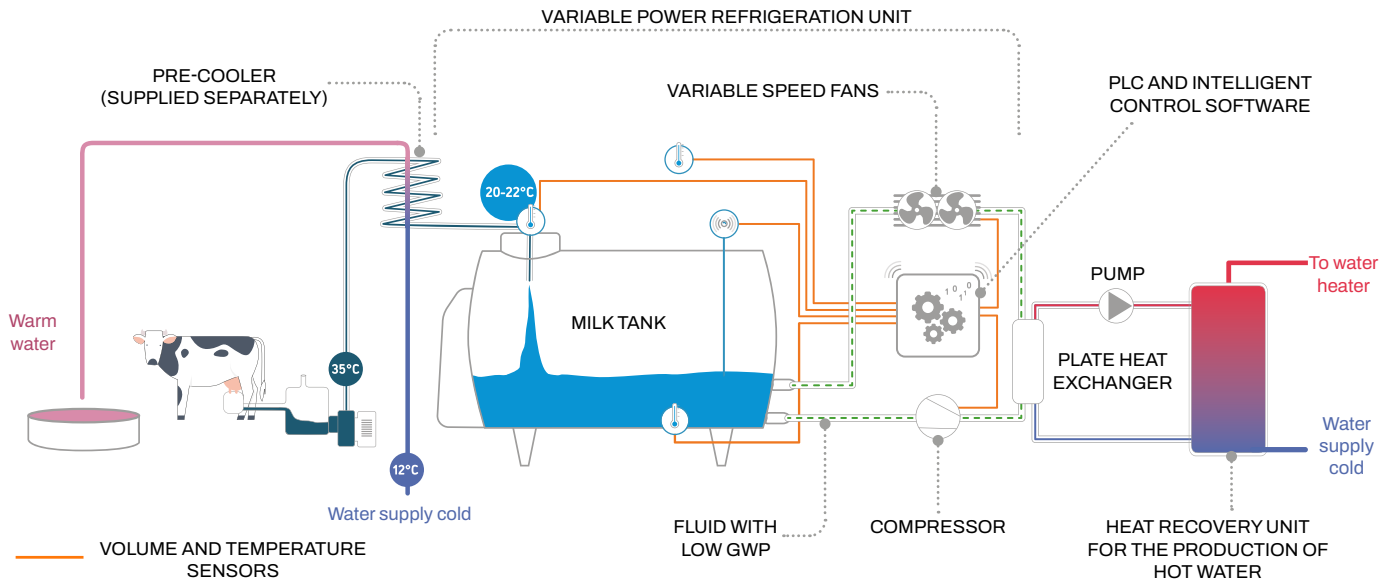


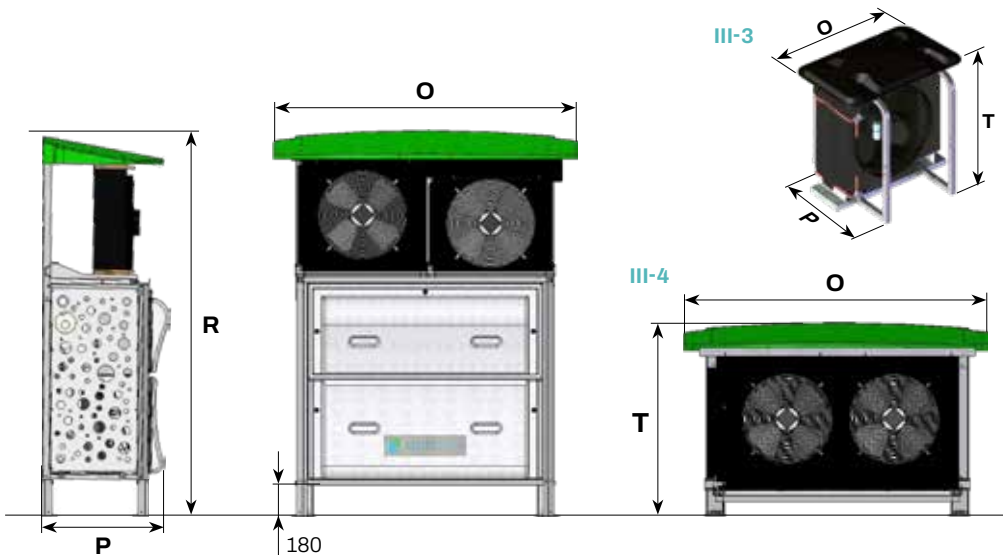
# MILK COOLING

## SYNOPTIC / OPERATING PRINCIPLE



## CHARACTERISTICS AND DIMENSIONS (in mm and weight in kg)

### ◆ Separate refrigeration unit



### ◆ Recovery tank



TYPE OF UNIT	I-1	II-2	III-3	III-4
O Width	1790		1790 (+806)	1790 (+1790)
P Depth	780		780 (+575)	780 (+780)
R Unit height	2275		2392	2392
T Condenser height	1122		1122 (+1078)	1122 (+1122)
Weight	300	340	380	400

MODELS	300 L	500 L
Diameter	550	650
Height	1380	1650
Empty weight	103	143

(x) Dimensions of separate condenser

## MILK COOLING

# opticool

- ▶ With direct expansion
- ▶ 50 Hz

Up to  
**-40%**  
of electricity consumption  
for cooling  
of milk

Up to  
**-70%**  
with the addition  
of apre-cooler

And up to  
**-50%**  
on the heating of  
water because of  
heat recovery



Refrigeration unit  opticool  
with heat recovery tank  
and coaxial pre-cooler as separate supply  
*Photo non-contractual*

