![Norgren logo]

HBL84 -Filter/regulator - Lubricator Combination Units Excelon® Plus Modular System

- > **Port size: 3/8" ... 3/4" (ISO G/PTF)**
- > **Unique Quikclamp connection system offers full modularity**
- > **40 micron particle and high efficiency water removal (> 98%)**
- > **Double safety lock on bowl**
- > **Shut off valve, regulator & filter regulator with tamper resistance feature.**

- > **Metal bowl with prismatic liquid level indicator**
- > **Salt spray compliant to ISO 9227**
- > **ABS cover with high impact properties**
- > **Easy to read flush mounted integrated pressure gauge as standard**
- > **All round (360°) visibility of sightdome for ease of drip rate setting**

Technical features

Medium:
Compressed air only
Maximum supply pressure:
290 psi (20 bar)
Outlet pressure ranges:
4 ... 145 psi (0.3 ...10 bar)
Filter element:
40 µm
Port size:
G3/8, G1/2, G3/4,
3/8 PTF, 1/2 PTF, 3/4 PTF

Gauge:
Integrated as standard
Diaphragm Type:
Relieving
Drain:
Manual or automatic
Automatic drain operating conditions (float operated):
Bowl pressure required to close drain: > 5 psi (0.35 bar)
Bowl pressure required to open drain: ≤ 2.9 psi (0.2 bar)
Minimum air flow required to close drain: 1 dm^3/s (2 scfm)

Ambient/Media temperature:
-4 ... +149°F (-20... +65°C)
Air supply must be dry enough to avoid ice formation at temperatures below+35°F (+2°C).
Materials:
Body: Die cast aluminum
Body covers:
ABS (Magnum 3904)
Bonnet: Acetal
Metal Bowl: Die cast aluminum with PA liquid level indicator lens
Filter element:
Sintered polypropylene

Valve: Brass and
low temperature nitrile
Diaphragm: Low temperature silicone, polyester reinforced
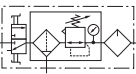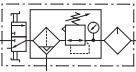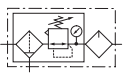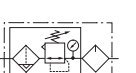Lower spring rest and diaphragm retainer:
Aluminum
Bowl O-ring:
Low temperature nitrile
Elastomers:
Low temperature nitrile

Technical data HBL84 - standard models

Symbol	Port size	Shut off valve	Drain	Lubricator type	Weight lb (kg)	Model *1)
	3/8 PTF	With	Manual	Microfog	3.64 (1.65)	HBL84-371A
	1/2 PTF	With	Manual	Microfog	3.64 (1.65)	HBL84-471A
	3/4 PTF	With	Manual	Microfog	3.64 (1.65)	HBL84-671A
	3/8 PTF	With	Auto	Microfog	3.64 (1.65)	HBL84-351A
	1/2 PTF	With	Auto	Microfog	3.64 (1.65)	HBL84-451A
	3/4 PTF	With	Auto	Microfog	3.64 (1.65)	HBL84-651A
	3/8 PTF	Without	Manual	Microfog	2.54 (1.15)	HBL84-375A
	1/2 PTF	Without	Manual	Microfog	2.54 (1.15)	HBL84-475A
	3/4 PTF	Without	Manual	Microfog	2.54 (1.15)	HBL84-675A
	3/8 PTF	Without	Auto	Microfog	2.54 (1.15)	HBL84-355A
	1/2 PTF	Without	Auto	Microfog	2.54 (1.15)	HBL84-455A
	3/4 PTF	Without	Auto	Microfog	2.54 (1.15)	HBL84-655A

*1) All models shown here are supplied with integrated gauge applicable for flow direction left to right.
With flow direction right to left please use the online configurator www.norgren.com/air-preparation-configurator or contact Norgren

Option selector *1)

HBL84-★★★★

Port size	Substitute
3/8"	3
1/2"	4
3/4"	6

Units	Substitute
Filter/Regulator w. auto drain, Micro fog lubricator, Metal bowls	5
Filter/Regulator w. auto drain, Oil fog lubricator, Metal bowls	6
Filter/Regulator w. manual drain, Micro fog lubricator, Metal bowls	7
Filter/Regulator w. manual drain, Oil fog lubricator, Metal bowls	8

