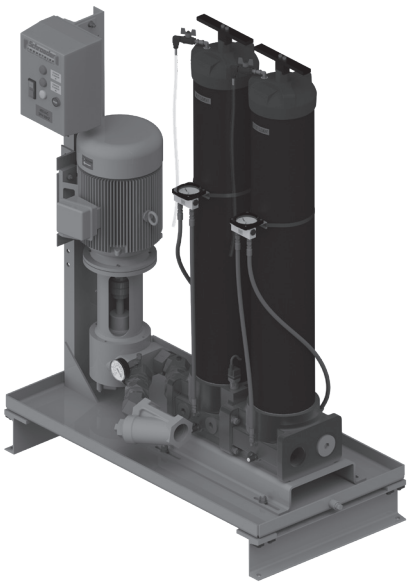
X Series X Series Filter Skids



Features and Benefits

- Clean fluid to protect and extend the life of expensive components
- Minimizes downtime and maintenance costs
- Designed to handle high viscosity oils up to 25,000 SUS (see Skid Selection; next 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 protects oil from spilling on the ground
- 1620 Testpoints provided at filter base for fluid sampling
- Market leading Schroeder Excellement® synthetic filtering media provides for quick, efficient clean up with maximum element life

Part of the Schroeder Industries 2030 Initiative

Description

Schroeder's 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.

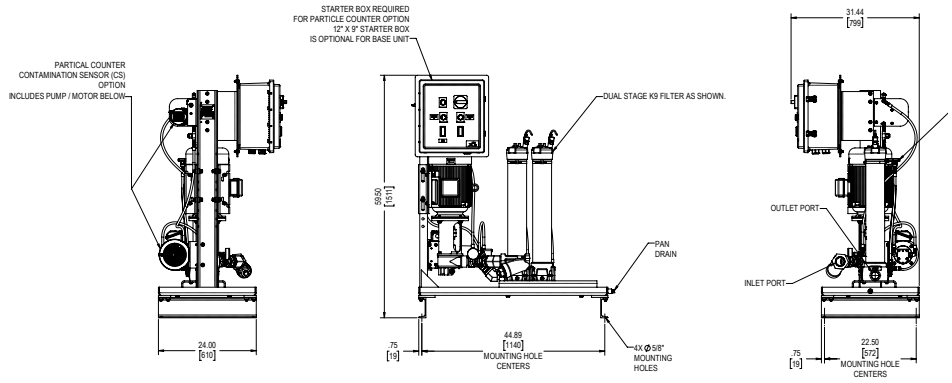
Standard X Series skids (X2, X3 and X7) include a hydraulic pump, electric motor, and a QF5 housing. Standard X Series Skids (X5, X6 and X8) include a hydraulic pump, electric motor, and dual K9 or QF5 housings. Many different component combinations provide the flexibility to match specific system viscosity, flow, and cleanliness requirements.

Schroeder's high viscosity X Series skids (X7 and X8) are designed to handle fluids that have a viscosity as high as 25,000 SUS. The skids have 39" long QF5 filters to efficiently clean the viscous fluids. The filters have a high dirt-holding capacity, capable of holding almost 1000 grams of dirt depending on the element. X7 and X8 skids include a pump, motor, QF5 filter, suction strainer, and dirt indicator. Various options can account for specific user needs.

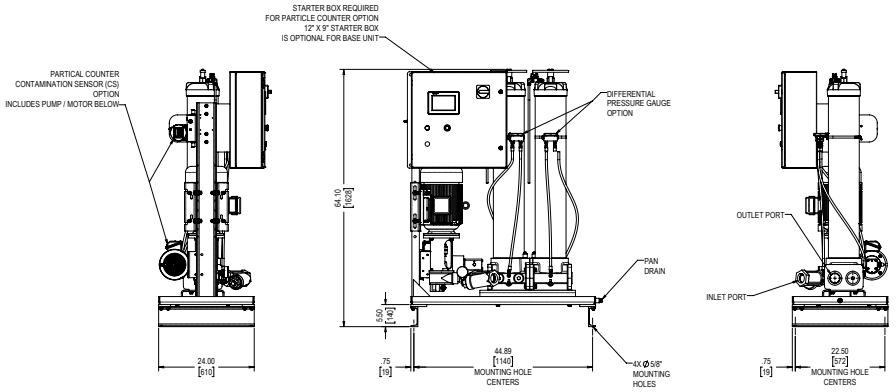
Skid Selection

Series	Viscosity Range	Filter Housing(s)	Maximum Flow
X2	100 - 2000 SUS	(1) QF5	82 gpm (310 L/min)
X3	100 - 5000 SUS	(1) QF5	37 gpm (140 L/min)
X5	100 - 2000 SUS	(2) QF5 or K9 in series	82 gpm (310 L/min)
X6	100 - 5000 SUS	(2) QF5 or K9 in series	37 gpm (140 L/min)
X7	100 - 25,000 SUS	(1) QF5	6 gpm (23 L/min)
X8	100 - 25,000 SUS	(2) QF5 in parallel	30 gpm (114 L/min)

