

QM 1200

Dual inlet modular decompression unit



FEATURES

Single stage decompression unit for technical gas supply system, uses a R1200 pressure regulators in chrome-plated brass.

Inlet pressure up to 220 bar (3190 psi).
Outlet pressure up to 15 bar (218 psi) is controlled by a diaphragm; greater outlet pressures are controlled by a piston.

Inlet connections:

W 20x1/14" SX – M or

W 21,7x1/14" – M according to the fluid.

Non return on-off valve for each inlet.

The decompression unit is suitable for all industrial applications.

Available on request the following optional: pre-heaters, bleeder micro-regulators and pressure switches.

Available the ATEX version brand **CE II 2GDcII CX**. For use in potentially explosive atmosphere zones: 1, 21, 2, 22 (not for in mines and zone 0).

The product complies with the directive 97/23/CE (PED)

SPECIFICATIONS

Weight: ~11 kg / ~24,25 lb

~17 kg / ~37,5 lb (pre-heaters equipped version)

Working temperature: -20°C ÷ +60°C (-4° F ÷ 140° F)

Main valve leakage classification: VI bubble tight

Degree of protection: IP25

Flow coefficient: $K_v = 0,25 \text{ Nm}^3/\text{h}$ $C_v = 0,3 \text{ US gal/min}$

Inlets and outlet pressure gauges, accuracy class 1,6;

G 1/4 ports

Balanced main valve.

MATERIALS

Pressure regulators and on-off valves: external chrome-plated brass

Internal parts: brass

Adjusting spring: C85 (not in contact with the fluid)

Main valve spring: C85 (not in contact with the fluid)

Diaphragm (for outlet pressure up to 15 bar/ 218 psi): two coupled diaphragms : NBR+PTFE, PTFE in contact with the fluid

Piston (for outlet pressure greater than 15 bar/ 218 psi): brass

O-ring: EPDM or FPM according to the fluid

Main valve gasket: PA 6.6 (EPDM for inlet pressure 15 bar/ 218 psi)

Frame: AISI 304 polished AISI 304 stainless steel

ACCESSORIES

Pre-heaters, bigger overall dimension

Electric pressure switches.

Bleeder micro-regulator to drain the gas from the inlet hoses. it is possible to bleed dangerous gas in a safety area before replacing the cylinders. Moreover, the bleeders drain the air from the hoses in case a pure gas is used, draining has to be done before opening the on-off valve.

Acoustic and blinking alarm: 0THAA0100 (separate unit to be connected to the pressure switches)

Stainless steel AISI 316L version

SPARE PARTS

Gauges

Complete kit: gaskets, assembled diaphragm, filters, main valves, o-rings

Electric pressure switch: 0TEBL0203

Bleeder micro-regulator: C01326231311 EPDM ; C01326291311 FPM

Complete kit: spare parts for pre-heater.

available model types

Quadri di decompressione

Decompression units

Quadri di decompressione modulari a doppio ingresso

Decompression units with 2 inlets

In ottone cromato / Made of chrome-plated brass

TYPE	PS bar	P.Out bar	CONNECTION IN	CONNECTION OUT	CODE	MEDIUM
						QM1200
QM 1200 LA	15	0,2-1,5	W 20 x 1/14" sin - M	G 1/2-M	QM#12	C2H2
QM 1200 MB	80	1,5-15	W 21,7 x 1/14" - M	G 1/2-M	QM#12	CO2 - N2O
QM 1200 MC	80	3-30	W 21,7 x 1/14" - M	G 1/2-M	QM#12	CO2 - N2O
QM 1200 HB	220	1,5-15	W 21,7 x 1/14" - M	G 1/2-M	QM#12	O2
			W 20 x 1/14" sin - M			H2 - CH4
			W 21,7 x 1/14" - M			Aria - N2 - Ar - He
QM 1200 HC	220	3-30	W 21,7 x 1/14" - M	G 1/2-M	QM#12	O2
			W 20 x 1/14" sin - M			H2 - CH4
			W 21,7 x 1/14" - M			Aria - N2 - Ar - He
QM 1200 HD	220	5-50	W 21,7 x 1/14" - M	G 1/2-M	QM#12	O2
			W 20 x 1/14" sin - M			H2 - CH4
			W 21,7 x 1/14" - M			Aria - N2 - Ar - He
QM 1200 HF	220	20-200	W 21,7 x 1/14" - M	G 1/2-M	QM#12	O2
			W 20 x 1/14" sin - M			H2 - CH4
			W 21,7 x 1/14" - M			Aria - N2 - Ar - He