### ◆ EQUIPMENT

- Hermetic compressor unit (scroll / inverter) with power to meet performance standards
- Refrigeration control with thermostatic and electronic expansion valve
- Seratemp heat recovery unit with heat exchanger (300 or 500 L) and brine loop
- Self-adapting power and control panel Standard power supply : 400V / 3Ph + N + E / 50Hz
- Phase monitor relay
- Level indicator
- Temperature sensors
- Energy meter
- MyRainbow communication gateway (optional, with additional subscription)
- Solenoid valve to prevent refrigerant migration when compressor stops
- Separate unit mounting
- F-Gas-compliant refrigerant
  - low GWP (Global Warming Potential)

### ◆ STANDARDS

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



**CHOICE OF THE OPTICOOL UNIT DEPENDING ON TANK CAPACITIES (in L) AND THE NUMBER OF MILKINGS**

	TYPE OF UNIT	I-1	II-2	III-3	III-4
	MAX COOLING CAPACITY (KW) **	16	24	35	38
4 MILKINGS	WITH OR WITHOUT PRE-COOLER		5000 6000	7,000 8,000 9,000	10,400
	PRE-COOLER REQUIRED				12,000** 15,000** 18,000**
	TANK VOLUME (IN L)	300	300	500	500
6 MILKINGS	WITH OR WITHOUT PRE-COOLER	5000 6000	7,000 8,000 9,000	10,400 12,000	15,000
	PRE-COOLER REQUIRED				18,000** 21,000** 24,000**
	TANK VOLUME (IN L)	300	300	500	500
ROBOT 48H	WITH OR WITHOUT PRE-COOLER	5000 6000 7,000 8,000 9,000	10,400 12,000	15,000 18,000 21,000	24,000 30,000**
	NUMBER OF ROBOTS	1 - 2	2 - 3	3 - 4	5 - 7
	TANK VOLUME (IN L)	300 or 500	300 or 500	500	500
ROBOT 72H	WITH OR WITHOUT PRE-COOLER	5000 6000 7,000 8,000	9,000 10,400 12,000 15,000	18,000 21,000	24,000 30,000**
	NUMBER OF ROBOTS	1	2	3	4 - 5
	TANK VOLUME (IN L)	300 or 500	300 or 500	500	500

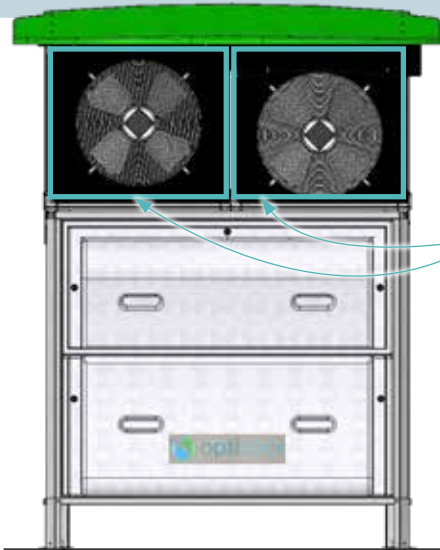
\*Cooling capacity at evaporating temperature 0°C and condensing temperature 50°C

\*\*Functional pre-cooler mandatory (milk inlet temperature in the tank at 24°C max)



## REFRIGERATION SYSTEMS

Type I-1 or II-2



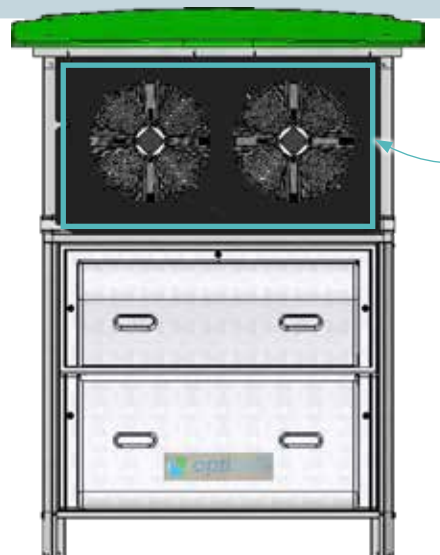
◆ GS/2x1V assembly

1 **separate** unit

2 single-fan condensers

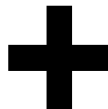


Type III-3



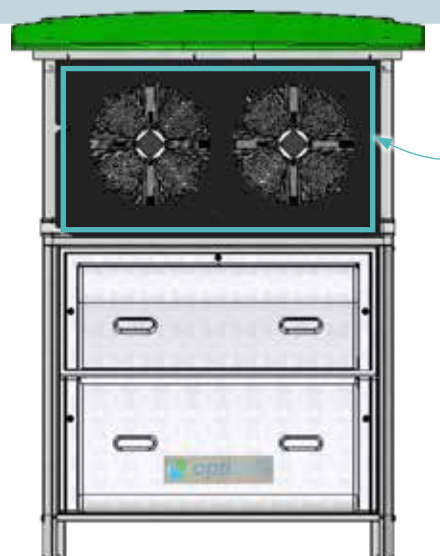
◆ GS/2V + CS/1V assembly

1 **separate** dual-fan unit



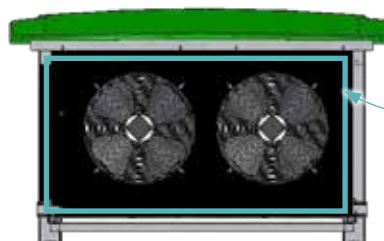
1 **separate** single-fan condenser

Type III-4



◆ GS/2V + CS/2V assembly

1 **separate** dual-fan unit



1 **separate** dual-fan condenser