Thread form	Substitute
PTF	A
ISO G parallel	G
Accessories	**Substitute**
Shut-off valve & gauge & brackets	1
Gauge & bracket	5

*1) All models shown here are applicable for flow direction left to right. With flow direction right to left please use the online configurator www.norgren.com/air-preparation-configurator or contact Norgren

In addition to the standard box set units shown on this data sheet, further combinations can be configured using our online Air Preparation configurator:

www.norgren.com/air-preparation-configurator
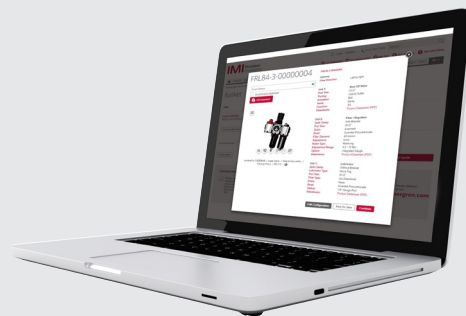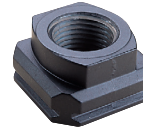
Accessories

Wall mounting bracket	Quikclamp®	Quikclamp® with bracket assembled	Port Adaptors
Page 7	Page 7	Page 7	Page 7
840024-50KIT	H840014-51KIT	H840014-52KIT	

Port Adaptors

3/8 PTF	H840015-02KIT
1/2 PTF	H840015-03KIT
3/4 PTF	H840015-04KIT
G3/8	H840015-10KIT
G1/2	H840015-11KIT
G3/4	H840015-12KIT

Pressure sensing block 1/4 PTF	Pressure sensing block G1/4
Page 7	Page 7
H840016-50KIT	H840016-51KIT

Full flow porting block 3/4" PTF	Full flow porting block G3/4	Full flow porting block 3/4" PTF	Full flow porting block G3/4	Pressure switch interface block (18D pressure switch) G1/4
Page 8	Page 8	Page 8	Page 8	Page 8
H840028-50KIT	H840028-53KIT	H840028-68KIT	H840028-69KIT	0337717000000000

Pressure switch 18D 7.25 ... 116 psi (0.5 ... 8 bar) *4
Page 8
0881300000000000

*2) -4 ... +140°F (-20 ... +60°C)

*4) -14° ...+185°F (-10°... +85°C)

NORGREN

Padlock

Padlock	Lockout device
840055-01KIT	840055-02KIT

Silencer

Porous plastic silencer *3) G1/4	Porous plastic silencer *3) 1/4 PTF	Sinter bronze silencer *3) G1/4
M/S2	C/S2	T40C2800

*3) Max. pressure of silencers listed in this data sheet : 10bar.
For pressure higher than 10bar please contact Norgren

Maintenance/Service

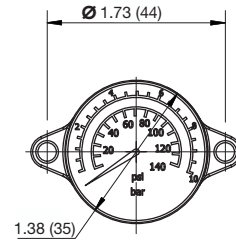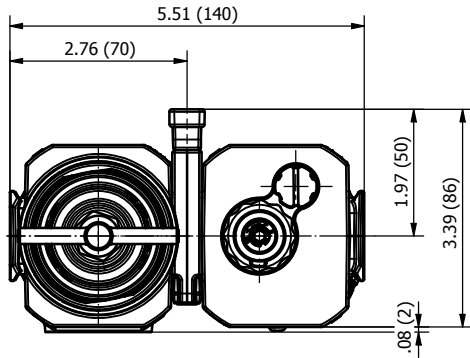| Filter cartridge 40 micron	Auto drain kit with metal Nut	HR84 / HB84 Elastomer Kit
840038-51KIT	3000-40	HFRLB84-KIT

