FOAM GENERATOR FGX

Type: FGX

Data Sheet No. 012.1

A device for continuous production of technical foam and its accurate dosing with Start-Stop system.
The preset technical foam parameters are not influenced by fluctuation of input water pressure or by temporary electric power outage.

FGX illustration:

Utilization: This device is determined for production of technical foam for incorporation into cement matrix.
FGX is designed to operate in automatic mode while the foam parameters can be adjusted in a wide range.

Parts: Continuous foam generator, compressor, water tank, pump, and switchboard with control panel and protection of electric drives. The parts are fixed on a frame with legs or wheels.

It includes:

- System of automatic foam concentrate dosing with preset concentration
- Automatic monitoring system for the minimum volume / level of the foaming agent in the storage tank
- Compressed air supply system
- Source of pressurized water system including a water tank with monitoring of the minimum water volume
- System of protection of the water pump against idle run
- Central switchboard with control buttons
- Control unit for accurate foam dosing with memory for the case of electric power outage
- Remote control
- Hose for water, foaming agent and for foam
- Electric power supply cable

Technical data:

FGX can be controlled by switchboard buttons or by the remote control in the place of mixing with cement or sand-cement slurry.

Supply voltage:	400 V / 50 Hz; protection class IP 44 (sprayed water)
Installed power input:	from 10* kW
Compressor capacity:	up to 950** lit/min, min 6 bar (0.6 MPa)
Technical foam density range:	from 40 to 200 g/l
Production capacity continuous (discontinuous):	from 7*** l/s at foam densities of 40-100 g/l (up to 16 l/s)
Capacity for foam density 40/60/80 g/l:	up to 14/13/10 l/s continuous
Technical foam concentration range:	from 1 to 5 %
Adjustable foam dispensing time:	from 1 to 9999 sec
Outer dimensions – l × w × h (with wheels):	1210 × 1160 × 1380 mm (1670 mm)
Weight itself with accessories:	to 300 kg
Water supply:	min. 3/4“ with capacity min. 2 l/sec

* depends on the type of the built-in compressor
** depends on the size of the installed air accumulators and the power output of the compressor
*** depends mainly on the density of the produced technical foam

Transport: On a suitable means of transport.

Operation:

1. Putting the device into operation:

Before starting the work, place FGX on a flat surface and connect it to the water and electric supply. After connecting the foam concentrate can/drum, FGX is prepared for production of the technical foam.

2. Operation of the device:

To start each production cycle, FGX operator sets the time on the control unit and gives instructions using controls on the control panel or by the remote control. The operation can be anytime interrupted and resumed from the point of interruption. The device can operate at temperatures above 0°C.

3. Finishing operation of the device:

When the operation is finished, disconnect FGX from technical foam supply, rinse with water and then disconnect it from electricity and water supply.
Before transportation release the pressure air and discharge water from the storage tank.
If it is possible that the surrounding temperature might fall below zero, it is necessary to thoroughly dewater the whole device.

4. Operation requirements:

Electric supply:	400 V / 50 Hz, 5-pin, 32 A
Area necessary:	see Technical data, section “Dimensions“

Safety: Design of the device complies with applicable safety regulations and standards valid in the EU.
Electric installation is made for 5-pin connection with separate protection of installed electric motors.

Validity from 01.08.2014

© SIRCONTEC s.r.o.
L. Svobodu 26
018 51 Nová Dubnica
Slovak Republic

Tel.: +421 903 502200
Fax: +421 32 7433782
E-mail: info@sircontec.com
www.sircontec.com

FOAM GENERATOR FGX M

Type: FGX M — Data Sheet No. 012.2

A device for continuous production of technical foam and its accurate dosing with Start-Stop system.
The preset technical foam parameters are not influenced by fluctuation of input water pressure or by temporary electric power outage.

FGX M illustration:

Utilization: This device is determined for production of technical foam for incorporation into cement matrix.
FGX M is designed to operate in automatic mode while the foam parameters can be adjusted in a wide range.

Parts: Continuous foam generator, compressor, water tank, pump, and switchboard with control panel and protection of electric drives. The parts are fixed on the chassis (trailer).

