

TECHNICAL SERVICE BULLETIN

EFFECTIVE DATE
August, 1 2015

HIGH-EFFICIENCY PUMPS FOR CE-MARKED CSM MODELS

OVERVIEW

AFFECTED EQUIPMENT

All HOTSTART CSM models that bear the European Commission-designated CE (Conformité Européenne) mark, intended for distribution or use in the EEA (European Economic Area).

BULLETIN SCOPE

Notification of pump and pump motor component change.

BACKGROUND

To promote responsible use of energy resources, the European Commission is changing the requirements for pumps and pump systems bearing the CE mark, per Commission Regulation (EU) No. 622/2012. In order to maintain compliance with EU safety, health, and environmental protection requirement, HOTSTART will sell CE-marked CSMs with a new, high-efficiency pump beginning **August 1, 2015**. After this date, high-efficiency pumps will become standard components for CSM models intended for use or sale in the EEA, or that otherwise require the CE mark.

Until **January 1, 2020**, Customers may continue to place orders for standard pumps as replacement components for CSMs purchased before August 1, 2015. After January 1, 2020, standard pumps will no longer be available as replacement parts for CE-marked CSM models in the field.

The new pump specifications, including power source requirements, flow, and ingress protection remain equivalent to current CSM pump specifications; they are identical in form and function. However, all new high-efficiency pumps are installed via union-style connections only. Union-style pump dimensions are slightly different than their flange-style equivalents. When converted, this may result in an approximate 1.5 inch (38 mm) decrease in the CSM overall height – specifically the distance from the base of the unit to the pump outlet. Customers converting from a flange-style pump to a union-style pump may need to reroute or adjust the CSM return line plumbing to account for the height decrease. Other specifications, such as outlet size, are unchanged.



Figure 1. The HOTSTART CSM, showing a flange-style, pump. CSM configuration may vary.

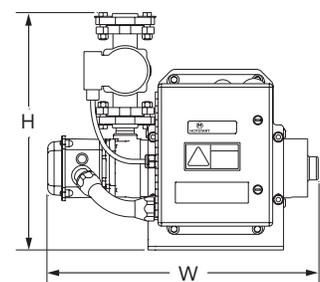


Figure 2. CSM model, showing flange-type, standard pump. If a union-style, high-efficiency pump is installed, the model's height (H) will decrease by approximately 1.5 inches (38 mm).

CLARIFICATION & REFERENCE

To clarify the pump component change for CE-marked CSMs, the following are answers to commonly asked questions:

- We intend to purchase and install CE-marked CSM heating systems but would prefer to install systems with standard pumps and keep an inventory of standard pumps available as replacement parts. When will the standard pumps be no longer available as an option?

*CE-marked CSM heating systems with standard pumps will be available until **August 1, 2015**. Standard pumps will be available as a replacement part for CE-marked CSMs until **January 1, 2020**.*

- We're performing a pump conversion on a CE-marked CSM heating system. Are there any changes to the pump wiring?

CSM pump motor wiring varies depending on the CSM's configuration. Additionally, high-efficiency pumps will use a different type of wire connector than standard pumps, requiring a different power cord. To ensure all CE-marked CSMs can be converted from a standard pump to a high-efficiency pump, a replacement pump power cord and installation instructions will be included in the replacement high-efficiency pump kit.

- We have a CE-marked CSM heating system installed on one of our generator sets in the field. How can I tell if the CSM system has a high-efficiency pump?

All pump specifications are listed on the pump's identification label, including efficiency rating and speed. High-efficiency pump labels will display an EEI (energy efficiency index) of less than or equal to 0.23. See Fig. 3.

- We have a union-style standard pump and would like to convert the CSM to a newer high-efficiency pump. Do I need to make any changes to the heating system?

All high-efficiency pump conversions will require the installation of a replacement pump power cord. However, the replacement high-efficiency, union-style pump itself is identical to the current union-style pump in form fit and function. All of the CSM model's operating specifications, including dimensions, will remain unchanged. Only conversions from a flange-style pump to a union-style pump will result in CSM dimension changes.

- We have flange-style pumps on our CSM systems and would like to convert to high-efficiency pumps. What changes do we need to make to the heating systems?

All high-efficiency pump conversions will require the installation of a replacement pump power cord. Additionally, operators and technicians converting from a flange-style pump to a union-style pump may need to account for the 1.5 inch (38 mm) decrease in CSM height. This may include installing a new return hose or rerouting an existing return hose. To ensure the CSM is plumbed properly, see the [HOTflow CSM Installation Instructions](#) or the [HOTflow Installation Do's and Don'ts](#).

- We have an inventory of CSM heating systems that bear the UL (Underwriters Laboratories) mark instead of the CE mark. Do we need to convert these CSMs' pumps?

All HOTSTART CSMs are manufactured to meet either CE or UL requirements. All CE-marked CSMs manufactured after August 1, 2015 must incorporate high-efficiency pumps. If your CSM heating models bear other regulatory marks (such as UL), they are not required to have a high-efficiency pump beyond this date.



Figure 3. The HOTSTART CSM, showing pump label. This label displays pump information, including efficiency rating.

CLARIFICATION & REFERENCE CONTINUED

- Which CE-marked CSMs with flange-style pumps are affected by this component change? Will we need to order CSMs using a new part number?

If you are ordering a CSM that previously incorporated a flanged-style pump, you may need to reference a new part number for the high-efficiency union-style pump. The following is a listing of part numbers for CSMs with standard, flange-style pumps. If the CSM model you are referencing does not appear on this list – or no union-style version is shown – contact HOTSTART directly for further assistance.

STANDARD FLANGE-STYLE	HIGH-EFFICIENCY UNION-STYLE
CSM1030C-000	CSM1030J-5A0
CSM1060C-000	CSM1060J-5A0
CSM1090C-000	CSM1090J-5A0
CSM1120C-000	CSM1120J-5A0
CSM3030A-000	CSM3030A-5A0
CSM3030C-000	–
CSM30600-000	CSM30600-5A0
CSM30603-000	CSM30603-5A0
CSM3060A-000	CSM3060A-5A0
CSM3060A-001	–
CSM3060C-000	–
CSM30900-000	CSM30900-5A0
CSM30900-010	CSM30900-5A0
CSM30903-000	CSM30903-5A0
CSM3090A-000	CSM3090A-5A0
CSM3090A-0F0	CSM3090A-5F0
CSM3090A-400	CSM3090A-9A0

STANDARD FLANGE-STYLE	HIGH-EFFICIENCY UNION-STYLE
CSM3090C-000	–
CSM31200-000	CSM31200-5A0
CSM31200-010	CSM31200-5A0
CSM31200-0F0	CSM31200-5F0
CSM31203-000	CSM31203-5A0
CSM3120A-000	CSM3120A-5A0
CSM3120A-0F0	CSM3120A-5A0
CSM3120A-400	CSM3120A-9A0
CSM3120E-000	–
CSM4030A-000	–
CSM4060A-000	CSM4060A-5A0
CSM4090A-000	CSM4090A-5A0
CSM4120A-000	–
CSM3060F-001	CSM3060F-5A0
CSM3090F-001	CSM3090F-5A0
CSM3120D-000	CSM3120D-5A0

NOTE: Customized CSM and OEM-specific CSM part numbers will be revised and updated to include the new high-efficiency union-style pump as of August 1, 2015. Current CSM part numbers that incorporate a union-style standard pump will also be revised.

QUESTIONS & ASSISTANCE

If you have questions about this component change or need further assistance installing or wiring your CSM's high-efficiency pump, please contact HOTSTART Customer Service at **509.536.8660** or sales@hotstart.com.

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