

FR+L

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

Алматы (7273)495-231
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Россия (495)268-04-70

Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81
Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Киргизия (996)312-96-26-47

Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Казахстан (7172)727-132

Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93

gruppo trattamento aria FR+L G1/4"

G1/4" FR+L air preparation unit

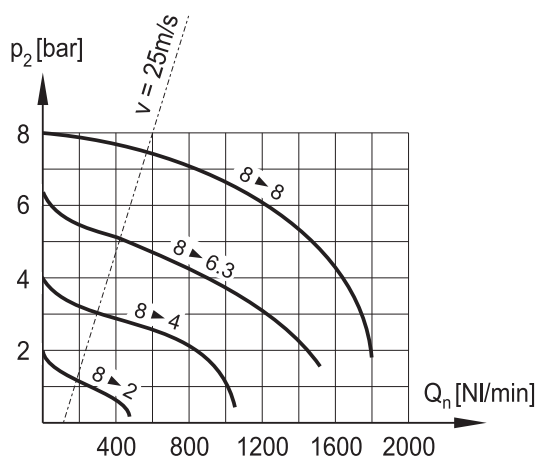


- Il gruppo comprende: filtroregolatore e lubrificatore
The unit includes: filter-regulator and oil mist lubricator
- Separazione condensa: > 90%
Moisture separation: > 90%
- Scarico semiautomatico della condensa; rifornimento olio manuale
Semi-automatic moisture exhaust; manual oil refilling
- Capacità delle tazze: 12 cm³ (condensa), 35 cm³ (olio)
Bowl capacity: 12 cm³ (moisture), 35 cm³ (oil)
- Installazione verticale; staffa di fissaggio a richiesta (cod. STF 2)
Vertical installation; bracket on request (code STF 2)



CODICE DI ORDINAZIONE ORDER CODE		FR+L 2-08-25-S
Attacchi Ports		G1/4"
Temperatura di esercizio Temperature range		max +50°C
Peso Weight		0.32 kg
Pressione di alimentazione Inlet pressure range	$p_{1 \text{ min}}$ $p_{1 \text{ max}}$	0 bar; 0 MPa 10 bar; 1 MPa
Pressione di utilizzo Outlet pressure range	$p_{2 \text{ min}}$ $p_{2 \text{ max}}$	0.5 bar; 0.05 MPa 8 bar; 0.8 MPa
Differenza minima di pressione (Δp) Minimum pressure difference (Δp)	$p_1 - p_2$	0.2 bar; 0.02 MPa
Isteresi Hysteresis	$p_1 = 10 \text{ bar} / p_2 = 0 \text{ bar}$ $p_1 = 10 \text{ bar} / p_2 = 8 \text{ bar}$	1.6 0.6
Portata raccomandata Recommended flow rate	$p_2 = 6.3 \text{ bar a } 25 \text{ m/s}$ $p_2 = 6.3 \text{ bar at } 25 \text{ m/s}$	Q_n 550 NI/min (max 580 NI/min)
Elemento filtrante Filter element		25 μm

Caratteristiche di portata
Flow characteristics



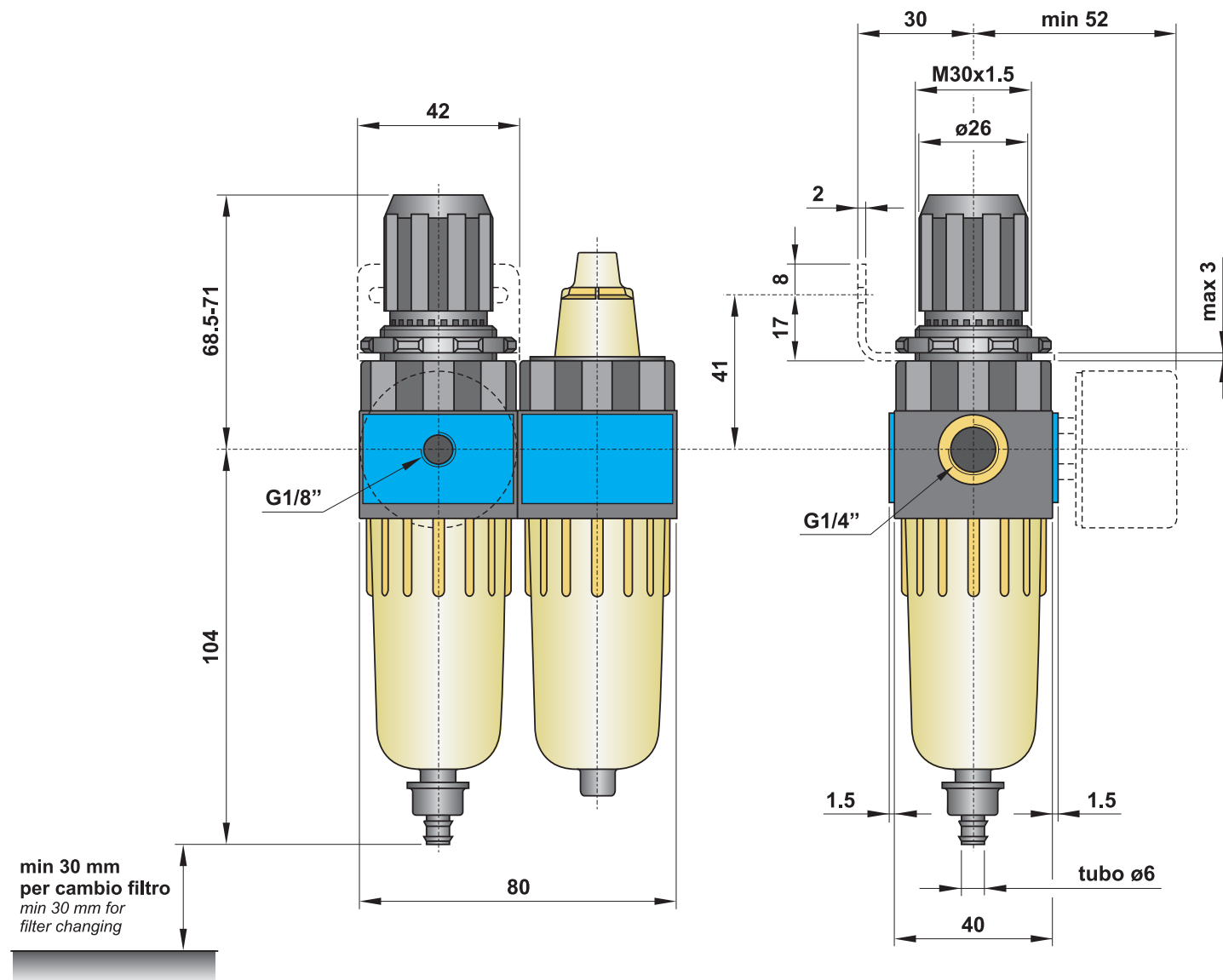
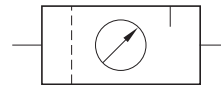
gruppo trattamento aria FR+L G1/4"

G1/4" FR+L air preparation unit



La staffa di fissaggio e il manometro devono essere acquistati separatamente.
Mounting bracket and manometer are bought separately.

