

CONDENSAFE™ / BOILER TECHNOLOGY

CONDENSAFE™
PUMP

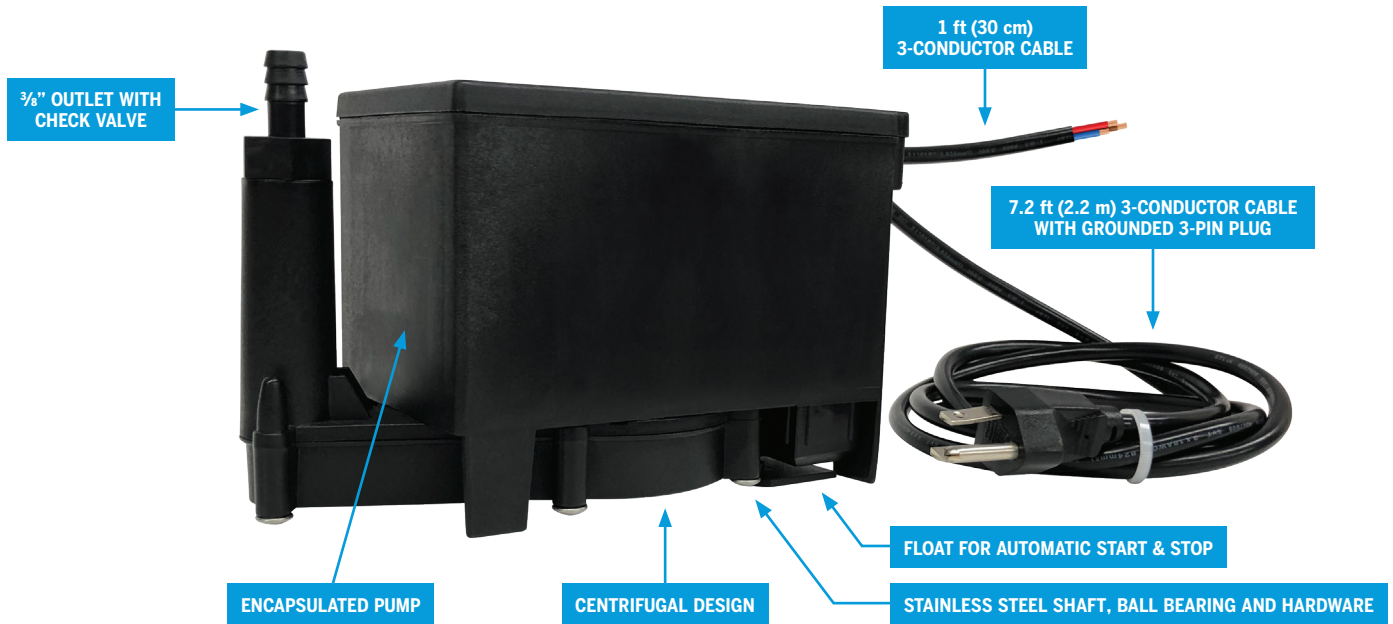


CONDENSAFE™
NEUTRALIZER
WITH PUMP

CONDENSAFE™
RESIDENTIAL
COMMERCIAL



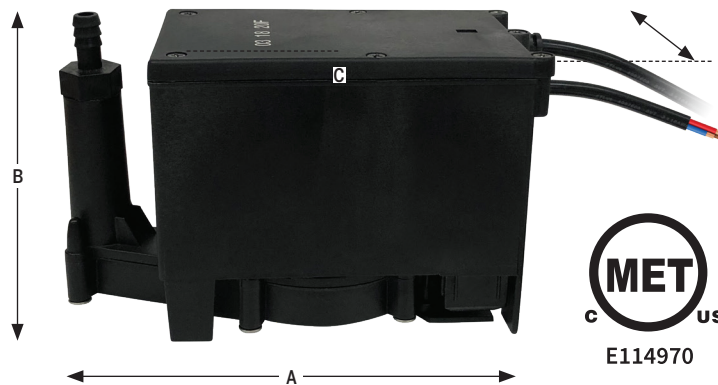
CONDENSAFE™ PUMP



WATERPROOF AND DUST PROOF PUMP

Features

- ▶ Protection class IP65 (compares to NEMA 4) waterproof and dust proof
- ▶ Pump encapsulated and fluid cooled thermally protected
- ▶ Ultra low noise
- ▶ Centrifugal pump design
- ▶ Strong nylon glass plastic pump housing (acid resistant, ≥ Ph3)
- ▶ Maximum water temperature: 158°F (70°C)
- ▶ Automatic start and stop operation
- ▶ 7.2 ft (2.2m) 3-conductor cable with grounded 3-pin plug
- ▶ Compact, space saving construction
- ▶ Integrated check valve
- ▶ Non-submersible pump
- ▶ Integrated safety switch, NO or NC



Technical Data

Model#	Dimensions						Power			Discharge	Cord	Shut off ft/m	Flow GPH/LPH					Weight	
	A		B		C		Volt	Hz	Amps				1'	5'	10'	15'	20'	lbs	kg
	in	mm	in	mm	in	mm													
CSP20	6.7	170	3.9	100	3.1	80	120	60	2.0	3/8" I.D.	7.2'	20/6.1	114/430	108/410	87/330	58/220	20/75	3.0	1.4

Operating point start ± 34 mm, stop ± 13 mm. Alarm 40 mm.

