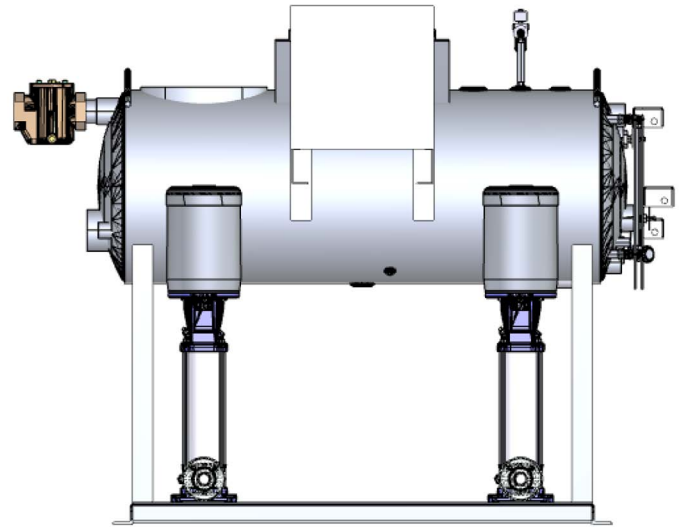


Standard Unit Feature

- Steel receiver, minimum 3/16" thickness with dished heads and inlet cascade baffle. Receiver sized for 10 minute net storage elevated on a structural steel base with suction piping and isolation valves.
- Gauge glass with shut off valve
- Dial thermometer
- Low level cut off float switch
- Float switch, solenoid valve and "Y" strainer water make up assembly.
- Pumps made of AISI 304 Stainless Steel, with in-line ANSI flanges.
- High efficiency hydraulic pump design
- Minimal receiver elevation
- Total unit responsibility

Optional Equipment as specified:

- Inlet basket strainer
- Manhole
- Nema 2-UL listed Consolitrol™ Control Panels
- TEFC Motors
- Hot dip galvanizing
- Epoxy lined tank
- Discharge pressure gauges
- High or low water alarms and required controls



