

# AUTOMATIC BATTERIES

With electric actuators



Electric actuators

## Automatic valve batteries with electric actuators

- Automatic valve batteries are fitted with five high-quality PVC butterfly valves and a pressure gauge control panel
- Delivered unassembled single package. Easy to manage and transport
- Right or left installation possible, easy installation guide included
- Batteries assembled on request
- Supplied with 3 electric actuators with security block (BSR), that close the valves in case of power cutdown, protecting the filter from overpressure and avoiding the pool from emptying

### Recommendation of positioning the valves



POSITION	1	2	3	4	5
FILTRATION	Open	Closed	Closed	Closed	Open
BACKWASH	Closed	Open	Open	Closed	Closed
RINSE	Open	Closed	Closed	Open	Closed
CLOSED	Closed	Closed	Closed	Closed	Closed

**24 - 240 V MULTIVOLTAGE PCB:** All actuators have been set-up to work from 24 to 240, either in DC and in VAC.

**Housing:** Anticorrosive polyamide (lid & body) Main external shaft: stainless steel

**External screws:** stainless steel

**Gears:** Steel and polyamide

**Visual position indicator:** Polyamide

**Dome:** Polycarbonate

**Adjustable internal cams:** Polyamide Electric motor: Single phase, Brushless

**Insulation:** Class B

**Minimum use guaranteed:** 60 000 cycles



### Reference

### Description

HCBEL634UN	Automatic battery set with electric actuators Ø 63 - unassembled
HCBEL754UN	Automatic battery set with electric actuators Ø 75 - unassembled
HCBEL904UN	Automatic battery set with electric actuators Ø 90 - unassembled
HCBEL1104UN	Automatic battery set with electric actuators Ø 110 - unassembled
HCBEL1254UN	Automatic battery set with electric actuators Ø 125 - unassembled
HCBEL1404UN	Automatic battery set with electric actuators Ø 140 - unassembled
HCBEL1604UN	Automatic battery set with electric actuators Ø 160 - unassembled
HCBEL2004UN	Automatic battery set with electric actuators Ø 200 - unassembled
HCBEL2254UN	Automatic battery set with electric actuators Ø 225 - unassembled
HCBEL2504UN	Automatic battery set with electric actuators Ø 250 - unassembled

# AUTOMATIC BATTERIES

With pneumatic actuators



Air compressor not included



Pneumatic actuators

## Automatic valve batteries with pneumatic actuators

- Automatic valve batteries are fitted with five high-quality PVC butterfly valves and a pressure gauge control panel.
- Delivered unassembled single package. Easy to manage and transport
- Right or left installation possible, easy installation guide included
- Batteries assembled on request
- Supplied with 3 single effect pneumatic actuators that close the valves in case of power cutdown or pneumatic failure, protecting the filter from overpressure and preventing the pool from emptying
- Provided with 5/2-way 24 VDC electrovalves



POSITION	1	2	3	4	5
FILTRATION	Open	Closed	Closed	Closed	Open
BACKWASH	Closed	Open	Open	Closed	Closed
RINSE	Open	Closed	Closed	Open	Closed
CLOSED	Closed	Closed	Closed	Closed	Closed

### GENERAL CHARACTERISTICS OF PNEUMATIC ACTUATORS

Supply: dry or lubricated filtered compressed air; pressure: min. 1 Bar, max. 10 Bars.

- The lubrication carried out by the manufacturer is guaranteed for min. 1 000 000 manoeuvres.
- Inside surface finish (Ra 0.4-0.6 mm) to minimize friction and to maximize the life of the actuator.
- Standard design for temperatures from - 20°C to + 80°C.
- External protection: resistance to corrosion of 500 hrs in salty fog according to ASTM B117-73.
- Body, heads and pistons: made from aluminium alloy.












