

# CRYSTAL EX PURE CRYSTAL EX DOUBLE FLOW CRYSTAL EX RO

Crystal EX RO and Pure systems produce pure (Grade 2) and RO water. Pure and RO water comply with the requirements of a variety of applications, including:

- many inorganic methods of analysis (e. g. flame AAS);
- wet chemistry methods;
- electrochemistry;
- labware washing, etc.

The water purification system Crystal Double Flow is specially designed for the laboratories and applications with high water consumption (30 L/day and more). The system includes a high capacity (8 L) deionization module, that provides a reduction of system running costs.



## DESCRIPTION

	Crystal EX RO	Crystal EX Pure	Crystal EX Double Flow
Water type	RO water	pure water (Grade 2)	pure water (Grade 2)
Application	<ul style="list-style-type: none"> <li>• wet chemistry methods</li> <li>• labware washing</li> <li>• steam sterilizers</li> <li>• polishers feed</li> </ul>	<ul style="list-style-type: none"> <li>• flame spectrophotometry</li> <li>• inorganic analytical methods</li> <li>• electrochemistry</li> <li>• buffer preparation</li> </ul>	<ul style="list-style-type: none"> <li>• flame spectrophotometry</li> <li>• inorganic analytical methods</li> <li>• electrochemistry</li> <li>• buffer preparation</li> </ul>
Display	Monochrome LCD display		
Conductivity sensor	•	•	•
TOC Monitor	-	-	-
Measurement validation port	-	-	-
Volumetric dispensing	-	-	-
Connection to Flow Point	-	-	-
Storage tank	required but not included		
Installation	installable on a laboratory bench		

## ORDERING INFORMATION

Model	Part number
Crystal EX RO	EX-1245
Crystal EX Pure	EX-1005
Crystal EX Double Flow	EX20-1002HC
Crystal EX Pure 4	EX-1004

