

Product Data

Hydronic System Water Buffer Tank

Model MSCA20S2D3CMW



NOTES:

Images are for illustration purposes only. Actual models may differ slightly.

Benefits

Steel buffer tank for heat/cool generators (heatpump) systems with or without backup heat generators

Benefits at a glance:

- Connections for primary heat/cool generator
- Connections for backup heat generator
- Standby losses minimized by highly effective HCFC free foam.
- Easy transport into mechanical room due to low weight and compact construction.
- Stackable when used in conjunctions with CVWC53S2D3CMW, CVWC66S2D3CMW, CVWC79S2D3CMW Domestic Hot Water storage tanks.

Cross Section



Product may not be exactly as shown

Legend

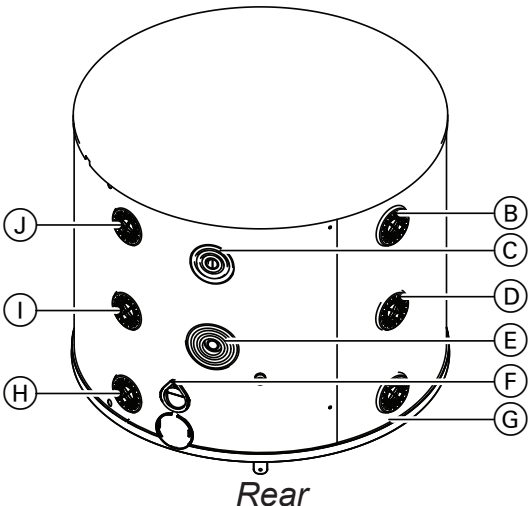
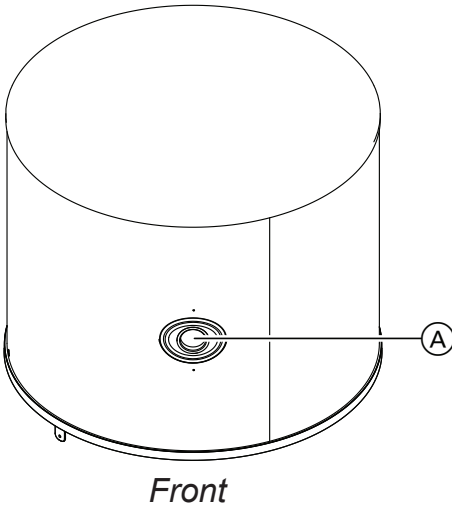
- 1** Steel tank body
- 2** Highly effective all-round thermal insulation
- 3** Stackable in conjunction with
CVWC53S2D3CMW, CVWC66S2D3CMW,
CVWC79S2D3CMW DHW tanks

Technical Data

MSCA20S2D3CMW

Buffer Tank Capacity	USG (l)	20 (75)
Standby heat loss qB,S at 45K (81°F) temperature differential	kWh/24hr	0.83
Height	in. (mm)	21 (533)
Width	in. (mm)	26-¾ (675)
Length	in. (mm)	26-½ (668)
Weight	lbs. (kg)	110 (50)
Minimum Water Temperature	°F (°C)	45 (7)
Maximum Water Temperature	°F (°C)	230 (110)
Maximum Tank Working Pressure	PSI (kPa)	45 (310)
Test Pressure	PSI (kPa)	70 (480)