Reference	Description
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<b>HCBPN634UN</b>	Automatic battery set with Pneumatic actuators Ø 63 24 VDC - unassembled
<b>HCBPN754UN</b>	Automatic battery set with Pneumatic actuators Ø 75 24 VDC - unassembled
<b>HCBPN904UN</b>	Automatic battery set with Pneumatic actuators Ø 90 24 VDC - unassembled
<b>HCBPN1104UN</b>	Automatic battery set with Pneumatic actuators Ø 110 24 VDC - unassembled
<b>HCBPN1254UN</b>	Automatic battery set with Pneumatic actuators Ø 125 24 VDC - unassembled
<b>HCBPN1404UN</b>	Automatic battery set with Pneumatic actuators Ø 140 24 VDC - unassembled
<b>HCBPN1604UN</b>	Automatic battery set with Pneumatic actuators Ø 160 24 VDC - unassembled
<b>HCBPN2004UN</b>	Automatic battery set with Pneumatic actuators Ø 200 24 VDC - unassembled
<b>HCBPN2254UN</b>	Automatic battery set with Pneumatic actuators Ø 225 24 VDC - unassembled
<b>HCBPN2504UN</b>	Automatic battery set with Pneumatic actuators Ø 250 24 VDC - unassembled











# AUTOMATIC BATTERIES

Equipment details for unassembled batteries

## BATTERIES WITH ELECTRIC ACTUATORS

									
	Connections	Rods	Clamps	Valves	Fitting and pipes	Screws and joins	Pressure gauge panel MP25	Pressure switch	Control box
ø 63		X (option)	X (option)	ø 63	V	V	V	X (option)	X (option)
ø 75		X (option)	X (option)	ø 75	V	V	V	X (option)	X (option)
ø 90		X (option)	X (option)	ø 90	V	V	V	X (option)	X (option)
ø 110		X (option)	V	ø 110	V	V	V	X (option)	X (option)
ø 125		X (option)	V	ø 125	V	V	V	X (option)	X (option)
ø 140		X (option)	V	ø 140	V	V	V	X (option)	X (option)
ø 160		X (option)	V	ø 160	V	V	V	X (option)	X (option)
ø 200		X (option)	V	ø 200	V	V	V	X (option)	X (option)
ø 225		X (option)	V	ø 225	V	V	V	X (option)	X (option)
ø 250		X (option)	V	ø 250	V	V	V	X (option)	X (option)

## BATTERIES WITH PNEUMATIC ACTUATORS

										
	Connections	Rods	Clamps	Valves	Fitting and pipes	Screws and joins	Pressure gauge panel MP25	Limit switch	Pressure switch	Control Box
ø 63		X (option)	X (option)	ø 63	V	V	V	X (option)	X (option)	X (option)
ø 75		X (option)	X (option)	ø 75	V	V	V	X (option)	X (option)	X (option)
ø 90		X (option)	X (option)	ø 90	V	V	V	X (option)	X (option)	X (option)
ø 110		X (option)	V	ø 110	V	V	V	X (option)	X (option)	X (option)
ø 125		X (option)	V	ø 125	V	V	V	X (option)	X (option)	X (option)
ø 140		X (option)	V	ø 140	V	V	V	X (option)	X (option)	X (option)
ø 160		X (option)	V	ø 160	V	V	V	X (option)	X (option)	X (option)
ø 200		X (option)	V	ø 200	V	V	V	X (option)	X (option)	X (option)
ø 225		X (option)	V	ø 225	V	V	V	X (option)	X (option)	X (option)
ø 250		X (option)	V	ø 250	V	V	V	X (option)	X (option)	X (option)

Air compressor not included

# OPTIONS FOR BATTERIES

For all filters

2

YEARS OF WARRANTY

## Support Rods and fixation clamps

HILTI - CLAMPS:



HILTI-RODS



Ref.	Description
259006300000	D63-1 Unit clamps Hilti
259007500000	D75-1 Unit clamps Hilti
259009000000	D90-1 Unit clamps Hilti
259011000000	D110-1 Unit clamps Hilti
259012500000	D125-1 Unit clamps Hilti
259014000000	D140-1 Unit clamps Hilti
259016000000	D160-1 Unit clamps Hilti
259020000000	D200-1 Unit clamps Hilti
259022500000	D225-1 Unit clamps Hilti
259025000000	D250-1 Unit clamps Hilti

Ref.	Description
259010000000	2 RODS (2 meters) + 4 CAPS included
259000000010	2 RODS (3 meters) + 4 CAPS included
259010000020	Kit 4 CAPS for HILTI RODS

