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

5 Part of Schroeder Industries Energy Sustainability 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 and X7) include a hydraulic pump, electric motor, and 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 - 5000 SUS	(1) QF5	82 gpm (310 L/min)
X5	100 - 5000 SUS	(2) QF5	82 gpm (310 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)

X Series Filter Skids X Series





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 ().

Carlas	
Series cs 10	
CS 19	939
CSI-C	-11
HY-TR/	٩Χ°
	SA
С	SM
F	
N	
	AS
SI	MU
C	TU
E	PK
Trou	
Check P	
HMG25	
HMG40	
ET-10	
	SA
HFS	
HFS	
MFD	
MFS, M	
HY-TRAX [®] Retro Syst	
MFD-	MV
MFS-	HV
AMS, AI	ИD
	FS
AM	1FS
KLS, K	(LD
KL	
Μ	
AKS, A	KD
LSN, LSA, L	
X Ser	
OLF Comp	act
C	OLF
	F-P
	ТМ
VE	
	MU
	XU
Tritor	
Trito	
	IAV
SVE	
C)XS

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, X5, X7, and X8
	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-X5: 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 Sei	ries F	low (gpm)	Motor (hp)	Skid Series	Flow (gpm)	Motor (hp)
Motor Data	X2		17 37 60 82	3 5 10 10	Х7	06	2
	X5		17 37 60 82	5 10 10 15	X8	30	15
Porting Data	Model	Flow (gpm)	Inlet Port Size		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")		
	X5	17	1.50" NPT		#32 SAE (2")		
	X5	37	2" NPT		#32 SAE (2")		
	X5	60	2" NPT		#32 SAE (2")		
	X5	82	2" NPT		#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	Х7	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.