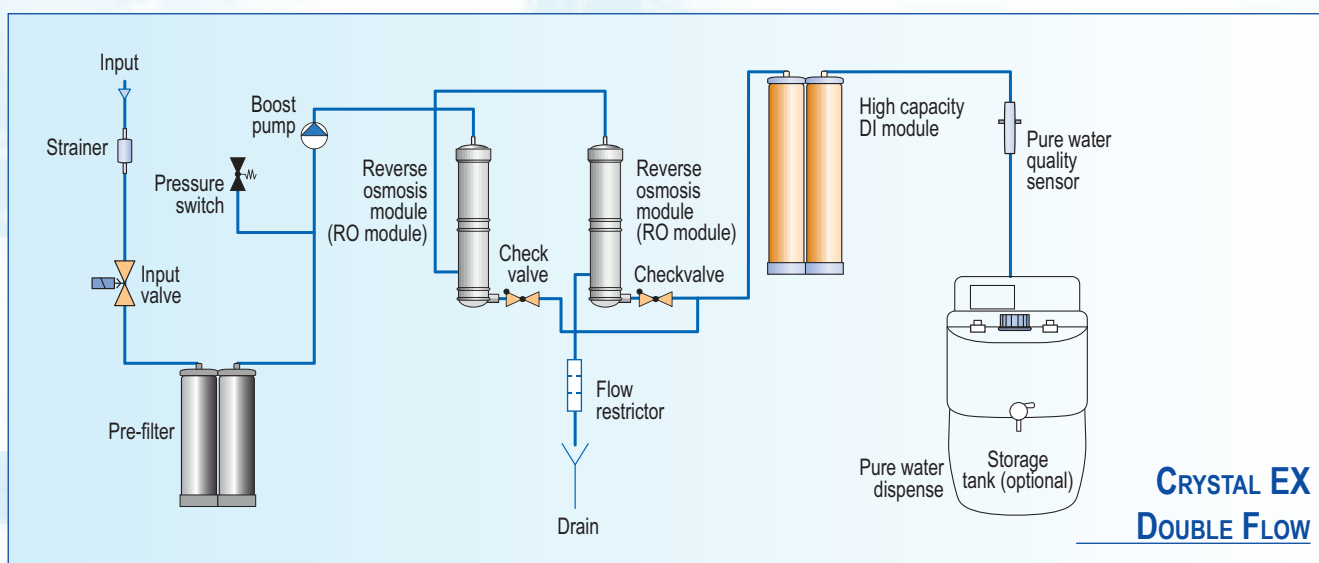
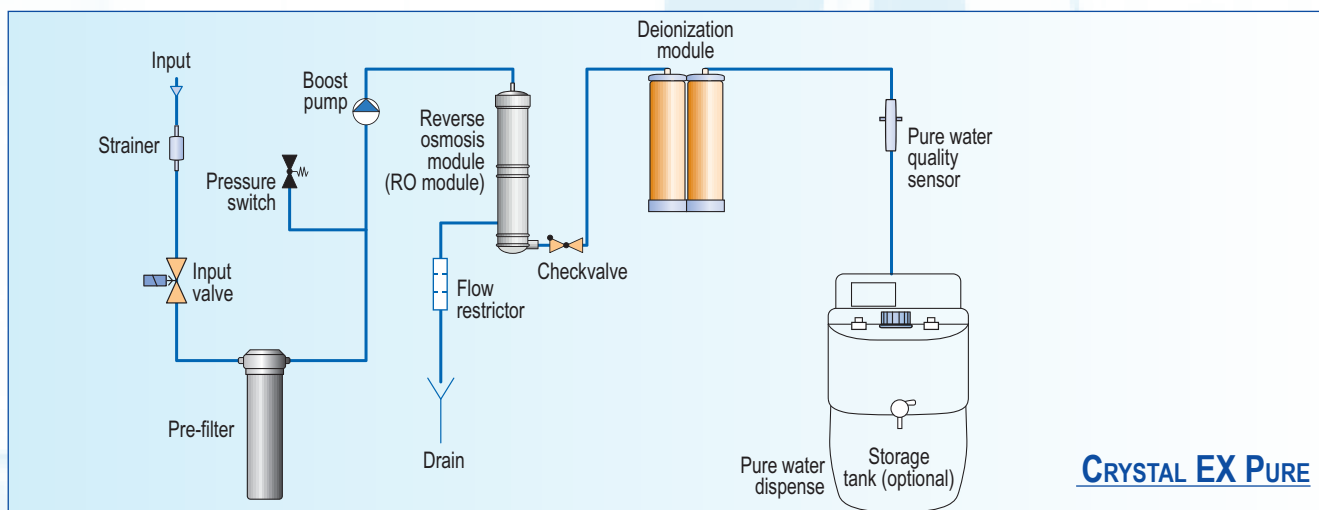
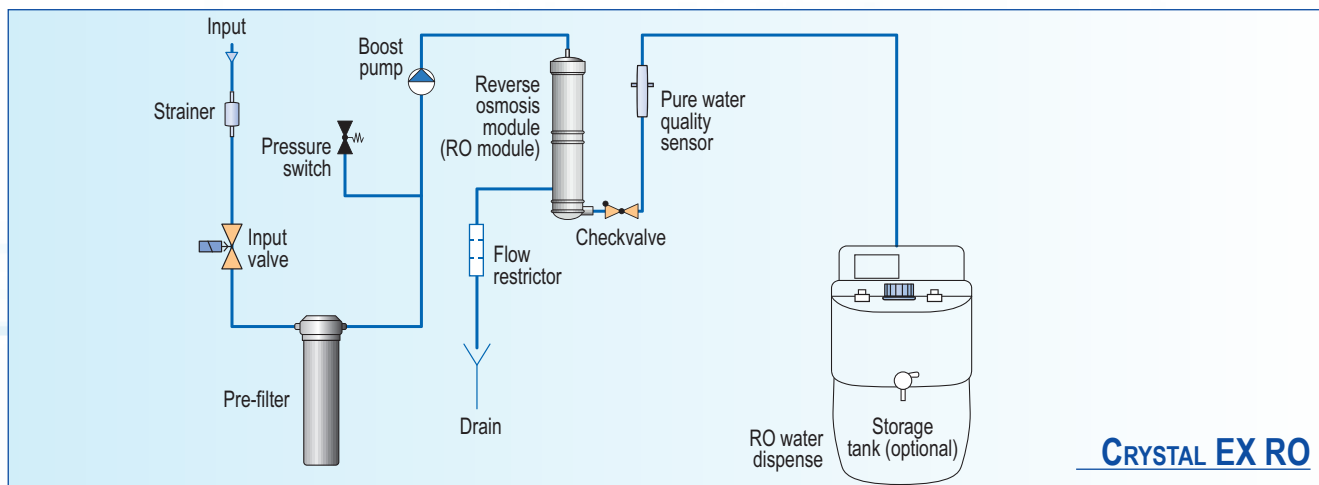
## SPECIFICATIONS

	Crystal EX RO	Crystal EX Pure	Crystal EX Double Flow
Purified water resistivity at 25 °C	-	>10 MΩ x cm	>10 MΩ x cm
Purified water conductivity at 25 °C	TDS rejection rate ≥97%	<0.1 µS/cm	<0.1 µS/cm
Particles >0.22 µm	<1 per mL	<1 per mL	<1 per mL
Nominal flow, pure water (to storage tank)	10 L/h	10 L/h	20 L/h
Dimensions (WxDxH), cm	40x35x55	40x35x55	40x50x55
System weight, kg	10	12	26
Operation weight, kg	13	16	39
Feed water pressure	0.4 – 4 bar	0.4 – 4 bar	0.4 – 4 bar
Feed water conductivity	< 1500 µS/cm	< 1500 µS/cm	< 1500 µS/cm