CONDENSAFE™ NEUTRALIZER WITH PUMP

WATERPROOF AND DUST PROOF PUMP

MECHANICAL ROOM ADDITIONAL PROTECTION, CONDENS SAFE with pump drives neutralized water to the nearest drain.

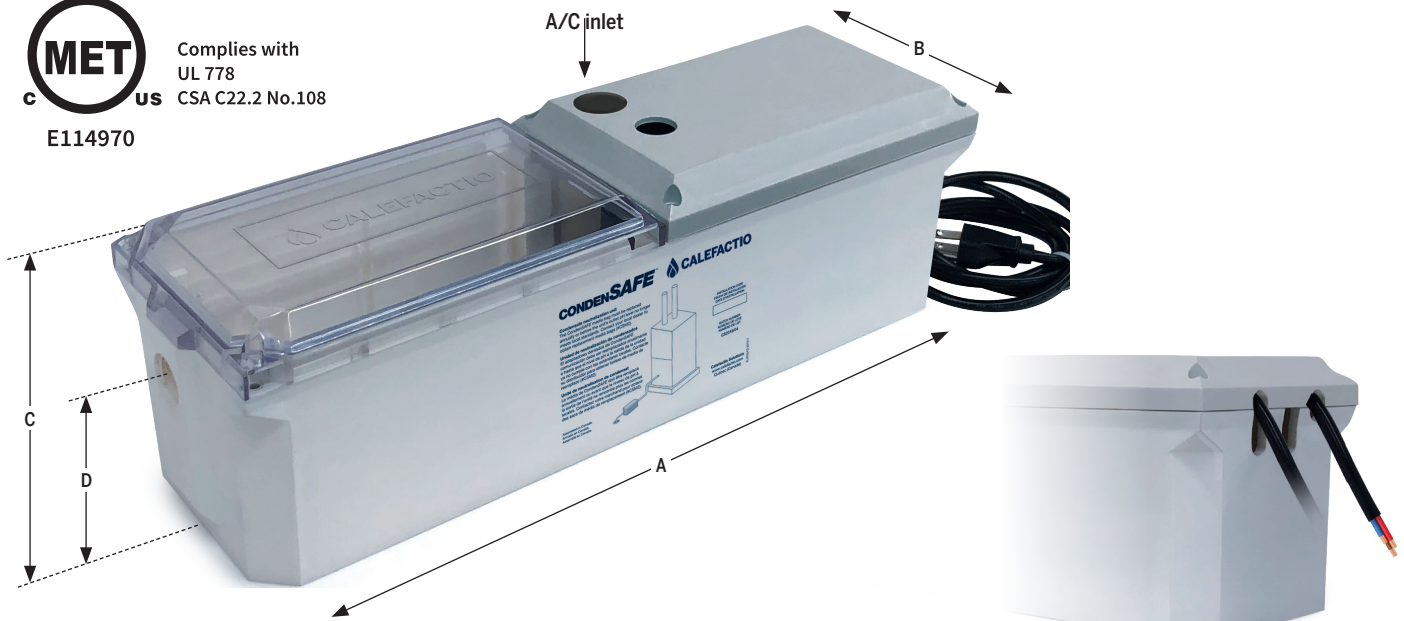
Features

- ▶ All-in-one
- ▶ 120V, 60 Hz, 7.2 ft (2.2 m) Power cord
- ▶ 20', 3/8" tubing included
- ▶ AC inlet port included
- ▶ Easy Maintenance
- ▶ Preserve your drain from corroding
- ▶ Non return valve
- ▶ Compact, space saving construction
- ▶ Safety switch 1 ft (30 cm) NO or NC



Complies with
UL 778
CSA C22.2 No.108

E114970



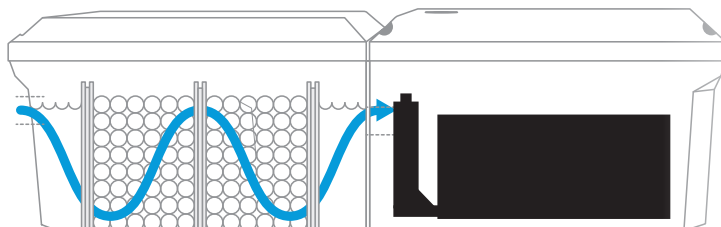
A/C inlet
Discharge outlet

Dated media: allows you to replace it only when needed. Preserve your drain from corroding.