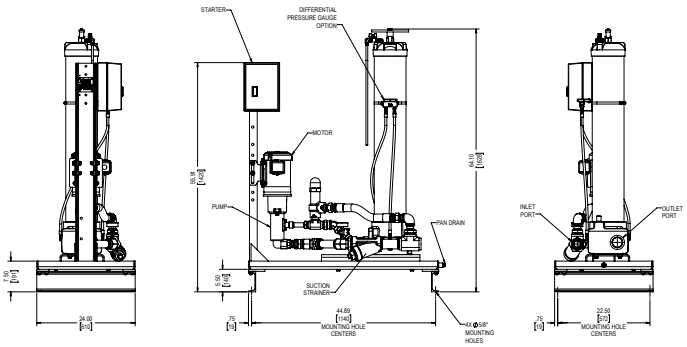
Dual K9 Filter Version (Series X5 & X6)



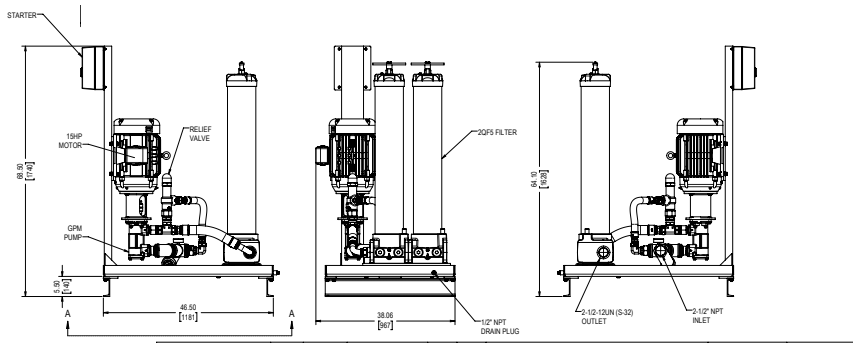
Dual QF5 Filter Version (Series X5 & X6)



Single QF5 Filter Version (X7); For High Viscosity (up to 25,000 SUS)



Dual QF5 Filter Version (X8); For High Viscosity (up to 25,000 SUS)



Metric dimensions in ( ).

X Series Filter Skids

Schroeder SMART TECHNOLOGY INSIDE

Specifications

Flow Rating:	Up to 82 gpm (310 L/min)
Temp. Range:	0°F to 180°F (-17°C to 82°C)
Bypass Valve Setting:	50 psi (3.5 bar) for skid series X2, X3, X5, X7, and X8 40 psi (2.8 bar) for skid series X6
Fluid Viscosity:	Up to 25,000 SUS (see Skid Selection; previous page)
Compatibility:	All petroleum based hydraulic fluids. Contact Schroeder for use with other fluids, including ester and skydrol.
Pump:	**X2-X6:** Continuous duty gear pump with integral 150 psi relief. Flow dependent on skid series and motor. Refer to table below. **X7-X8:** Positive displacement rotary screw pumps
Motor:	Horsepower dependent on skid series and flow. Refer to table below.
Porting:	Dependent on flow. Refer to table below.

Pump and Motor Data

Skid Series	Flow (gpm)	Motor (hp)	Skid Series	Flow (gpm)	Motor (hp)
X2	17 37 60 82	3 5 10 10	X6	17 37	5 10
X3	17 37	5 10	X7	06	2
X5	17 37 60 82	5 10 10 15	X8	30	15

Porting Data

Model	Flow (gpm)	Inlet Port Sizes	Outlet Port Sizes with K9 Filters	Outlet Port Sizes with Q39 Filters
X2	17	1.50" NPT	-	#32 SAE (2")
X2	37	2" NPT	-	#32 SAE (2")
X2	60	2" NPT	-	#32 SAE (2")
X2	82	2" NPT	-	#32 SAE (2")
X3	17	2" NPT	-	#32 SAE (2")
X3	37	2" NPT	-	#32 SAE (2")
X5	17	1.50" NPT	#24 SAE (1.50")	#32 SAE (2")
X5	37	2" NPT	#24 SAE (1.50")	#32 SAE (2")
X5	60	2" NPT	#24 SAE (1.50")	#32 SAE (2")
X5	82	2" NPT	-	#32 SAE (2")
X6	17	2" NPT	#24 SAE (1.50")	#32 SAE (2")
X6	37	2" NPT	#24 SAE (1.50")	#32 SAE (2")
X7	06	1.50" NPT	-	#32 SAE (2")
X8	30	2.50" NPT	-	#32 SAE (2")

