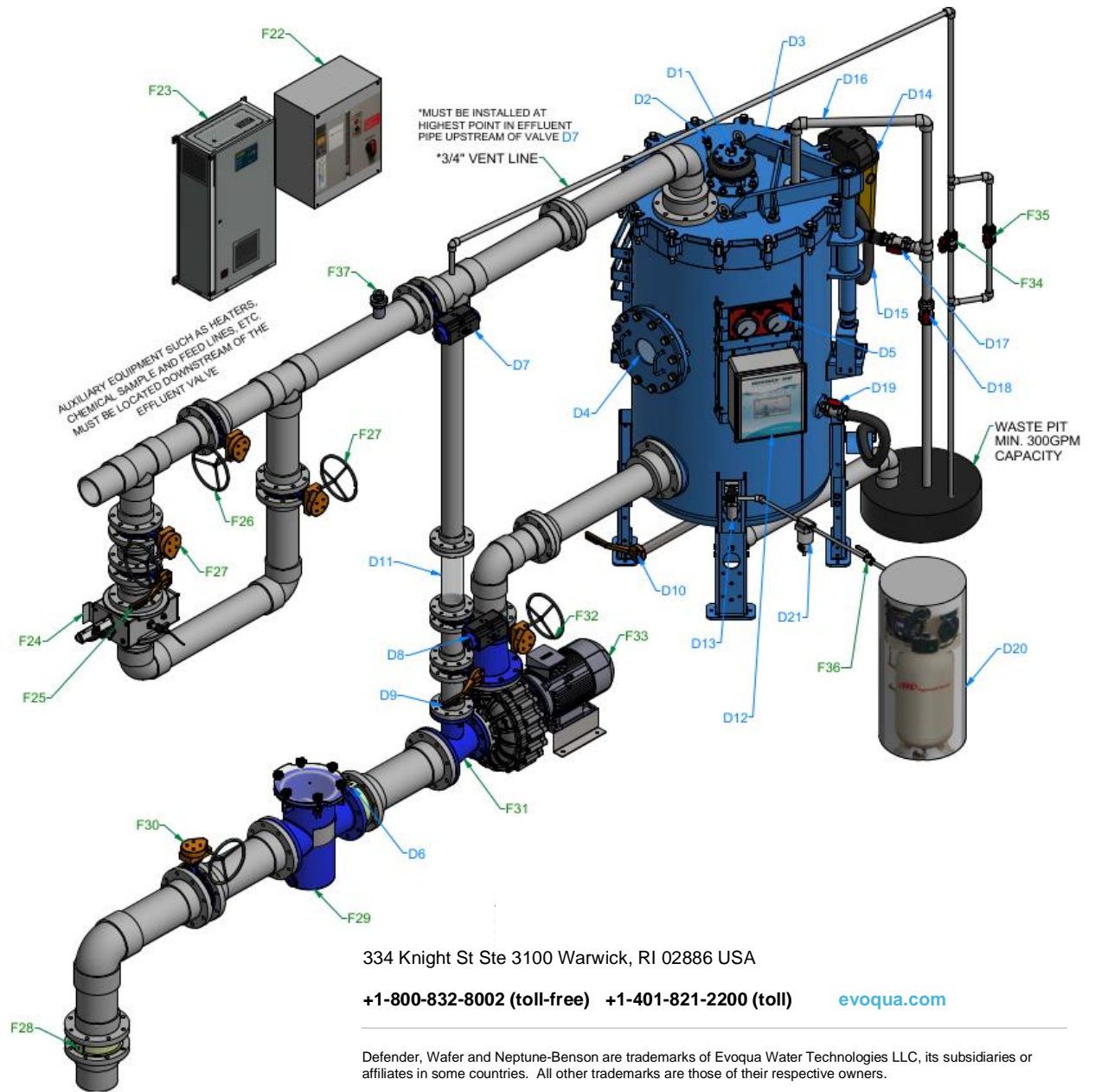


DEFENDER® FILTER COMPONENTS – INCLUDED IN DEFENDER® PACKAGE

Mark	Reference	Notes
D1	Pneumatic Bump Assembly	
D2	Quick Exhaust Valve	
D3	Lifting Davit	
D4	Viewing Window	
D5	Gauge Panel	
D6	Influent Check Valve	
D7	Pneumatic Effluent Valve	Install directly on precoat line tee. Locate where valve position can be easily viewed.
D8	Pneumatic Precoat Valve	Install as close as possible to pump suction piping. Precoat piping should be 2 pipe diameters smaller than effluent piping (no less than 2").
D9	System Fill Valve	Manually operated, normally open valve.
D10	Tank Drain Valve	Manually operated, normally closed valve. Extension is bolted directly to tank bottom. Must be plumbed independently to waste. Automated option available.
D11	In-line Sight Glass	Install on precoat line so it can be viewed while standing at filter control panel.
D12	RMF Control Panel	
D13	Filter Regulator	Set to 90 psi
D14	Vacuum Transfer Unit	Pre-wiring provided to RMF Control Panel.
D15	Vacuum Transfer Hose	
D16	Vacuum Transfer Piping & Fittings	SCH80 PVC fittings and pipe 1.5"
D17	Vacuum Transfer Valve	True union ball valve 1.5", normally closed.
D18	Vacuum Vent Valve	True union ball valve 1.5", normally closed. Vacuum drain line must be plumbed independently to waste.
D19	Vacuum Hose Valve with Hose	True union ball valve 1.5", normally closed.
D20	Air Compressor	Optional
D21	Water Separator	

OPTIONAL FILTER ACCESSORIES - AVAILABLE UPON REQUEST

Mark	Reference	Notes
F22	greenDrive™ VFD	Available in NEMA4X or with bypass.
F23	Wafer™ UV Generator	Package includes control cabinet and treatment chamber.
F24	Wafer™ UV Chamber	Installed in vertical section of piping.
F25	EZ Clean Strainer	Installed on the effluent side of the UV chamber.
F26	UV System Bypass Loop	
F27	UV Isolation Valves	Gear or lever operated valves, normally open.
F28	Check Valve	For self-priming pumps, check valve must be installed on the suction pipe below water level.
F29	Guardian Strainer	Hair and lint strainer.
F30	Strainer Isolation Valve	Gear or lever operated valve, normally open.
F31	Precoat Reducing Tee	
F32	Pump Throttling Valve	Gear or lever operated valve, normally open.
F33	Recirculating Pump	
F34	3/4" Precoat Line Vent Valve	Ball Valve, normally closed. Must be plumbed independently to waste.
F35	3/4" Precoat Line Vent Auto Valve	Shown with automated option.
F36	1/2" Shut Off Valve	
F37	Flow Meter	4-20 mA Output



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Equipment shown for schematic purposes only. Refer to project proposal and submittal for equipment supplied by Neptune Benson. Pneumatic tubing or wiring not shown for clarity.