C C D Diesel Conditioning Systems

Remove water and particulate to extend fuel injector life and increase combustion engine fuel efficiency.

Ideal for large mining and construction fueling depots, diesel fueled turbines, backup generators, and smaller day tank dispensing or on-board fueling truck applications. With options for adding non-powered units to existing fuel dispensing lines, there's a perfect COD for all of your diesel applications.





Filtration starts with the filter(s).

COD combines high efficiency single pass particulate and water removal to ensure that your fuel is always in spec, eliminating wear related injector failures. Achieve cleanliness below the 18/16/13 ISO Code limit required by engine manufacturers with $\beta S_{[c]} > 4000$ media elements and extend the life of on-board fuel filters that plug and cause replacement downtime that can shut down your entire mining group.





Redefining standard filtration.

For high pressure injectors, water is one of the worst forms of contamination. The solution for your water contamination lies in COD's 100% synthetic coalesce/separator elements that remove all free and emulsified water down to 50 ppm. Your fuel rail and high pressure injectors will be protected and running more efficiently than ever.

Increase fuel efficiency, lower emissions.

Cleaner fuel runs more efficiently and with lower emissions, yielding better injector performance and life and can even lead to lower fuel usage – which translates to bottom line profitability and a drastically lower environmental footprint. Monitor your fuels' condition with properly positioned sample ports before the pre-filter and after the coalesce stage and always know how your filtration is performing.



HY-PRO SMALE HAT SMALE HA

Take control of your systems.

Smart relay and auto water drain make COD a 24/7 unattended, easy-to-operate solution that functions as an in-line contamination barrier for every drop of fuel that goes into your engines. Optional PLC touchscreen enables custom programming so your COD can purify backup fuel tanks on your schedule and even data log ISO Codes and saturation levels so you know your fuel is clean and reliable when you're on and off the clock.

Integrated results.

For fuel delivery systems already in place, the CODX non-powered skids are the perfect addition for seamless integration and contain all the contamination removal technology of powered COD units. Ideal for fueling depots, bulk fuel deliveries, upgrading common fuel rails, on-board engine and marine applications.



Built to exceed your expectations.

Flexible dimension and process arrangement are available with every COD so you get the perfect contamination solution for your fuel delivery system. Even choose from explosion proof models and color coordinate to fit perfectly with your existing safety standards for the ultimate system in diesel conditioning.

COD Specifications

Model	COD5-10-30	COD60-100		COD200	COD300-400	COD500-600
Height ¹	72" (183 cm)	80" (203 cm)		90" (229 cm)	90" (229 cm)	90" (229 cm)
Length ¹	48" (122 cm)	72" (183 cm)		84" (213 cm)	84" (213 cm)	96" (244 cm)
Width ¹	42" (107 cm)	36" (92 cm)		48" (122 cm)	60" (152 cm)	60" (152 cm)
Weight ¹	1200 lbs (454 kg)	2000 lbs (907 kg)		2400 lbs (1089 kg)	3500 lbs (1588 kg)	4200 lbs (1905 kg)
Inlet ²	COD5-10: 1" (2.5 cm) COD30: 1½" (3.8 cm)	2" (5.1 cm)		3" (7.6 cm)	4" (10.2 cm)	6" (15.2 cm)
Outlet ²	COD5-10: 1" (2.5 cm) COD30: 1½" (3.8 cm)	1½" (3.8 cm) 2" (5.1 cm)		3" (7.6 cm)	4" (10.2 cm)	6" (15.2 cm)
Motor Size	1-5 hp	7.5-10 hp		20 hp	30 hp	40 hp
Pre-Filter Elements	1	1		3	4	4
Coalesce Elements	1 x HP538L38-CSB ³	2 x HP731L39-CB		3 x HP731L39-CB	6 x HP731L39-CB	8 x HP731L39-CB
Separator/ Polish Elements	(combination element)	1 x HP582L30-S	25MB	2 x HP582L30-S25MB	3 x HP582L30-S25MB	5 x HP582L30-S25MB
Operating Temperature	Fluid Temperature 30°F to 225°F (0°C to 105°C)		40°F to	ent Temperature o 104°F o 40°C)		
Materials of Construction	Housings Carbon steel with industrial coating					vith industrial coating
Electric Motor	TEFC motors with overl	oad protection				
Pump	Cast iron, positive displ on pump inlet 15 psi (1			n internal relief. Maximur higher pressures.	n pressure	
Pump Relief	85-100 psi adjustable					
Media Description				sce synthetic fiber media	Separator TEFLON® coate	ed screen (water barrier)
Fluid Compatibility	Petroleum based fuels, #2 Diesel (standard) and jet fuel. For other fuel options contact factory.					
Hazardous Environment Options	Select special option X standards requirement			Consult factory for exact and Zone.		