It includes:

- System of automatic foam concentrate dosing with preset concentration
- Automatic monitoring system for the minimum volume / level of the foaming agent in the storage tank
- Compressed air supply system
- Source of pressurized water system including a water tank with monitoring of the minimum water volume
- System of protection of the water pump against idle run
- Central switchboard with control buttons
- Control unit for accurate foam dosing with memory for the case of electric power outage
- Remote control
- Hose for water, foaming agent and for foam
- Electric power supply cable

Technical data:

FGX M can be controlled by switchboard buttons or by the remote control in the place of mixing with cement or sand-cement slurry.

Supply voltage:	400 V / 50 Hz; protection class IP 44 (sprayed water)
Installed power input:	from 10* kW
Compressor capacity:	up to 950** lit/min, min 6 bar (0.6 MPa)
Technical foam density range:	from 40 to 200 g/l
Production capacity continuous (discontinuous):	from 7*** l/s at foam densities of 40-100 g/l (up to 16 l/s)
Capacity for foam density of 40/60/80 g/l:	up to 14/13/10 l/s continuous
Technical foam concentration range:	from 1 to 5 %
Adjustable foam dispensing time:	from 1 to 9999 sec
Outer dimensions – l × w × h:	2800 × 1650 × 1700 mm
Weight itself with accessories:	from 420 kg
Pay load of chassis with FGX M	200 kg
Water supply:	min. 3/4“ with capacity min. 2 l/sec

* depends on the type of the built-in compressor
** depends on the size of the installed air accumulators and the power output of the compressor
*** depends mainly on the density of the produced technical foam

Transport: Towed by suitable means of transport, trailer is not braked, category up to 750 kg.

Operation:

1. Putting the device into operation:

Before starting the work, place FGX M on a flat surface and connect it to the water and electric supply. After connecting the foam concentrate can/drum, FGX M is prepared for production of the technical foam.

2. Operation of the device:

To start each production cycle, FGX operator sets the time on the control unit and gives instructions using controls on the control panel or by the remote control. The operation can be anytime interrupted and resumed from the point of interruption. The device can operate at temperatures above 0°C.

3. Finishing operation of the device:

When the operation is finished, disconnect FGX M from technical foam supply, rinse with water and then disconnect it from electricity and water supply.
Before transportation release the pressure air and discharge water from the storage tank.
If it is possible that the surrounding temperature might fall below zero, it is necessary to thoroughly dewater the whole device.

4. Operation requirements:

Electric supply:	400 V / 50 Hz, 5-pin, 32 A
Area necessary:	see Technical data, section “Dimensions“

Safety: Design of the device complies with applicable safety regulations and standards valid in the EU.
Electric installation is made for 5-pin connection with separate protection of installed electric motors.

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© SIRCONTEC s.r.o.
L. Svobodu 26
018 51 Nová Dubnica
Slovak Republic

Tel.: +421 903 502200
Fax: +421 32 7433782
E-mail: info@sircontec.com
www.sircontec.com

FOAM GENERATOR FGB

Type: FGB — Data Sheet No. 012.3

A portable **d**evice for continuous production of technical foam and its accurate dosing with Start-Stop system.
The preset technical foam parameters are not influenced by fluctuation of input water pressure or by temporary electric power outage.

FGB illustration:

Utilization: This device is determined for production of technical foam for incorporation into cement matrix.
FGB is designed to operate in automatic mode while the foam parameters can be adjusted in a wide range.

Parts: Continuous foam generator, water tank, pump, and switchboard with control panel, fuses and protection of electric drives.

It includes:

- System of automatic foam concentrate dosing with preset concentration
- Automatic monitoring system for the minimum volume / level of the foaming agent in the storage tank
- Source of pressurized water system including a water tank with monitoring of the minimum water volume
- System of protection of the water pump against idle run
- Central switchboard with control buttons
- Control unit for accurate foam dosing with memory for the case of electric power outage
- Remote control
- Hose for water, foaming agent and for foam
- Electric power supply cable

Technical data:

FGB can be controlled by switchboard buttons or by the remote control in the place of mixing with cement or sand-cement slurry.

