

Models 9922-05, 9933-05, 4433-05 and 9900-05

The 99XX-05 Models are the smallest Disposable Filter Units with 11.7 ml internal volume. These models are used in low flow gas or liquid sampling applications, such as liquids to specific-ion analyzers or gases to personal samplers. The Model 4433-05 has 1/4" and 3/8" barb connections molded into the inlet/outlet ports. The 9900-05 is available with a color indicator that turns red when saturated with oil.

Models 9922-11 and 9933-11

Models 9922-11 and 9933-11 are used for applications similar to the smaller DFUs (Models 9922-05 and 9933-05) which require greater solids holding capacity and can tolerate the increased retention time.

Model 8833-11

These Disposable Filter Units are used as continuous coalescing filters with a third port serving as the drain, slip-stream, or by-pass port.



Model 99XX-05

Model 9922-05

Model 8833-11

Retention Efficiency

Model	Efficiency for 0.01 Micron Particles and Droplets
DX	93%
BX, BK	99.99%

Flow Rates

Air Flow at 2 psi drop, standard cu. ft. per CFM (at indicated line pressure)

Filter Housing Type	Volume of Housing (CU. FT.)	Filter Tube Grade	Flow Rate (CFM) At 10" Water Press. Drop., 0 PSIG	Flow Rate (CFM) At Indicated Line Pressure						
				2 psig	20 psig	40 psig	60 psig	80 psig	100 psig	125 psig
9900-05	0.0004	DQ	0.2	1.2	2.5	3.9	5.4	6.8	8.3	10.1
9922-05		BQ/BK	0.1	0.8	1.6	2.6	3.5	4.5	5.4	6.6
9933-05										
4433-05										
8822-11	0.0007	DX	0.4	1.8	3.6	6	8	10	12	14.6
8833-11		BX	0.2	0.9	1.8	3	4	5	6	7.3
9922-11										

Installation Information

Compression fittings for 1/4" O.D. tubing may be obtained from the following manufacturers: Hoke, Inc. (Gyrolock); Crawford Fitting Co. (Swagelok); Parker-Hannifin Corp. (CPI); Legris, Inc. (push-on fittings); Jaco Mfg. Co. (plastic fittings).

The following brass fittings seal by O-ring compression and may be completely recovered and reused when changing filters. They may be purchased from Parker Hannifin Corp.

- Connector 1/4" tubing to 1/4" NPT, female - P/N 1197
- Connector 1/4" tubing to 1/4" tubing - P/N 11971
- Elbow 1/4" tubing to 1/8" NPT female (for manual drain on Type 8833-11) - P/N 11972

For connections to low pressure plastic tubing

Tubing with 1/4" ID may be slipped over the DFU end fittings and held with tubing clamps. Parker Hannifin Corp. supplies plastic barbs to connect the DFU to smaller diameter plastic tubing. The connection is suitable for pressures to 50 psig.

DFU to 1/16" ID tubing P/N 14000 (bag of 20 barbs)

DFU to 1/8" ID tubing P/N 14001 (bag of 20 barbs)

Parker Hannifin Corp. also offers a manual drain valve for removal of coalesced liquids from the Type 8833-11-DX

Drain Valve 1/8" NPT (male) x 1/8" ID tubing (requires elbow part 11972) P/N 20125

Principal Specifications

Model	9922-05	9900-05	9933-05	4433-05	9922-11	9933-11	88
Inlet and Outlet Ports	1/4" Tubing	1/4" Tubing	1/4" Tubing	1/4" Tubing 2nd Tier/Barb 3/8" Tube	1/4" Tubing	1/4" Tubing	
Drain	None	None	None	None	None	None	1/4" Tubing
Material of Construction	PVDF	Nylon	Nylon	Nylon	PVDF	Nylon	Nylon
Filter Cartridge Length	1.25" (3.2 cm)	1.25" (3.2 cm)	1.25" (3.2 cm)	1.25" (3.2 cm)	2.25" (5.7 cm)	2.25" (5.7 cm)	2 1/4"
Maximum Temperature (1)	275°F (135°C)	230°F (110°C)	230°F (110°C)	230°F (110°C)	230°F (110°C)	230°F (110°C)	230°F (110°C)
Maximum Pressure (2)	125 psig	125 psig	125 psig	125 psig	125 psig	125 psig	125 psig
Dimensions	1.0"D X 3.25"L (2.5 cm X 6 cm)	1.0"D X 3.25"L X 4.6"L (2.5 cm X 6 cm)	1.0"D X 3.25"L X 4.6"L (2.5 cm X 6 cm)	1.0"D X 3.43"L X 4.6"L (2.5 cm X 7.0 cm)	1.4"D X 4.6"L (9.1 cm X 12 cm)	1.4"D X 4.6"L (9.1 cm X 12 cm)	

Ordering Information

For assistance, call toll-free at 1-800-343-4048 8AM to 5PM Eastern Time

Model	9922-05	9900-05	4433-05	9933-05	9922-11	9933-11	8833
Filter Cartridges	9922-05- Box of 10	9900-05-	4433-05-	9933-05-	9922-11-	9933-11-q	8833-11-q
Available in types Q and X (3)							

Notes: At 0 psig

1

2 At 110°F (43°C)

3 To designate the grade of filter tube in the DFU, insert Grade letters after DFU designation. For example, to obtain a grade BQ filter tube in a DFU 9922-05, order: 9922-05-BQ. Please note the following limitations:

DFU	Supplied With These Grades
4433-05, 9900-05, 9922-05, 9933-05 9922-11, 9933-11 8822-11, 8833-11	DQ, BQ, AQ (BK) (DX, BX, AQ DX, BX

4 The BK Grade filter has a color indicating feature, which turns the cartridge red when saturated with oil.