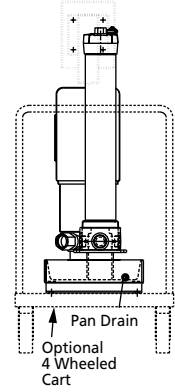
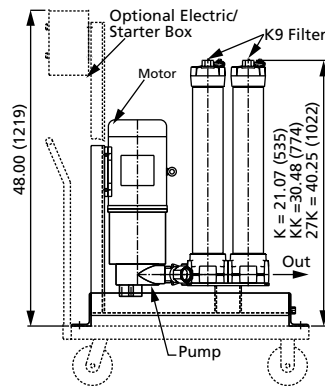
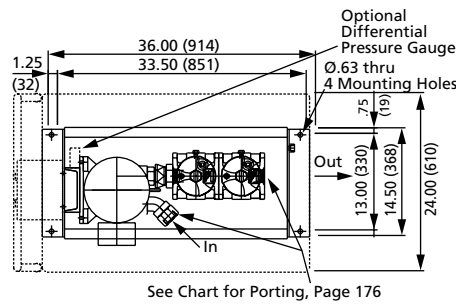


X Series Filter Skids



Dual K9 Filter Version (Series X4, X5 and X6)

Metric dimensions in ().

Description

Schroeder's new X Series filtration skids are compact, self-contained filtration systems equipped with high efficiency, high capacity elements capable of removing particulate contamination and/or water quickly and economically. They supplement in-line filters whenever the existing filtration is incapable of obtaining the desired ISO cleanliness level.

It is not uncommon for viscosity to be overlooked when specifying an off-line filtration unit. The results of this oversight can severely affect system efficiency and longevity, and render the filtration system useless when high viscosity fluid causes the filter to be in constant bypass. Schroeder considers maximum fluid viscosity, (at the minimum operating temperature) in conjunction with flow to properly size the pump and motor.

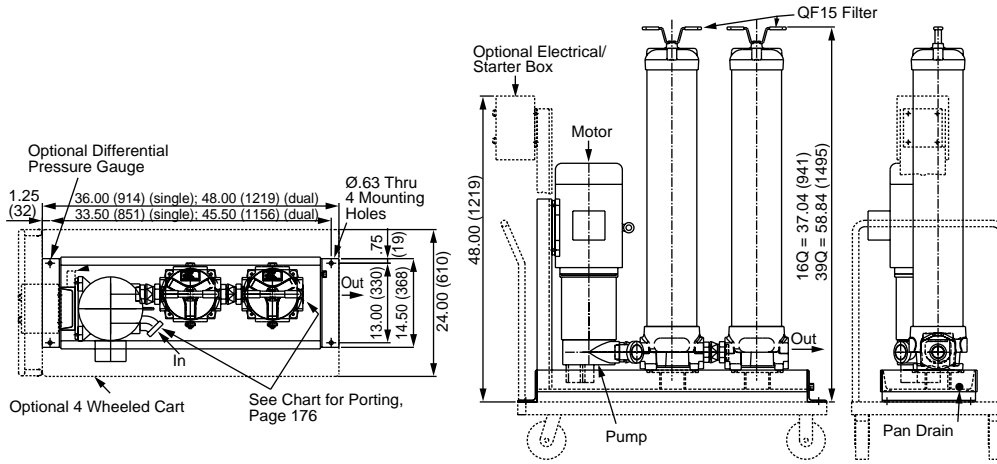
Standard X Series skids include a hydraulic pump, electric motor, and either a single or dual K9 or QF15 housing. Many different component combinations provide the flexibility to match specific system viscosity, flow, and cleanliness requirements. Multiple housing lengths give the option of adding additional dirt holding capacity.