¹Dimensions are approximations taken from base model and will vary according to options chosen.

²Female pipe port. ³HP538L38-CSV element combines coalesce and separator element functions into a single element.

COD Part Number Builder

COD			_		_	
	Flow Rate	Power Ontions		Seal		Special Options

Flow Rate¹

5 gpm (18.9 lpm)

10 10 gpm (37.9 lpm)

30 gpm (114 lpm)

60 60 gpm (225 lpm)

100 gpm (379 lpm) 100

200 gpm (757 lpm) 300 gpm (1135 lpm) 200

300

400 gpm (1514 lpm)

500 500 gpm (1892 lpm) 600 gpm (2271 lpm)

Power **Options** 60 Hz

12 120 V ac, 1P 230 V ac, 1P

460 V ac, 3P 46

575 V ac, 3P

50 Hz

E1 120 V ac, 1P

230 V ac, 1P **E3**

32 320 V ac, 3P

38 380 V ac, 3P

41 415 V ac, 3P

525 V ac, 3P

Non-Powered

X² Non-powered COD: No pump-motor combination or electrical controls.

Seals

Nitrile (Buna) Fluorocarbon

Special **Options** 8" (20 cm) solid wheel upgrade

Auto water drain (manual drain included) A^3

B⁴ Adjustable coalesce vessel bypass loop

C CE marked for machinery safety directive 2006/42/EC

Manual reset hour meter (in addition to non-reset meter)

K Sight flow indicator (wheel type)

Lifting eye kit

Water discharge totalizing meter

On-board PM-1 particle monitor & clean oil indicator light

PLC touch screen control (does not include VFD)

Q Maintenance spares and repair kit

Hose kit (suction & return hoses + wands)

50' (15 m) electrical cord with no plug

Χ Explosion proof - must specify standards required

VFD variable speed motor frequency control

On site start-up training

For all up to date option details and compatibilities, please reference our Contamination Solutions Price List or contact customer service.

Want to find out more? Get in touch.



Nominal flow rates at 60 Hz motor speeds.

²Suitable for adding to existing fuel delivery system with existing pressure and flow. Auto water drain option is mechanical.

Recommended option.

⁵Includes fuses, common relay, panel bulb, replacement element set for coalesce chamber & particulate housing.

FSLCOD

Marine and Industrial Diesel Filtration Systems

Remove water and particulate to extend fuel injector life and increase combustion engine fuel efficiency.

Ideal for permanent installation on-board sea vessels and diesel applications requiring compact size restrictions.



hyprofiltration.com/



Remove contaminants, protect equipment.

FSLCOD combines high efficiency single pass particulate and water removal to ensure that your fuel is always in spec, eliminating premature injector failures and downtime.





Elements that go beyond industry standard.

With DFE rated particulate filters and 100% synthetic coalesce/ separator elements that remove all free and emulsified water down to 50 ppm, your fuel rail and high pressure injectors will be protected and running more efficiently than ever.

Small has never been bigger.

Coming in at only 1 ft² (30 cm²) of floor space and 34" (86 cm) tall, the FSLCOD is engineered to provide maximum efficiency in minimal space.



Smarter filtration.

Designed for 24/7 unattended operation, FSLCODs with auto water drain technologies, available electrically or mechanically powered, provide you with the safety and security to know your diesel is clean and dry even when you're off the clock.

Increase fuel efficiency, lower emissions.

Cleaner fuel runs more efficiently and with lower emissions, yielding better injector performance and life and leading to lower fuel usage, translating to bottom line profitability and a drastically lower environmental footprint. Monitor your fuels' condition with properly positioned sample ports before the pre-filter and after the coalesce stage and always know how your filtration is performing.



No detail overlooked.

