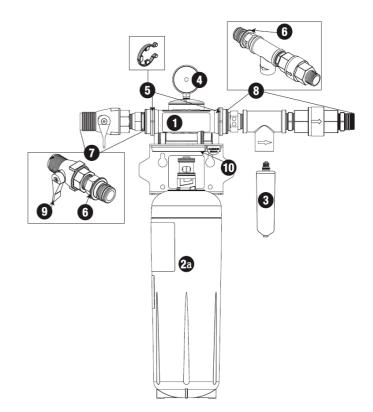
Scale filter cartridge replacement

The water filter cartridge will need to be changed every 6-12 months or when low pressure is indicated on the manifold's pressure gauge, whichever occurs first. Depending on local water quality, you may need to change the cartridges prior to the recommended change-out.

- 1. Shut off the inlet water by rotating the inlet ball valve 1/4 turn clockwise to the "OFF" position.
- 2. Depressurize system.
- 3. Push tab to release cartridge locking mechanism while simultaneously rotating cartridge slightly to the left.
- 4. Using both hands and holding cartridge from the bottom, rotate the cartridge a quarter turn to the left and gently pull down. IMPORTANT NOTE: A small amount of water will drain from manifold as cartridge is removed.
- 5. Remove sanitary cap from new cartridge. Install cartridge with a quarter turn to the right until cartridge comes to a complete stop.
- 6. Remove the small scale inhibitor cartridge by rotating to the left (counter clockwise) until the threads are disengaged. Replace with a new cartridge by rotating to the right (clockwise) until the threads are fully engaged and snug, regardless of final label orientation.
- 7. Slowly turn the inlet ball valve on the manifold 1/4 counter-clockwise to the "ON" position and check for leaks.
- 8. Flush system in accordance with the Performance Data Sheet. System is now ready for use.

Item	Description	Function
1	SF1XX Manifold Assembly	Assembly, complete
2a	HF65 Replacement	Water filtration
	Cartridge for SF165	
	System	
2b	Replacement Cartridge	Water filtration
	Options	
3	HF8-S Replacement Car-	Scale-inhibitor addition
	tridge	
4	Pressure gauge	Monitor outlet water
		pressure
5	Clip	Retain inlet/outlet fittings
6	O-ring	Seal inlet/outlet fittings
7	Inlet fitting kit –left rear	Inlet fitting with ball valve
8	Outlet fitting kit – right	Outlet to equipment
	front	
9	3/4"x3/4"ballvalve	Inlet water shut-off
10	Retainer Kit	Secure cartridge

Scale filter & manifold – parts & functions







Mains water pre-filter cartridge replacement

To reduce the risk associated with property damage due to water leakage:

The disposable filter cartridge **MUST** be replaced every 6 months or at the rated capacity or if a noticeable reduction in flow rate occurs.

- 1. Turn off incoming water supply.
- 2. Unscrew sump from filter head. Empty water from sump and dispose of spent cartridge.
- 3. Clean and inspect all components, including the o-ring seal. Lubricate o-ring seals with a light coating of food grade lubricant. Replace o-ring if there is visible damage.
- 4. Install new cartridge(s) into sump (over center post in a two high unit).
- 5. Screw sump into head until sump becomes snug and cartridge is sealed. HAND TIGHT IS SUFFICIENT. The use of a wrench for tightening is not recommended and may result in damage.
- 6. Turn on incoming water supply.



CFS01 & CFS02 Head Assembly: 6981502



← 0-ring: 63597210C



Housing, 1-high, opaque (S): 6981131C Housing, 1-high, transparent (T): 6981142

Housing, 2-high, opaque (S): 6981133 Housing, 2-high, transparent (T): 6981141C

Center Post: 6981731 (2 high only)

Wrench: 68434-32

Trouble shooting

No water flow through system	Inlet valve closed	Check shut-off valve position
	Filter clogged	Replace cartridge
Not enough water to the	Low incoming water pressure	Check source
down stream application(s)	Filter clogged	Replace cartridge
Short filter life	Temporarily dirty water	Change cartridge or install an
		additional upstream pre-filter.





5. Fault finding

CAUTION: Only qualified personnel should service internal components of electrical wiring.

WARNING: Disconnect electrical power to dispenser before attempting any electrical repairs to internal components. If repairs are to be made in CO2, syrup, carbonated water, or plain water systems, shut OFF plain water and CO2 supplies, disconnect carbonator(s) power cord(s), disconnect syrup tanks and bleed system pressures before proceeding.