Protezione in plastica della tazza a richiesta (cod. PR 2-00)
Plastic bowl protection on request (code PR 2-00)



Materiali

Corpo: polimero rinforzato con inserti filettati in ottone

Molle: INOX

Guarnizioni: NBR

Parti interne: ottone, INOX e polimeri

Tazze: policarbonato rinforzato

Materials

Body: reinforced polymer with brass thread inserts

Springs: stainless steel

Seals: NBR

Internal parts: brass, stainless steel and polymer

Bowls: reinforced polycarbonate

gruppo trattamento aria FR+L G3/8"

G3/8" FR+L air preparation unit

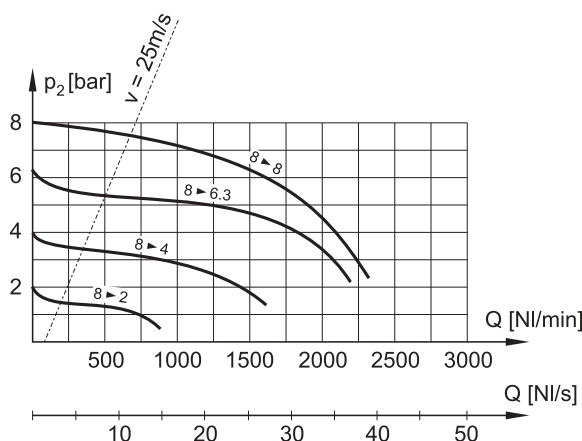


- Il gruppo comprende: filtroregolatore e lubrificatore
The unit includes: filter-regulator and oil mist lubricator
- Separazione condensa: > 90%
Moisture separation: > 90%
- Scarico semiautomatico della condensa; rifornimento olio manuale
Semi-automatic moisture exhaust; manual oil refilling
- Capacità delle tazze: 22 cm³ (condensa), 45 cm³ (olio)
Bowl capacity: 22 cm³ (moisture), 45 cm³ (oil)
- Installazione verticale; staffa di fissaggio a richiesta (cod. STF 3 o STF 3A)
Vertical installation; bracket on request (code STF 3 or STF 3A)
- Protezione metallica della tazza a richiesta (cod. PR 3-00)
Metal bowl protection on request (code PR 3-00)



CODICE DI ORDINAZIONE ORDER CODE		FR+L 3-08-30-S
Attacchi Ports		G3/8"
Temperatura di esercizio Temperature range		max +50°C
Peso Weight		0.75 kg
Pressione di alimentazione Inlet pressure range	$p_{1 \min}$ $p_{1 \max}$	0 bar; 0 MPa 16 bar; 1.6 MPa
Pressione di utilizzo Outlet pressure range	$p_{2 \min}$ $p_{2 \max}$	0.5 bar; 0.05 MPa 8 bar; 0.8 MPa
Differenza minima di pressione (Δp) Minimum pressure difference (Δp)	$p_1 - p_2$	0.2 bar; 0.02 MPa
Isteresi Hysteresis	$p_1 = 10 \text{ bar} / p_2 = 0 \text{ bar}$ $p_1 = 10 \text{ bar} / p_2 = 8 \text{ bar}$	0.5 0.4
Portata raccomandata Recommended flow rate	$p_2 = 6 \text{ bar a } 25 \text{ m/s}$ $p_2 = 6 \text{ bar at } 25 \text{ m/s}$	Q_n 680 NI/min
Elemento filtrante Filter element		30 μm

Caratteristiche di portata
Flow characteristics

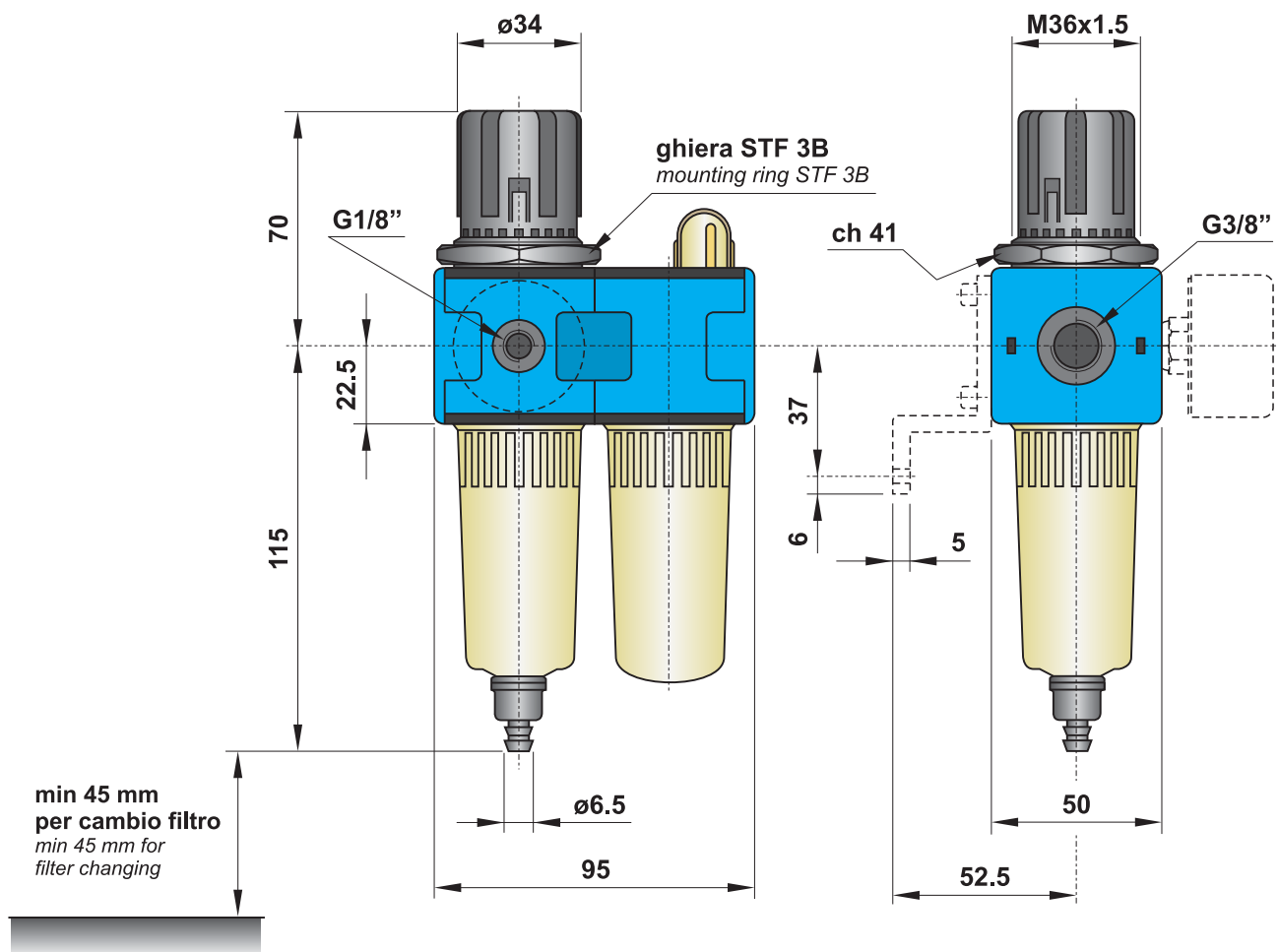
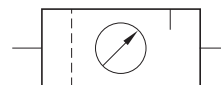