ESECUZIONI DIVERSE DA STANDARD / EXECUTIONS DIFFERENT FROM STANDARD

Esecuzione / Execution	Applicazione / Suitable for
Con 2 pressostati elettrici With 2 pressure switches	MB ---> HC, gas inerti*, gas comburenti** Inert* and comburent** gases
Con 2 preriscaldatori modulari integrati With 2 modular pre-heaters 125W	MB ---> HF, gas inerti* Inert gases
Con 2 microregolatori di spurgo With 2 micro regulators for venting	LA ---> HF, tutti i gas All the gases
Con 2 pressostati elettrici + 2 spurghi With 2 pressure switches + 2 micro for venting	MB ---> HC, gas inerti*, gas comburenti** Inert and comburent gases
Convogliamento su campana e V.S. Venting on bonnet and over pressure valve	LA ---> HF, tutti i gas All the gases
Versione ATEX / ATEX execution	
Versione in acciaio INOX 316L / Stainless steel version	

* Gas inerti / Inert gases: Aria - N2 - He - Ar - CO2

** Gas comburenti / Comburent gases: O2 - N2O

ACCESSORI IMPIANTISTICA / OPTIONAL EQUIPMENTS

Esecuzione / Execution	Applicazione / Suitable for	CODE
Centrale segnalazione acustica/luminosa, 220V, protezione IP50 Alarm unit (light and sound), 220V, IP50	Quadri completi di pressostati Units with pressure switches	0THAA0100
Pressostato 220 bar, taratura 3-30 bar non anti-deflagrante, protezione IP50 attacchi G 3/8-M Pressure switch 220 bar set range 3-30 bar Non flameproof, IP50 Connection G 3/8-M	Quadri MB, HB, HC Per gas non combustibili Decomp. units MB, HB, HC For non-flamable gases	0TEBL0203

generating the product code

QUADRI MODULARI			
A B CC DD EE F GG			
A	Materiale / Material	1	Ottone cromato
		3	AISI 316L
B	Taglia / Size	2	1200
CC	Pressione ingresso / Inlet pressure	B0	PS 15 bar L
		J0	PS 220 bar H
		L0	PS 80 bar M
DD	Intervallo uscita / Outlet range	A0	AQ - Pout 0,2 - 1,5 bar
		E0	BQ - Pout 1,5 - 15 bar
		F0	CQ - Pout 3 - 30 bar
		G0	DQ - Pout 5 - 50 bar
		V0	FQ - Pout 20 - 200 bar
EE	Tipologia di fluido / Fluid type	11	H2 PED Classe III
		15	O2 PED CLASSE III
		94	FPM PED CLASSE III
		98	EPDM
F	Marchiato / Marked	I	ID
		Z	Dir ATEX 94/9 CE
GG	Accessori / Accessories	00	Nessun accessorio
		01	Pressostati
		02	Preriscaldatore 125W 230V AC 50 HZ integrati
		03	Con microregolatore di spurgo
		04	Scarico convogliato
		14	Microregolatore di spurgo + pressostati

CODE COMPOSITION EXAMPLE

QM# 1 2 J0 E0 98 I 00

QM#: Decompression unit

1: Chrome-plated brass

2: R1200

J0: Maximum inlet pressure 220 bar (3190 psi)

E0: Outlet pressure range 1,5 – 15 bar (21,8-218 psi)