Problem	Probable Cause	Corrective Action
Water pump not operating	Power cord unplugged from electrical outlet.	Plug power cord into electrical outlet.
	Electrical circuit fuse blown or circuit breaker tripped.	Replace fuse or reset circuit breaker.
	Water pump motor inoperative.	Have service technician replace inoperative motor.
	Water pump pressure switch inoperative.	Have service technician replace pressure switch.
	Thermal overload switch inoperative.	Replace the pump motor.
	Plain water inlet pressure above 85psi (5.9 bars).	Install a water regulator set to 55psi maximum.
	No water at water manifold	Check the water regulator is correctly set at 55 psi and check water is reaching the manifold.
Water pump "short cycles".	Water tank is overcharged with air or CO_2 .	Evacuate all water from water boost system. Adjust water tank pressure to 25psi (1.7 bars or 172368.9 Pa), then reactivate system.
	Check to see if valve on water pump outlet is leaking water.	Remove and clean check valve. If valve is damaged, replace.
	Water pump pressure switch is not correctly adjusted.	Adjust the pump pressure switch. (Cut-in 65psi cut-out 85psi)
Water pump "long cycles"	Water tank is under-charged with air or CO ₂ .	Evacuate all water from beverage support system. Adjust water tank pressure to 25psi (1.7 bars), then reactivate system.
	Water tank bladder is leaking.	Evacuate all water from beverage support system, then replace water tank. Adjust tank pressure to 25psi (1.7 bars), then reactivate system.
	Water pump pressure switch is not correctly adjusted.	Verify pressure switch CUT OUT pressure is adjusted at 85psi (5.9 bars)
	Water pre-filter is plugged. (This condition will be accompanied by a	If water pressure inlet gauge reads below 5psi (.34 bars or 34473.79





change in pitch of the water pump when operating).	Pa) while water pump is operating, replace water pre-filter.
Water supply shut OFF to the back room package. (This condition will be accompanied by a change in the sound of water pump when operating).	Verify water inlet shutoff valve is in OPEN position. Verify all other water shutoff valves in beverage support system are in OPEN positions.
Water pump failure.	Have service technician replace water pump.
Leak in still water lines leaving back room package	Check for water leak in lines leading to: 1. Ice Machine 2. Coffee Machine 3. Filet Bun Steamer 4. Post-Mix Dispense 5. Blended Ice

Air compressor System		
Problem	Probable Cause	Corrective Action
Air compressor does not operate.	Power cord unplugged from electrical outlet.	Plug air compressor power cord into electrical outlet.
	Power switch in OFF position.	Place power switch in ON position.
	Electrical circuit fuse blown or circuit breaker tripped.	Replace fuse or reset circuit breaker.
	Air compressor switch is inoperative.	Check and/or replace pressure switch.
	Air CO_2 change over valve on CO_2 panel set to CO_2 position.	Select desired valve position.
	Air compressor is inoperative.	Have air compressor replaced.
Air compressor "short cycles".	Air compressor pressure switch is not correctly adjusted.	Have service technician adjust pressure switch.
	Air tank contains water (condensation).	Check the operation of the auto drain and replace if necessary.
Dispensed drinks have "off" taste.	Dispensed drinks have "off" taste.	Check the operation of the auto drain and replace if necessary then sanitize syrup system and replace contaminated syrup supplies. Replace syrup supply as instructed.
Air compressor "long cycles"	Condensation auto drain solenoid valve on air tank is in OPEN position.	Check and clean or replace the auto drain solenoid.
	Pressure relief valve on the air tank open.	Check the operation of the pressure relief valve.





Air compressor filter is clogged.	Replace air compressor air filter.
Leak in air system lines and/or regulators.	Check for leak in air line from air compressor to air tank. Check line from air tank to air/ CO ₂ change over valve. Check regulator and lines to syrup tanks.
Air compressor inoperative.	Replace air compressor.

Pre Filter

Problem	Probable Cause	Corrective Action
Water leaks between pressure vessel and filter head assembly.	Nicked or damaged O-ring.	Replace if nicked or damaged. Lubricate.

DP 190 Filter Pack

Problem	Probable Cause	Corrective Action
Not enough water to drink system.	Filter cartridges have become clogged.	Replace filter cartridges.
Short life.	Incoming water supply dirty.	Replace cartridge
Leaking water at cartridge.	Loose connection or cartridge not properly installed. Missing or damaged O-ring.	Check the cartridge is locked in place Replace O-ring on cartridge.

Note: The coffee, ice and steamers are all serviced by secondary filter system, please be aware that issues similar to the ones above could arise from these filter systems.