Domestic® Pump Series CMED-eSV™ High Pressure Boiler Feed Units

Selection Data

Application Range

Total Boiler HP	Pump Capacity in GPM (L/M)	Discharge Pressure in PSIG (Kpa)	HP	Model Number	Receiver size	Inlet / Vent / Overflow	NPSHR	Pump Model #	Impeller stages	Limits
95	15 (57)	75 (517)	1.5	.95-CMED-7.5-eSV	24X36	2-1/2, 2, 2	4.5	3SV6FD4F14	6	Duplex Only
95	15 (57)	85 (586)	1.5	.95-CMED-8.5-eSV	24X36	2-1/2, 2, 2	4.5	3SV7FD4F14	7	Duplex Only
95	15 (57)	100 (689)	2	.95-CMED-10.0-eSV	24X36	2-1/2, 2, 2	4.5	3SV8FE4F14	8	Duplex Only
95	15 (57)	120 (827)	2	.95-CMED-12.0-eSV	24X36	2-1/2, 2, 2	4.5	3SV10FE4F14	10	Duplex Only
95	15 (57)	140 (965)	3	.95-CMED-14.0-eSV	24X36	2-1/2, 2, 2	4.5	3SV11FF4F14	11	Duplex Only
95	15 (57)	160 (1103)	3	.95-CMED-16.0-eSV	24X36	2-1/2, 2, 2	4.5	3SV13FF4F14	13	Duplex Only
95	15 (57)	175 (1207)	3	.95-CMED-17.5-eSV	24X36	2-1/2, 2, 2	4.5	3SV14FF4F14	14	Duplex Only
95	15 (57)	200 (1379)	3	.95-CMED-20.0-eSV	24X36	2-1/2, 2, 2	4.5	3SV16FG4F14	16	Duplex Only
150	22 (83)	75 (517)	2	1.50-CMED-7.5-eSV	24X60	2-1/2, 2, 2	4	5SV6FE4F14	6	Duplex Only
150	22 (83)	85 (586)	2	1.50-CMED-8.5-eSV	24X60	2-1/2, 2, 2	4	5SV7FF4F14	7	Duplex Only
150	22 (83)	100 (689)	3	1.50-CMED-10.0-eSV	24X60	2-1/2, 2, 2	4	5SV8FF4F14	8	Duplex Only
150	22 (83)	120 (827)	3	1.50-CMED-12.0-eSV	24X60	2-1/2, 2, 2	4	5SV9FF4F14	9	Duplex Only
150	22 (83)	140 (965)	5	1.50-CMED-14.0-eSV	24X60	2-1/2, 2, 2	4	5SV11FG4F14	11	Duplex Only
150	22 (83)	160 (1103)	5	1.50-CMED-16.0-eSV	24X60	2-1/2, 2, 2	4	5SV12FG4F14	12	Duplex Only
150	22 (83)	175 (1207)	5	1.50-CMED-17.5-eSV	24X60	2-1/2, 2, 2	4	5SV13FG4F14	13	Duplex Only
150	22 (83)	200 (1379)	5	1.50-CMED-20.0-eSV	24X60	2-1/2, 2, 2	4	5SV15FG4F14	15	Duplex Only
205	30 (114)	75 (517)	2	2.05-CMED-7.5-eSV	30X48	3, 2, 2-1/2	7.5	5SV7FE4F16	7	Duplex Only
205	30 (114)	85 (586)	3	2.05-CMED-8.5-eSV	30X48	3, 2, 2-1/2	7.5	5SV8FF4F16	8	Duplex Only
205	30 (114)	100 (689)	3	2.05-CMED-10.0-eSV	30X48	3, 2, 2-1/2	7.5	5SV9FF4F16	9	Duplex Only
205	30 (114)	120 (827)	3	2.05-CMED-12.0-eSV	30X48	3, 2, 2-1/2	7.5	5SV10FF4F16	10	Duplex Only
205	30 (114)	140 (965)	5	2.05-CMED-14.0-eSV	30X48	3, 2, 2-1/2	7.5	5SV12FG4F16	12	Duplex Only
205	30 (114)	160 (1103)	5	2.05-CMED-16.0-eSV	30X48	3, 2, 2-1/2	7.5	5SV14FG4F16	14	Duplex Only
205	30 (114)	175 (1207)	5	2.05-CMED-17.5-eSV	30X48	3, 2, 2-1/2	7.5	5SV15FG4F16	15	Duplex Only
205	30 (114)	200 (1379)	5	2.05-CMED-20.0-eSV	30X48	3, 2, 2-1/2	7.5	5SV17FG4F16	17	Duplex Only
295	45 (170)	75 (517)	5	2.95-CMED-7.5-eSV	30X72	3, 2, 2-1/2	6	10SV4FG4F16	4	