98: EPDM Gaskets

I: Insert Deal

00: No accessories

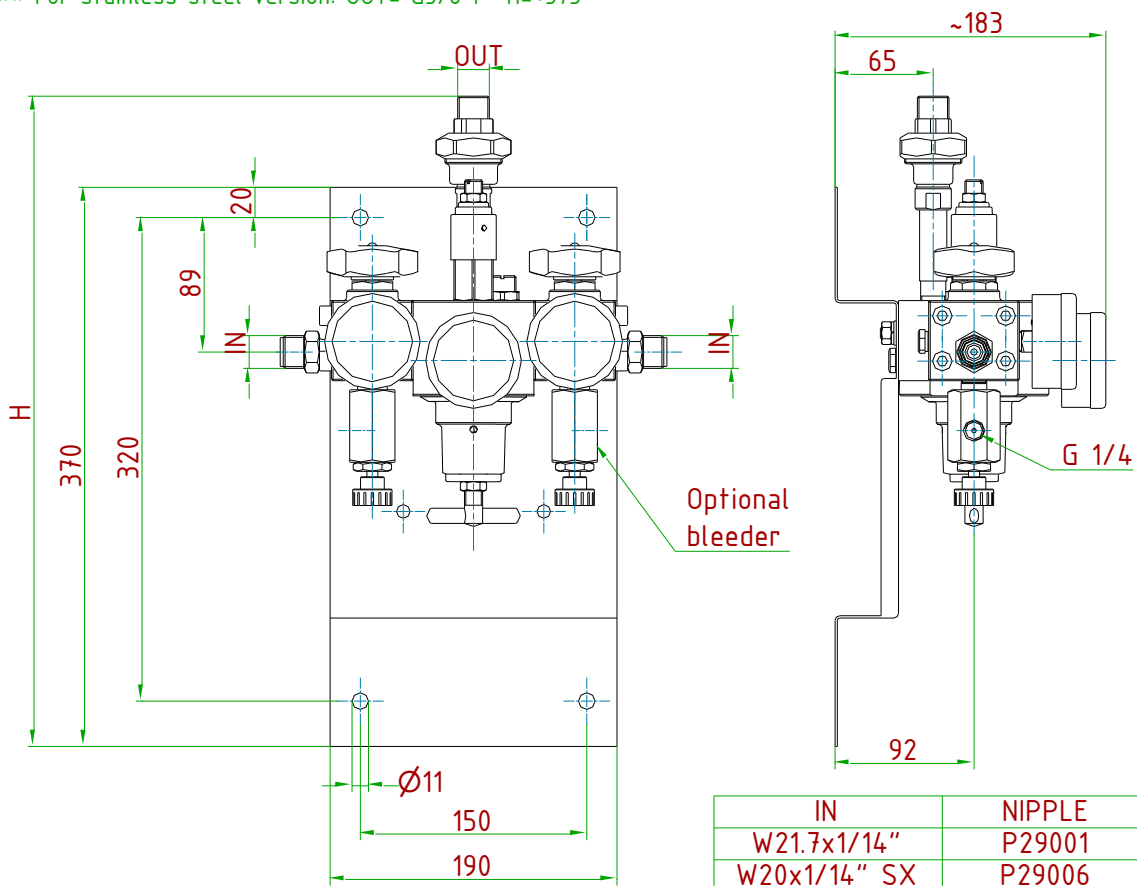
technical drawings (all dimensions in [mm])