gruppo trattamento aria FR+L G3/8"

G3/8" FR+L air preparation unit



La staffa di fissaggio, la ghiera e il manometro devono essere acquistati separatamente.
Mounting bracket, ring and manometer are bought separately.



Materiali

Corpo: alluminio pressofuso

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Tazze: policarbonato rinforzato

Materials

Body: die-cast aluminium

Seals: NBR

Internal parts: brass and stainless steel

External parts: reinforced polymer

Bowls: reinforced polycarbonate

gruppo trattamento aria FR+L G1/2"

G1/2" FR+L air preparation unit

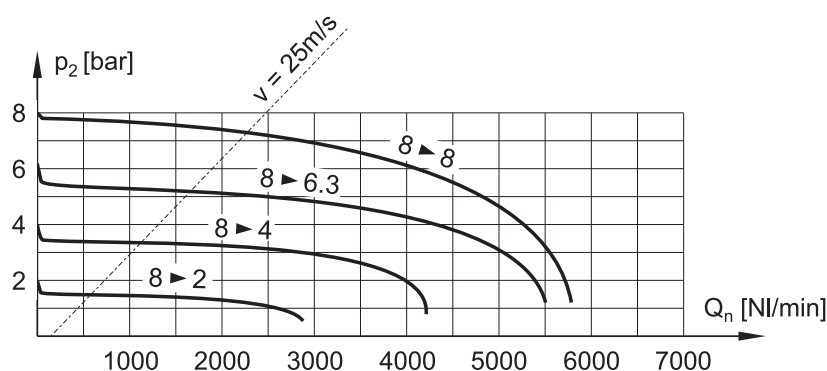


- Il gruppo comprende: filtroregolatore e lubrificatore
The unit includes: filter-regulator and oil mist lubricator
- Separazione condensa: 95%
Moisture separation: 95%
- Scarico semiautomatico della condensa; rifornimento olio manuale
Semi-automatic moisture exhaust; manual oil refilling
- Capacità delle tazze: 57 cm³ (condensa), 112 cm³ (olio)
Bowl capacity: 57 cm³ (moisture), 112 cm³ (oil)
- Installazione verticale; staffa di fissaggio a richiesta (cod. STF 4)
Vertical installation; bracket on request (code STF 4)
- Protezione metallica della tazza a richiesta (cod. PR 4-00)
Metal bowl protection on request (code PR 4-00)



CODICE DI ORDINAZIONE ORDER CODE		FR+L 4-08-30-S
Attacchi <i>Ports</i>		G1/2"
Temperatura di esercizio <i>Temperature range</i>		max +50°C
Peso <i>Weight</i>		1.5 kg
Pressione di alimentazione <i>Inlet pressure range</i>	$p_{1 \min}$ $p_{1 \max}$	0 bar; 0 MPa 16 bar; 1.6 MPa
Pressione di utilizzo <i>Outlet pressure range</i>	$p_{2 \min}$ $p_{2 \max}$	0.5 bar; 0.05 MPa 8 bar; 0.8 MPa
Differenza minima di pressione (Δp) <i>Minimum pressure difference (Δp)</i>	$p_1 - p_2$	0.2 bar; 0.02 MPa
Isteresi <i>Hysteresis</i>	$p_1 = 10 \text{ bar} / p_2 = 0 \text{ bar}$ $p_1 = 10 \text{ bar} / p_2 = 8 \text{ bar}$	0.9 0.7
Portata raccomandata <i>Recommended flow rate</i>	$p_2 = 6 \text{ bar a } 25 \text{ m/s}$ $p_2 = 6 \text{ bar at } 25 \text{ m/s}$	Q_n 1900 NI/min
Elemento filtrante <i>Filter element</i>		30 μm

