

MILK COOLING

FIRST.SV RAINBOW 2

- ▶ 11,000 to 40,000 L
- ▶ With direct expansion
- ▶ For outdoor installation

◆ TANK

- Vertical cylindrical double shell
- CFC-free high-density polyurethane foam insulation, with stainless steel (AISI 304) inner and outer tanks
- Evaporators on tank bottom and shell, with laser-welded full-flow technology
- Floor-standing on stainless steel skirt

◆ EQUIPMENT

◆ DOME:

- Gearmotor stirring
- 2 air vents with insect screen and rain cap
- Handling rings (empty tank)
- Safety ring

◆ BOTTOM OF SHELL:

- Autoclave door 410x505 mm, with opening safety device
- Integrated RAINBOW 2 automatic washing system
- Manual sampling valve
- Drain valve Ø 76

◆ STIRRING AND HOMOGENIZATION

- Off-center pendulum type with tank bottom guidance
- Low-speed gearmotor (26 rpm)
- Programmable automatic cyclic stirring
- Homogenization of milk fat in less than 2 minutes in accordance with ISO 5708 and EN 13732 standards

◆ COOLING EQUIPMENT

- SCROLL compressors with low power consumption
- Power adapted to required performance, depending on milk flow and milk pre-cooling equipment
- Solenoid valve to prevent refrigerant migration when compressor stops
- Stainless steel cover on cooling controller
- Emergency cold control (on washing cabinet)
- Installation with separate units
- With separate unit(s) (all models),
- Without cooling unit (all models), refrigerant according to country,
- Compliant with F-Gas regulations.

◆ ELECTRICAL EQUIPMENT

- Power box mounted on the cooling unit frame
- Standard power supply: 400V / 3Ph + N / 50 Hz

◆ REGULATION AND WASHING

- Control unit RAINBOW 2 with emergency cooling control (see product data sheet ref. WP-1K-F51)
- High configuring flexibility for conventional and robotic milking

◆ STANDARDS

- Complies with international standard ISO 5708 and European standard EN 13732.
- Complies with European EC directives.
- Gauging certified by the French Metrology Service

◆ OPTIONS

- **Certified milk volume display** with millimeter external level ruler and FIRST LEVEL certified electronic gauge
- **Indicative milk volume display** with pressure sensor
- ◆ **Tank:**
 - Other reduction diameters and thread types on the drainage system
 - Ø 38 or Ø 51 non-return valve to be connected to drain for milk inlet from below
 - Discharge nozzle washing
 - O and C position detection for drain valve
 - Draining equipment for milking robot(s)
- ◆ **Tank accessories:**
 - Dairy connection air-lock
 - Hooped ladder
 - Ladder bracket
 - Collected vent
 - Stainless steel cover on stirrer motor
 - DEFINOX automatic sampling valve
 - KEOFITT manual sampling valve (only with DN100 drain)
- ◆ **Refrigeration assembly:**
 - Milk pre-cooling equipment
 - ECOTEMP energy recovery unit
 - Heat exchanger(s) for chilled water cooling
- ◆ **Washing:**
 - Adding disinfectant phase to automatic washing
 - Waste wash water sorting
 - Power heat (in-line heater)
- ◆ **Electrical connection:**
 - 20 m power supply cable
 - Other voltages and frequencies on request

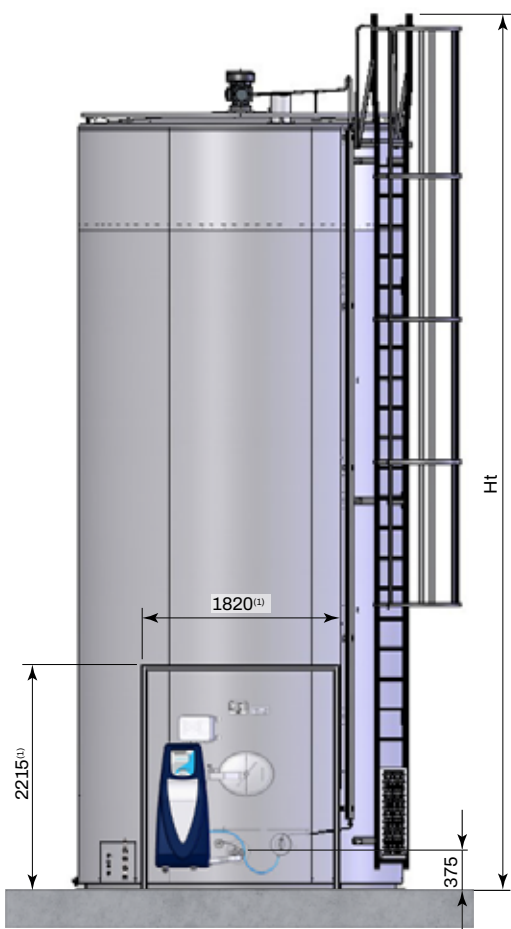
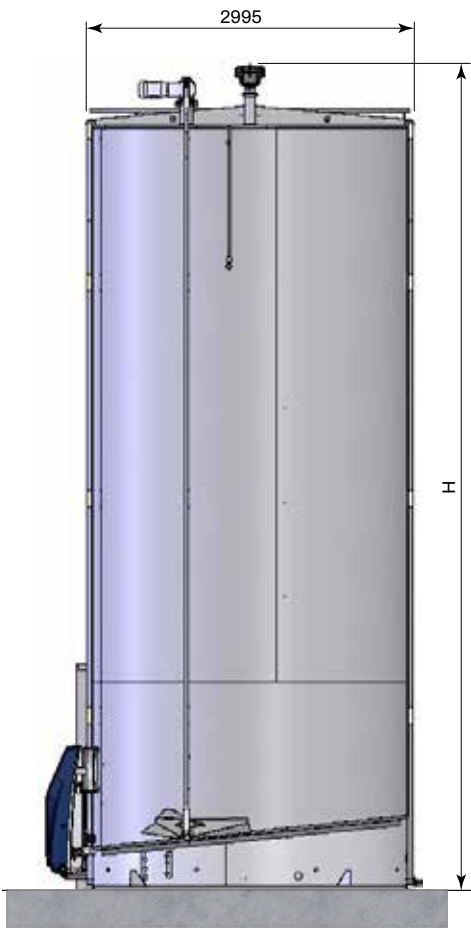