From the cast iron gear pump with internal relief to the space saving design, every component of the FSLCOD is designed to provide you with the highest quality filtration and integrate seamlessly into your systems. So whether you've got a single vessel or an entire fleet, you can rest assured that your diesel is clean and dry.

FSLCOD Specifications

Dimensions ¹	Height 34" (86 cm)	Width 30" (76 d	cm)	Depth 25" (64 cm)	Weight 285 lbs (129 kg)	
Connections	Inlet FSLCOD5-10: 1" male JIC (37° flare) FSLCOD20: 1¼" male JIC (37° flare)			Outlet 1" male JIC (37° flare)		
Element Configuration	Pre-filter HP60L13-3MV			Main Filter FSLCOD5-10: HP53 FSLCOD20: HP538		
Seals	Fluorocarbon					
Operating Temperature	Fluid Temperature 30°F to 225°F (0°C to 105°C)			Ambient Tempere 40°F to 104°F (4°C to 40°C)	ature	
Materials of Construction	Housings Carbon steel with inc	dustrial coating				
Electric Motor	TEFC, 56-184 frame 0.5-2 hp, 1450-1750	RPM				
Motor Starter	MSP (motor starter/p	protector) in an IP6	5, aluminum enclosur	e with short circuit	and overload protection.	
Pump	Cast iron, positive displacement gear pump with internal relief. Maximum pressure on pump inlet 15 psi (1 bar). Consult factory for higher pressures.					
Pump Bypass	Full bypass at 150 ps	i (10 bar)²				
Pneumatic Option Air Consumption	~40 cfm @ 80 psi ³					
Media Description	M G8 Dualglass, our lat of DFE rated, high pe glass media for all hy lubrication fluids. βx	erformance odraulic &	Coalesce 100% synthetic fiber	r media	Separator TEFLON® coated screen (water barrier)	
Fluid Compatibility	Petroleum based fue	els, #2 Diesel (stand	dard). For other fuel op	otions contact facto	ory.	
Hazardous Environment Options	Select pneumatic po for IEC, Atex or other	wered unit (Power requirements. If E	Option 00) or explosion	on proof NEC Article (X) selected, no e	e 501, Class 1, Division 1, Group C+D. Call lectrical cord or cord reel will be included.	

Air consumption values are estimated maximums and will vary with regulator setting.

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Dimensions are approximations taken from base model and will vary according to options chosen.
210 GPM pump is rated for intermittent duty only at pressures above 100 psi. Continual operation with dual clogged filters resulting in operating pressures over 100 psi will reduce pump life and/or cause premature pump failure.

FSLCOD Part Number Builder

FSLCOD Flow Rate Indicator **Power Options** Special Options

Flow Rate¹

5 gpm (18.9 lpm)

10 gpm (37.9 lpm) 10

20 20 gpm (75.7 lpm)

ΔP Indicator³

D 22 psid visual gauge + electric switch

22 psid visual gauge

Power **Options**

Contact factory for options not listed

60 Hz, 1750 RPM

12 120 V ac, 1P

22 208-230 V ac, 1P

23 208-230 V ac, 3P

46 460-480 V ac, 3P

57 575 V ac, 3P 50 Hz, 1450 RPM

110 V ac, 1P

21 220 V ac, 1P 40 380-440 V ac, 3P

525 V ac, 3P

Pneumatic

Pneumatically driven air motor & PD pump. FRL & flow meter included.

Explosion proof - Class 1, Division 1, Group C+D per NEC 501 - Ready for outdoor use

Add X prefix to power option listed above. Not available with (00) Pneumatic Option.

Special **Options**

Electrically powered automatic water drain A14

В Complete filter bypass line

C CE marked for machinery safety directive 2006/42/EC

D High filter ΔP auto shutdown

100 mesh cast iron basket strainer

Filter element ΔP gauge with tattle tale follower needle

Spill retention pan with fork guides (industrial coated steel)

Add pressure gauge between pump & filter assembly

HP75L8-149W Spin-On suction strainer

High filter element ΔP indicator light

М Total system flow meter (120 cSt max)

On-board PM-1 particle monitor & clean oil indicator light

S All wetted components 303 or higher stainless steel

U CUL and/or CSA marked starter enclosure for Canada

W Automatic air bleed valve

On site start-up training

Nominal flow rates at 60 Hz motor speeds. 220 gpm machine utilizes 36" vessel.

