

FTS Systems AirJet™ XR

Sample Cooler and Accessories



XR902 with Probe

Features

- Mechanically refrigerated.
- Temperature control range of -90 to 100 °C.
- Flow rates to 2 scfm (56 lpm).
- 8', 15', 20' or 35' delivery line lengths available.
- Low flow safety buzzer.
- Includes USB adapter, 2m cable and software for plug and play operation.
- Multi-function temperature controller.

Benefits

- Eliminates the need for expendable refrigerants.
- Satisfies a wide range of applications.
- Satisfies specific application requirements.
- Non-magnetic delivery line.
- Alerts users when air flow to the unit is low.
- Permits complete control of the machine from a PC and allows for data logging.
- Provides accurate temperature control with temperature indication.

Agency Approvals

CE (2006/42/EC), (2006/95/EC), (006/108/EC)

Performance Specifications

	XR402	XR902
Maximum Low Temperature	-40 °C	-90 °C
Temperature Control	Standard	Optional
Temperature Control Range	-40 to 100 °C	-90 to 100 °C
Temperature Control Stability	± 0.5 °C	± 0.5 °C
Temperature Indication Display*	0.1 °C	0.1 °C
Flow Rate Range	0.25 to 2 scfm (7 to 56 lpm)	0.25 to 2 scfm (7 to 56 lpm)
Communication Interface (Control Only)	RS485/USB (with software)	RS485/USB (with software)

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).

Temperature at Flow†


	XR402	XR902 (Control)	XR902 (No Control)
0.25 scfm (7 lpm)	-30 to 100 °C	-65 to 100 °C	-75 °C
0.50 scfm (14 lpm)	-33 to 100 °C	-80 to 100 °C	-85 °C
0.75 scfm (21 lpm)	-37 to 100 °C	-85 to 100 °C	-90 °C
1.00 scfm (28 lpm)	-40 to 100 °C	-90 to 100 °C	-90 °C
1.25 scfm (35 lpm)	-40 to 100 °C	-90 to 100 °C	-90 °C
1.50 scfm (42 lpm)	-40 to 100 °C	-90 to 100 °C	-90 °C
1.75 scfm (49 lpm)	-40 to 100 °C	-90 to 75 °C	-90 °C
2.00 scfm (56 lpm)	-40 to 75 °C	-90 to 50 °C	-90 °C

Air Requirements

	XR402	XR902
Flow	56 lpm (2 scfm)	56 lpm (2 scfm)
Minimum Pressure	45 psi	45 psi
Dew Point	< -60 °C	< -100 °C

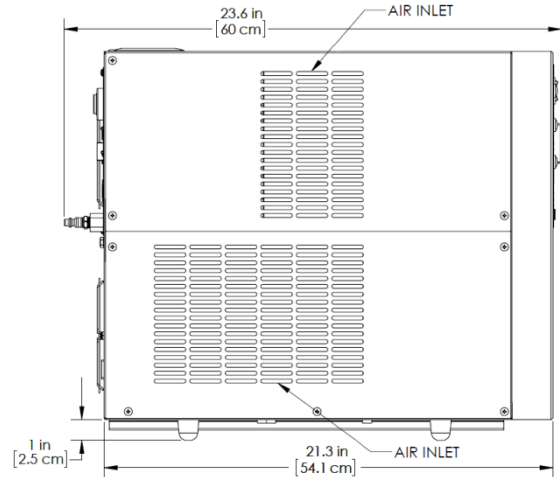
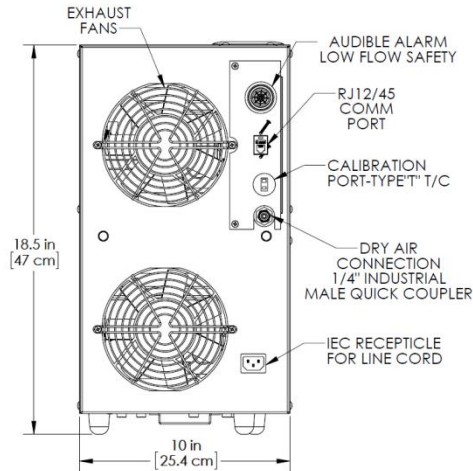
Electrical Requirements