Weight Data

Skid Series	Flow (gpm)	Weight (lb)*	Skid Series	Flow (gpm)	Weight (lb)*
X2	17 37 60 82	311-504 348-577 Contact factory 597-705	X6	17 37	370-659 502-607
X3	17 37	340-580 461-566	X7	06	Contact factory
X5	17 37 60 82	396-684 497-849 Contact factory 947-1054	X8	30	Contact factory

*Weight dependent on options chosen.

How to Build a Valid Model Number for a Schroeder X Series Filter Skid:

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	BOX 7	BOX 8	BOX 9	BOX 10	BOX 11

Example: *NOTE: One option per box*

BOX 1	BOX 2	BOX 3	BOX 4	BOX 5	BOX 6	BOX 7	BOX 8	BOX 9	BOX 10	BOX 11	
X5	17	3Q	D	C	B	N	N	B	M	N	= X5173QDCBNNBMN

BOX 1 / BOX 2 / BOX 3

Model	Flow (gpm)	K9 Filter 3K	QF5 Filter 39Q
X2	17		3Q
	37		3Q
	60		3Q
	82		3Q
X3	17		3Q
	37		3Q
X5	17	3K	3Q
	37	3K	3Q
	60		3Q
	82		3Q
X6	17	3K	3Q
	37	3K	3Q
X7	06		3Q
X8	30		3Q

BOX 4 — Element Media 1st Filter

A = 1 Z Micron
B = 3 Z Micron
C = 5 Z Micron
D = 10 Z Micron
E = 25 Z Micron
M = QPMLZ1
P = QPMLZ3
R = QPMLZ5
S = QPMLZ10
T = QPMLZ25
W = W

BOX 5 — Element Media 2nd Filter (omit for X2, X3, and X7 skids)

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)	
M = QPMLZ1	**Deeper Pleats**
P = QPMLZ3	
R = QPMLZ5	
S = QPMLZ10	
T = QPMLZ25	
W = W	**Water Removal**

BOX 6 — Seal Material

B = Buna (Standard)
H = EPR
V = Viton®

BOX 7 — Power

N = 230/ 460 VAC 3 PH.
E = 575 VAC 3 PH.

BOX 8 — Motor Frame

N = TEFC
W = Washdown (NEMA Design B)

BOX 9 — Starter Control Options

N = None
A = 230 VAC
B = 460 VAC
E = 575 VAC

BOX 10 — Dirt Alarm®

N = D5 Indicator on Filter Cap
G = Differential Pressure Gauge
M = MS11 Electric Cartridge
C = Differential Pressure Gauge with Electric Switch

BOX 11 — Miscellaneous Options

N = None
C = Mobile
B = Continuous Bleed
P = Particle Counter

Note: Vacuum gauge and suction strainer comes standard on all available models.

*VFD available upon request
For replacement element part numbers, please see "Appendix Section - Replacement Elements" of this catalog.

Model Number Selection

NOTES:

Box 1.
Z1 media not offered for use in 500 to 2000 SUS filtration skids. Contact factory for specific applications. (X2, X5) Z1 and Z3 media not offered for use in 2000 to 5000 SUS filtration skids. Contact factory for specific applications. (X3, X6)

Boxes 4 & 5.
Z1 and Z3 media not offered for use in 2000 to 5000 SUS filtration skids. Contact factory for specific applications. All elements are singular construction (no stacked elements). QPML elements only available in the QF5 housing. X2, X3 and X7 skids have one filter housing, box 5. X8 skid has filters in parallel. Box 4 & 5 must have same micron rating.

Box 7.
575 will be built to CSA standards. (E) X7 and X8 only available with 230/460 VAC 3 phase motor.

Boxes 9 and 10.
Motor starter control option – C-series, non-disconnect shut-off, "motor on" light, electrical indicator "change element" light, and type 4x wash down enclosure. Contact factory for additional custom control options.

Box 11.
Continuous bleed option – to eliminate filter air buildup in continuously aerated systems. Includes cap vent port, valve, and return line. (B) Suction strainer standard on all X Skids.

Particle Counter not available for X7 or X8.