Caratteristiche di portata
Flow characteristics

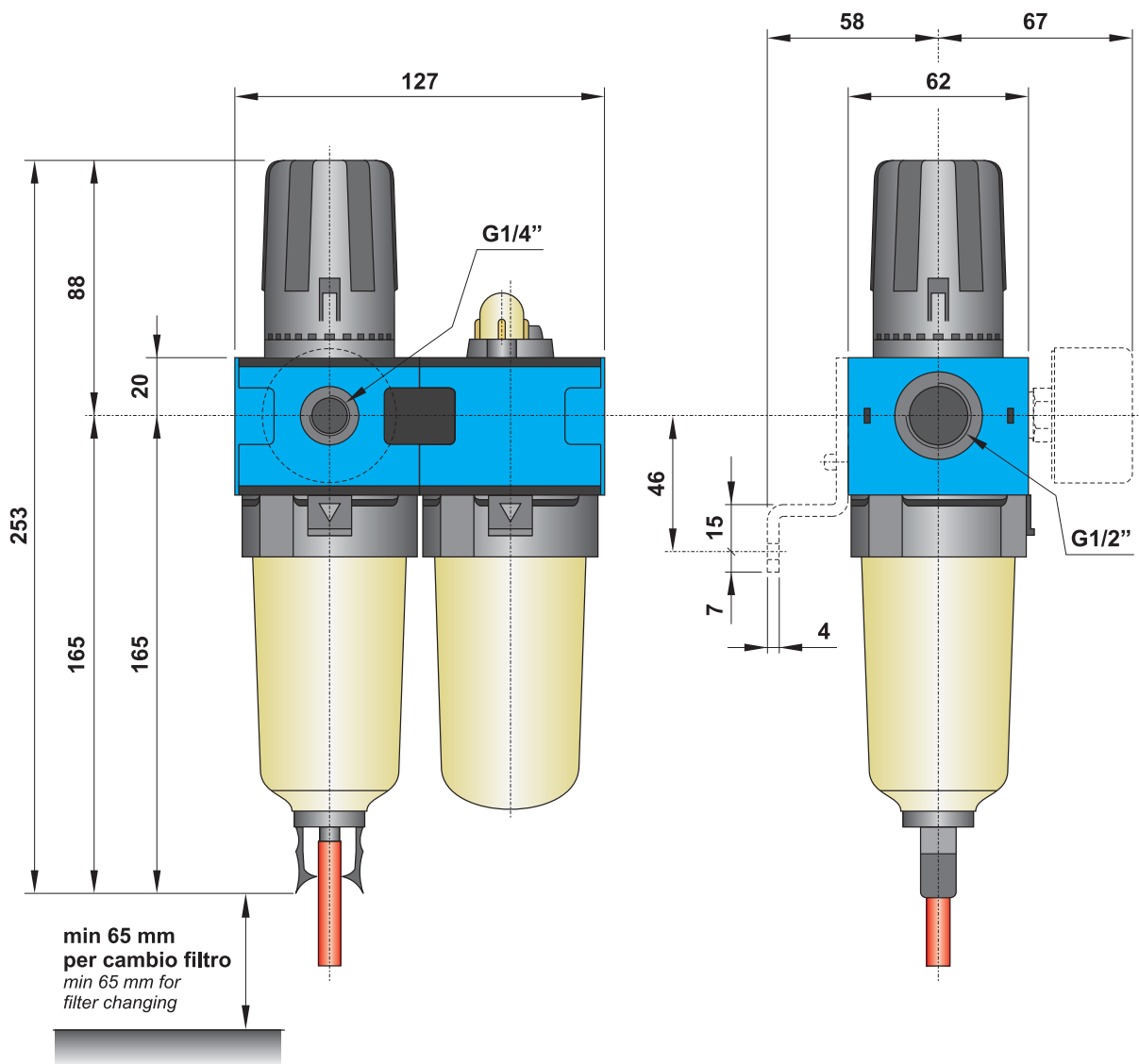
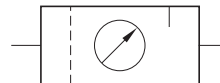


gruppo trattamento aria FR+L G1/2"

G1/2" FR+L air preparation unit



La staffa di fissaggio e il manometro devono essere acquistati separatamente.
Mounting bracket and manometer are bought separately.



Materiali

Corpo: alluminio pressofuso

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Tazze: policarbonato rinforzato

Materials

Body: die-cast aluminium

Seals: NBR

Internal parts: brass and stainless steel

External parts: reinforced polymer

Bowls: reinforced polycarbonate

gruppo trattamento aria FR+L G1"

G1" FR+L air preparation unit

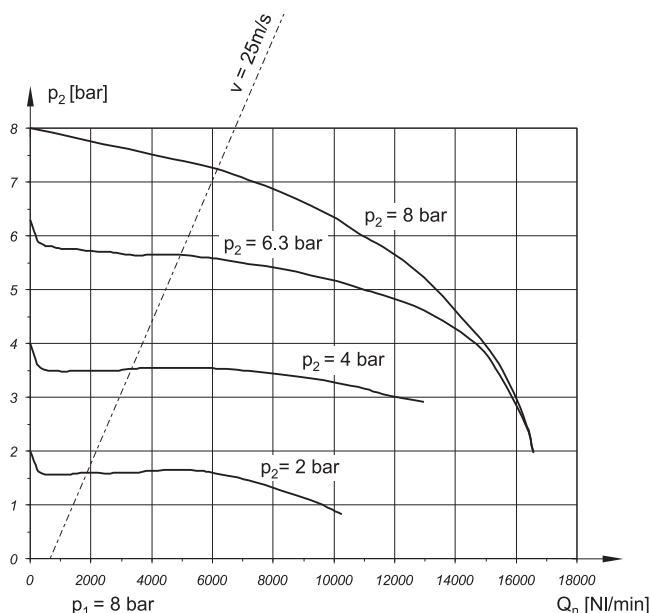


- Il gruppo comprende: filtroregolatore e lubrificatore
The unit includes: filter-regulator and oil mist lubricator
- Separazione condensa: 96%
Moisture separation: 96%
- Scarico semiautomatico della condensa; rifornimento olio manuale
Semi-automatic moisture exhaust; manual oil refilling
- Capacità delle tazze: 130 cm³ (condensa), 500 cm³ (olio)
Bowl capacity: 130 cm³ (moisture), 500 cm³ (oil)
- Installazione verticale; staffe di fissaggio a richiesta (cod. STF 6N; STF 6NA; STF 6NB)
Vertical installation; brackets on request (code STF 6N; STF 6NA; STF 6NB)
- Tazza metallica
Metal bowl



CODICE DI ORDINAZIONE ORDER CODE		FR+L 6N-10-30-S
Attacchi Ports		G1"
Temperatura di esercizio Temperature range		max +50°C
Peso Weight		2.8 kg
Pressione di alimentazione Inlet pressure range	$p_{1 \text{ min}}$ $p_{1 \text{ max}}$	0 bar; 0 MPa 17.5 bar; 1.75 MPa
Pressione di utilizzo Outlet pressure range	$p_{2 \text{ min}}$ $p_{2 \text{ max}}$	0.5 bar; 0.05 MPa 12 bar; 1.2 MPa
Portata massima Maximum flow rate	$p_1 = 10 \text{ bar}; p_2 = 6.3 \text{ bar}; \Delta p = 1 \text{ bar}$ Q_{max}	14600 NI/min
Elemento filtrante Filter element		30 μm

