

T4 Eco-Cool selection list : 4 milkings

A. Specifications

- Cooling refrigerant: R404a - R22(T)
- Voltage - frequency: 3x400V – 50Hz
- Classification: 4BII
- B = ambient temperature of 32°C

Traditional milking

- 4 milkings tank = it takes 4 milkings to fill the tank
- No pre-cooling: milk cooled from 35°C down to 4°C in less than 3 hours (4BII)
- Pre-cooling: milk cooled from 23°C down to 4°C in less than 3 hours

Robotic milking

- 2 day collection tank: it takes 2 days to fill the tank
- No pre-cooling: milk cooled from 35°C down to 4°C in less than 1h
- Pre-cooling: milk cooled from 23°C down to 4°C in less than 1h
- Maximum working time of the cooling unit = 17 hours
- The tanks are equipped with a special sized 'robotic' evaporator

Ice water cooling

- RM/IB: same configuration for traditional and robotic milking
- DIB and TRT tanks + PIB: the configuration for ice storage of 1 milking has been indicated. Other types on request.

In case of abnormalities please contact Packo Inox

B. T4 Eco-Cool selection list

B.1 Direct Expansion tanks : DX

REM/DX	Traditional milking				Robotic milking			
	#CU	No pre-cooling CU	#CU	With pre-cooling CU	#CU	No pre-cooling CU	#CU	With pre-cooling CU
1050	1	Eco-Cool 2.0	1	Eco-Cool 2.0				
1300	1	Eco-Cool 2.0	1	Eco-Cool 2.0				
1700	1	Eco-Cool 2.5	1	Eco-Cool 2.5				
2100	1	Eco-Cool 3.0	1	Eco-Cool 2.5				
2600	1	Eco-Cool 4.5	1	Eco-Cool 2.5				
3100	1	Eco-Cool 4.5	1	Eco-Cool 2.5				
3800	1	Eco-Cool 6.5	1	Eco-Cool 3.0	1	Eco-Cool 2.5	1	Eco-Cool 2.0
4400	1	Eco-Cool 7.5	1	Eco-Cool 4.5	1	Eco-Cool 2.5	1	Eco-Cool 2.5
5000	1	Eco-Cool 7.5	1	Eco-Cool 4.5	1	Eco-Cool 3.0	1	Eco-Cool 2.5
6150	1	Eco-Cool 10	1	Eco-Cool 6.5	1	Eco-Cool 4.5	1	Eco-Cool 2.5
7200	1	Eco-Cool 12	1	Eco-Cool 7.5	1	Eco-Cool 4.5	1	Eco-Cool 3.0
8200	1	Eco-Cool 13.5	1	Eco-Cool 7.5	1	Eco-Cool 6.5	1	Eco-Cool 3.0
9000	2	Eco-Cool 7.5	1	Eco-Cool 9.0	1	Eco-Cool 6.5	1	Eco-Cool 4.5
10000	2	Eco-Cool 7.5	1	Eco-Cool 10	1	Eco-Cool 6.5	1	Eco-Cool 4.5
12000	2	Eco-Cool 10	1	Eco-Cool 12	1	Eco-Cool 7.5	1	Eco-Cool 4.5
15000	2	Eco-Cool 12	2	Eco-Cool 7.5	1	Eco-Cool 10	1	Eco-Cool 6.5

RS/DX	Traditional milking				Robotic milking			
	#CU	No pre-cooling CU	#CU	With pre-cooling CU	#CU	No pre-cooling CU	#CU	With pre-cooling CU
5000	1	Eco-Cool 7.5	1	Eco-Cool 4.5	1	Eco-Cool 3.0	1	Eco-Cool 2.0
8000	1	Eco-Cool 13.5	1	Eco-Cool 7.5	1	Eco-Cool 6.5	1	Eco-Cool 3.0

LEM/DX	Traditional milking				Robotic milking			
	#CU	No pre-cooling CU	#CU	With pre-cooling CU	#CU	No pre-cooling CU	#CU	With pre-cooling CU
18000	2	Eco-Cool 13,5	2	Eco-Cool 9.0	1	Eco-Cool 12	1	Eco-Cool 7.5
22000			2	Eco-Cool 12	1	Eco-Cool 13.5	1	Eco-Cool 9.0
25500					2	Eco-Cool 9.0	1	Eco-Cool 10
31600					2	Eco-Cool 10	1	Eco-Cool 12

LS/DX	Traditional milking				Robotic milking			
	#CU	No pre-cooling CU	#CU	With pre-cooling CU	#CU	No pre-cooling CU	#CU	With pre-cooling CU
10250	2	Eco-Cool 7.5	1	Eco-Cool 10	1	Eco-Cool 7.5	1	Eco-Cool 4.5
13100			1	Eco-Cool 13.5	1	Eco-Cool 9.0	1	Eco-Cool 6.5
14500			2	Eco-Cool 7.5	1	Eco-Cool 10	1	Eco-Cool 6.5
15500			2	Eco-Cool 7.5	1	Eco-Cool 10	1	Eco-Cool 6.5
17650			2	Eco-Cool 9.0	1	Eco-Cool 12	1	Eco-Cool 7.5
21500			2	Eco-Cool 12	1	Eco-Cool 13.5	1	Eco-Cool 9.0
25500					2	Eco-Cool 9.0	1	Eco-Cool 10
30450					2	Eco-Cool 10	1	Eco-Cool 12

