### 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<sup>®</sup> synthetic filtering media provides for quick, efficient clean up with maximum element life

A 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.

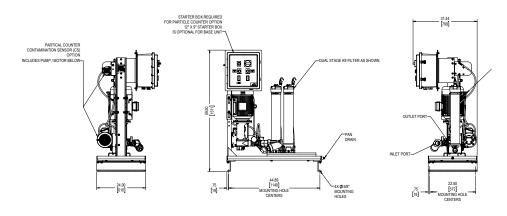
Schroeder's high viscosity X Series skids (X7 and X8) are designed to handle fluids that have a viscosity as high as 25,000 SUS. The skids have 39" long QF5 filters to efficiently clean the viscous fluids. The filters have a high dirt-holding capacity, capable of holding almost 1000 grams of dirt depending 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

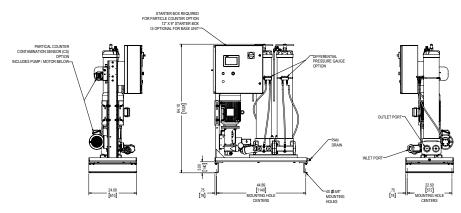
Series	Viscosity Range	Filter Housing(s)	Maximum Flow
X2	100 - 2000 SUS	(1) QF5	82 gpm (310 L/min)
X3	100 - 5000 SUS	(1) QF5	37 gpm (140 L/min)
X5	100 - 2000 SUS	(2) QF5 or K9 in series	82 gpm (310 L/min)
X6	100 - 5000 SUS	(2) QF5 or K9 in series	37 gpm (140 L/min)
X7	100 - 25,000 SUS	(1) QF5	6 gpm (23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

### SMART X Series Filter Skids X Series

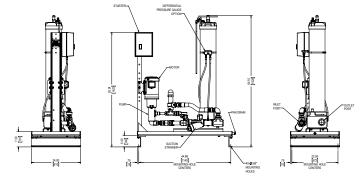
### Dual K9 Filter Version (Series X5 & X6)



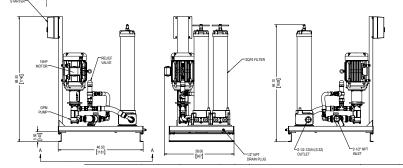
Dual QF5 Filter Version (Series X5 & X6)



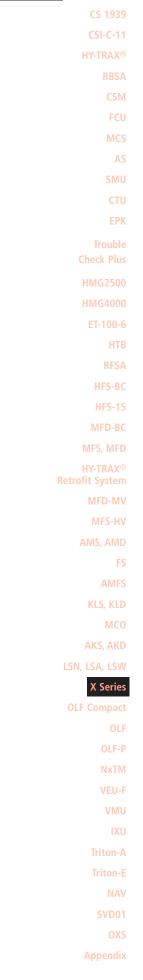
Single QF5 Filter Version (X7); For High Viscosity (up to 25,000 SUS)



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



Metric dimensions in ( ).



# X Series X Series Filter Skids

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	Skid Series	Flow (gpm)	Motor (hp)	Skid Series	Flow (gpm)	Motor (hp)
Motor Data	X2	17 37 60 82	3 5 10 10	X6	17 37	5 10
	Х3	17 37	5 10	Х7	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")
	Х3	17	2" NPT	-	#32 SAE (2")
	Х3	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	Х7	06	Contact factory
	Х5	17 37 60 82	396-684 497-849 Contact factory 947-1054	X8	30	Contact factory

\*Weight dependent on options chosen.