Caratteristiche di portata
Flow characteristics

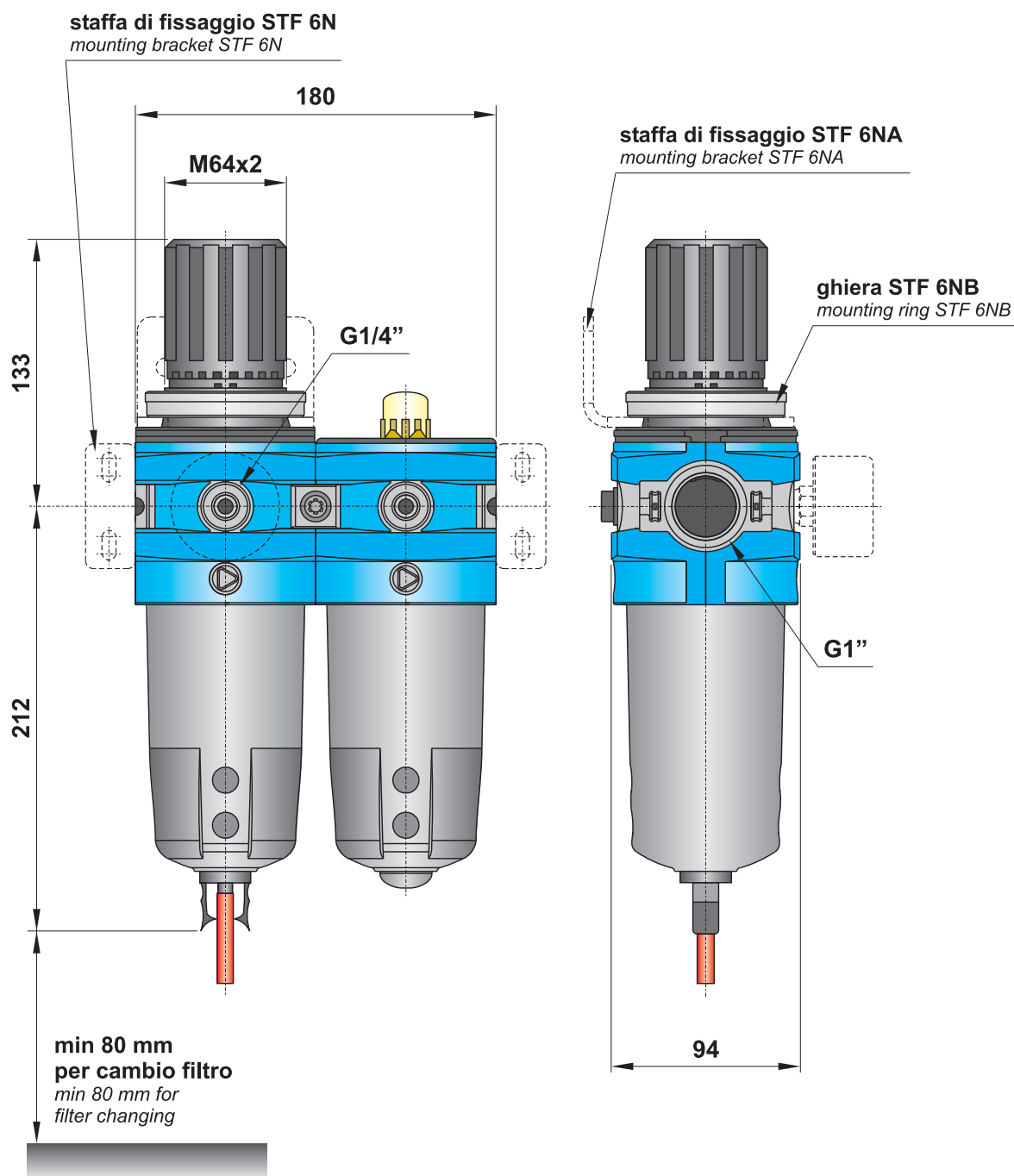
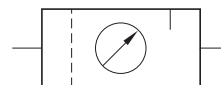


gruppo trattamento aria FR+L G1"

G1" FR+L air preparation unit



Le staffe di fissaggio, la ghiera e il manometro devono essere acquistati separatamente.
Mounting brackets, ring and manometer are bought separately.



Materiali

Corpo: alluminio pressofuso

Guarnizioni: NBR

Parti interne: ottone e INOX

Parti esterne: polimeri rinforzati

Tazze: metalliche

Materials

Body: die-cast aluminium

Seals: NBR

Internal parts: brass and stainless steel

External parts: reinforced polymer

Bowls: metal

gruppo trattamento aria FR+L G1/2"-G3/4"

G1/2"-G3/4" FR+L air preparation unit

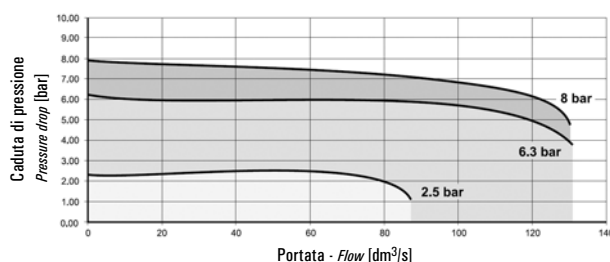


- Il gruppo comprende: filtroregolatore e lubrificatore
The unit includes: filter-regulator and oil mist lubricator
- Separazione condensa: 95%
Moisture separation: 95%
- Scarico semiautomatico della condensa; rifornimento olio manuale
Semi-automatic moisture exhaust; manual oil refilling
- Capacità delle tazze: 60 cm³ (condensa), 90 cm³ (olio)
Bowl capacity: 60 cm³ (moisture), 90 cm³ (oil)
- Installazione verticale; staffa di fissaggio a richiesta (cod. STF 4N)
Vertical installation; bracket on request (code STF 4N)
- Protezione della tazza di serie
Bowl protection already mounted



CODICE DI ORDINAZIONE ORDER CODE		G1/2": FR+L 4N-08-05-S G3/4": FR+L 5N-08-05-S
Attacchi Ports		G1/2" G3/4"
Temperatura di esercizio Temperature range		-10 ... +50°C
Peso Weight		0.9 kg
Pressione di alimentazione Inlet pressure range	$p_{1 \min}$ $p_{1 \max}$	0 bar; 0 MPa 16 bar; 1.6 MPa
Pressione di utilizzo Outlet pressure range	$p_{2 \min}$ $p_{2 \max}$	0 bar; 0 MPa 8 bar; 0.8 MPa
Differenza minima di pressione (Δp) Minimum pressure difference (Δp)	$p_1 - p_2$	0.2 bar; 0.02 MPa
Isteresi Hysteresis	$p_1 = 10 \text{ bar} / p_2 = 0 \text{ bar}$ $p_1 = 10 \text{ bar} / p_2 = 8 \text{ bar}$	0.9 0.7
Portata massima Maximum flow rate	$p = 6.3 \text{ bar}; \Delta p = 0.5 \text{ bar}$ $Q_{\max}$	6660 NI/min
Elemento filtrante Filter element		5 μm

