## Technical features



| Type | CS 100 | CS 200 | CS 400 | CS 800 | CS1100 | CS 1500 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Refrigerant | R404A/NH3 | R404A/NH3 | R404A/NH3 | R404A/NH3 | R404A/NH3 | R404A/NH3 |
| $\mathbf{A}(\mathrm{mm})$ | 1.320 | 1.320 | 1.360 | 1.750 | 1.990 | 2.410 |
| $\mathbf{B}(\mathrm{~mm})$ | 750 | 750 | 900 | 900 | 900 | 900 |
| $\mathbf{C ( m m )}$ | 1.870 | 1.870 | 2.020 | 2.020 | 2.020 | 2.020 |
| $\mathbf{D}(\mathrm{~mm})$ | 760 | 760 | 800 | 800 | 800 | 800 |
| $\mathbf{E}(\mathrm{~mm})$ | 310 | 310 | 310 | 310 | 310 | 310 |
| $\mathbf{F}(\mathrm{~mm})$ | 230 | 230 | 230 | 230 | 230 | 230 |
| Electric power unit to be connected |  |  |  |  |  |  |
| to central refrigeration plant $(\mathrm{kW})$ |  |  |  |  |  |  |

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## Continuous ice cream freezers <br> CS series

To produce all kinds of ice cream - stiff and dry for extruded products,
smooth for cups and cones,

- soft and flowable for mold products.


## Features

Designed to give you more control of critical process parameters.

- Offers different options which facilitate your ice cream production.
- Self contained freon refrigeration unit; or Freon/NH3 system to be connect with central refrigeration plant.
- Designed to reduce maintenance and enhance cleanability; all parts in contact with the product can be cleaned via your CIP system.
- All stainless steel frame, side panels and doors.


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## Continuous ice cream freezers - CS series

## Dasher choices

SOREN offers you a choice of two dashers, suited to all varieties of frozen product formulations, viscosities,textures and overruns. Both feature rugged stainless steel scraper blades.

## Type 30 standard Open Dasher

Suitable for most frozen desserts.
Displaces approximately 30\% of the cylinder volume.


Type 80 Optional Solid Dasher
For applications requiring stiffer, dryer appearing ice cream. Displaces 80\% of the cylinder volume, resulting in rapid development of small and uniform ice crystals.


## Overrun control

Manual: by metering the air with visual air flow indicator and controlling by means of a manual throttling valve.
Automatic (optional): based on a mass flow meter. The air is proportioned into the mix by an air mass flow meter at a pre-set ratio. The overrun will automatically be kept constant, when changing the mix flow.

## Viscosity control

Based on the viscosity-dasher motor load ratio.
Manual: the operator controls the dasher motor load by regulating the barostatic valve, through a knob placed in the front panel

Automatic: by setting the desired value of the dasher motor load on the viscosity control instrument, which controls the barostatic valve.


Control pane/ with 4 automatic functions

## CS Freezers production range

| Model | $\mathrm{lph}(\min -\mathrm{max})^{*}$ |
| :---: | :---: |
| CS 100 | 20-100 |
| CS 200 | 40-200 |
| CS 400 | 80-400 |
| CS 800 | 140-780 |
| CS 1100 | 200-1060 |
| CS 1500 | 300-1500 |
| *Capacitie |  |

Continuous ice cream freezers - CS series

## Standard features for all models:

All AISI 304 st. steel frame with sliding doors
Chrome-plated nickel cylinder, polished to mirror finish
Dasher type 30 (open),AlSI 316 St. steel
St. steel scraper blades

- Mix pump: rotary type powered with variable speed motor drive
- Self-contained refrigeration unit:
- R404A compressor
- condenser with pressure controlled water valve
- full flooded refrigeration system
- back pressure valve for evaporation pressure contro - evaporator made of St. steel
- Product back pressure valve, for manual cylinder pressure control
- Manual overrun control system with visual air flow indicator
- Control and power panel containing
- main switch
- start/stop push buttons
- mortor starters for all motors
- motor overload protections
- motor indicator for dasher
-load indicator for dasher motor with two level
freeze-up protection
- emergency switch
- Companion sanitary ferrules and clamps
- 2 copies Instructions and Parts Manual


## Pump by pass for CIP

Manual on models CS100 - CS200 - CS400

- Air operated on models CS800 - CS1100- CS1500


## Semi-hermetic compressor:

- Piston type on models CS100-CS200-CS400CS800
- Screw type on models CS1100-CS1500


## Optional features and equipment:

- Ammonia or freon refrigeration system, designed for the connection with central refrigeration plant.
Freon refrigeration plant with thermostatic expansion valve, instead of freon full flooded system.
- Dasher type 80 (solid) instead of 30 (open)

Rotary pump at product outlet, instead of back pressure valve

- Air mass flow meter for automatic overrun contro
- Automatic cylinder pressure control (requires two pumps)

- Automatic ice cream viscosity control
- Dasher speed regulator
- Mix and ice cream temperature indicator
- Mix flow regulation with magnetic flow meter
- Preaeration of mix
- Built-in air compressor
- PED refrigerant pressure vessel certification (CS200 - CS400-CS800-CS1100-CS1500)
- Additional Instructions and Parts Manuals
- Spare parts for two years


[^0]:    Soren srl
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    20094 Corsico (Mi)
    taly