Supply voltage:	400 V / 50 Hz; protection class IP 44 (sprayed water)
Installed power input:	from 2.5 kW
Technical foam density range:	from 40 to 200 g/l
Production capacity (foam density 60/80 g/l):	from 7* l/s (up to 10/8 l/s with compressor AKB)
Technical foam concentration range:	from 1 to 5 %
Adjustable foam dispensing time:	from 1 to 9999 sec
Dimensions l × w × h:	830 × 770 × 660 mm
Weight of the clean device itself:	93 kg
Water supply:	min. 3/4“ with capacity min. 2 l/sec
Compressed air supply:	min.3/8“ with capacity min. 600 lit/min at min. press. of 6 bar

* depends mainly on the compressed air supply and the density of the produced technical foam

Transport: By suitable means of transport, e.g. a passenger car.

Operation:

1. Putting the device into operation:
Before starting the work, place FGB on a flat surface (compacted surface) and connect it to the water and electric supply, also to the compressed air supply (compressor). After connecting the foam concentrate can/drum, FGB is prepared for production (of the technical foam).

2. Operation of the device:
To start each production cycle, FGB operator sets the time on the control unit and gives instructions using controls on the control panel or by the remote control. The operation can be anytime interrupted and resumed from the point of interruption. The device can operate at temperatures above 0°C.

3. Finishing operation of the device:
When the operation is finished, disconnect the foam generator from air and technical foam, rinse with water, disconnect it from electricity and water supply and discharge the remaining water.
If it is possible that the surrounding temperature might fall below zero, it is necessary to thoroughly dewater the whole device.

4. Operation requirements:

Electric supply:	400 V / 50 Hz, 5-pin, 16 A
Area necessary:	1 × 1 m

Safety: Design of the device complies with applicable safety regulations and standards valid in the EU.
Electric installation is made for 5-pin connection with separate protection of installed electric motors.

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L. Svobodu 26
018 51 Nová Dubnica
Slovak Republic

Tel.: +421 903 502200
Fax: +421 32 7433782
E-mail: info@sircontec.com
www.sircontec.com

COMPRESSOR AKB

Type: AKB — Data Sheet No. 012.4

Portable device for continuous production of compressed air.

AKB illustration:

Utilization: This device is determined for generating compressed air necessary for technical foam production; it is optimized for cooperation with FGB foam generator or for utilization anywhere, where compressed air is needed.
AKB is designed to operate in automatic mode while the compressed air parameters can be adjusted in a wide range.

Parts: Compressor, air accumulators, air hose for connecting to FGB and electric cable for connecting to the power supply / FGB, built-in compressor electric drive's protection, automatic control of working pressure (minimum and maximum operating pressure)

Technical data:

Supply voltage:	400 V / 50 Hz; protection class IP 44 (sprayed water)
Installed power input:	up to 5.5 kW
Production capacity:	max 800* lit/min, min 6 bar (0.6 MPa)
Dimensions l × w × h:	985 × 710 × 650 mm
Weight of the clean device itself:	103 kg

* Depends on the size of the installed air accumulators and the power output of the compressor

Transport: By suitable means of transport, e.g. a passenger car.

Operation:

1. Putting the device into operation:

Before starting the work, place AKB on a flat surface (compacted surface) and connect it to the electric supply / FGB and interconnect it with FGB using an air hose.

2. Operation of the device:

Start the operation of the compressor using a switch on the pressure switch. After it is automatically switched off, AKB is prepared for operation.
The device can operate at temperatures above 0°C.
CAUTION
Protective grille over the pulleys of the compressor's drive must be permanently uncovered to allow admission of the cooling air.

3. Finishing operation of the device:

When the operation is finished, disconnect AKB from electric supply and from FGB; before transportation it is always necessary to release the compressed air and discharge mud from the device through a drain valve.
Release the pressure air before transportation.

4. Operation requirements:

Electric supply:	400 V / 50 Hz, 16 A
Area necessary:	see Technical data, section "Dimensions"

Safety: Design of the device complies with applicable safety regulations and standards valid in the EU.
Electric installation is made for 5-pin connection with separate protection of installed electric motor.

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L. Svobodu 26
018 51 Nová Dubnica
Slovak Republic

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Fax: +421 32 7433782
E-mail: info@sircontec.com
www.sircontec.com