Caratteristiche di portata
Flow characteristics



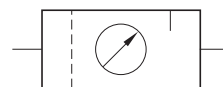
mini gruppo trattam. aria FR+L G1/4"

mini G1/4" FR+L air preparation unit



- Regolatore a membrana con valvola di scarico sovrappressione (relieving); filtro 5 μm
Diaphragm-type pressure regulator with relieving; filter 5 μm
- Manometro incorporato 0 ... 12 bar; capacità tazza: 35 cm^3
Embedded manometer 0 ... 12 bar; bowl capacity: 35 cm^3
- Installazione in linea o a pannello; staffa di fissaggio e ghiera a richiesta
In-line or panel mounting; mounting bracket and ring on request

CODICE DI ORDINAZIONE ORDER CODE		FR+L 2MK-08-05-S 16.298.0
Attacchi Ports		G1/4"
Temperatura di esercizio Temperature range		0 ... +50°C
Peso Weight		0.39 kg
Pressione di alimentazione Inlet pressure range	$P_{1 \text{ min}}$ $P_{1 \text{ max}}$	1.5 bar; 0.15 MPa 12 bar; 1.2 MPa
Pressione di utilizzo Outlet pressure range	$P_{2 \text{ min}}$ $P_{2 \text{ max}}$	0 bar; 0 MPa 8 bar; 0.8 MPa
Portata massima Maximum flow rate	Q_{max}	600 NI/min
$p = 6.3 \text{ bar}; \Delta p = 1 \text{ bar}$		



Materiali

Corpo: tecnopolimero

Guarnizioni: NBR

Parti interne: ottone e INOX

Tazza: policarbonato

Materials

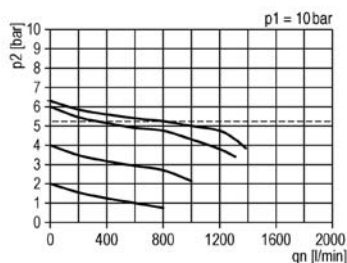
Body: technopolymer

Seals: NBR

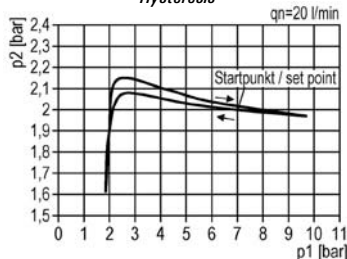
Internal parts: brass and stainless steel

Bowl: polycarbonate

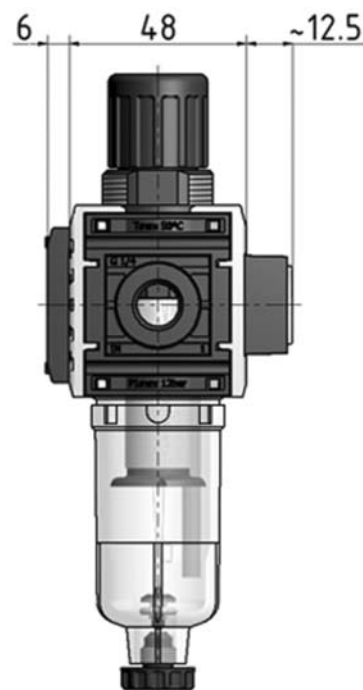
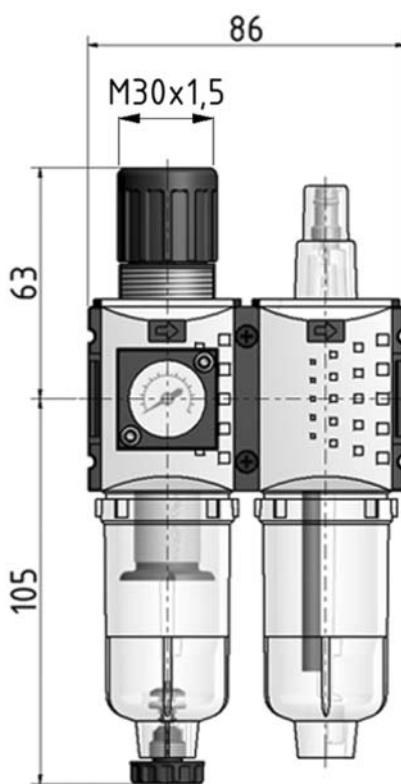
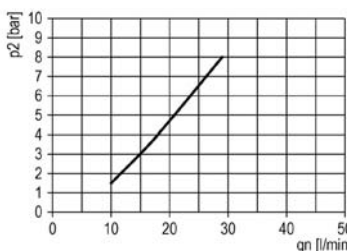
Caratteristiche di portata
Flow characteristics



Isteresi
Hysteresis



Rapporto olio/aria
Oil/air ratio

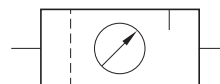


gruppo trattam. aria FR+L G1/4"-G3/8"-G1/2"

G1/4"-G3/8"-G1/2" FR+L air preparation unit



- Regolatore a membrana con valvola di scarico sovrappressione (relieving); filtro 5 μm
Diaphragm-type pressure regulator with relieving; filter 5 μm
- Capacità tazza: 40 cm³ (G1/4"-G3/8"); 80 cm³ (G1/2"); protezione della tazza di serie
Bowl capacity: 40 cm³ (G1/4"-G3/8"); 80 cm³ (G1/2"); bowl protection already mounted
- A richiesta disponibile con filetti NPT
On request available with NPT threads

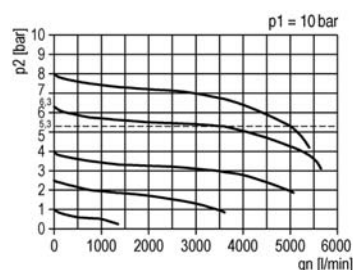
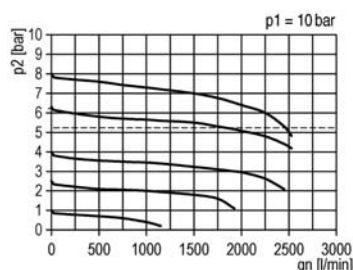