⁴Requires Electric Power Option.

PM-1 will not function properly in the presence of free or emulsified water at or above saturation point. If selected, PM-1 is installed downstream of the filtration. For all up to date option details and compatibilites, please reference our Contamination Solutions Price List or contact customer service.

With exception to cast iron gear pump.

Want to find out more? Get in touch.



Coalesce filter only. Particulate filter housing is equipped with pop-up differential indicator.

FCLCOD

Diesel Conditioning Filter Cart

Remove water and particulate to extend fuel injector life and increase combustion engine fuel efficiency.

Ideal for service oriented stand by diesel tanks and marine applications.



hyprofiltration.com/



Take control of your systems.

FCLCOD filter carts are constructed to be powerful, dependable, and easy to use. Whether you've got multiple diesel reservoirs or simply need your filtration on the move, conditioning your fuels has never been easier. Add automatic water drain and your FCLCOD becomes a powerhouse that does the work for you.





Filtration starts with the filter(s).

FCLCOD combines high efficiency single pass particulate and water removal to ensure that your fuel is always in spec, eliminating premature injector failures and downtime. With DFE rated particulate filters and 100% synthetic coalesce/ separator elements that remove all free and emulsified water down to 50 ppm, your fuel rail and high pressure injectors will be protected and running more efficiently than ever.

Never stops working.

Designed for 24/7 unattended operation, FCLCODs with auto water drain technologies, available electrically or mechanically powered, provide you with the safety and security to know your diesel is clean and dry even when you're off the clock.





Unmatched on the move.

Non-shredding wheels, optional off-road heavy duty tires and easy to maneuver cart design with ergonomic handle mean you get powerful filtration exactly when and where you need it.



Cleaner fuel runs more efficiently and with lower emissions, yielding better injector performance and life and can even lead to lower fuel usage which translates to bottom line profitability and a drastically lower environmental footprint. Monitor your fuel's condition with properly positioned sample ports before the pre-filter and after the coalesce stage and always know how your filtration is performing.





Completely customizable.

Flexible dimension and process arrangement are available with every FCLCOD so you get the perfect contamination solution for your fuel delivery system. Even choose from explosion proof models and color coordinate to fit perfectly with your existing safety standards for the ultimate mobile system in diesel conditioning.

FCLCOD Specifications

Dimensions ¹	Height Widtl 62" (158 cm) 30.5"		Depth 29" (74 cm)	Weight 379 lbs (172 kg)
Connections	Inlet FCLCOD5-FCLCOD10: 1" male JIC (37° flare) FCLCOD20: 11/4" male JIC (37° flare)	Outlet are) FCLCOD5-FCLCOD10: FCLCOD20: 11/4" male		Hoses FCLCOD5-FCLCOD10: 1" x 10 ft (2.4 m) FCLCOD20: 114" x 10 ft (2.4 m)
Element Configuration	Pre-filter HP75L8-3MV		Main Filter HP538L38-CSV	
Seals	Fluorocarbon			
Operating Temperature	Fluid Temperature 30°F to 225°F (0°C to 105°C)		Ambient Tempera 40°F to 104°F (4°C to 40°C)	ture
Materials of Construction	Housings Carbon steel with industrial coating	Hoses Reinforced synthetic		Wands Stainless steel
Electric Motor	TEFC, 56-145 frame 0.5-2 hp, 1450-1750 RPM			
Motor Starter	MSP (motor starter/protector) in an	P65, aluminum enclosure	with short circuit a	and overload protection.
Electric Connection	Voltages 230 V ac and under, single ph included. NEMA 5-15 plug installed on Voltages over 230 V ac: 35' (11 m) loc	Power Option 12.	cord reel	
Pump	Cast iron, positive displacement gear on pump inlet 15 psi (1 bar). Consult			re
Pump Bypass	Full bypass at 150 psi (10 bar) ²			
Pneumatic Option Air Consumption	~40 cfm @ 80 psi ³ 35' (11 m) retractable air hose includ	ed when pneumatic optic	on selected. Replace	es 35' (11m) electric cord reel.
Media Description	M G8 Dualglass, our latest generation of DFE rated, high performance glass media for all hydraulic & lubrication fluids. $βx_{[C]} ≥ 4000$	Coalesce 100% synthetic fiber	media	Separator TEFLON® coated screen (water barrier)
Fluid Compatibility	Petroleum based fuels, #2 Diesel (sta	andard). For other fuel op	tions contact factor	y.
Hazardous Environment Options				501, Class 1, Division 1, Group C+D. Call ectrical cord or cord reel will be included.