Lubricator sight dome kit

Micro fog (red)	840055-50KIT
Oil fog (green)	840055-51KIT

Dimensions

Shut-off valve, Filter/Regulator and Lubricator
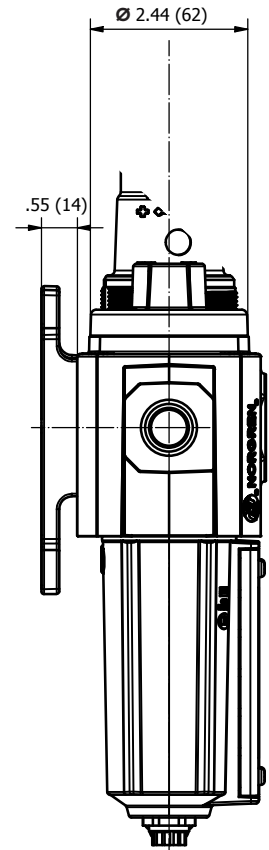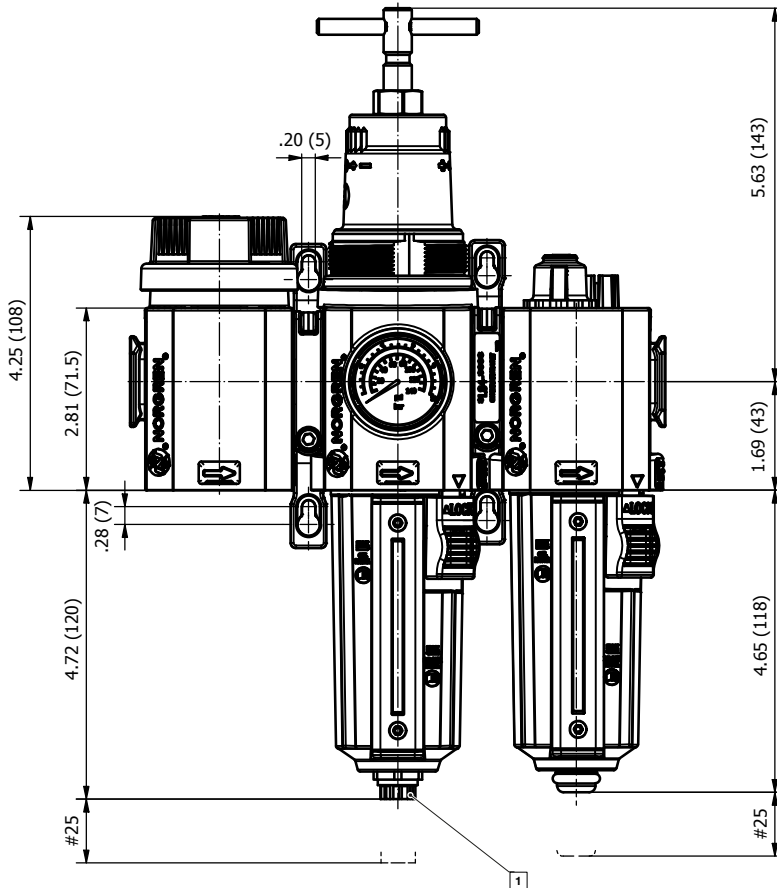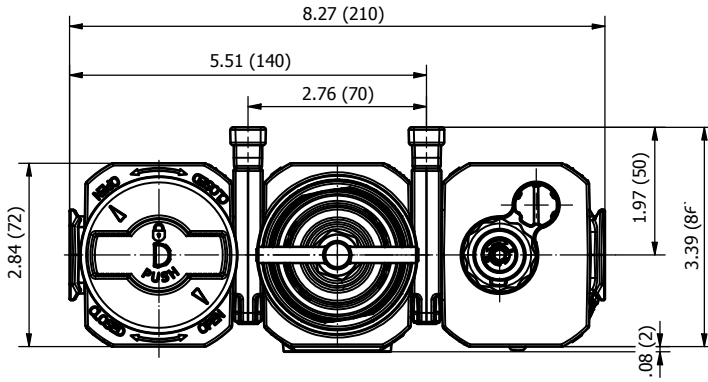
Minimum clearance for bowl removal
[1] Port size automatic drain : G1/8

Dimensions
Filter/Regulator and Lubricator

5.51 (140)