CODICE DI ORDINAZIONE ORDER CODE	scarico semiautomatico semi-automatic moisture exhaust		FR+L 2K-08-05-S 16.305.0	FR+L 3K-08-05-S 16.345.0	FR+L 4K-08-05-S 16.325.0
	scarico automatico automatic moisture exhaust		FR+L 2K-08-05-A 16.106.3	FR+L 3K-08-05-A 16.107.3	FR+L 4K-08-05-A 16.108.3
Attacchi Ports			G1/4"	G3/8"	G1/2"
Temperatura di esercizio Temperature range			0 ... +50°C	0 ... +50°C	0 ... +50°C
Peso Weight			0.68 kg	0.68 kg	1.06 kg
Pressione di alimentazione Inlet pressure range	p _{1 min} p _{1 max}		1.5 bar; 0.15 MPa 16 bar; 1.6 MPa	1.5 bar; 0.15 MPa 16 bar; 1.6 MPa	1.5 bar; 0.15 MPa 16 bar; 1.6 MPa
Pressione di utilizzo Outlet pressure range	p _{2 min} p _{2 max}		0 bar; 0 MPa 8 bar; 0.8 MPa	0 bar; 0 MPa 8 bar; 0.8 MPa	0 bar; 0 MPa 8 bar; 0.8 MPa
Portata massima Maximum flow rate	p = 6.3 bar; Δp = 1 bar	Q _{max}	1800 NI/min	1800 NI/min	3500 NI/min

G1/4"-G3/8"

Caratteristiche di portata
Flow characteristics

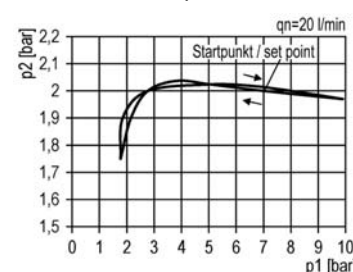
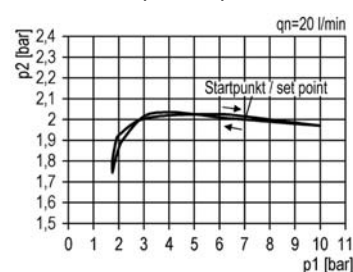
G1/2"



G1/4"-G3/8"

Isteresi
Hysteresis

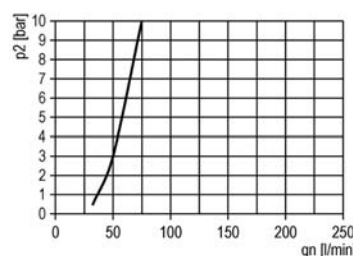
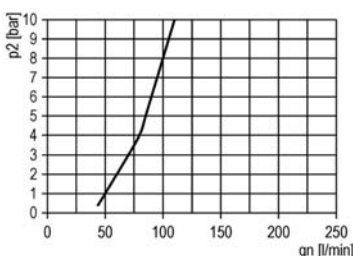
G1/2"



G1/4"-G3/8"

Rapporto olio/aria
Oil/air ratio

G1/2"



gruppo trattam. aria FR+L G1/4"-G3/8"-G1/2"