Air consumption values are estimated maximums and will vary with regulator setting. TEFLON® is a registered trademark of DuPont.













Dimensions are approximations taken from base model and will vary according to options chosen.

10 GPM pump is rated for intermittent duty only at pressures above 100 psi. Continual operation with dual clogged filters resulting in operating pressures over 100 psi will reduce pump life and/or cause premature pump failure.

FCLCOD Part Number Builder

FCLCOD	Flow R	Rate Indicator Power Opti	ions Hose Special Options		
Flow Rate ¹	5 10 20	5 gpm (18.9 lpm) 10 gpm (37.9 lpm) 20 gpm (75.7 lpm)			
ΔP Indicator²	D E	22 psid visual gauge + elect 22 psid visual gauge	tric switch		
Power Options Contact factory for options not listed	60 12 22 23 46 57	Hz, 1750 RPM 120 V ac, 1P 208-230 V ac, 1P 208-230 V ac, 3P 460-480 V ac, 3P 575 V ac, 3P	50 Hz, 1450 RPM 11 110 V ac, 1P 21 220 V ac, 1P 40 380-440 V ac, 3P 52 525 V ac, 3P	Pne 00	Pneumatically driven air motor & PD pump. FRL & flow meter included.
Hose Connection			s, no wands		
Special Options	A1 B C D E F G H1 H2 J K L M O ³ R S ⁴ T U W	Spill retention pan with for 10' (3 m) return line hose e. 20' (6 m) return line hose e. Add pressure gauge betwe HP75L8-149W Spin-On such High filter element ΔP indic Total system flow meter (12 On-board PM-1 particle mo	safety directive 2006/42/EC on strainer th tattle tale follower needle k guides (industrial coated steel) xtension xtension en pump & filter assembly tion strainer tator light 20 cSt max) onitor & clean oil indicator light eels (industrial coated steel) or higher stainless steel or rugged environment		

Nominal flow rates at 60 Hz motor speeds.

Coalesce filter only. Particulate filter housing is equipped with sliding differential indicator.

On site start-up training

PM-1 will not function properly in the presence of free or emulsified water at or above saturation point. If selected, PM-1 is installed downstream of the filtration.

With exception to cast iron gear pump.

For all up to date option details and compatibilites, please reference our Contamination Solutions Price List or contact customer service.

Want to find out more? Get in touch.



CSD Diesel Coalesce Non-Powered Filtration System

Remove water to extend fuel injector life and increase combustion fuel efficiency. The CSD is designed for direct integration into fuel delivery systems with pump flow and pressure already in place for easy, streamlined water removal through your existing system. Using high efficiency coalesce and separating media, the CSD will keep diesel free from water contamination down to 50 ppm in a single pass.

Ideal for construction fueling depots, tank farms and common fuel rail applications.



hyprofiltration.com/



Protect your uptime.

By removing water from your diesel systems, you're providing the best environment for your equipment to operate efficiently and helping to prevent breakdowns and damage, saving you time and effort. CSD systems rapidly remove water down to saturation point, protecting your systems and letting you focus on the job at hand.





Media matters.

Cellulose media is known to break down under high water content, resulting in media migration and loss of coalescence efficiency. CSD's 100% synthetic coalesce and separator elements contain no cellulose and feature a pleated synthetic configuration to maximize surface area and ensure your fuel rail and high pressure injectors will be protected and running more efficiently than ever.

Don't quit your day job.

Designed for 24/7 unattended operation, CSDs with auto water drain technologies, available mechanically or electrically powered, provide you with the safety and security to know your diesel is clean and dry so you can forget worrying about your filtration and focus on the job at hand.



Setting the new standard.

Sampling and preventative maintenance are no longer optional, they're a necessity. Knowing your diesel is clean is the first step in prolonging the life of your fuel injectors and critical components. CSD series housings come standard with easy-to-access sample ports in their proper positions so you can always know you're putting clean, dry diesel into your systems.