295	45 (170)	85 (586)	5	2.95-CMED-8.5-eSV	30X72	3, 2, 2-1/2	6	10SV5FG4F16	5	
295	45 (170)	100 (689)	5	2.95-CMED-10.0-eSV	30X72	3, 2, 2-1/2	6	10SV5FG4F16	5	
295	45 (170)	120 (827)	5	2.95-CMED-12.0-eSV	30X72	3, 2, 2-1/2	6	10SV6FH4F16	6	
295	45 (170)	140 (965)	7.5	2.95-CMED-14.0-eSV	30X72	3, 2, 2-1/2	6	10SV7FH4F16	7	
295	45 (170)	160 (1103)	7.5	2.95-CMED-16.0-eSV	30X72	3, 2, 2-1/2	6	10SV8FH4F16	8	
295	45 (170)	175 (1207)	7.5	2.95-CMED-17.5-eSV	30X72	3, 2, 2-1/2	6	10SV9FJ4F16	9	
295	45 (170)	200 (1379)	10	2.95-CMED-20.0-eSV	30X72	3, 2, 2-1/2	6	10SV10FJ4F16	10	
440	60 (227)	75 (517)	7.5	4.40-CMED-7.5-eSV	36X72	4, 2-1/2, 3	5	15SV3FH4F16	3	
440	60 (227)	85 (586)	7.5	4.40-CMED-8.5-eSV	36X72	4, 2-1/2, 3	5	15SV4FH4F16	4	
440	60 (227)	100 (689)	7.5	4.40-CMED-10.0-eSV	36X72	4, 2-1/2, 3	5	15SV4FH4F16	4	
440	60 (227)	120 (827)	10	4.40-CMED-12.0-eSV	36X72	4, 2-1/2, 3	5	15SV5FJ4F16	5	
440	60 (227)	140 (965)	15	4.40-CMED-14.0-eSV	36X72	4, 2-1/2, 3	5	15SV6FK4F16	6	
440	60 (227)	160 (1103)	15	4.40-CMED-16.0-eSV	36X72	4, 2-1/2, 3	5	15SV7FK4F16	7	
440	60 (227)	175 (1207)	15	4.40-CMED-17.5-eSV	36X72	4, 2-1/2, 3	5	15SV7FK4F16	7	
440	60 (227)	200 (1379)	15	4.40-CMED-20.0-eSV	36X72	4, 2-1/2, 3	5	15SV8FK4F16	8	
700	90 (341)	75 (517)	10	7.00-CMED-7.5-eSV	42X84	4, 2-1/2, 3	5	33SV21GJF16	2/1	
700	90 (341)	85 (586)	10	7.00-CMED-8.5-eSV	42X84	4, 2-1/2, 3	5	33SV20GJF16	2	
700	90 (341)	100 (689)	15	7.00-CMED-10.0-eSV	42X84	4, 2-1/2, 3	5	33SV32GKF16	3/2	
700	90 (341)	120 (827)	15	7.00-CMED-12.0-eSV	42X84	4, 2-1/2, 3	5	33SV31GKF16	3/1	
700	90 (341)	140 (965)	20	7.00-CMED-14.0-eSV	42X84	4, 2-1/2, 3	5	33SV42GLF16	4/2	
700	90 (341)	160 (1103)	20	7.00-CMED-16.0-eSV	42X84	4, 2-1/2, 3	5	33SV41GLF16	4/1	
700	90 (341)	175 (1207)	20	7.00-CMED-17.5-eSV	42X84	4, 2-1/2, 3	5	33SV40GLF16	4	
700	90 (341)	200 (1379)	25	7.00-CMED-20.0-eSV	42X84	4, 2-1/2, 3	5	33SV52GMF16	5/2	
975	150 (568)	75 (517)	15	9.75-CMED-7.5-eSV	48X96	6, 3, 4	6	46SV21GK4F16	2/1	
975	150 (568)	85 (586)	15	9.75-CMED-8.5-eSV	48X96	6, 3, 4	6	46SV20GK4F16	2	
975	150 (568)	100 (689)	20	9.75-CMED-10.0-eSV	48X96	6, 3, 4	6	46SV32GL4F16	3/2	
975	150 (568)	120 (827)	20	9.75-CMED-12.0-eSV	48X96	6, 3, 4	6	46SV32GL4F16	3/2	
975	150 (568)	140 (965)	25	9.75-CMED-14.0-eSV	48X96	6, 3, 4	6	46SV30GM4F16	3	
975	150 (568)	160 (1103)	30	9.75-CMED-16.0-eSV	48X96	6, 3, 4	6	46SV42GN4F16	4/2	
975	150 (568)	175 (1207)	30	9.75-CMED-17.5-eSV	48X96	6, 3, 4	6	46SV41GN4F16	4/1	
975	150 (568)	200 (1379)	40	9.75-CMED-20.0-eSV	48X96	6, 3, 4	6	46SV52GP4F16	5/2	