## Guideline Rods by filters



ø Filters	BOBBIN SERIES			BRASIL SERIES	ARTIK SERIES	NEW ENZO SERIES
	STANDARD 1 m bed depth	FH1000 (UNI) / DIN 1,2 m bed depth	DIN 1,5 m bed depth	1 m bed depth	1 m bed depth	1 m bed depth
ø 1 050	2 meters	2 meters	3 meters	2 meters	2 meters	2 meters
ø 1 200	2 meters	2 meters	3 meters	2 meters	2 meters	2 meters
ø 1 400	2 meters	2 meters	3 meters	2 meters	2 meters	2 meters
ø 1 600	2 meters	2 meters	3 meters	2 meters	2 meters	3 meters
ø 1 800	2 meters	2 meters	3 meters	2 meters	2 meters	3 meters
ø 2 000	2 meters	2 meters	3 meters	2 meters	2 meters	3 meters
ø 2 200	2 meters	-	-	-	2 meters	-
ø 2 350	2 meters	3 meters	3 meters	2 meters	-	-
ø 2 500	3 meters	3 meters	3 meters	3 meters	-	-
ø 3 000	3 meters	3 meters	3 meters	-	-	-
ø 3 000	3 meters	3 meters	3 meters	-	-	-

## Liquid viewers for backwash

Ref.	Description
100174200631	D63 - Liquid viewer NETVITC® system
100174200750	D75 - Liquid viewer Socket Flange
100174200900	D90 - Liquid viewer Socket Flange
100174201100	D110 - Liquid viewer Socket Flange
100174201250	D125 - Liquid viewer Socket Flange
100174201400	D140 - Liquid viewer Socket Flange
100174201600	D160 - Liquid viewer Socket Flange
100174202001	D200 - Liquid viewer NETVITC® system



# OPTIONS FOR BATTERIES



## Pressure switch

- Pressure switch to install on automatic batteries.
- Wide regulation range, small size to save space
- Max. working pressure: 18 bar. Differential range: 0.4 to 1.5 bar
- Ambient pressure: - 40 to + 70°C
- Entry for cables 6 to 14 mm diameter
- Connection: 1/4"
- Protection: IP33

Ref.	Description
210335000000	Pressure switch KPI35.B



## Limit switch box for pneumatic actuators

- Limit switch to install on pneumatic actuators.
- Indicates and sends signal of the position open / closed of the valve
- SPDT mechanical switch
- Protection: IP67

Ref.	Description
HCBSBPNV	Limit switch box for pneumatic actuators



2 models available

## Control box for automatic electric and pneumatic batteries

- Electric control box for a battery of 5 automatic valves (pneumatic or electric)
- Can switch on/off other equipment as the salt chlorinator system, the control panel for dosing, etc.
- The control is achieved by means of time scheduling (day and hour) and by a contextual navigation with a big and backlight LCD screen
- Optionally it can be triggered by an external input signal such as a pressure switch.

Ref	Description
HCBCBOX	Control box for batteries
HCBCBOXLT	Control box for batteries + level control for balance tank

# AUTOMATIC BATTERIES

## General guidelines

### Selection of Battery

First step: Select option: 1.1 or 1.2  
1.1 -Assembled (only bobbin filters)  
1.2 -Unassembled (available for all filters)

Second step: Select option: 2.1 or 2.2  
2.1 -Pneumatic actuators  
2.2 -Electric actuators

### Selection of Control box

Option 1  
HCBCBOX, Control box for batteries

Option 2  
HCBCBOXLT, Control box for batteries & level control for balance tank

## Automatic batteries with electric actuators



Pressure switch (Optional)



### HCBCBOX- Control box for batteries

Control box for filtration through set filter and battery with 5 automatic butterfly valves



### HCBCBOXLT - Control box for batteries & Level Control for balance tank

Control box for filtration through set filter and battery with 5 automatic butterfly valves and level control for balance tank (probes included)

Assembled batteries available for bobbin filters  
Unassembled batteries available for all filters (laminated and bobbin)

## Automatic batteries with pneumatic actuators



Pressure switch (Optional)



Limit switch (Optional recommended)



### HCBCBOX - Control box for batteries

Control box for filtration through set filter and battery with 5 automatic butterfly valves



### HCBCBOXLT - Control box for batteries & Level Control for balance tank

Control box for filtration through set filter and battery with 5 automatic butterfly valves and level control for balance tank (probes included)

Assembled batteries available for bobbin filters  
Unassembled batteries available for all filters (laminated and bobbin)