## CONSUMABLES

Part number	Description	Replacement criteria	Comments
10320	Replacement pre-filter	If the filters are clogged or every 6 months	“RO” and “Pure” systems only
10410	Replacement pre-filter module	If the filters are clogged or every 6 months	“EX Double Flow” system only
10310	Replacement deionization module	Grade 2 water conductivity is >0.5 µm/cm constantly or every 12 months	“Pure” systems only
10113	Replacement high-capacity deionization module	Grade 2 water conductivity is >0.5 µm/cm constantly or every 12 months	“EX Double Flow” only
10017	Replacement sterilization UV bulb	As required (on average every 2 years)	Only systems with 10103 option

## FLOW DIAGRAMS





## CRYSTAL STERIFEED

Sterifeed is a water purification system specially designed to produce feed water for autoclaves and laboratory washing machines.

Pressurized water storage tank provides consistent water supply to an autoclave. Many autoclaves need pressurized purified water supply. Some autoclaves have priming pumps for purified

water intake, but in case the water supply is not pressurized, an air gap may block the water flow. If the blockage occurs, the operation of autoclave is not possible until the air is removed from the system. Pressurized water storage tank of the "Sterifeed" system eliminates any possibility of air gap formation and ensures smooth operation of an autoclave.

### DESCRIPTION

Water type	RO water
Application	purified water for autoclaves
Display	monochrome LCD display
Conductivity sensor	•
TOC Monitor	-
Volumetric dispensing	-
Connection to Flow Point	-
Pressurized storage tank	required, not included
Installation	installable on a wall

### ORDERING INFORMATION

Model	Part number
Crystal Sterifeed	CS-1002

### SPECIFICATIONS

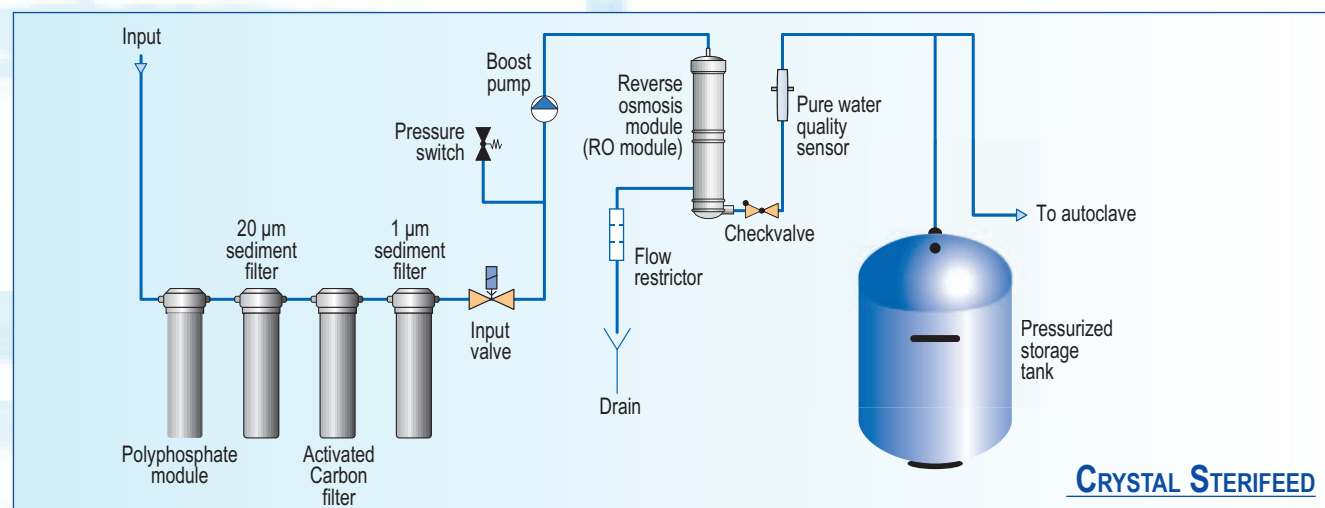
	Sterifeed
TDS rejection rate	≥97%
Particles >0.22 µm	<1 per mL
Nominal flow, pure water (to storage tank)	10 L/h
Deionization module life	N/A
Dimensions (WxDxH), cm	55x21x50
System weight, kg	11
Operation weight, kg	16
Pressurized storage tank*	60 L
Feed water pressure	0.4 – 4 bar
Feed water conductivity	<1500 µS/cm

\* Required but not included. Other capacities available.

### CONSUMABLES

Part number	Description	Replacement criteria	Comments
10016	Replacement pre-filter set, Sterifeed	If the filters are clogged or every 6 months	

### FLOW DIAGRAM



CRYSTAL STERIFEED