Technical Data

Length (A)		Width (B)		Height (C)		Inlet (D)		Inlet	Outlet
in	cm	in	cm	in	cm	in	cm	1/2" FNPT	3/8" I.D.
15 3/4	40	5	12.7	4 3/4	12	3	7.6		

Model#	Feet of head		Amp	Pump model	Sizing								Weight	
	ft	m			1 section				2 sections				lbs	kg
					MBH	kWh	Gal/h	L/H	MBH	kWh	Gal/h	L/H		
CSNP20	20	6.0	2.0	CSP20	525	151	2.1	8	1050	308	4.2	16	6.8	3.1



Option

#CAL-AL120 Alarm panel: Easy to install, electric and battery operated alarm panel with loud warning sound, activates and helps prevent possible overflow or water damages in the mechanical room. 6' (1.8 m) power cord with 120 V plug, 12 VAC control circuit with 9 Volt battery back-up (battery not included), power and alarm indicator lights, silence and test buttons.



CONDENSAFE™ RESIDENTIAL

The unit is divided in three sections and the engineered media is contained in bags that you can replace easily when needed. These media bags are the only ones in the industry to have date labels so the user knows exactly when it's time to replace them. Use only the sections you need! As the unit is divided in three sections, you can place one, two, or three bags in the unit, depending on the volume of condensate that needs to be treated.

Features

- ▶ No by-pass necessary
- ▶ No messy media replacement
- ▶ No disconnection needed to replace media
- ▶ The only condensate neutralizer that can be hard piped

- ▶ Dated media in a bag



Engineered media in bags

Unit max condensate flowrate*
6.3 GPH (24 LPH)



Technical data

Model#	Length (A)		Width (B)		Height (C)		Inlet (D)		Outlet (E)		Inlet/Outlet ½" FNPT
	in	cm	in	cm	in	cm	in	cm	in	cm	
CS6	12	30.5	4¾	12	5½	14	2½	6	3	7.6	

Sizing											
1 section				2 sections				3 sections			
MBH	kWh	gal/h	L/h	MBH	kWh	gal/h	L/h	MBH	kWh	gal/h	L/h
525	151	2.1	8	1050	308	4.2	16	1575	461	6.3	24

*Verify condensate flowrate on your appliance. In general, 500,000 BTU/hr at 92% efficiency should generate around 1.6 gal/h.

CONDENSAFE™ COMMERCIAL

CondensSAFE's commercial version allows users to neutralize acidic condensate in boilers with a 3,500 MBH capacity (1,026 kWh). Equipped with a stainless steel plate, each unit is made of rugged rotomolded plastic containing Calefactio's own engineered media. Its modular design means up to 3 CondensSAFE units can be installed in series, tripling treatment capacity to 10,500 MBH. Commercial CondensSAFE units are designed to optimize raw condensate flow. A double walled reactor features additional buffer volume for preneutralization. Preneutralized condensate flows up vertically through the reactive media. A layer several centimetres thick of neutralized condensate is always present on the surface of the media, minimizing direct gas exchange between the ambient air, containing CO₂, and the media.

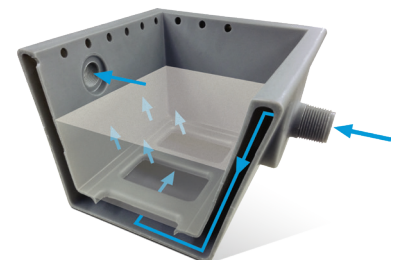
This flow method features a number of major advantages

- ▶ Better spatial distribution of condensate throughout the reactor
- ▶ Less risk of media cementation
- ▶ Better drainage with no loss of CO₂-enriched ambient air
- ▶ Extended product service life
- ▶ Better contact between the condensate and the neutralizing media
- ▶ Reduces likelihood of channeling

Model#	Capacity	Max. treatment vol. per hour		Height		Footprint		Connection	
		gal	L	in	mm	in	mm	Inlet	Outlet
CSC28	3500 MBH • 1026 kWh	28	106			16¼ × 10½	414 × 267	1 in MNPT	1 in FNPT
2XCSC28	7000 MBH • 2052 kWh	56	212	7.5	190	16¼ × 23¾	414 × 603		
3XCSC28	10500 MBH • 3078 kWh	84	318			16¼ × 37	414 × 940		



2X CSC28



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