Model shown: FSV 40,000
Photo non-contractual

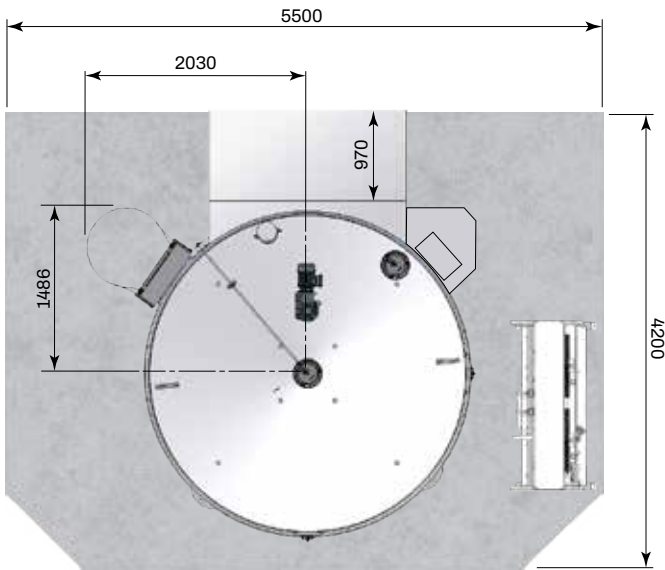




CHARACTERISTICS AND DIMENSIONS (in mm, weight in kg) 3.0 version



Concrete foundation for the Silo milk cooler 3.0



- (1) Wall opening dimensions
- (2) Refrigeration unit in casing
- (3) Robots 120 l/hour each - 2400 l/day per robot

Model / Nominal volume	11 000	15 000	20 000	25 000	30 000	35 000	40 000
H Total height	3040	3585	4375	5170	5965	6755	7555
Ht Totale height (with ladder)	3640	4185	4975	5770	6565	7355	8155
Tank weight	1740	1900	2100	2300	2500	2700	2950
Load on the ground in kg/cm² (tank full)	0,22	0,29	0,39	0,48	0,57	0,66	0,75
SPECIFICATIONS : 4 milkings equipment to cool the milk down from 20°C to 4°C with a 32°C ambient temperature							
Condensing units (hp.)	2 x 4	2 x 5	2 x 7	13 + 7 (2)	13 + 8 (2)	2 x 7 + 8 (2)	
Weight of the condensing units	180	190	203	345	347	345	
SPECIFICATIONS : 6 milkings equipment to cool the milk down from 35°C to 4°C with a 32°C ambient temperature							
Condensing units (hp.)	2 x 5	2 x 7	13 + 7 (2)	2 x 7 + 8 (2)			
Weight of the condensing units	190	203	345	345			
SPECIFICATIONS : 6 milkings equipment to cool the milk down from 20°C to 4°C with a 32°C ambient temperature							
Condensing units (hp.)	2 x 3,5	2 x 4	2 x 5	2 x 6	13 + 4 (2)	13 + 5 (2)	13 + 6 (2)
Weight of the condensing units	165	180	190	190	314	319	319
SPECIFICATIONS robot refrigeration assembly(3)collection 24 hours to cool the milk down from 20°C to 4°C with a 32°C ambient temperature							
Number of milking robots	4 robots	6 robots	8 robots	10 robots	12 robots		
Refrigeration unit (ch)	2 x 5	2 x 5	2 x 5	2 x 6	2 x 7		
Weight of the refrigeration unit (kg)	190	190	190	190	203		
SPECIFICATIONS robot refrigeration assembly(3)collection 48 hours to cool the milk down from 20°C to 4°C with a 32°C ambient temperature							
Number of milking robots	2 robots	3 robots	4 robots	5 robots	6 robots	7 robots	8 robots
Refrigeration unit (ch)	2 x 5	2 x 5	2 x 5	2 x 5	2 x 5	2 x 5	2 x 5
Weight of the refrigeration unit (kg)	190	190	190	190	190	190	190
SPECIFICATIONS robot refrigeration assembly(3)collection 72 hours to cool the milk down from 20°C to 4°C with a 32°C ambient temperature							
Number of milking robots	-	2 robots	2 robots	3 robots	4 robots	4 robots	5 robots
Refrigeration unit (ch)	-	2 x 5	2 x 5	2 x 5	2 x 5	2 x 5	2 x 5
Weight of the refrigeration unit (kg)	-	190	190	190	190	190	190

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