

DIA CLASS 120

TECHNICAL DETAILS

120 l/h



The models from the DIA CLASS series represent the gold standard in laboratory analysis, especially where analyzers demand a guarantee of continued service. Thanks to sophisticated engineering technology combined with the top of the line components, the "Made in Italy" DIA line is paramount in the water treatment industry. As of 2016, approximately 2,000 units of this model of deionizer have been installed throughout Italy. This new DIA Class achieves a higher level of performance in terms of optimization of usage of disposables, warranty for continuous deionized water feeding, perfect adherence to CLRW standard requirements, and continually satisfying our customers most demanding needs and meeting their highest expectations for the past fifteen years. The automatic by-pass and remote/internet control of deionizers are among the features that make the DIA series the state of the art machines in all diagnostic laboratories.

WATER SUPPLY:



• TDS (verified chemical composition)	ppm:	800 max
• SDI (silt density index)		< 12
• LSI (langelier saturation index)		< 0.3
• Water hardness of CaCO ₃	ppm:	300
• Chlorine concentrations	ppm:	< 0.5
• Pressure	bar:	2-5
• Water flow rate	l/h:	450 @2bar (7.5 l/min @2bar)
• Pre-filter	type:	µQ

ELECTRICAL AND PHYSICAL DATA:



• Voltage supply	Volt AC:	230
• Grid frequency	Hz:	50
• Power consumption	KVA:	0.8
• Weight at delivery	Kg:	103
• Noise measured at 1 m	dB:	< 60

OUTPUT WATER according to CLSI-CLRW (Ex NCCLS Type I and II)



• Resistivity	MΩ.cm:	10
• Bacteria	CFU/ml:	< 10 *
• TOC (total organic carbon)	ppb:	< 500
• Nominal flow rate	l/min:	2-2.8 (120-170 l/h)
• Water pressure	bar:	0.9-3.0 adjustable

* Subject to correct operating and maintenance procedures

CONNECTIONS



• Input	type:	3/4" F GAS
• Output	type:	on demand
• Waste	type:	22 mm

WATER PRODUCED FROM REVERSE OSMOSIS (@15 °C, 800 ppm NaCl, pH 8,3 and SDI 5)



• Permeate flow	l/h:	120
• Salt rejection	%:	95
• Applied pressure	bar:	12 max



QUALITY INVENTS S.R.L.

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Authorised distributor:





SPECIFICATIONS

MODELS	DIA CLASS 35		DIA CLASS 45		DIA CLASS 70		DIA CLASS 120	
	Q-1020-08		Q-1020-07		Q-1020-06		Q-1020-05	
CHARACTERISTICS	Reverse osmosis		Reverse osmosis		Reverse osmosis		Reverse osmosis	
Deionizer type	Reverse osmosis		Reverse osmosis		Reverse osmosis		Reverse osmosis	
Production per hour (l/h)	35		45		70		120	
Estimated capacity of exchange (g of CaCO ₃)	500		500		500		500	
Number of pre-filters	1		1		2		2	
Mode of consumables replacement	Hot swap		Hot swap		Hot swap		Hot swap	
Length (mm)	540		540		540		540	
Width (mm)	600		600		600		600	
Height (mm)	1055		1055		1055		1055	

SUMMARY OF OPTIONALS, CONSUMABLES AND SUPPLIED COMPONENTS

MODELS	DIA CLASS 35		DIA CLASS 45		DIA CLASS 70		DIA CLASS 120	
	Q-1020-08		Q-1020-07		Q-1020-06		Q-1020-05	
COMPONENTS	C		C		C		C	
Pre-filter cartridges Q-1000-25	C		C		C		C	
Mixed-bed resins polishing unit IONtank Q-1000-10	C		C		C		C	
0,22 µm filtration for particles and colloids Q-1000-28	C		C		C		C	
0,02 µm vent filter Q-1000-48	C		C		C		C	
Degasser kit Q-1111-11	O		O		O		O	
Remote DIAnet Q-1110-98	S		S		S		S	
Remote DIALink Q-1110-60	O		O		O		O	
DIAnetwork kit (multi-DIA connections) Q-1000-98	O		O		O		O	
DIAPressure kit (pressurization pump) Q-1110-21	O		O		O		O	
UV lamp kit Q-1342-27	S		S		S		S	

*O - Optionals

*C - Consumables

*S - Supplied

QUALITY INVENTS TECHNOLOGY

- Maximum reliability and durability
- High quality water treatment
- Stable and noiseless
- Manufacturer guarantee
- High quality components
- Easy installation
- After-sales service
- Made in Italy