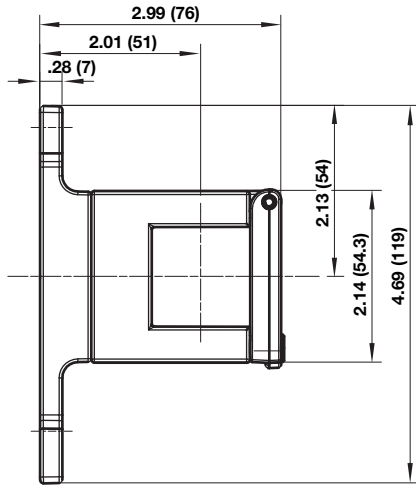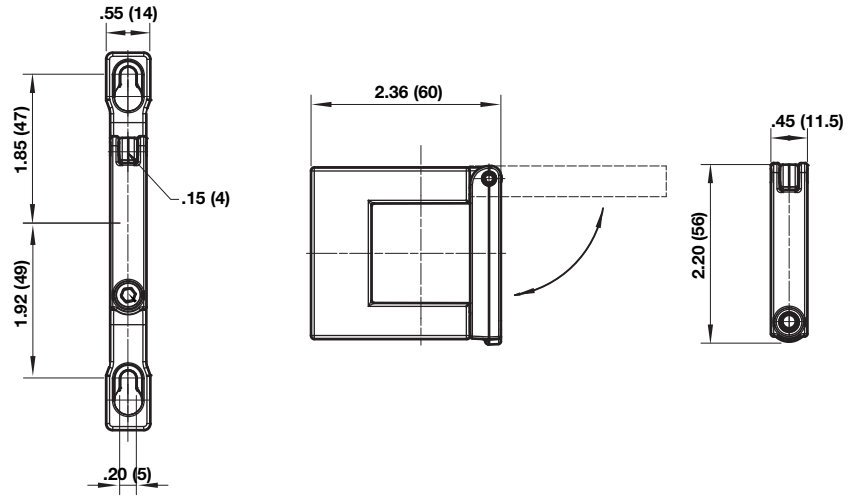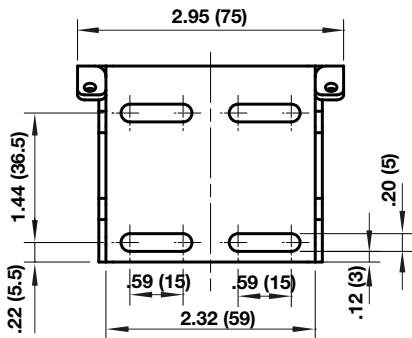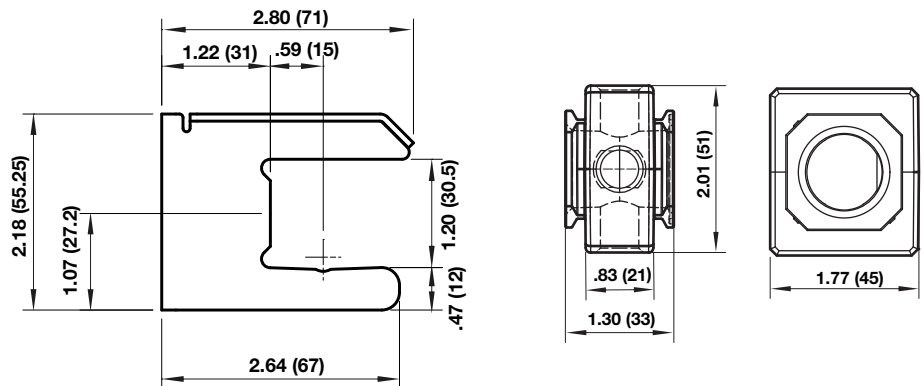2.76 (70)

1.97 (50)

3.39 (86)

.08 (2)

Ø 1.73 (44)

1.38 (35)

.20 (5)

.28 (7)

5.63 (143)

1.69 (43)

4.65 (118)

6.42 (163)

#25

#25

1

Ø 2.44 (62)