## SMART X Series Filter Skids X Series



			BOX 8 BOX 9	BOX 10	BOX 11			Selection	I	HY-TR/ RI
ample: NOTE: O	,	,								C
0X 1 BOX2 BOX3		OX 5 BOX 6 BOX 7	BOX 8 BOX 9	BOX 10		5172000				
(5 – 17 – 3Q	– D –	C – B – N –	- N - B -	- M -	-N = X5	5173QDC	BININBIVIN			N
					201					
OX 1 BOX 2		BOX 3	BOX 4		BOX Element		BOX 6			S
Iodel Flow (gpm)	K9 Filte 3K	er QF5 Filter 39Q	Element Me 1st Filter		2nd Filter (or X3, and X	mit for X2,	Seal Material			2
17		3Q	A = 1 Z Mic	ron	N = NA		B = Buna			
X2 37 60		3Q 3Q	B = 3 Z Mic C = 5 Z Mic		A = Z1 (K or B = Z3 (K or		(Standard)	NOTES:		
82		3Q	D = 10 Z M		C = Z5 (K or		H = EPR $V = Viton^{(m)}$	Box 1.		Tro Check
X3 17		3Q	E = 25 Z M	icron	D = Z10 (K d	or Q)		Z1 media not of for use in 500 to	ffered	леск
<sup>37</sup>	3K	3Q 3Q	M = QPMLZ P = OPMLZ		E = Z25 (K c)		-	SUS filtration sk	ids.	HMG2
37	3K	3Q	P = QPIMLZ R = QPMLZ		$M = QPMLZ^{2}$ $P = QPMLZ^{2}$		Deeper Pleats	Contact factory specific applicat	tions.	HMG4
X5 60		3Q	S = QPMLZ	10	R = QPMLZS	5	i icală	(X2, X5) Z1 and media not offer		ET-1
82	ЗK	3Q 3Q	T = QPMLZ W = W		$S = QPMLZ^{2}$ T = QPMLZ2			use in 2000 to 5 SUS filtration sk	000	
X6 37	3K	3Q	vv — vv		W = W	<i>L</i> J	Water Removal	Contact factory specific applicat	for	F
X7 06		3Q						(X3, X6)		HE
X8 30		3Q						Boxes 4 & 5. Z1 and Z3 media	a not	HF
								offered for use 5000 SUS filtrat	in 2000 to	MFI
										MEG
								Contact factory		
								specific applicat	tions.	
507.7		DOVO		DOV			201/40	specific applicat All elements are singular constru	tions. e Iction Potros	
BOX 7		BOX 8	St	BOX			BOX 10	specific applicat All elements are singular constru (no stacked elements QPML elements	tions. e l uction Retrof ments). only	HY-TR fit Sys
Power		Motor Frame		arter Co Optio	ontrol		Dirt Alarm®	specific applicat All elements are singular constru (no stacked ele QPML elements available in the housing. X2, X3	tions. e Iction Retrof ments). only QF5 and X7	MFS, I HY-TR fit Sys MFD MFS
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<b>Power</b> V = 230/ 460 VAC		Motor Frame N = TEFC W = Washdown (N	IEMA = 2 $B = 4$	orter Co Optio None 230 VAC	ontrol ons C C	G = Differe M = MS11 C = Differe	Dirt Alarm <sup>®</sup> dicator on Filter Cap ential Pressure Gauge	specific applicat All elements arr singular constru (no stacked elem QPML elements available in the housing. X2, X3 skids have one housing, box 5. filters in paralle 5 must have sar	tions. ciction Retrof ments). only QF5 and X7 filter X8 skid has I. Box 4 & ne micron	HY-TR fit Sys MFD MFS AMS, J
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<b>Power</b> I = 230/ 460 VAC		Motor Frame N = TEFC W = Washdown (N	IEMA = 2 $B = 4$	orter Co Optio None 230 VAC	ontrol ons C C	G = Differe M = MS11 C = Differe	Dirt Alarm <sup>®</sup> dicator on Filter Cap ential Pressure Gauge Electric Cartridge ential Pressure Gauge with	specific applicat All elements arr singular constru (no stacked elem QPML elements available in the housing, X2, X3 skids have one - housing, box 5. filters in paralle 5 must have sar rating. Box 7. 575 will be buil CSA standards. (E) X7 and X8 o available with 2	tions. tiction Retrof ments). only QF5 and X7 filter X8 skid has h. Box 4 & ne micron t to nly 130/460 box	HY-TR fit Sys MFD MFS AMS, A A KLS, I
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Power = 230/ 460 VAC = 575 VAC 3 Pl BOX 11	H.	Motor Frame N = TEFC W = Washdown (N	IEMA = 2 $B = 4$	orter Co Optio None 230 VAC	ontrol ons C C	G = Differe M = MS11 C = Differe	Dirt Alarm <sup>®</sup> dicator on Filter Cap ential Pressure Gauge Electric Cartridge ential Pressure Gauge with	specific applicat All elements are singular constru- (no stacked elec QPML elements available in the housing, X2, X3 skids have one - housing, box 5. filters in paralle 5 must have sar rating. Box 7. 575 will be built CSA standards. (E) X7 and X8 o available with 2 VAC 3 phase mo Boxes 9 and 10. Motor starter co option – C-serie disconnect shut	tions. tiction Retrof only QF5 and X7 filter X8 skid has, I. Box 4 & ne micron t to nly 230/460 otor. LSN, ontrol s, nonoff,	HY-TR fit Sy: MFD AMS, A KLS, AKS, LSA, X S
