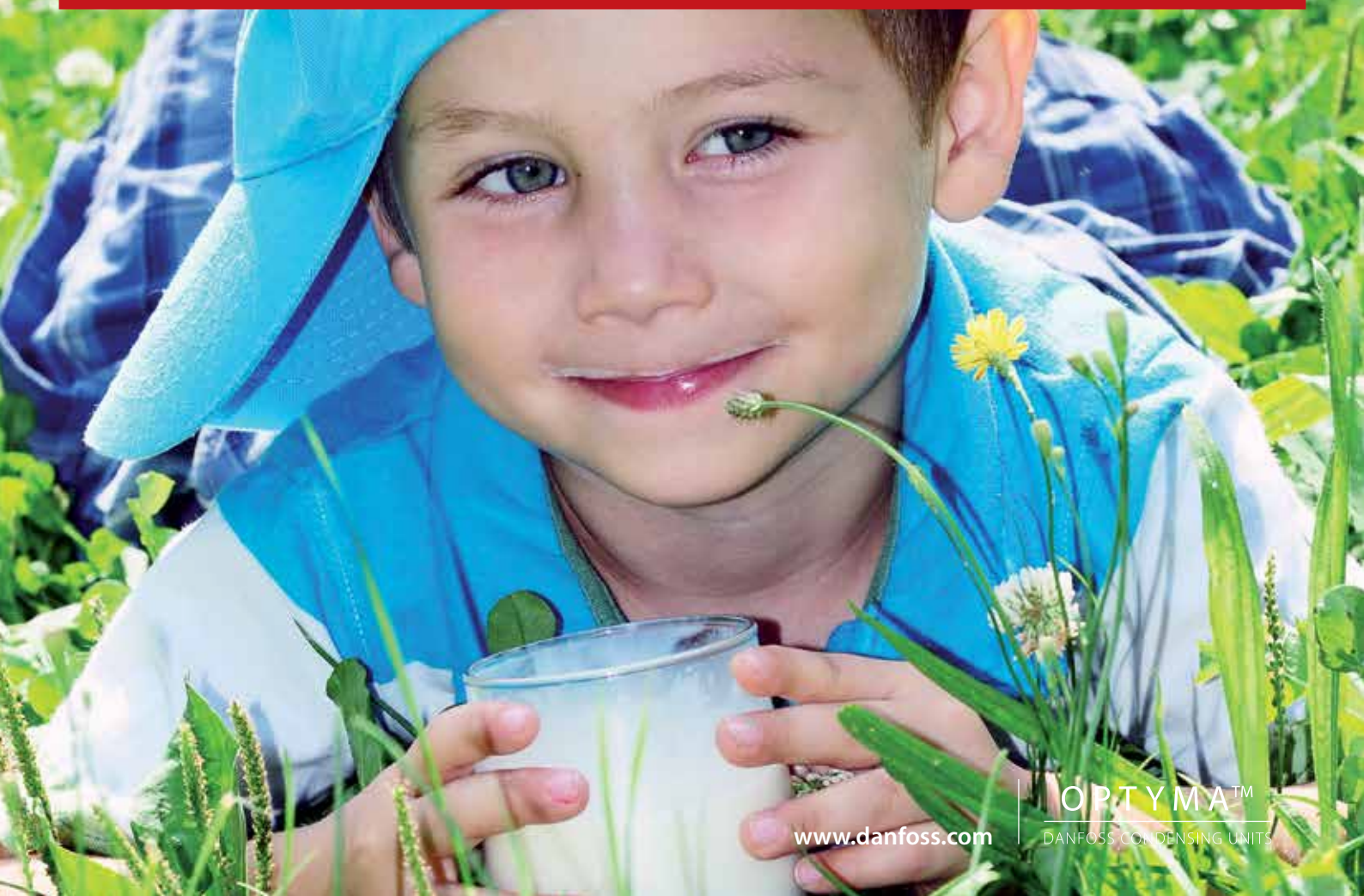
ENGINEERING
TOMORROW

Optyma™ Slim Pack for Milk Cooling Applications

Reliable high efficiency cooling
featuring latest technology

Designed to meet the food chain and milk cooling requirements, the range of Danfoss Optyma™ Slim Pack condensing units offers a highly reliable, compact and cost effective solution that optimizes 400 to 4000 litres milk cooling tanks.
A smart way to increase your bottom line!