6. Product specifications

BACKROOM STAND	
	Stand designed to carry Energize 5 on Top and allow location of all ancillary equipment within the footprint of the stand
	Stand shipped pre assembled with Booster System, Pre Filter assembly and Syrup Pump panel pre fitted.
	Cooler locking bolts and rear spacers provided to secure Energize in place and ensure enough airflow around Energize
	Material - Stainless Steel
	Dimensions (HxWxD) - 986x1382x845 - Stand Only inc rear spacer
	Dimensions (HxWxD) - 1732 x 1382 x 889 - Stand Inc Cooler and all ancillaries
	N.B. At least 75mm total clearance to the left & rear of the Backroom package should always be ensured, to provide sufficient ventilation space for the Energize cooler once situated on top of the Backroom Package.
	Weight - Stand Only
	Weight - Fully Installed inc cooler with filled Water Bath

CO2/AIR SYSTEM	
	Gas Panel mounted on front of Stand which comprises the following as below.
	2X Primary CO ₂ Regulators (0-110PSI) with bottle connecting hoses, with manual changeover between bottles.
	1 x Bulk CO_2 Connection with manual change over valve which allows switching from Bulk to bottled CO_2 should bulk go empty.
	High Pressure Gas Manifold with 2 x Ball Valve connections to connect CO_2 to Carbonator Tanks. Outlet 3/8 Push in connections.
	2 x Secondary Regulators (0-70 PSI) to supply gas/air to BIB Pumps. Outlet 3/8 Push In connections.
	Changeover Valve to allow choice of either air from air compressor or CO ₂ fed from bulk/bottle to supply secondary regulators.
	Location on stand to fit Durr Technic Air Compressor.

WATER SYSTEM	
	Water System mounted within footprint of stand to provide filtered and regulated supply to beverage and Ice.
	Cuno Pre filter assembly including inlet water shut off ball valve, water meter and inlet pressure gauge. Mounted on main frame
	Cuno DP190 Water Filter System. Mounted on BIB Rack
	Water Booster System with 200GPH Brass pump and 2 x 3Gal Accumulator Tanks with 3/4" Inlet Fittings. Mounted on main frame
	Booster Pressure pre set at 65 Psi pump on and 85 psi cut off. Pressure relief valve 100 psi incorporated in switch assembly
	Pre fitted water regulator and 0-100 psi gauge to regulate boosted water to 55psi.Mounted on BIB rack.
	Regulated Water supplied to 4 out Water Manifold to feed 4 out Ball Valves for supply of water to Carbonator and Still Water Feeds
	All interconnecting tubing between all components 1/2" ID





SYRUP SYSTEM	
	Syrup system comprises of roll out BIB stand and pumps fitted within the stand
	BIB Rack
	Rack designed to take 9 x 20 litre BIB and able to roll out from under rack to assist with cleaning and service.
	Material - Stainless Steel
	Lockable front castors to prevent rollout.
	Dimensions (HxWxD) - 935 x 890 x 425 inc castors.
	DP190 Water Filter System and water regulator mounted on side panel of rack.
	BIB Pump Panel
	Panel pre fitted with 7 x Shurflo Gas Pumps and 4 x Changeover Valves and gas lines pre fitted
	Panel can be located either in position at back of rack or on wall. Mounting brackets universal for wall or frame mounting.
	Dimensions(HxWxD) - 630 x 700 x 35 without mounting brackets
	Dimensions(HxWxD) - 630 x 778 x 35 with mounting brackets
	All pump feed tubes to be fitted at time of installation depending on location of board.

Compliance to Standards and Legislation Product conforms to EMC Directive (2004/108/EC) Product conforms to Low Voltage directive (2006/95/EC) Product conforms to Machinery Directive (2006/42/EC)

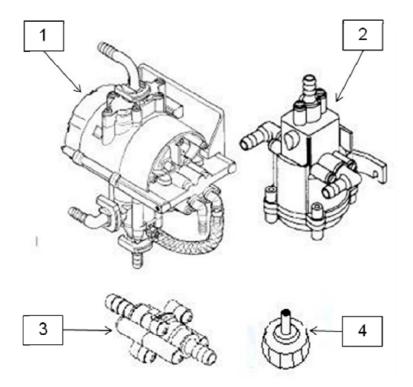
CE

IMI Cornelius UK Ltd, Russell Way Brighouse HD6 4LX United Kingdom Tel: 0044 (0) 1484 714584 Fax: 0044 (0) 1484 400592 Web: www.corneliusuk.com