Model Number Selection

Skid Series	Flow (GPM)	Filter Designation						Element Media 1st Filter ¹⁻⁴	Element Media 2nd Filter ¹⁻⁴	Seal Material
		K9 Filter			QF15 Filter					
		1K	2K	3K	16Q	39Q				
X1	09	1K	2K	3K			A = Z1 (K or Q) B = Z3 (K or Q) C = Z5 (K or Q) D = Z10 (K or Q) E = Z25 (K or Q) F = QCLQFZ1 G = QCLQFZ3 H = QCLQFZ5 J = QCLQFZ10 L = QCLQFZ25 M = QPMLZ1 P = QPMLZ3 R = QPMLZ5 S = QPMLZ10 T = QPMLZ25 W = W	N = NA A = Z1 (K or Q) B = Z3 (K or Q) C = Z5 (K or Q) D = Z10 (K or Q) E = Z25 (K or Q) F = QCLQFZ1 G = QCLQFZ3 H = QCLQFZ5 J = QCLQFZ10 L = QCLQFZ25 M = QPMLZ1 P = QPMLZ3 R = QPMLZ5 S = QPMLZ10 T = QPMLZ25 W = W	B = Buna (Standard) H = EPR V = Viton	
	17	1K	2K	3K	1Q					
	37	1K	2K	3K	1Q	3Q				
	82			3K	1Q	3Q				
X2 ¹	09	1K	2K	3K			F = QCLQFZ1 G = QCLQFZ3 H = QCLQFZ5 J = QCLQFZ10 L = QCLQFZ25 M = QPMLZ1 P = QPMLZ3 R = QPMLZ5 S = QPMLZ10 T = QPMLZ25 W = W	N = NA A = Z1 (K or Q) B = Z3 (K or Q) C = Z5 (K or Q) D = Z10 (K or Q) E = Z25 (K or Q) F = QCLQFZ1 G = QCLQFZ3 H = QCLQFZ5 J = QCLQFZ10 L = QCLQFZ25 M = QPMLZ1 P = QPMLZ3 R = QPMLZ5 S = QPMLZ10 T = QPMLZ25 W = W	B = Buna (Standard) H = EPR V = Viton	
	17		2K	3K	1Q					
	37			3K		3Q				
	82					3Q				
X3 ²	09	1K	2K	3K	1Q	3Q	F = QCLQFZ1 G = QCLQFZ3 H = QCLQFZ5 J = QCLQFZ10 L = QCLQFZ25 M = QPMLZ1 P = QPMLZ3 R = QPMLZ5 S = QPMLZ10 T = QPMLZ25 W = W	N = NA A = Z1 (K or Q) B = Z3 (K or Q) C = Z5 (K or Q) D = Z10 (K or Q) E = Z25 (K or Q) F = QCLQFZ1 G = QCLQFZ3 H = QCLQFZ5 J = QCLQFZ10 L = QCLQFZ25 M = QPMLZ1 P = QPMLZ3 R = QPMLZ5 S = QPMLZ10 T = QPMLZ25 W = W	B = Buna (Standard) H = EPR V = Viton	
	17		2K	3K	1Q	3Q				
	37			3K		3Q				
	82					3Q				
X4	09	1K	2K	3K			F = QCLQFZ1 G = QCLQFZ3 H = QCLQFZ5 J = QCLQFZ10 L = QCLQFZ25 M = QPMLZ1 P = QPMLZ3 R = QPMLZ5 S = QPMLZ10 T = QPMLZ25 W = W	N = NA A = Z1 (K or Q) B = Z3 (K or Q) C = Z5 (K or Q) D = Z10 (K or Q) E = Z25 (K or Q) F = QCLQFZ1 G = QCLQFZ3 H = QCLQFZ5 J = QCLQFZ10 L = QCLQFZ25 M = QPMLZ1 P = QPMLZ3 R = QPMLZ5 S = QPMLZ10 T = QPMLZ25 W = W	B = Buna (Standard) H = EPR V = Viton	
	17	1K	2K	3K	1Q					
	37	1K	2K	3K	1Q	3Q				
	82			3K	1Q	3Q				
X5 ¹	09	1K	2K	3K			F = QCLQFZ1 G = QCLQFZ3 H = QCLQFZ5 J = QCLQFZ10 L = QCLQFZ25 M = QPMLZ1 P = QPMLZ3 R = QPMLZ5 S = QPMLZ10 T = QPMLZ25 W = W	N = NA A = Z1 (K or Q) B = Z3 (K or Q) C = Z5 (K or Q) D = Z10 (K or Q) E = Z25 (K or Q) F = QCLQFZ1 G = QCLQFZ3 H = QCLQFZ5 J = QCLQFZ10 L = QCLQFZ25 M = QPMLZ1 P = QPMLZ3 R = QPMLZ5 S = QPMLZ10 T = QPMLZ25 W = W	B = Buna (Standard) H = EPR V = Viton	
	17		2K	3K	1Q					
	37			3K		3Q				
	82					3Q				
X6 ²	09	1K	2K	3K	1Q	3Q	F = QCLQFZ1 G = QCLQFZ3 H = QCLQFZ5 J = QCLQFZ10 L = QCLQFZ25 M = QPMLZ1 P = QPMLZ3 R = QPMLZ5 S = QPMLZ10 T = QPMLZ25 W = W	N = NA A = Z1 (K or Q) B = Z3 (K or Q) C = Z5 (K or Q) D = Z10 (K or Q) E = Z25 (K or Q) F = QCLQFZ1 G = QCLQFZ3 H = QCLQFZ5 J = QCLQFZ10 L = QCLQFZ25 M = QPMLZ1 P = QPMLZ3 R = QPMLZ5 S = QPMLZ10 T = QPMLZ25 W = W	B = Buna (Standard) H = EPR V = Viton	
	17		2K	3K	1Q	3Q				
	37			3K		3Q				

1. Z1 media not offered for use in 500 to 2000 SUS filtration skids. Contact factory for specific applications.
 2. Z1 and Z3 media not offered for use in 2000 to 5000 SUS filtration skids. Contact factory for specific applications.
 3. All elements are singular construction (no stacked elements)
 4. QPML and QCLZ coreless elements only available in the QF15 housing.