Up to
25%
savings on energy and refrigerant with optimized design



www.danfoss.com

OPTYMA™
DANFOSS CONDENSING UNITS

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Optyma™ Slim Pack: Optimizing performance of milk coolers

Up to 30% savings on refrigerant:
The microchannel heat exchangers help to reduce refrigerant charge by 30% versus traditional condensers.

Energy efficient and cost effective:
The smart design and components will reach up to 25% higher COP compared to a standard offer. Fast pull down can be achieved with a generous condenser size.

Reduced time and efforts in installation, commissioning and maintenance:
Compact, preassembled, factory tested units safe and easy to install. The corrotion resistant condenser can be cleaned with water.

Unit	Code	Phases	HP	R404A Cooling capacity [W] at ambient 32 °C			Power consumption [W] at -5 °C evap. temp	COP at -5 °C evap. temp	Dimensions H x W x D [mm]	Net Weight [kg]
				-5 °C	0 °C	+5 °C				
OP-MSHM024	114X7097	1	1	2550	3100	3700	1150	2.22	695 x 1106 x 464	63
OP-MSHM026	114X7083	1	1	2800	3400	4000	1400	2.00		
	114X7093	3								
OP-MSHM034	114X7084	1	1.5	3400	4100	4800	1730	1.97		
	114X7094	3								
OP-MSUM034	114X7061	1	2	4050	4800	5650	1700	2.38		66
	114X7062	3								
OP-MSUM046	114X7063	1	3	5350	6250	7250	2400	2.23		
	114X7064	3								
OP-MSUM057	114X7065	1	3.5	6250	7300	8400	3250	1.92		
	114X7066	3								
OP-MSUM068	114X7067	1	4	8750	10350	12150	3280	2.67	830 x 1106 x 464	87
	114X7068	3								
OP-MSUM080	114X7069	1	5	10150	11950	13950	3950	2.57		
	114X7070	3								
OP-MSUM093*	114X7098	1	6	11150	13200	15550	4780	2.33		
OP-MSUM099	114X7071	3	6	11750	13800	16050	5000	2.35		
OP-MSUM108	114X7072	3	7	12550	14700	17050	5440	2.31		

Unit	Code	Phases	HP	R404A Cooling capacity [W] at evaporating temperature - 5 °C at ambient 32 °C	Tank design in terms of milkings/day		
					2	3	4
OP-MSHM024	114X7097	1	1	2550	400 L	600 L	800 L
OP-MSHM026	114X7083	1	1	2800	450 L	700 L	900 L
	114X7093	3					
OP-MSHM034	114X7084	1	1.5	3400	500 L - 600 L	750 L - 900 L	1000 L - 1100 L
	114X7094	3					
OP-MSUM034	114X7061	1	2	4050	600 L - 700 L	900 L - 1000 L	1100 L - 1300 L
	114X7062	3					
OP-MSUM046	114X7063	1	3	5350	800 L - 900 L	1200 L - 1400 L	1400 L - 1700 L
	114X7064	3					
OP-MSUM057	114X7065	1	3.5	6250	900 L - 1100 L	1400 L - 1600 L	1800 L - 2000 L
	114X7066	3					
OP-MSUM068	114X7067	1	4	8750	1200 L - 1500 L	1700 L - 2200 L	2400 L - 2800 L
	114X7068	3					
OP-MSUM080	114X7069	1	5	10150	1600 L - 1800 L	2200 L - 2500 L	3000 L - 3400 L
	114X7070	3					
OP-MSUM093*	114X7098	1	6	11150	1800 L - 2100 L	2500 L - 2800 L	3400 L - 3800 L
OP-MSUM099	114X7071	3	6	11750	1900 L - 2200 L	2500 L - 2800 L	3400 L - 3800 L
OP-MSUM108	114X7072	3	7	12550	2300 L - 2600 L	2800 L - 3200 L	3800 L - 4000 L

Rating conditions: Superheat 10K; Subcooling 0K ; Values refer to 3 phases units
Please contact your Danfoss sales offices for capacities with other refrigerants (R134a, R407A, R407F).

Equipment:
W05 with filter drier, sight glass, prewired electrical box (main switch, contactor, overload relay, phase sequence relay for scroll compressors), LP/HP pressure switch, liquid/suction valves, receiver and crankcase heater.
*W06 = W05 + fan speed control (XGE)

This selection is given only as reference. For each particular case please take into consideration the required capacity, specific design of the milk cooling tank and evaporator as well as the size of the expansion valve versus cooling capacity of a condensing unit at the desired application conditions.

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