7. Parts and Exploded Views

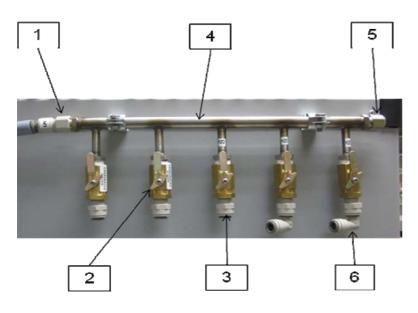


ltem	Part Number	Description
1	166-296-25	Shurflo Pump
2	94-350-08	Shurflo Automatic Selector Valve (ASV)
3	94-068-01	Sold Out Switch
4	14 9918 000	Sugar red bib connector
4	14 9918 010	Diet white bib connector
4	560004386	Sugar green bib connector
4	560004387	Sugar orange bib connector
4	3LN005A	Diet green (sprite) bib connector



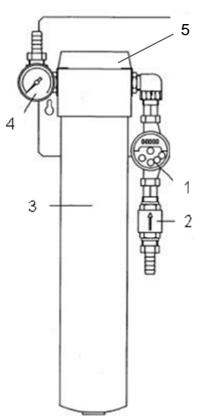


Water manifold



ltem	tem Part Number Description		
1	PI4512F6S	3/8" Tube x 3/8"	
I	F14512F05	FFL (Female Flare)	
2	27885001	Ball Valve	
3	PI011223S	Adaptor 3/8" Tube	
	F10112233	x 3/8" NPTF	
4	07 0 000663	Water Manifold	
5	61102006	End Cap	
Not	311304000	Cone Seal for end	
shown	511504000	сар	
6	PI221212S	3/8" Stem Elbow	

Cuno Filter



lten	۱	Part Number	Description
1		07 0 000142	Water meter
2		07 0 000899	Check valve
3		70020105006	Pre filter - CUNO
4		07 0 000786	Gauge - rear mount
5		70020022326	Head assembly

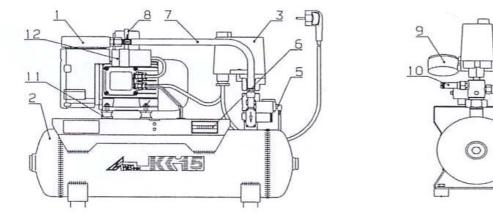
Cornelius.

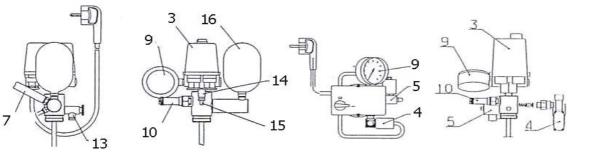


4

ŕ

Air Compressor



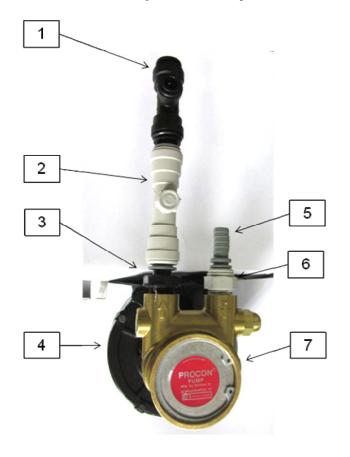


ltem	Part Number	Description
1	0835-43	Air Compressor
	NR 0835 43B 11	Air Compressor (inc 900031146 and 900031203)
2	0833-320-51	Receiver
3	9000-301-58	Pressure Switch - for new WA A038 compressor
	9000-301-36	Pressure Switch - for old WA A035 compressor
4	9000-303-65	Starter Solenoid
5	9000-303-64	Condensate Solenoid
6	na	
7	5211-020-00	Pressure Hose
8	9000-416-30	Air Filter
9	9000-305-08	Pressure Gauge
10	9000-326-13	Safety Valve
11	0835-991-00	Anti Vibration Dampers - for new WA A038 compressor)
	0832-008-00	Anti Vibration Dampers - for old WA A035 compressor)
12	9000-104-73	Capacitor for new WA A038 compressor
	0832-250-04	Capacitor for old WA A035 compressor
13	9000-324-04	Condensate Drain
14	9000-301-53	Relief Valve
15	9000-318-78	Relief Hose
16	9000-330-09	Starting Sphere
not shown	9000-416-31	Filter Insert
not shown	0832-981-00	Major Service Kit (seal, cup seal, gasket, cylinder, screw)
not shown	0835-981-00	Minor Service Kit (cup seal, filter cartridge, screw)