INLET PRESSURE [bar]	INLET GAUGE RANGE [bar]
L 15	0÷25
M 80	0÷160
H 220	0÷315

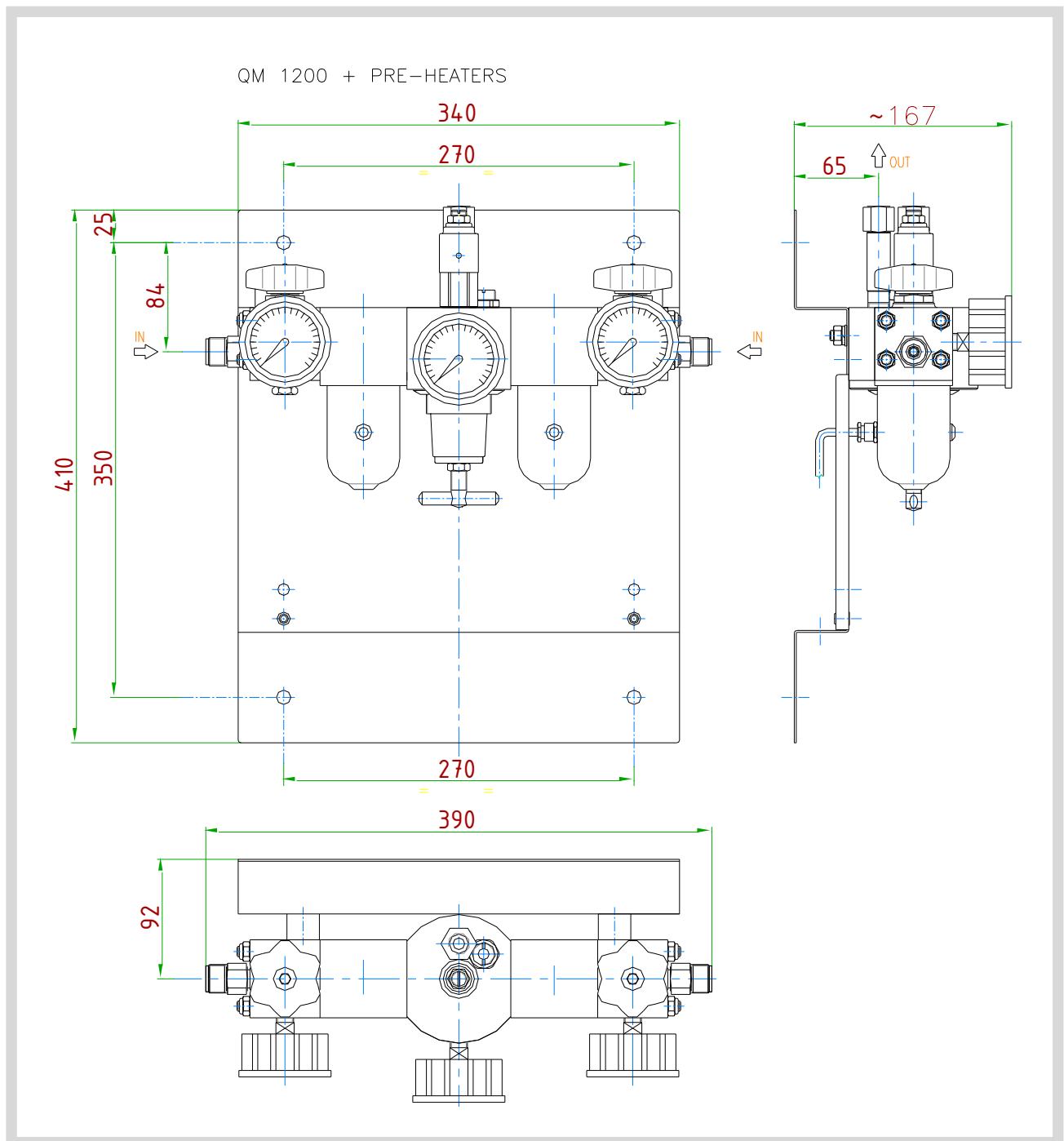
MODEL	OUTLET PRESSURE [bar]	OUTLET GAUGE RANGE [bar]	OUT**	H**
LAQ	0.2÷1.5*	0÷2.5	G1/2 M ROTATING	~430
AQ	0.8÷8	0÷16	G1/2 M ROTATING	~430
BQ	1.5÷15	0÷25	G1/2 M ROTATING	~430
CQ	3÷30	0÷60	G1/2 M ROTATING	~430
DQ	5÷50	0÷100	G1/2 M	~385
FQ	20÷200	0÷315	G1/2 M	~385

* For 15 bar inlet pressure only

** For stainless steel version: OUT= G3/8-F H=~373



technical drawings (all dimensions in [mm])



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DECOMPRESSIONE UNIT_QM(QM1200)_EN_00



Azienda con sistema di gestione qualità certificato.
certificato N° 50 100 9191
Company with certificated quality management system.
certificate N° 50 100 9191