Schroeder SMART TECHNOLOGY INSIDE

X Series Filter Skids X Series

E = 575 VAC 3 PH. BOX 11 Miscellaneous Of N = None C = Mobile Note: Vacuum gau Replacement Elem	BOX 4 Q25 BOX 3 QF5 Fil 39Q 3Q 3Q 3Q 3Q 3Q 3Q 3Q 3Q 3Q 3Q 3Q 3Q 3Q	-Q10 - B - N BOX 6 BOX 7 Element N	Media n element n element on element on element Start O N = Non	BOX 9 BOX 9 BOX 9 BOX 9 BOX 9	DX 5 nt Media cron element cron element icron element icron element cron element	BOX 10 BOX 10 BOX 10 BOX 10 BOX 10	Selection NOTES: Box 1. Z1 media not offered for use in 500 to 2000 SUS filtration skids. Contact factory for specific applications. X2 and X7 skids have one filter housing. X8 skid has filters in parallel. Box 4 & 5 must have same micron rating. Box 7. 575 will be built to CSA standards.	F Tro Check HMG2 ET-1 F HF HF MFI MFI
SX 1 = BOX 2 = BOX 3 $SY 1 = BOX 2 = BOX 3$ $SY 3 = BOX 7$ $SY 3 = BO$	BOX 4 Q25 BOX 3 QF5 Fil 39Q 3Q 3Q 3Q 3Q 3Q 3Q 3Q 3Q 3Q 3Q 3Q 3Q 3Q	BOX 5 BOX 6 BOX 7 -Q10 - B - N a BOX 4 ter Element N Q1 = 1 micror Q3 = 3 micror Q5 = 5 micror Q10 = 10 micro Q25 = 25 micror Q25 = 25 micror D10 = 10 micro Q25 = 25 micror Q10 = 10 micro	N - B	BOX 9 BOX 9 BOX 9 BOX 9 BOX 9	P = X517	BOX 6 Seal Material B = Buna (Standard) H = EPR $V = Viton^{\circ}$ BOX 10 Dirt Alarm [*] tor on Filter Cap	Box 1. Z1 media not offered for use in 500 to 2000 SUS filtration skids. Contact factory for specific applications. X2 and X7 skids have one filter housing. X8 skid has filters in parallel. Box 4 & 5 must have same micron rating. Box 7. 575 will be built to CSA standards.	Tro Check HMG: ET-1 F HF HF
	- Q25 BOX : QF5 Fil 39Q 3Q 3Q 3Q 3Q 3Q 3Q 3Q 3Q 3Q 3Q 3Q 3Q 3Q	BOX 8 BOX 8 BOX 8 BOX 8 BOX 8 BOX 8 BOX 8 BOX 8 BOX 8 BOX 8	N - B	BOX 9 BOX 9 BOX 9 BOX 9 BOX 9	P = X517	BOX 6 Seal Material B = Buna (Standard) H = EPR $V = Viton^{\circ}$ BOX 10 Dirt Alarm [*] tor on Filter Cap	Box 1. Z1 media not offered for use in 500 to 2000 SUS filtration skids. Contact factory for specific applications. X2 and X7 skids have one filter housing. X8 skid has filters in parallel. Box 4 & 5 must have same micron rating. Box 7. 575 will be built to CSA standards.	Tro Check HMG2 ET-1 F HF2 HF2 MF1
BOX 1 BOX 2 Model Flow (gpm) 17 37 60 82 17 37 60 82 17 37 60 82 17 37 60 82 17 37 60 82 17 9 80 7 80 7 Power N = 230/ 460 VAC 3 PI E = 575 VAC 3 PH. BOX 11 Miscellaneous Of N = None C = Mobile	BOX : QF5 Fil 39Q 3Q 3Q 3Q 3Q 3Q 3Q 3Q 3Q 3Q 3Q 3Q 3Q	BOX 8 BOX 8 BOX 8 BOX 8 BOX 8 Motor Frame W = Washdown (NEMA	4 Media n element n element on element on element N = Non A = 230	B Eleme Q1 = 1 mi Q3 = 3 mi Q5 = 5 mi Q10 = 10 m Q25 = 25 m BOX 9 ter Control Dptions he VAC	DX 5 nt Media cron element cron element icron element icron element icron element G = Differentia	BOX 6 Seal Material B = Buna (Standard) H = EPR $V = Viton^{\circ}$ BOX 10 Dirt Alarm [*] tor on Filter Cap	Box 1. Z1 media not offered for use in 500 to 2000 SUS filtration skids. Contact factory for specific applications. X2 and X7 skids have one filter housing. X8 skid has filters in parallel. Box 4 & 5 must have same micron rating. Box 7. 575 will be built to CSA standards.	Tro Check HMG: ET-1 F HF: HF: MFI
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Model $[Flow gpm)$ [Flow gpm) [Flow gpm] [Flow gp	QF5 Fil 39Q 3Q 3Q 3Q 3Q 3Q 3Q 3Q 3Q 3Q 3Q	ter Element M Q1 = 1 micror Q3 = 3 micror Q5 = 5 micror Q10 = 10 micro Q25 = 25 micror Q25 = 25 micror BOX 8 Motor Frame N = TEFC W = Washdown (NEMA	Media n element n element on element on element O N = Non A = 230	Eleme Q1 = 1 min Q3 = 3 min Q5 = 5 min Q10 = 10 m Q25 = 25 m Q25 = 25 m BOX 9 ter Control Dptions he VVAC	nt Media cron element cron element icron element icron element icron element G = Differentia	Seal Material B = Buna (Standard) H = EPR V = Viton* BOX 10 Dirt Alarm* tor on Filter Cap	Box 1. Z1 media not offered for use in 500 to 2000 SUS filtration skids. Contact factory for specific applications. X2 and X7 skids have one filter housing. X8 skid has filters in parallel. Box 4 & 5 must have same micron rating. Box 7. 575 will be built to CSA standards.	Tro Check HMG: HMG4 ET-1 F HF HF
(gpm) (gpm) 17 1 37 60 82 17 37 60 82 17 37 60 82 17 37 60 82 17 37 60 82 17 37 60 82 17 37 60 82 17 37 60 82 10 80X 7 Power N = 230/ 460 VAC 3 PH. 10 BOX 11 Miscellaneous Of N = None C = Mobile C = Mobile 11	39Q 3Q 3Q 3Q 3Q 3Q 3Q 3Q 3Q 3Q 3Q	BOX 8 Motor Frame N = TEFC W = Washdown (NEMA	n element n element on element on element N = Non A = 230	Q1 = 1 min $Q3 = 3 min$ $Q5 = 5 min$ $Q10 = 10 m$ $Q25 = 25 m$ $Q25 = 25 m$ BOX 9 ter Control Diptions The NVAC	rron element cron element cron element icron element icron element G = Differentia	Material B = Buna (Standard) H = EPR V = Viton* BOX 10 Dirt Alarm* tor on Filter Cap	Box 1. Z1 media not offered for use in 500 to 2000 SUS filtration skids. Contact factory for specific applications. X2 and X7 skids have one filter housing. X8 skid has filters in parallel. Box 4 & 5 must have same micron rating. Box 7. 575 will be built to CSA standards.	Tro Check HMG2 ET-1 F HF2 HF
