



ARYA SARMAYESH KNOWLEDGE BASE CO ACMC SERIES ONLY FOR COLSE LOOP OUTPUT MINI CHILLER

Type		ACMC 40+5-600-8	ACMC 40+5-800-8	ACMC 40+5-900-8	ACMC 40+5-3-8	
Tank volume for save energy	L	8	8	8	8	
Performance for temperature tests						
Temperature Range	°C	+5 ~ +40	+5 ~ +40	+5 ~ +40	+5 ~ +40	
Temperature deviation in time	K	± 1.0 to ± 2.0 in on/off & ± 0.5 to ± 0.2 in PID mode				
Temperature homogeneity in tank	K	± 0.2 to ± 1.0				
Temperature rate of change 1)	Heating K/min	0.63	0.63	0.63	1.26	
	Cooling K/min					
Heat compensation at +5 °C	W	180	300	370	2000	
Heat compensation at +15 °C	W	590	744	860	3000	
Heat compensation at +25 °C	W	800	1000	1100	4200	
Heater power	W	1250	1250	1250	2*1250	
Outlet pipe dimensions	Ø inch	1/2	1/2	1/2	1/2	
Inlet pipe dimensions	Ø inch	1/2	1/2	1/2	1/2	
Specifications of fluid circulator pump						
Brand		Calpeda	Calpeda	Calpeda	Calpeda	
Pump Q min/max	m ³ /h	0.48 / 2.3	0.48 / 2.3	0.48 / 2.3	0.48 / 2.3	
Pump H max/min	m	41 / 5	41 / 5	41 / 5	41 / 5	
Pump Current	A	2.5	2.5	2.5	2.5	
Pump model		CTM 61	CTM 61	CTM 61	CTM 61	
Number of Pump		2	2	2	2	
External dimensions	Width	mm	630	630	630	830
	Depth	mm	720	720	720	770
	Height	mm	645	645	645	745
Sound pressure level 2)	db(A)	<61.5	<61.5	<67	<71	
Condensing unit		Air cooled	Air cooled	Air cooled	Air cooled	
Compressor Size		SC12G Danfoss	SC18G Danfoss	SC21G Danfoss	12000 LG	
Compressor Capacity 3)	W	603	870	1012	1800	
Voltage		220 VAC	220 VAC	220 VAC	220 VAC	
Max Current	A	10.3	10.3	11.4	19.3	
Rated power	kW	2.26	2.26	2.5	4.24	
Net Weight	kg	95	96	101	145	

Performance values refer to +40 °C ambient temperature .

- 1) With 8 liter of water & loop outlet to inlet & from +10 °C to +5 °C for cooling & from +5 °C to +10 °C for heating
- 2) Measured in 1 m distance from the front and in 1.6 m height at free field measurement according to EN ISO 11201 .
- 3) According to (EN 12900/CECOMAF) at -5

ARYA SARMAYESH KNOWLEDGE BASE CO ACMO SERIES ONLY FOR OPEN LOOP OUTPUT MINI CHILLER

Type		ACMO 40+5-600-8	ACMO 40+5-800-8	ACMO 40+5-900-8	ACMO 40+5-3-8
Performance for temperature					
Temperature Range	°C	+5 ~ +40	+5 ~ +40	+5 ~ +40	+5 ~ +40
Temperature deviation in time	K	± 1.0 to ± 2.0 in on/off & ± 0.5 to ± 0.2 in PID mode			
Temperature homogeneity in tank	K	± 0.2 to ± 1.0			
Temperature rate of change 1)	Heating K/min	0.63	0.63	0.63	1.26
	Cooling K/min				
Heat compensation at +5 °C	W	330	450	520	2150
Heat compensation at +15 °C	W	740	894	1010	3150
Heat compensation at +25 °C	W	950	1150	1250	4350
Heater power	W	1250	1250	1250	2*1250
Outlet pipe dimensions	Ø inch	1/2	1/2	1/2	1/2
Inlet pipe dimensions	Ø inch	1/2	1/2	1/2	1/2
Specifications of fluid circulator pump					
Brand		Calpeda	Calpeda	Calpeda	Calpeda
Pump Q min/max	m ³ /h	0.48 / 2.3	0.48 / 2.3	0.48 / 2.3	0.48 / 2.3
Pump H max/min	m	41 / 5	41 / 5	41 / 5	41 / 5
Pump Current	A	2.5	2.5	2.5	2.5
Pump model		CTM 61	CTM 61	CTM 61	CTM 61
Number of Pump		1	1	1	1
External dimensions					
	Width mm	630	630	630	830
	Depth mm	620	620	620	670
	Height mm	645	645	645	745
Sound pressure level 2)	db(A)	<61.5	<61.5	<67	<71
Condensing unit		Air cooled	Air cooled	Air cooled	Air cooled
Compressor Size		SC12G danfoss	SC18G danfoss	SC21G danfoss	12000 LG
Compressor Capacity 3)	W	603	870	1012	1800
Voltage		220 VAC	220 VAC	220 VAC	220 VAC
Max Current	A	10	10	11.1	19
Rated power	kW	2.2	2.2	2.442	4.18
Net Weight	kg	89	90	95	139

Performance values refer to +40 °C ambient temperature .

- 1) With 8 liter of water & loop outlet to inlet & from +10 °C to +5 °C for cooling & from +5 °C to +10 °C for heating
- 2) Measured in 1 m distance from the front and in 1.6 m height at free field measurement according to EN ISO 11201 .
- 3) According to (EN 12900/CECOMAF) at -5