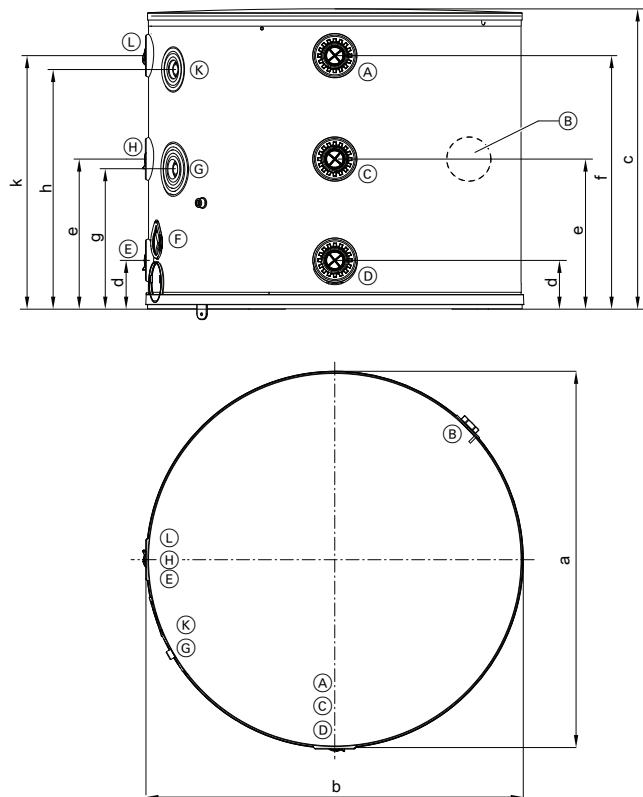
Tank Connections



Legend

- (A) 1-½ Inch NPT female thread
- (B) 1 Inch NPT female thread, heating supply from backup heat generator
- (C) Ø⅝ in. (Ø16mm) temperature top sensor
- (D) 1 Inch NPT female thread, supply from primary heat/cool generator
- (E) Ø⅝ in. (Ø16mm) temperature sensor, bottom
- (F) Injection process plug (do not open or connect anything)
- (G) 1 Inch NPT female thread, return to primary heat/cool generator, lowest point/drain
- (H) 1 Inch NPT female thread, system return
- (I) 1 Inch NPT female thread, return to backup heat generator
- (J) 1 Inch NPT female thread, system supply, highest point/ventilation

Dimensions



Legend

- Ⓐ Heating supply from backup heat generator
- Ⓑ 1-1/2 Inch NPT female thread
- Ⓒ Supply from primary heat/cool generator
- Ⓓ Return to primary heat/cool generator, lowest point/drain
- Ⓔ System return
- Ⓕ Injection process plug (do not open or connect anything)
- Ⓖ Ø5/8 in. (Ø16mm) temperature sensor, bottom
- Ⓗ Return to backup heat generator
- Ⓚ Ø5/8 in. (Ø16mm) temperature top sensor
- Ⓛ System supply, highest point/ventilation

Dimensions in. (mm)

a	26-1/4	(668)
b	26-3/4	(675)
c	21	(533)
d	3-1/2	(87)
e	10-1/2	(267)
f	17-3/4	(450)
g	10	(251)
h	17	(429)
k	17-3/4	(450)

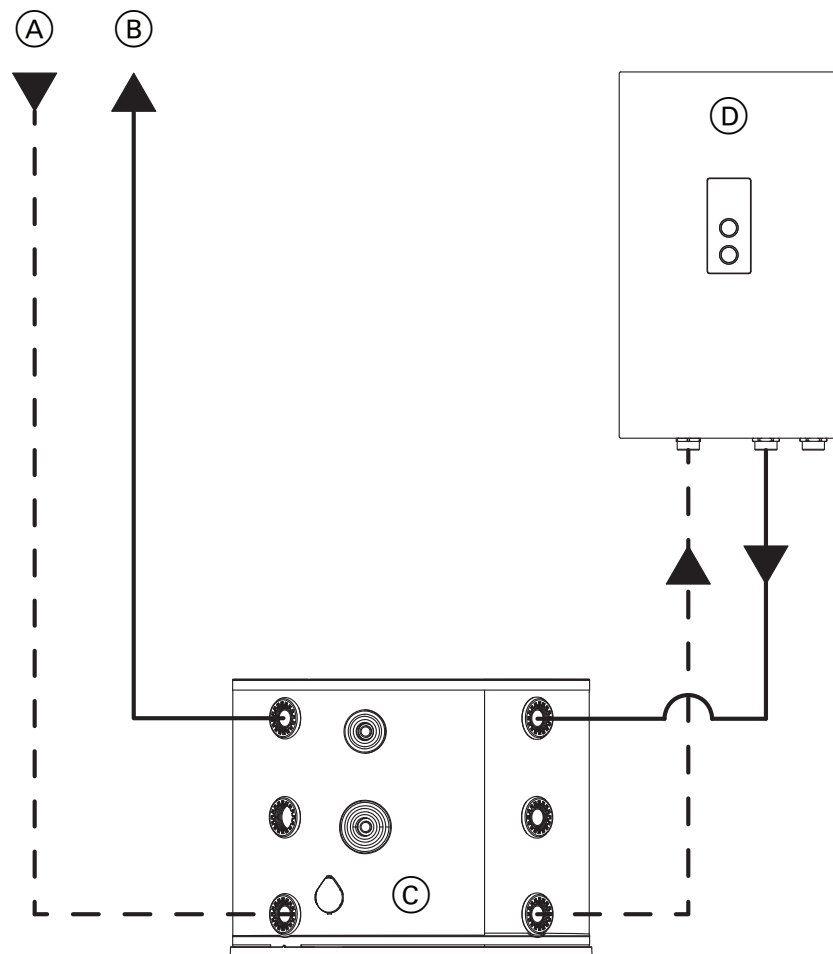
Standard Equipment

MSCA20S2D3CMW

- Integral welded sensor well for tank temperature sensor [2 wells each Ø5/8 in. (Ø16mm)]
Temperature and pressure relief valve
- Technical literature set
- Adjustable feet
- Fitted thermal insulation

Color of the epoxy-coated sheet steel casing:
white.

