

IDROTECH

# IDROTECH<sup>®</sup>

***FOGGING SYSTEM 70 VAR  
WITH VARIABLE FLOW RATE***

# **New!**





## Fixed fogging system FOG 70 VAR with variable frequency drive

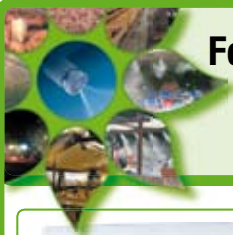
**Fixed variable frequency drive fogging system FOG 70 VAR can automatically manage up to 16 nebulizing lines working with a minimum of 6 nozzles up to a maximum of 325 nozzles.**

Fixed variable variable frequency drive fogging system FOG 70 VAR including:

- 70 bar motor pump-group unit, electric motor capable of operating from 100 rpm to 1450 rpm and delivering, according to the model, a variable output of water from 0.5 l/min up to a maximum of 15 l/min; from 6 nozzles to 325 nozzles (nozzles with holes of 1.5mm diameter) strictly stabilised at 70 bar pressure, *see features below*.
- Water nebulizing lines that can be, as required, in stainless steel or in polyamide, or a mixture of both, *(see pages 72-77)*.
- Nebulizing nozzles, *(see pages 82)*.
- Sensors and remote controls (timers, humidistats, thermostats, heliostat, etc.) *(see page 80)*.
- Electrical control panel complete with PLC microprocessor, *(see features below)*.

### Design:

For a customer's request and after receiving the appropriate documentation (diagram of the area to be nebulized, characteristics of the site, etc.) we can supply a detailed offer including the parts of the fog system (type of unit, type and length of line, amount of nozzles, sensors and so on). We will despatch the components together with the most efficient design where we will detail how to assemble the system (distance between each nozzle, height and position of the line, position of sensors and controls, etc.).



## Fogging system FOG 70 VAR Electric control panel



**The electric control panel with Q series PLC** receives signals from the sensors and operation controls that are located on the various lines/spray areas (humidostat, thermostat...etc) and sends the ON-OFF command to the FOG 70 VAR unit. Moreover, the PLC microprocessor allows you to program the operation of the fog system in weekly, daily, and hourly intervals. The same operations can be controlled via telephone or the internet.

### Technical specifications:

- **Electrical box** with ON-OFF switch. • **PLC microprocessor**. • **Supply** for PLC microprocessor.
- **Solenoid valve** relay for regulating the lines. • **Fuses**. • **Transformer**. • **Terminal board**. • **3 m power cable**. • **Cable with quick connection** for connecting to the control panel of the FOG 70 unit.

Code	Model	Description
ELE.0016	Q4-PLC	Electric control panel for managing 4 lines
ELE.0017	Q8-PLC	Electric control panel for managing 8 lines
ELE.0018	Q12-PLC	Electric control panel for managing 12 lines
ELE.0019	Q16-PLC	Electric control panel for managing 16 lines



## Fogging system

### FOG 70 VAR with variable flow rate

#### Unit module



Outlet:  
1/2" M

Dimensions (LxPxH) (LxWxH)  
45 x 78 x 50 cm - 17.8" x 30.7" x 19.7"



Fog sytem FOG 70 VAR, detail of stainless steel version: by-pass valve, stainless steel pump and pressure switch.



Fog sytem FOG 70 VAR, detail of the side with the connector to the PLC panel.



Detail of components to control and regulate Fog sytem FOG 70 VAR.

**Standard version**

Fog sytem FOG 70 VAR.  
Unit module

Code	Model	Max no. nozzles at 70 bar *	Pressure	Flow rate **	Power absorbed HP	Volts-Hz	
ZX.8040	FOG 70-6 VAR	60	70 bar 1000 psi	0,5-6 l/min 0.13-1.60 USGpm	2	3x400 V-50 Hz	* The number of nozzles has been calculated by using a nozzle with flow rate 20 (0,089 l/min-0.02 USGpm) at 70 bar-1000 psi.  ** The flow rate varies depending on the frequency set on the variable frequency drive.
ZX.8041	FOG 70-8 VAR	90	70 bar 1000 psi	0,5-8 l/min 0.13-2.10 USGpm	2	3x400 V-50 Hz	
ZX.8042	FOG 70-11 VAR	125	70 bar 1000 psi	0,7-11 l/min 0.18-2.90 USGpm	2	3x400 V-50 Hz	
ZX.8043	FOG 70-15 VAR	170	70 bar 1000 psi	1-15 l/min 0.26-4.00 USGpm	3	3x400 V-50 Hz	

#### Technical specifications:

- Galvanized steel **frame** with AISI 304 stainless steel cover. • **H.p. pump** with camshaft, 3 pistons, brass head • **Electric motor** 3x400 V –50Hz with variable frequency. • **By-pass valve**. • Glycerine filled **pressure gauge** made from AISI 304 stainless steel.
- Water inlet **I.p. electric valve**, 24V- 50/60Hz. • **H.p. electric valve**, 24V – 50/60Hz. • H.p. safety valve **pressure switch** for lack of water and/or broken h.p. pipe line. • **H.p. and I.p. water circuit**. • **Electric panel**, complete with: ON-OFF thermic switch, remote control switch, fuses, transformer 400V – 24 V, quick connection for connecting to the PLC panel.

**SS version**

Code	Model	Max no. nozzles at 70 bar *	Pressure	Flow rate **	Power absorbed HP	Volts-Hz	
ZX.8031	FOG 70-11 VAR SS	125	70 bar 1000 psi	0,7-11 l/min 0.18-2.90 USGpm	2	3x400 V-50 Hz	* The number of nozzles has been calculated by using a nozzle with flow rate 20 (0,089 l/min-0.02 USGpm) at 70 bar-1000 psi.  ** The flow rate varies depending on the frequency set on the variable frequency drive.
ZX.8030	FOG 70-15 VAR SS	170	70 bar 1000 psi	1-15 l/min 0.26-4.00 USGpm	3	3x400 V-50 Hz	

#### Technical specifications:

- Frame** made of stainless steel AISI 304. • **H.p. pump** with camshaft, 3 pistons, AISI 316L stainless steel head • **Electric motor** 3x400 V – 50Hz with variable frequency. • AISI 316L stainless steel **by-pass valve**. • Glycerine filled **pressure gauge** made from AISI 304. • AISI 316L stainless steel water inlet **I.p. electric valve**, 24V – 50/60Hz. • AISI 316L stainless steel **h.p. electric valve**, 24V – 50/60Hz. • H.p. safety valve **pressure switch** for lack of water and/or broken AISI 316L stainless steel h.p. pipe line. • **H.p. and I.p. water circuit** with AISI 316L stainless steel connections. • **Electric panel**, complete with: ON-OFF thermic switch, remote control, fuses, transformer, 400V-24V, quick connection for connecting to the PLC panel.

**Optional**



Code	Description
ML.131933018	Keyboard to regulate the flow rate of nebulized water

#### TERMS

- Delivery: **EX WORKS BORGORICCO (PD)-ITALY**
- Packing: **NOT INCLUDED**
- This catalogue replace the previous one
- Technical features, prices, data, tables and figures are just indicative. Any variation can be made by Club dei Riparatori by Idrobase srl without notice.

# IDROTECH®

## THE FLOWER OF NEBULIZATION

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