.55 (14)
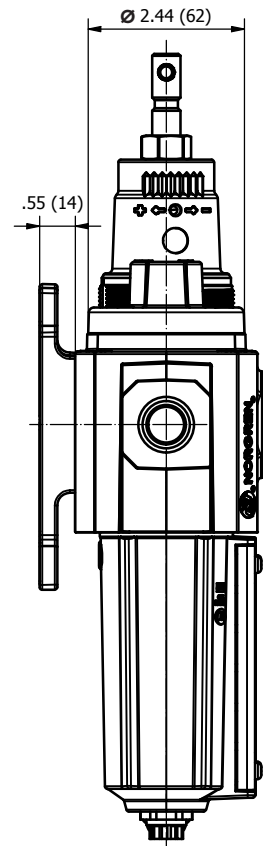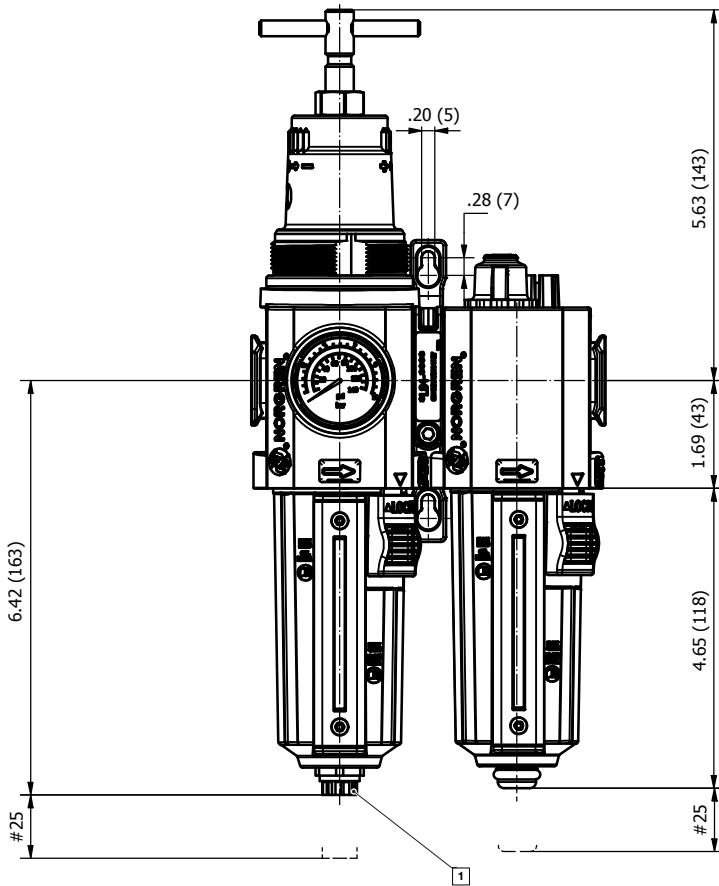
Minimum clearance for bowl removal
1 Port size automatic drain : G1/8

Accessories

Quikclamp® with wall bracket

2.99 (76)
2.01 (51)
.28 (7)
2.13 (54)
2.14 (54.3)
4.69 (119)

.55 (14)
1.85 (47)
1.92 (49)
.15 (4)
.20 (5)

Quikclamp®

2.36 (60)
.45 (11.5)
2.20 (56)

Mounting bracket

2.95 (75)
1.44 (36.5)
.22 (5.5)
.59 (15) .59 (15)
2.32 (59)
.20 (5)
.12 (3)

2.80 (71)
1.22 (31) .59 (15)
2.18 (55.25)
1.07 (27.2)
1.20 (30.5)
.47 (12)
2.64 (67)