X Series Filter Skids



Dual QF15 Filter Version (Series X4, X5 and X6)

Mobile Filtration Systems

Air-Operated Mobile Filtration Systems

Kidney Loop System

Air-Operated Kidney Loop System

Auto Flush Filter Cart

Filtration Station

X Series Filter Skids

Series	Viscosity Range	Filter Housing(s)	Maximum Flow
X1	150 - 500 SUS	(1) QF15 or K9	82 gpm (310 L/min)
X2	500 - 2000 SUS	(1) QF15 or K9	82 gpm (310 L/min)
X3	2000 - 5000 SUS	(1) QF15 or K9	37 gpm (140 L/min)
X4	150 - 500 SUS	(2) QF15 or K9 in series	82 gpm (310 L/min)
X5	500 - 2000 SUS	(2) QF15 or K9 in series	82 gpm (310 L/min)
X6	2000 - 5000 SUS	(2) QF15 or K9 in series	37 gpm (140 L/min)

Skid Selection

Power	Motor Frame	Starter Control Options ^{5,6}	Dirt Alarm ⁸	Vacuum Gauge	Miscellaneous Options
A = 115 VAC ⁸ 1 hp (Available only with 109, 209, and 309)	N = TEFC	N = None A = 230 VAC B = 460 VAC	N = Cartridge in Cap (Standard) G = Differential Pressure Gauge	N = None V = Vacuum Gauge	N = None S = Suction Strainer C = 4 Wheeled Cart
N = 230/460 VAC 3 PH.	W = Washdown (NEMA Design B)	C = 230 VAC (with VFD) D = 460 VAC (with VFD)	M = MS10AC Electric Cartridge C = Differential Pressure Gauge with Electric Switch		B = Continuous Bleed ⁷

Model Number Selection (continued)

- Motor starter control option - C-series, non-disconnect shut-off, "motor on" light, electrical indicator "change element" light, and type 4x wash down enclosure.
- VFD control option - same as above but with enclosed variable frequency drive control and larger metal NEMA enclosure.
- Continuous bleed option - to eliminate filter air buildup in continuously aerated systems. Includes cap vent port, valve, and return line.
- 115 VAC power option includes switch, 10' cord, and plug. For 1.5 hp motors only.

X Series Filter Skids

Specifications

Flow Rating:	Up to 82 gpm (310 L/min)
Temp. Range:	-20°F to 225°F (-29°C to 107°C)
Bypass Valve Setting:	50 psi (3.5 bar) for skid series X1, X2, X3, X4, and X5 40 psi (2.8 bar) for skid series X6
Fluid Viscosity:	Up to 5000 SUS (see Skid Selection; previous page)
Compatibility:	All petroleum based hydraulic fluids. Contact Schroeder for use with other fluids, including ester and skydrol
Motor:	Continuous duty gear pump with integral 150 psi relief. Horsepower dependent on skid sensors and flow. Refer to table below.
Porting:	Dependent on flow. Refer to table below.

Motor Data

Skid Series	Flow (gpm)	Motor (hp)	Skid Series	Flow (gpm)	Motor (hp)
X1	09	1.5	X4	09	2
	17	3		17	3
	37	5		37	5
	82	10		82	10
X2	09	1.5	X5	09	2
	17	3		17	5
	37	5		37	10
	82	10		82	15
X3	09	1.5	X6	09	2
	17	5		17	5
	37	10		37	10

Flow (gpm)	Inlet Port Sizes	Outlet Port Sizes with K9 & MK9 Filters	Outlet Port Sizes with QF15 Filters
09	1.625-12UN-2B SAE O-Ring Boss	1.312-12UN-2B SAE O-Ring Boss	1.625-12UN-2B SAE O-Ring Boss
17	1.875-12UN-2B SAE O-Ring Boss	1.625-12UN-2B SAE O-Ring Boss	1.625-12UN-2B SAE O-Ring Boss
37	2.00 NPTF	1.875-12UN-2B SAE O-Ring Boss	1.875-12UN-2B SAE O-Ring Boss
82	2.00 NPTF	1.875-12UN-2B SAE O-Ring Boss	2.500-12UN-2B SAE O-Ring Boss

Weight Data

Skid Series	Flow (gpm)	Weight (lb.)*	Skid Series	Flow (gpm)	Weight (lb.)*
X1	09	238-357	X4	09	372-442
	17	300-504		17	353-662
	37	329-577		37	398-791
	82	476-705		82	551-904
X2	09	238-357	X5	09	301-442
	17	311-504		17	396-684
	37	348-577		37	497-849
	82	597-705		82	947-1054
X3	09	238-479	X6	09	267-650
	17	340-580		17	370-659
	37	461-566		37	502-607

*Weight dependent on options chosen.

Features

- Protects and extends the life of expensive components
- Minimizes downtime and maintenance costs
- Designed to handle high viscosity oils up to 5,000 SUS (see Skid Selection; previous page)
- Many component combinations and variable starter options allow the flexibility to match specific user needs
- Four wheel cart option provides product portability
- Integral drip pan with drain plug
- Sample valves provided at filter base for fluid sampling
- Market leading Schroeder Excellement® synthetic filtering media provides for quick, efficient clean up with maximum element life
- Availability of all plastic, environmentally friendly, coreless elements for QF15 housings