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Power   I = 230/ 460 VAC   I = 575 VAC 3 PI   BOX 11   Miscellaneous C   N = None   C = Mobile   B = Continuou   P = Particle Cou	H. Options Is Bleed Inter	Motor Frame N = TEFC W = Washdown (N Design B)	IEMA N = 1 A = 2 E = 1	arter Co Optio Vone 230 VA0 460 VA0 575 VA0	ontrol ns C C C	G = Differe M = MS11 C = Differe Electric	Dirt Alarm <sup>®</sup> dicator on Filter Cap ential Pressure Gauge Electric Cartridge ential Pressure Gauge with	specific applicat All elements are singular constru (no stacked eler QPML elements available in the housing. X2, X3 skids have one i housing, box 5. filters in paralle 5 must have sar rating. Box 7. 575 will be buil CSA standards. (E) X7 and X8 o available with 2 VAC 3 phase mo Boxes 9 and 10. Motor starter of option – C-serie disconnect shut "motor on" ligi electrical indica "change elemen light, and type down enclosure Contact factory additional custor control options Box 11. Continuous blee option – to elim filter air buildu	tions. ciction Retrof ments). only QF5 and X7 filter X8 skid has, l. Box 4 & ne micron t to nly 230/460 otor. LSN, s, non off, nt, CLF tor mt" 4x wash 5. for om ed ninate	HY-TR fit Sys MFD MF? AMS, J AMS, J AKS, J LSA, LSA, LSA, C S Com O N V
Power   I = 230/ 460 VAC   I = 575 VAC 3 PI   BOX 11   Miscellaneous C   N = None   C = Mobile   B = Continuou   P = Particle Cou	H. Options Is Bleed Inter	Motor Frame N = TEFC W = Washdown (N Design B)	IEMA N = 1 A = 2 E = 1	arter Co Optio Vone 230 VA0 460 VA0 575 VA0	ontrol ns C C C	G = Differe M = MS11 C = Differe Electric	Dirt Alarm <sup>®</sup> dicator on Filter Cap ential Pressure Gauge Electric Cartridge ential Pressure Gauge with	specific applicat All elements are singular constru (no stacked eleu QPML elements available in the housing, X2, X3 skids have one - housing, box 5. filters in paralle 5 must have sar rating. Box 7. 575 will be buil CSA standards. (E) X7 and X8 o available with 2 VAC 3 phase mo Boxes 9 and 10. Motor starter co option – C-serie disconnect shut "motor on" ligf electrical indica "change elemen light, and type - down enclosure Contact factory additional custor control options Box 11. Continuous ble option – to elim filter air buildu continuously aerated systems	tions. tiction S. tiction Retrof only QF5 and X7 filter X8 skid has J i. Box 4 & ne micron t to nly 230/460 otor. LSN, ontrol s, non- off, nt, CLF tor nt" 4x wash 2. on tor binate p in	HY-TR fit Sys MFD MF: AMS, J AMS, J AKS, J LSA, LSA, S Com O N V V
Power = 230/ 460 VAC = 575 VAC 3 PI BOX 11 Miscellaneous C N = None C = Mobile B = Continuou P = Particle Cou	H. Options Is Bleed Inter	Motor Frame N = TEFC W = Washdown (N Design B)	IEMA N = 1 A = 2 E = 1	arter Co Optio Vone 230 VA0 460 VA0 575 VA0	ontrol ns C C C	G = Differe M = MS11 C = Differe Electric	Dirt Alarm <sup>®</sup> dicator on Filter Cap ential Pressure Gauge Electric Cartridge ential Pressure Gauge with	specific applicat All elements are singular constru (no stacked eler QPML elements available in the housing. X2, X3 skids have one i housing, box 5. filters in paralle 5 must have sar rating. Box 7. 575 will be buil CSA standards. (E) X7 and X8 o available with 2 VAC 3 phase mo Boxes 9 and 10. Motor starter co option – C-serie disconnect shut "motor on" ligh electrical indica "change elemen light, and type - down enclosure Contact factory additional custo control options Box 11. Continuous bleo option – to elim filter air buildu continuously aerated systems Includes cap	tions. ciction Retrof ments). only QF5 and X7 filter X8 skid has, I. Box 4 & ne micron t to nly 230/460 otor. LSN, s, non off, nt, CLF tor nt" 4x wash c. for om com com com com com com com	HY-TR fit Sys MFD MF? AMS, / AMS, / AKS, ILSA, ILSA, ILSA, S SC Com O N V V Tritte
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