Pressure sensing block

2.01 (51)
.83 (21)
1.30 (33)
1.77 (45)

en 8.200.855.07

Full flow porting block horizontal

3.15 (80)
2.68 (68)
2.01 (51)
1.81 (46)
2.24 (57)
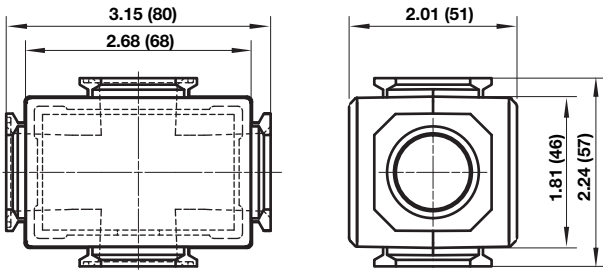
Full flow porting block vertical

3.15 (80)
2.68 (68)
2.01 (51)
1.81 (46)
2.24 (57)
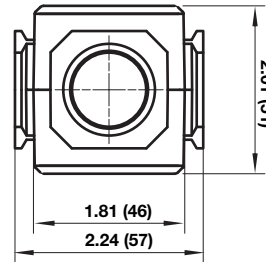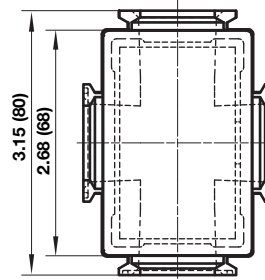
Porting block for 18D pressure switch

G1/2
1.57 (40)
1.26 (32)
1.73 (44)
1.57 (40)

18D Pressure switch

18AC
1.77 (45)
1.10 (28)
1.18 (30)
.20 (5)
1.18 (30)
1.38 (35)
2.83 (72)
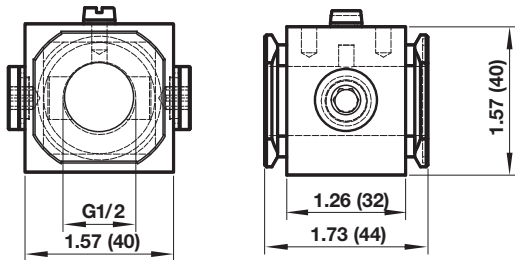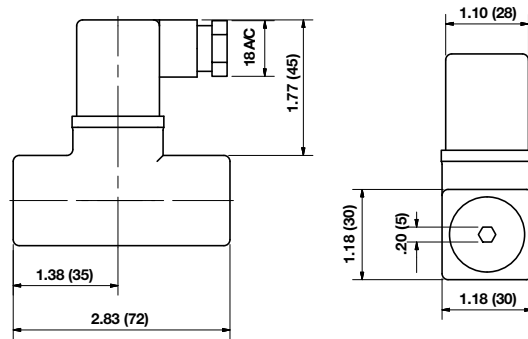
**18D Porting block and
18D assembled**

G 1/4
1.57 (40)
2.24 (57)
1.26 (32)
1.73 (44)
1.57 (40)

Pipe adaptor

.71 (18)
1.52 (38.5)
1.52 (38.5)
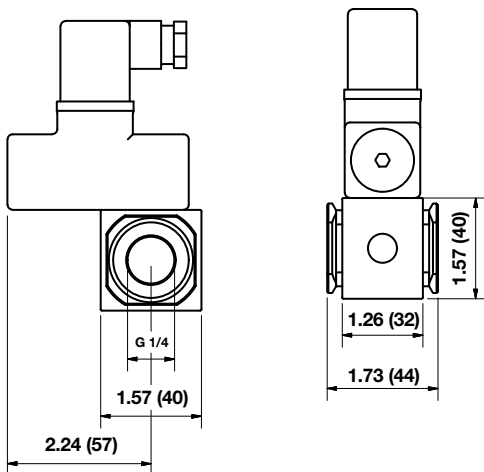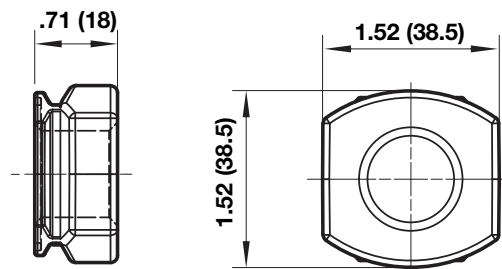
Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under **»Technical features/data«**.

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems or other applications not within published specifications, consult IMI Precision Engineering. Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes.

The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.