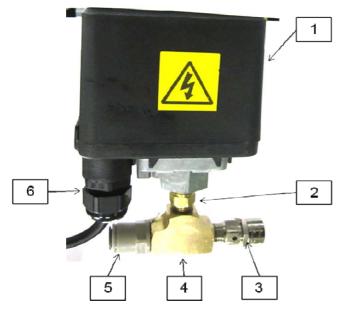


Boost Pump Assembly



ltem	Part Number	Description	
1	NC869	15mm x 15mm x 3/8" TEE	
2	15DCV	15mm Double Check Valve	
3	PM051514E	15mm x 1/2" BSP Stem	
	FIMUSTS14E	Connector	
4	71860673	1/3 HP Pump Motor	
5	PI251616S	1/2" Stem x 1/2" Hose Tail	
6	PI011624S	1/2" Tube x1/2" NPTF	
-	PI0110243	Straight Adaptor	
7	58 0420 565	200 GPH Procon Pump	

Pressure Switch Assembly

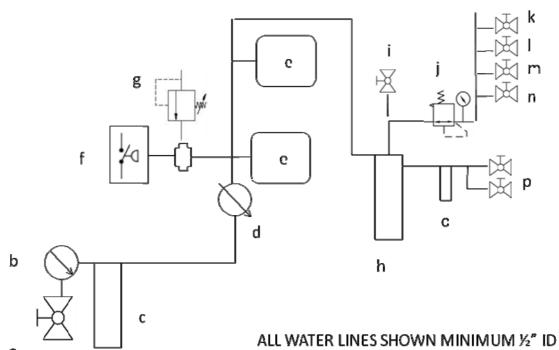


ltem	Part Number	Description
1	07 0 002957	Pressure Switch
2	18 3047 000	Straight Fitting
3	48519100	Relief Valve
4	18 3060 000	Tee Piece
5	NCP1011212S	3/8" Tube x 1/2"" BSP Straight Adaptor
6	07 0 000774	Cable Gland





Backroom Package Plumbing Schematic



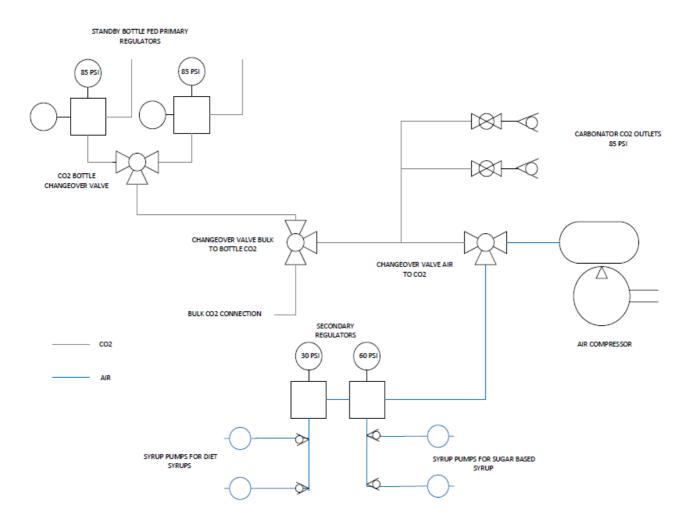
а

Key		
ITEM	DESCRIPTION/SPECIFICATION	COMMENT
А	Mains water Inlet/ Ball Valve 1/2" Hose Connection	Use Existing
В	Inlet Water Meter	Use Existing
С	Pre Filter	Use Existing
D	Water Booster	Use Existing
Е	Booster Tank/ ¾" Inlet	Need to change tank
F	Pressure Switch/ 65 On Pressure 85 Off	As Existing
G	Relief Valve	As Existing
Н	DP190 Water Filter	New Item
I	High Pressure Water feed for Still Water /Ball Valve for 3/8 Hose Connection	New Item
J	Water Pressure Regulator 55Psi (3.7bar or 379211.7Pa	Use Existing
К	Water Manifold - Carbonator 1 Outlet - 3/8" Ball Valve	Use existing
L	Water Manifold – Carbonator 2 Outlet – 3/8" Ball Valve	Use Existing
Μ	Water Manifold – Still Water Outlet – 3/8" Ball Valve	Use Existing
Ν	Water Manifold - Spare – 3/8" Ball Valve	Use Existing
0	Phosphate Feeder for Ice, coffee and steamers	New Item
Ρ	1/2" Hose connection Ball Valves - Outlets to Ice Makers ,Coffee machines and Steamer Manifold	New Item





Back Room Package CO₂/Air Schematic







Talk to us

IMI Cornelius (UK) Ltd Head Office Russell Way Brighouse West Yorkshire, HD6 4LX

T: +44 (0)1484 714 584 F: +44 (0)1484 406 411

www.corneliusuk.com

Customer Services: +44 (0)870 905 0773

Registered Office

Russell Way Bradford Road Brighouse West Yorkshire HD6 4LX Registered in England Number 440427

a subsidiary of IMI plc