e-SV™ Series stainless steel vertical multi-stage pumps

Why "e"-SV? "e" stands for the ultimate in energy efficiency, easy installation and economical operation - a new generation of vertical, multi-stage pumps that deliver outstanding performance and reliability. Developed based on intensive research into user needs, the new e-SV pumps are designed to extend uptime and help reduce lifecycle costs in a wide variety of demanding applications.

extra efficient

The e-SV's newly-designed hydraulics, combined with a high-efficiency motor (EISA compliant) deliver maximum efficiency.

energy saving

Pumps are among the largest users of industrial energy. Do your part to reduce CO2 emissions and your impact on the environment -- and improve your bottom line - by taking advantage of the new e-SV's lower energy requirement.

easy to maintain

The e-SV's new design allows removal of the mechanical seal without having to remove the motor, reducing repair time by up to 50%. A standard mechanical seal, wearing components, service tools and standard NEMA motors enable faster and easier maintenance and servicing. Available on pumps 10 HP and above, the patented i-ALERT™ monitor continuously measures vibration to support optimum performance.



CMED-eSV Boiler Feed Units

CMED boiler feed units are intended for medium to high pressure boilers and applications where the make-up requirements are relatively small and condensate approaches boiling temperatures. Receivers are fabricated of black steel and as an option can be galvanized or epoxy coated internally. Elevating the receiver just thirty inches assures full capacity pumping at near boiling temperatures. The table below shows the maximum allowed temperature based on NPSHR of the pump vs. the NPSHA in the condensate at the temperature shown.

NPSHR of the pump at duty point.	4	4.5	5	6	7.5
Maximum allowable temperature.	206° F	205° F	204° F	203° F	200° F

Model Designation

Model Number

AAA - BBBB - CCCC - DDD

AAA= Boiler HP ÷ 100

BBBB= Boiler Feed Receiver Style

CCCC= Pump Discharge Pressure (in PSIG) ÷ 10

DDD= Pump Series.

Example:

2.05-CMED-10.0-eSV

Denotes 205 Boiler HP, CMED-eSV Series of elevated fabricated steel receivers with dished heads and vertical multistage pumps, rated 100 psig discharge pressure using Goulds™ eSV™ series pumps.

Roughing-In Dimensions

Receiver Size (mm)	Net Storage Capacity. U.S. Gallons & Receiver Number (L)	Total Receiver Capacity	System Rating			Suggested Pump GPM	Approximate Overall Dimensions			
			Total Boiler HP	EDR X 1000	lbs/hr steam		Length Inches	Width*** Inches	Height Inches	Head & Shell Thickness
24 X 36 (610 x 914)	65 (246)	77	95	13	3200	15	62	42	67-1/2	3/16
24 X 60 (610 x 1524)	104 (394)	124	150	21	5150	22	90	42	67-1/2	
30 X 48 (762 x 1219)	141 (534)	161	205	28	6975	30	76	48	73-1/2	
30 X 72 (762 x 1829)	204 (772)	234	295	40	10100	45	100	48	73-1/2	
36 X 72 (914 x 1829)	302 (1143)	342	440	60	14950	60	102	57	79-1/2	
42 X 84 (1067 x 2134)	492 (1862)	542	715	98	24325	90	116	66	85-1/2	
48 X 96 (1219 x 2438)	712 (2695)	805	1030	142	35225	150	147-1/2	73	91-1/2	
48 X 120 (1219 x 3048)	879 (3327)	995	1275	176	43475	180	**	**	**	
60 X 108 (1524 x 2743)	1306 (4944)	1424	1895	261	64600	260	**	**	**	1/4
60 X 144 (1524 x 3658)	1697 (6424)	1854	2460	340	83925	340	**	**	**	

** by special order. Dimensions available on request

*** Varies according to pump size. Maximum dimension shown.

Not to be used for installation - Certified Dimensions on request.
CMED receiver sizes other than those shown are available.



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