1 BASIC DATA

1.1 DATA FOR COMPONENET TRACEABILITY

ORDER CONFIRMATION OF STEEL BELT SYSTEMS	RP 2 177 12 5	dtd 16/11/2012
SERIAL NUMBER	RP2177125	

1.2 MACHINE LIMIT CONDITIONS FOR OPERATION, STORAGE AND HANDLING

MAXIMUM AMBIENT TEMPERATURE ON SERVICE	40	°C
MINIMUM AMBIENT TEMPERATURE ON SERVICE	5	°C
MAXIMUM STORAGE TEMPERATURE	40	°C
MINIMUM STORAGE TEMPERATURE	5	°C

Use suitable lifting lugs when handling the machine.

The machine is designed for indoor operation.

1.3 LIMIT CONDITIONS OF THE PRODUCT TO BE PROCESSED

The product feeding temperature must never exceed 120 °C, it should normally range between 100 °C and 110 °C.

1.4 PUTTING OUT OF SERVICE AND DISMANTLING THE MACHINE

To put out of service the machine it is necessary:

- to disconnect it from the mains.
- release the hydraulic circuit pressure and let the mobile equipment to reach the lower position (out of service condition).

Should the machine remain out of service for a long time, it is recommended to :

- protect cylinder stems with ESSO MULTIPURPOSE GREASE "E" or similar product; make them to stroke back and forth when greasing, to spread the grease on the stem
- protect guides of take-up supports of the tension terminal with ESSO MULTIPURPOSE GREASE "E" or similar product
- cover the machine with a plastic foil
- disconnect it from mains

Should the machine be dismantled, scrap separately cables and electrical motors, not to pollute steel scraps.

Lubricants and thermal oil must be disposed off according to the regulation in force for the environment protection.

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 Commessa
 RP 2 177 12 5
 Rev. 0 del 25/03/2013
 Pag 5 di 29

 Job
 Rev. 0 dtd 25/03/2013
 Sheet 5 of 29

2 DATA SHEETS

A - COOLER

Cooler C-C distance	19250	mm
Steel belt width	1500	
Cooling length	18000	
Free height under discharging hopper	700	mm
Height of feeding point over the floor	2260	
		1
Overall dimension (more o less): Lengtl	20600	mm
Width	2650	mm
Heigh	2150	
Steel belt speed	from 30 to 47	m/min
Steel belt developed length	38500	mm
(overlength for endless junction not inclu	ided)	111111
Steel belt thickness		mm
Steel belt grade	NICRO 12.1	111111
Construction material of intermediate pa	rt Galvanized carbon steel	
Construction material of terminals	Galvanized carbon steel	
Construction material of scraping blade	Bakelized fiber	

TENSION TERMINAL

Number of Drum	1	
Sheave / Drum rim material	AISI 304	
Sheave / Drum diameter	800	mm
Recommended steel belt tensile stress	0.6	kg/mm²

DRIVING TERMINAL

Number of Drum	1	-
Sheave / Drum rim material	AISI 304	
Sheave / Drum diameter	800	mm

STEEL BELT DRIVING GROUP

Commessa RP 2 177 12 5 Rev. 0 del 25/03/2013 Rev. 0 dtd 25/03/2013	Pag 6 di 29 Sheet 6 of 29
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motor maker	power	poles	tension	frequency	protect. class	insul. class
NORD	5.5 KW	4	400 Vac	50 Hz	IP55	F

Motor ventilation	Self-ventilated	
Transmission to driving shaft	Hollow shaft speed reducer	

B - PASTILLATOR

Useful width	1400 mm
Nominal diameter	120 mm

Toothed rotor pitch :	8 mm	type 3 x 1 mm	material : AISI 304 s/s
Comb material:	TEKAP	EEK	
Body material :	AISI 304	4 stainless steel	

ROTOR DRIVING GROUP

motor maker	power	poles	tension	frequency	protect. class	insul. class
NORD	2.2 kW	4	230/400 V	50 Hz	IP 55	F

Self-ventilated

LIFTING GROUP OF PASTILLATOR

2 Pneumatic cylinders

TEMPERATURE CONTROL

Heating medium	Hot water	
Maximum heating medium temperature	105°C	

C - COOLING SYSTEM (refer to the water flow diagram)

Number of independent cooling zones: 3

Commessa RP 2 177 12 5	Rev. 0 del 25/03/2013	Pag 7 di 29
Job	Rev. 0 dtd 25/03/2013	Sheet 7 of 29

Cooling water supply	from mains	from chiller	capacity
1 st zone :		Х	17
2 nd zone :		Х	21.4
3 rd zone :		X	21.4

Cooling water	inlet temp.	outlet temp.	inlet pressure
Conditions	°C	°C	bar
1 st zone :	5	9	3
2 nd zone :	5	9	3
3 rd zone :	5	9	3

COOLING ZONE

Nozzle number	179	
Nozzle type	empty cone jet cod. 302.686.51 -90°	
Nozzle material	plastic material	

WATER COLLECTING TANKS

stainless steel	
stainless steel	
PVC	

FOR BETTER UNDERSTANDING OF DATA AND INSTALLED INSTRUMENTS SEE ATTACHED SCHEMATICS AND DRAWINGS AS WELL AS SPARE PART LIST.

3 PLANT DESCRIPTION

The plant described in this manual is a belt cooling conveyor.

The product is supply in liquid form in a pastillator feeder and put it out in drop form. Those drop are solidified with water sprayed under the belt through nozzles line.

The machine consists of :

	RP 2 177 12 5	Rev. 0 del 25/03/2013	Pag 8 di 29	
Job		Rev. 0 dtd 25/03/2013	Sheet 8 of 29	- 1