G1/4"-G3/8"-G1/2" FR+L air preparation unit

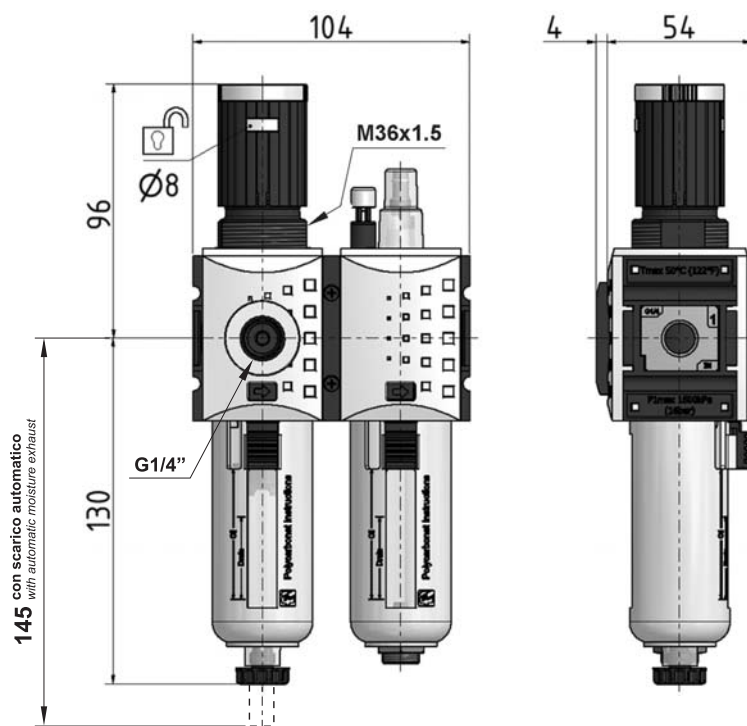


FR+L 2K-08-05-S

FR+L 2K-08-05-A

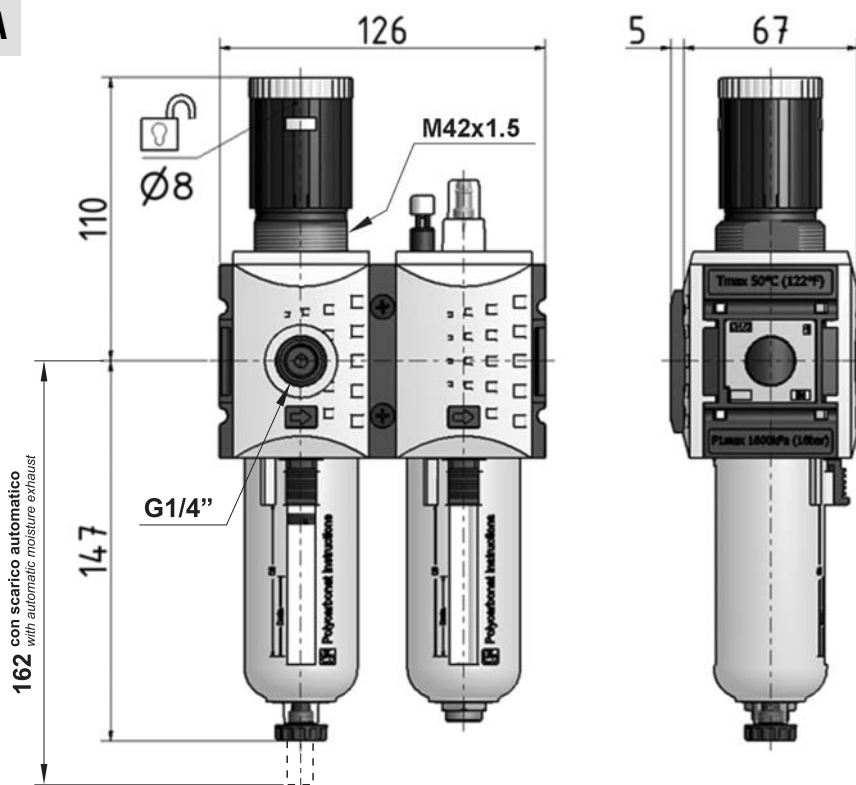
FR+L 3K-08-05-S

FR+L 3K-08-05-A



FR+L 4K-08-05-S

FR+L 4K-08-05-A



Materiali

Corpo: tecnopolimero

Guarnizioni: NBR

Parti interne: ottone e INOX

Tazza interna: policarbonato

Protezione tazza: poliammide

Materials

Body: technopolymer

Seals: NBR

Internal parts: brass and stainless steel

Internal bowl: polycarbonate

Bowl protection: polyamide

La staffa e la ghiera di fissaggio devono essere acquistate separatamente.
Mounting bracket and ring are bought separately.

Filetto per manometro: G1/4".
Thread for manometer: G1/4".

gruppo trattam. aria FR+L G1"

G1" FR+L air preparation unit



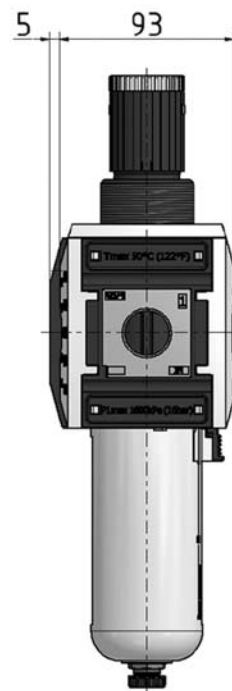
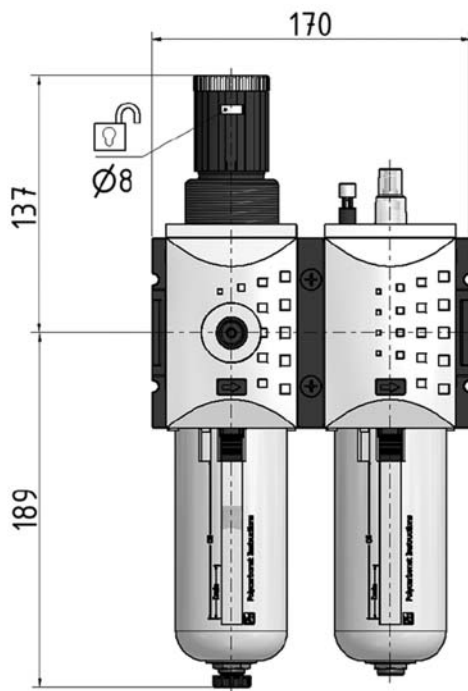
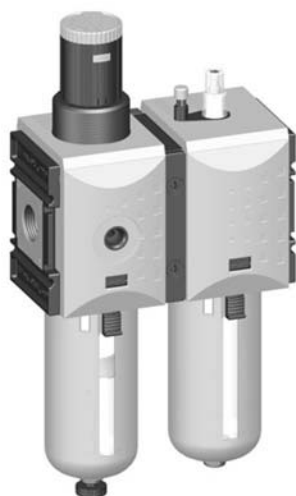
- Regolatore a membrana con valvola di scarico sovrappressione (relieving); filtro 5 μm
Diaphragm-type pressure regulator with relieving; filter 5 μm
- Capacità tazza: 181 cm^3 ; protezione della tazza di serie
Bowl capacity: 181 cm^3 ; bowl protection already mounted

La staffa e la ghiera di fissaggio devono essere acquistate separatamente.

Mounting bracket and ring are bought separately.

Filetto per manometro: G1/4".

Thread for manometer: G1/4".



CODICE DI ORDINAZIONE ORDER CODE	scarico semiautomatico semi-automatic moisture exhaust		FR+L 6K-08-05-S 16.365.0
	scarico automatico automatic moisture exhaust		FR+L 6K-08-05-A 16.366.0
Attacchi Ports			G1"
Temperatura di esercizio Temperature range			0 ... +50°C
Pressione di alimentazione Inlet pressure range	$p_{1 \text{ min}}$ $p_{1 \text{ max}}$	1.5 bar; 0.15 MPa 16 bar; 1.6 MPa	
Pressione di utilizzo Outlet pressure range	$p_{2 \text{ min}}$ $p_{2 \text{ max}}$	0 bar; 0 MPa 8 bar; 0.8 MPa	
Portata massima Maximum flow rate	Q_{max}	$p = 6.3 \text{ bar}; \Delta p = 1 \text{ bar}$ 12000 NI/min	

Materiali

Corpo: tecnopolimero

Guarnizioni: NBR

Parti interne: ottone e INOX

Tazza interna: policarbonato

Protezione tazza: poliammide

Materials

Body: technopolymer

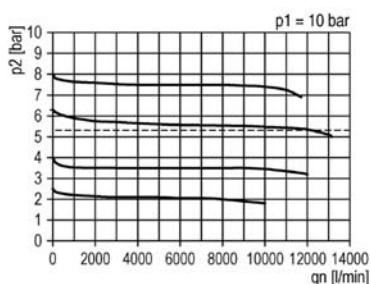
Seals: NBR

Internal parts: brass and stainless steel

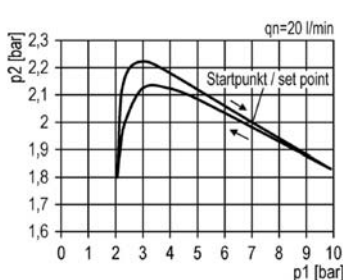
Internal bowl: polycarbonate

Bowl protection: polyamide

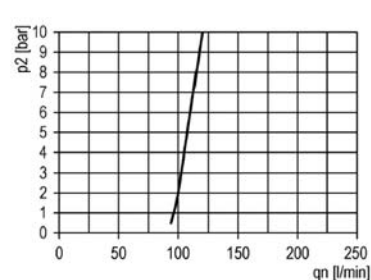
Caratteristiche di portata
Flow characteristics



Isteresi
Hysteresis



Rapporto olio/aria
Oil/air ratio



По вопросам продаж и поддержки обращайтесь:

Алматы (7273)495-231
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Россия (495)268-04-70

Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81
Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Киргизия (996)312-96-26-47

Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Казахстан (7172)727-132

Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93