VM/DX	Traditional milking		Robotic milking			
	#CU	With pre-cooling CU	#CU	No pre-cooling CU	#CU	With pre-cooling CU
12000	1	Eco-Cool 7.5	1	Eco-Cool 7.5	1	Eco-Cool 4.5
	1	Eco-Cool 3.0				
15500	1	Eco-Cool 7.5	1	Eco-Cool 7.5	1	Eco-Cool 6.5
	1	Eco-Cool 6.5				
18000	1	Eco-Cool 7.5	1	Eco-Cool 7.5	1	Eco-Cool 7.5
	1	Eco-Cool 9.0				
21000	1	Eco-Cool 7.5	1	Eco-Cool 7.5	1	Eco-Cool 9.0
	1	Eco-Cool 13.5				
25000	1	Eco-Cool 7.5	2	Eco-Cool 7.5	1	Eco-Cool 7.5
	2	Eco-Cool 9.0			1	Eco-Cool 2.0
30000	1	Eco-Cool 7.5	1	Eco-Cool 7.5	1	Eco-Cool 7.5
	2	Eco-Cool 10				
35000	1	Eco-Cool 7.5	1	Eco-Cool 7.5	1	Eco-Cool 7.5
	2	Eco-Cool 12				

OM/DX	Traditional milking	
	#CU	CU
300	1	Eco-Cool 0.5
450	1	Eco-Cool 0.6
600	1	Eco-Cool 1.0
800	1	Eco-Cool 1.1
1000	1	Eco-Cool 1.5
1200	1	Eco-Cool 1.5
1500	1	Eco-Cool 2.5
1800	1	Eco-Cool 2.5
2000	1	Eco-Cool 3.0
2300	1	Eco-Cool 3.0
2750	1	Eco-Cool 4.5
3400	1	Eco-Cool 6.5

B.2. Ice Water cooling: IB and DIB+PIB

RM/IB	#CU	CU
1600	1	Eco-Cool 2.0
2200	1	Eco-Cool 2.5
2800	1	Eco-Cool 2.5
3300	1	Eco-Cool 2.5
3800	1	Eco-Cool 3.0
4400	1	Eco-Cool 4.5
5000	1	Eco-Cool 4.5
6000	1	Eco-Cool 4.5
7150	1	Eco-Cool 6.5

OM/IB	#CU	CU
600	1	Eco-Cool 0.6
800	1	Eco-Cool 1.0
1000	1	Eco-Cool 1.1
1200	1	Eco-Cool 1.2
1500	1	Eco-Cool 2.0
1800	1	Eco-Cool 2.0
2300	1	Eco-Cool 2.5
2750	1	Eco-Cool 2.5
3400	1	Eco-Cool 4.5

RS-REM/DIB	Traditional milking		Robotic milking	
	No pre-cooling	With pre-cooling	No pre-cooling	With pre-cooling
RS 8000	PIB-80	PIB-40	PIB-60	PIB-25
8200	PIB-80	PIB-40	PIB-60	PIB-25
9000	PIB-80	PIB-60	PIB-60	PIB-40
10000	PIB-80	PIB-60	PIB-60	PIB-40
12000	PIB-120	PIB-60	PIB-60	PIB-40
15000	PIB-120	PIB-80	PIB-120	PIB-60

LEM/DIB	Traditional milking		Robotic milking	
	No pre-cooling*	With pre-cooling	No pre-cooling	With pre-cooling
18000	PIB-160	PIB-120	PIB-120	PIB-60
22000	PIB-230	PIB-120	PIB-120	PIB-80
25500	PIB-230	PIB-160	PIB-160	PIB-120
31600	PIB-370	PIB-160	PIB-230	PIB-120

**Instant cooling with ice water down to 10°C is required*

LS/DIB	Traditional milking		Robotic milking	
	No pre-cooling*	With pre-cooling	No pre-cooling	With pre-cooling
10250	PIB-120	PIB-60	PIB-60	PIB-40
13100	PIB-120	PIB-80	PIB-80	PIB-60
14500	PIB-120	PIB-80	PIB-120	PIB-60
15500	PIB-160	PIB-80	PIB-120	PIB-60
17650	PIB-160	PIB-120	PIB-120	PIB-60
21500	PIB-230	PIB-120	PIB-120	PIB-80
25500	PIB-230	PIB-160	PIB-120	PIB-120
30450	PIB-370	PIB-160	PIB-230	PIB-120

**Instant cooling with ice water down to 10°C is required*

VM/DIB	Traditional milking		Robotic milking	
	No pre-cooling*	With pre-cooling*	No pre-cooling*	With pre-cooling*
12000	PIB-120	PIB-60	PIB-60	PIB-40
15500	PIB-120	PIB-80	PIB-120	PIB-60
18000	PIB-160	PIB-120	PIB-120	PIB-60
21000	PIB-230	PIB-120	PIB-120	PIB-80
25000	PIB-230	PIB-160	PIB-120	PIB-120
30000	PIB-370	PIB-160	PIB-230	PIB-120
35000	PIB-370	PIB-230	PIB-230	PIB-120

*Instant cooling with ice water down to 10°C is required

TRT	Traditional milking
	No pre-cooling
1050	PIB 13
1300	PIB 13
1700	PIB 25
2100	PIB 25
2500	PIB 25

PIB	Kcal stock	Traditional milking		Robotic milking	
		#CU	Eco-Cool	#CU	Eco-Cool
25	22.160	1	Eco-Cool 2.5	1	Eco-Cool 4.5
40	35.456	1	Eco-Cool 4.5	1	Eco-Cool 6.5
60	53.184	1	Eco-Cool 6.5	1	Eco-Cool 10
80	70.912	1	Eco-Cool 9.0	1	Eco-Cool 12
120	106.368	1	Eco-Cool 12	2	Eco-Cool 10
160	141.824	2	Eco-Cool 9.0	2	Eco-Cool 12
230	205.000	2	Eco-Cool 12	4	Eco-Cool 10
370	322.150	4	Eco-Cool 10	4	Eco-Cool 12

⇒ *The PIB acts as « chiller » in combination with robotic milking