System Connections



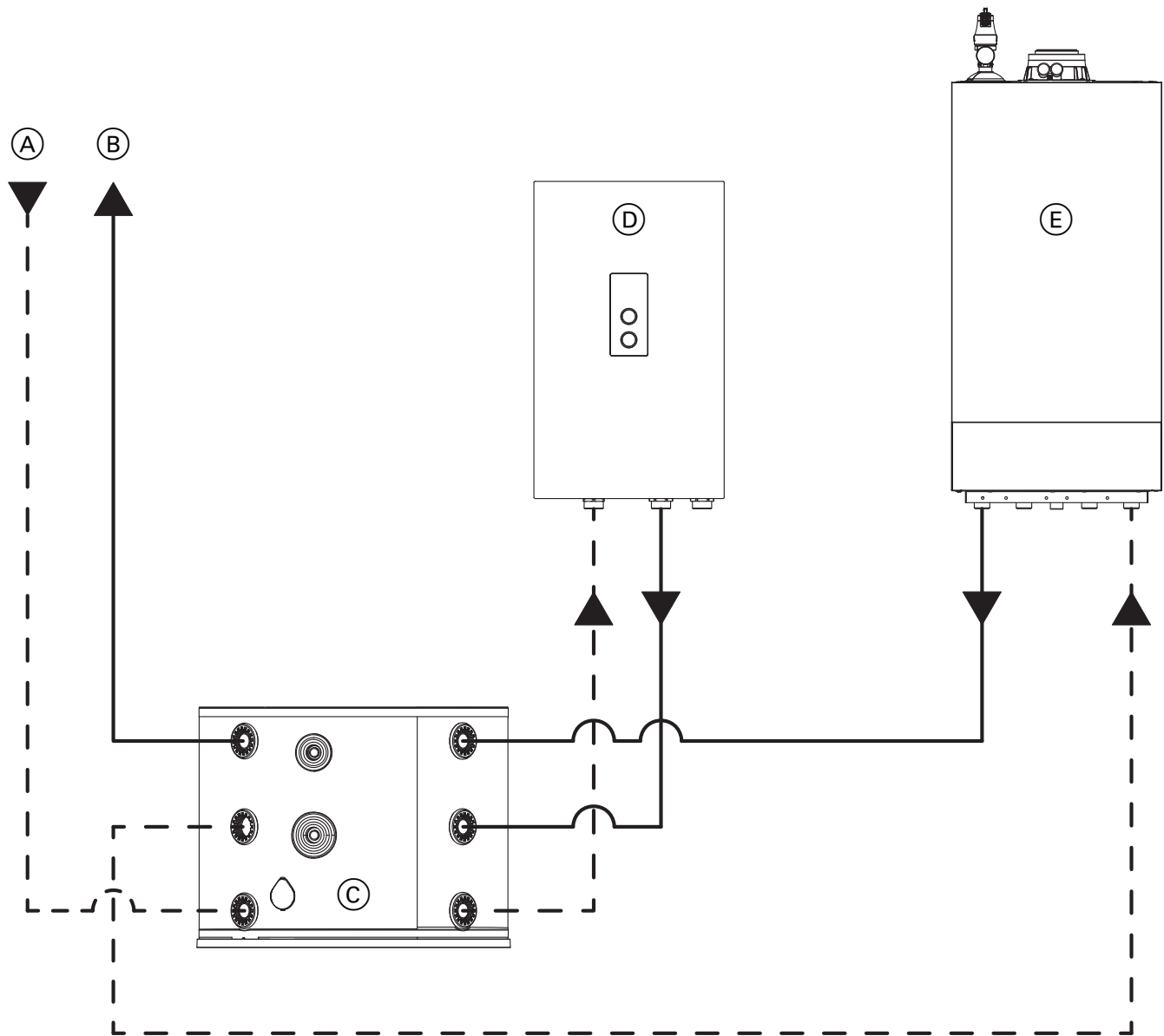
Legend

- (A) System Return
- (B) System Supply
- (C) MSCA20S2D3CMW Buffer Tank
- (D) Primary heat/cool generator (heatpump)

IMPORTANT

This is a simplified conceptual drawing only! Piping and necessary componentry must be field verified. Proper installation and functionality in the field are the responsibility of the contractor.

System Connections With Back-up Heat Generator



Legend

- Ⓐ System Return
- Ⓑ System Supply
- Ⓒ MSCA20S2D3CMW Buffer Tank
- Ⓓ Primary heat/cool generator (heatpump)
- Ⓔ Backup heat generator

IMPORTANT

This is a simplified conceptual drawing only! Piping and necessary componentry must be field verified. Proper installation and functionality in the field are the responsibility of the heating contractor.