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X2 60 82 17 37 60 82 X7 06 82 X7 80 80 X7 Power N = 230/ 460 VAC 3 PH. BOX 11 Miscellaneous Of N = None C = Mobile Note: Vacuum gau	3Q 3Q 3Q 3Q 3Q 3Q 3Q 3Q	Q5 = 5 micror Q10 = 10 micro Q25 = 25 micro BOX 8 Motor Frame N = TEFC W = Washdown (NEMA	n element on element on element N = Non A = 230	Q5 = 5 min Q10 = 10 m Q25 = 25 m BOX 9 ter Control Options ne	ron element icron element icron element M =D5 Indicat G = Differentia	H = EPR V = Viton* BOX 10 Dirt Alarm* tor on Filter Cap	Box 1. Z1 media not offered for use in 500 to 2000 SUS filtration skids. Contact factory for specific applications. X2 and X7 skids have one filter housing. X8 skid has filters in parallel. Box 4 & 5 must have same micron rating. Box 7. 575 will be built to CSA standards.	Check HMG ET-1 I HF HF
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37 37 60 82 X7 06 X8 30 BOX 7 Power N = 230/ 460 VAC 3 PI E = 575 VAC 3 PH. BOX 11 Miscellaneous Of N = None C = Mobile Note: Vacuum gau Replacement Elem	3Q 3Q 3Q 3Q 3Q	BOX 8 Motor Frame N = TEFC W = Washdown (NEMA	N = Non A = 230	BOX 9 ter Control Dptions ne IVAC	N =D5 Indicat G = Differentia	Dirt Alarm [®] tor on Filter Cap	Box 1. Z1 media not offered for use in 500 to 2000 SUS filtration skids. Contact factory for specific applications. X2 and X7 skids have one filter housing. X8 skid has filters in parallel. Box 4 & 5 must have same micron rating. Box 7. 575 will be built to CSA standards.	HMG ET-1 I HF HF MFI
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82 X7 06 X8 30 BOX 7 Power N = 230/ 460 VAC 3 P E = 575 VAC 3 PH. BOX 11 Miscellaneous O N = None C = Mobile Note: Vacuum gau Replacement Elem	3Q 3Q 3Q	Motor Frame N = TEFC W = Washdown (NEMA	Start O N = Non A = 230	ter Control Options ne IVAC	N =D5 Indicat G = Differentia	Dirt Alarm [®] tor on Filter Cap	SUS filtration skids. Contact factory for specific applications. X2 and X7 skids have one filter housing. X8 skid has filters in parallel. Box 4 & 5 must have same micron rating. Box 7. 575 will be built to CSA standards.	F HF HF
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BOX 7 Power N = 230/ 460 VAC 3 P E = 575 VAC 3 PH. BOX 11 Miscellaneous O N = None C = Mobile Note: Vacuum gau Replacement Eler		Motor Frame N = TEFC W = Washdown (NEMA	Start O N = Non A = 230	ter Control Options ne IVAC	N =D5 Indicat G = Differentia	Dirt Alarm [®] tor on Filter Cap	one filter housing. X8 skid has filters in parallel. Box 4 & 5 must have same micron rating. Box 7. 575 will be built to CSA standards.	HF HF MFI
Power N = 230/ 460 VAC 3 P E = 575 VAC 3 PH. BOX 11 Miscellaneous O N = None C = Mobile	PH.	Motor Frame N = TEFC W = Washdown (NEMA	Start O N = Non A = 230	ter Control Options ne IVAC	N =D5 Indicat G = Differentia	Dirt Alarm [®] tor on Filter Cap	in parallel. Box 4 & 5 must have same micron rating. Box 7. 575 will be built to CSA standards.	HF
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Miscellaneous Of N = None C = Mobile Note: Vacuum gau Replacement Elem		Design D)	B = 460	VAC		ai Pressure Gauge	(E) X7 and X8 only available with 230/460	
Miscellaneous Of N = None C = Mobile Note: Vacuum gau Replacement Elem						ctric Cartridge	VAC 3 phase motor.	Sy
Miscellaneous Of N = None C = Mobile Note: Vacuum gau Replacement Elem			E = 575	VAC	C = Differentia Electric Sv	al Pressure Gauge with witch	Boxes 9 and 10. Motor starter control	MFD
Miscellaneous Of N = None C = Mobile Note: Vacuum gau Replacement Elem			BOX 12				option – C-series, non- disconnect shut-off,	MF
C = Mobile Note: Vacuum gau Replacement Elem	options	Co	ondition Monito	oring			"motor on" light, electrical indicator	AMS, J
Note: Vacuum gau Replacement Elem		P = Partic	le Counter (oil	ls to 3500 SUS)			"change element" light, and type 4x	
Replacement Elem		CSI = CSI-C-	-11 option				wash down enclosure. Contact factory for	A
Replacement Elem		CSI-W = CSI-C-	-11with AS120	00 Option			additional custom control options.	KLS,
Replacement Elem		WD = Water	r Sensor with D	Display			Particle Counter not	ŀ
Replacement Elem		Omit = No Co	ondition Monit	toring Options			available for X7 or X8.	
Replacement Elem								AKS,
Replacement Elem	uge and	suction strainer comes s	tandard on all	l available mode	5.			LSN, LSA,
-	-							X S
P/N IBD								OLF Com
P/N 7641268		ent, 39QCLQFZ1VF						
		ent, 39QCLQFZ5VF						
		ent, 39QCLQFZ10V						N
		ent, 39QCLQFZ25VF						V
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