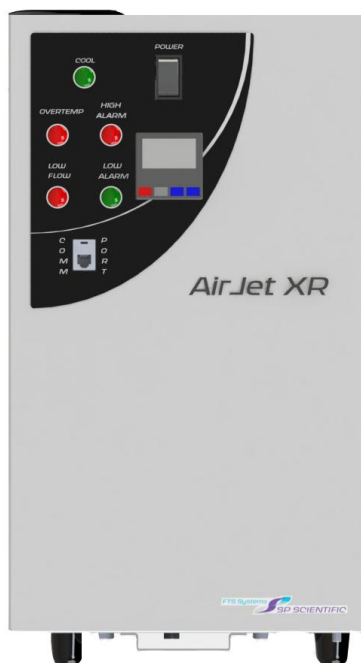


# FTS Systems AirJet™ XR

Sample Cooler and Accessories



## Key Features

- Mechanically refrigerated.
- Temperature range of -90 °C or -40 °C to 100 °C.
- Flow rates to 2 scfm (56 lpm)
- 8', 15', 20' or 35' delivery line lengths available.
- Multi-function temperature controller.
- Small footprint.

## Key Benefits

- Eliminates the need for expendable refrigerants.
- Satisfies a wide range of applications.
- Satisfies specific application requirements.
- Non-magnetic delivery line.
- Controller allows simple temperature control or computer control and data logging.
- Compact space saving design.

## Electrical Requirements

ITEM	XR40	XR9020	XR9021
60 Hz Option	120 V 5 A	120 V 7 A	120 V 9 A
50 Hz Option	220 V 3 A	220 V 4 A	220 V 5 A

## Agency Approvals

UL #61010-1, CAN/CSA 22.2 #61010-1 and CE listing pending.

## Technical Specifications

ITEM	XR40	XR9020	XR9021
Maximum Low Temperature (°C)	-40	-90	-90
Temperature Control	Yes	N/A	Yes
Temperature Control Range (°C)	-40 to 100	N/A	-90 to 100
Temperature Control Tolerance (°C)	± 0.5	N/A	± 0.5
Flow rate range (lpm / scfm)		7 to 56 / 0.25 to 2	
Computer Interface	RS485 / USB	None	RS485 / USB
Supplied dry air or dry gas dew point (°C)	< -60	< -100	< -100

**Note:** Performance specifications are based on SP Scientific test data from units using dry air with dew point of less than -100° and operating at an ambient room temperature of approximately 22 °C (72 °F). Higher ambient temperatures may interfere in the system's ability to achieve its ultimate low temperature.

## Temperature at Flow (°C)\*

	XR40	XR9020	XR9021
0.25 scfm (7 lpm)	-25	-75	-65
0.5 scfm (14 lpm)	-35	-85	-80
0.75 scfm (21 lpm)	-35	-90	-85
1.00 scfm (28 lpm)	-40	-90	-90
1.25 scfm (35 lpm)	N/A	-90	-90
1.50 scfm (42 lpm)	N/A	-90	-90
1.75 scfm (49 lpm)	N/A	-90	-90
2.00 scfm (56 lpm)	N/A	-90	-90

## Dimensional Data

ITEM	XR40	XR9020	XR9021
Width (in / cm)	10.5 / 27	10 / 25	10 / 25
Depth (in / cm)	20 / 51	20 / 51	20 / 51
Height (in / cm)	9.5 / 24	18.5 / 47	18.5 / 47
Weight (lb /kg)	40 / 18	80 / 36	82 / 37
Nozzle Housing (in/cm)	2 ½ / 6.35 diameter X 12 / 30.5 length		
Delivery Line Length† (ft/cm)	8 / 244, 15 / 457, 20 / 610, 35 / 1067		

# AirJet™ XR Cooler Accessories

## Air Dryer (Model Number AD80)

Supplied with 5 ft. (1.5 m) air line for direct connection to AirJet™.  
(Requires AF6 pressure and flow regulator)

Air Connection	1/4 inch (6 mm) male, quick disconnect
Air Requirements	XR401 – 70 psi, 1 SCFM (28 lpm) XR9020 and XR90201 – 100 psi, 2 SCFM (56 lpm)
Width (in / cm)	12 ½ / 32
Depth (in / cm)	7 / 18
Height (in / cm)	21 / 53
Weight (lb / kg)	30 / 14
Electrical	120V / 60HZ, 1 Aor 220V / 50 Hz, 1A

## Air Flow Regulator (Model Number AF6)

Regulates and monitors air flow and pressure through the AD80 air dryer.  
Air inlet and outlet quick connects are mounted on read of compact 6" X 6" X 8" cabinet for easy insertion into air flow system upstream of AD80.



XR9021 (control)



XR9020 (no control)



XR40 (control)

\* Performance parameters are based on SP Scientific test data from similar units operating at 120 V and 60 Hz in an area with an ambient temperature of 21 °C.  
† 35' (ft) limits ultimate low.