A properly sized Hy-Pro CSD plus Hy-Pro high efficiency particulate filtration will deliver diesel fuel cleanliness codes of 15/13/10 and better while maintaining water levels at 50 ppm. Pair your CSD with an LF housing in-line on your system and rest assured knowing your fuel injectors are protected.





Integrated results.

Installing CSDs in-line on your current system means you get powerful filtration exactly where you need it – directly upstream of your critical components. With standard models ranging up to 600 gpm, your diesel will be dry and components protected whether you're on a small diesel tank farm or a massive diesel fired turbine.

CSD Specifications

Model	CSD30	CSD120	CSD200	CSD400	CSD600	
Max Flow Rate	30 gpm (114 lpm)	120 gpm (454 lpm)	200 gpm (757 lpm)	400 gpm (1514 lpm)	600 gpm (2271 lpm)	
Weight ¹	164 lbs (74 kg)	319 lbs (177 kg)	546 lbs (248 kg)	1097 lbs (498 kg)	1155 lbs (524 kg)	
Height ¹	62" (158 cm)	74" (188 cm)	82" (209 cm)	82" (209 cm)	82" (209 cm)	
Width ¹	22" (56 cm)	32" (82 cm)	36" (92 cm)	48" (122 cm)	48" (122 cm)	
Length ¹	22" (56 cm)	27" (69 cm)	32" (82 cm)	40" (102 cm)	40" (102 cm)	
Coalesce Elements	1 x HP538L38-CSV ²	2 x HP731L39-CV	3 x HP731L39-CV	6 x HP731L39-CV	8 x HP731L39-CV	
Separator/ Polish Elements	(combination element)	1 x HP582L30-S25MV	2 x HP582L30-S25MV	3 x HP582L30-S25MV	5 x HP582L30-S25MV	
Materials of Construction	Housing Industrial coated steel	Tray Industrial o	coated steel	Hoses Reinforced synth	netic	
Media Description	Coalesce 100% synthetic fiber me	edia	Separator TEFLON® c	coated screen (water barı	rier)	
Fluid Compatibility	Petroleum based fuels, #2 Diesel (standard). For other fuel options contact factory.					

Weights and dimensions are approximations taken from base model and will vary according to options chosen. PHP538L38-CSV element combines coalesce and separator element functions into a single element. TEFLON® is a registered trademark of DuPont.



CSD Part Number Builder

CSD Series Availability



Flow Rate¹

30 30 gpm (114 lpm) 120 120 gpm (454 lpm) 200 200 gpm (757 lpm) **400** 400 gpm (1514 lpm) **600** 600 gpm (2271 lpm)

Connection Type

Port Connections

	<i>3</i> I	
B2	2" BSPP	30-120
C2	2" SAE Code 61 flange	30-120
C3	3" SAE Code 61 flange	30-120
D2	DN50 DIN flange	30-120
D3	DN65 DIN flange	30-120
D4	DN100 DIN flange	200-400
D5	DN125 DIN flange	200-400
D6	DN150 DIN flange	200-400
D8	DN200 DIN flange	200-600
D10	DN250 DIN flange	200-600
F2	2" ANSI flange	30-120
F3	3" ANSI flange	30-120
F4	4" ANSI flange	200-400
F6	6" ANSI flange	200-600
F8	8" ANSI flange	200-600
F10	10" ANSI flange	200-600
F12	12" ANSI flange	200-600
N2	2" NPT	30-120

Seals

Nitrile (Buna)¹ Fluorocarbon

Special **Options**

Auto water drain - mechanical (no electrical)²

Auto water drain - electrically operated solenoid valve (120 V ac, 1P, 60Hz³) ΑE

AE1 Auto water drain - electrically operated solenoid valve (110 V ac, 1P, 50Hz³)

AE2 Auto water drain - electrically operated solenoid valve (230 V ac, 1P, 60Hz³)

AE3 Auto water drain - electrically operated solenoid valve (220 V ac, 1P, 50Hz³)

В Auto air bleed valve4

M Water discharge totalizing meter

S All wetted components 303 or higher stainless steel

Т Optional drip tray + fork life guides

For all up to date option details and compatibilities, please reference our Contamination Solutions Price List or contact customer service.

Want to find out more? Get in touch.



Not suitable for bio diesel.

²Suitable for adding to existing fuel delivery system with existing pressure and flow. Auto water drain option is mechanical.

Requires power supply.

⁴Recommended options.