	XR402	XR902 (Control)	XR902 (No Control)
60 Hz Option	120 V, 5 A [‡]	120 V, 12 A [‡]	120 V, 11 A [‡]
50 Hz Option	220 V, 2 A [‡]	220 V, 5 A [‡]	220 V, 4 A [‡]

Note: All equipment configured with the 60 Hz option is supplied with a 5-15P NEMA configuration (i.e., ). All equipment configured with the 50 Hz option is supplied with a non-terminated AWG 18-3 power cord.

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Optional Accessories

Air Dryer (AD80)

Air Connection

1/4 inch (6 mm) male, quick disconnect.

Air Line

5 ft. (1.5 m) air line for direct connection to AirJet™ XR.

Air Requirements

Flow: 2 SCFM (56 LPM) • Pressure: 70 psi / 100 psi (XR402 / XR902)

Electrical Requirement

60 Hz Option: 120 V, 1 A • 50 Hz Option: 220 V, 1 A

Dimension Data

Width: 12.5 in (31.8 cm) • Depth: 7 in (17.8 cm) • Height: 21 in (53.3 cm)
Weight: 30 lbs (14 kg)

Note: The AD80 air dryer requires the AF6 for operation.

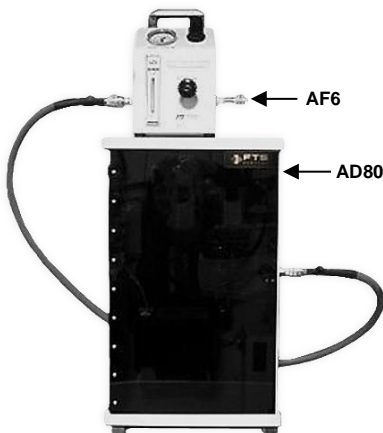
Air Flow Regulator (AF6)

Description

Regulates and monitors air flow and pressure through the AD80 air dryer.

Air Inlet and Outlet Quick Connects

Mounted on read of compact 6" x 6" x 8" cabinet for easy insertion into air flow system upstream of AD80.



Dimensional Data

	XR402	XR902
Width	10.5 in (26.7 cm)	10 in (25.4 cm)
Depth	16.5 in (41.9 cm)	21.3 in (54.2 cm)
Height	9.3 in (23.6 cm)	18.5 in (47.9 cm)
Weight	50 lbs (23 kg)	70 lbs (32 kg)
Delivery Line Length [†]	8 ft, 15 ft, 20 ft, 35 ft	8 ft, 15 ft, 20 ft, 35 ft
Nozzle Housing (diameter x length)	2.5 x 12 in (6.35 x 30.5 cm)	2.5 x 12 in (6.35 x 30.5 cm)
Nozzle Tip (diameter x length)	.312 x 1 in (.8 x 2.54 cm)	.312 x 1 in (.8 x 2.54 cm)

Communication Kit, Solo Controller

A communication kit "p/n COMMKIT" comes standard with the AirJet™ XR. The kit includes a USB adapter, a two (2) meter cable and software. A PC with the Windows® 98, Windows® NT, Windows® XP, 32-bit Windows Vista®, or 32-bit Windows® 7 operating system is required for bridge and driver installation. The communication kit will not work with a 64-bit Windows® operating system.



Software



USB Adapter



2 meter cable

Communication Kit Features

- Permits complete control of the AirJet™ from a PC.
- Allows for plug and play operation.
- Allows for data logging.
- Includes a 64 segment ramp soak program.

Note: Dimensional drawings shown for XR902 only.

* Temperature Indication Display is only available on units with temperature 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.

[‡] This is the actual, maximum continuous amperage drawn by the equipment.

[§] The AirJet™ requires dry air or dry gas.

[¶] 35 ft delivery line limits ultimate low.