



Cooling capacity
(setpoint 20°C, ambient 20°C)

0.5kW

0.5kW

Administrative Data

CAD assembly dwg no.	MA485	MA298
ATC 'common name'	EcoMini	Mini
ATC new model name	EMPC3	MPC3

Physical attributes

Physical dimensions (LxWxH) (mm)	435 x 180 x 380	435 x 180 x 380
Weight (kg)	Dry 20kg, wet 21kg	Dry 20kg, dry 21kg
Noise Level (dB(A))	64 (optional manual adjustment)	35-64 (optional manual adjustment)
Toolless Access	No	No

Temperature control attributes

Technology	Vapour Compression	Vapour Compression
Evaporator technology	Brazed plate heat exchanger	Brazed plate heat exchanger
Duty at +20°C ambient, Setpoint +20°C (kW)	500	500
Duty at +20°C ambient, Setpoint +15°C (kW)	300	300
Refrigerant & charge	R135a, 360g	R134a, 360g
Temperature range (standard)	+4°C to +35°C	+4°C to +35°C
Temperature range (extended)	-10°C to +35°C	-10°C to +35°C
Control method	Continuous running, duty settable	PID
Temperature stability (with constant load)	±0.1°C	±0.1°C
Settable temperature resolution	N/A	0.1°C
Maximum THR (Total Heat Rejection)	850W	850W
Ambient air temperature range	+35°C	+35°C

Water circuit attributes

System volume (L)	0.64	0.64
Pump type	Sanso 24VDC brushless centrif pump	Sanso 24VDC brushless centrif pump
Pump capability	3.5L/min @ 1 bar	3.5L/min @ 1 bar
Pressure control (settable pressure relief valve)	N/A	N/A
Standard fittings	Pushfit 12mm	Pushfit 12mm
Standard chemical compatibility	Hexid Fluid, Water, Propylene Glycol	Hexid Fluid, Water, Propylene Glycol

Electrical attributes

(24CVdc, +V, 0V, E)	Yes, 20A max draw (500W)	Yes, 20A max draw (500W)
(90-264Vac, ½, 50-60Hz) U-Spec	Yes, 2A@115Vac, 1A@230Vac, L+N+E or L1=L2+E	Yes, 2A@115Vac, 1A@230Vac, L+N+E or L1=L2+E
Overcurrent fault-cleared restart mode	Manual	Manual

Safety and fault indicator

1 st party approvals	CE	CE
3 rd party approvals	TBC	UL61010-1 CAN/CSA-C22.2 FCC CFR47 PART 15 Subpart B IEC 61000-6-4:2007 IEC 61000-6-2:2005 IEC 61000-3-2:2014 IEC 61000-3-3:2013
Empty fluid reservoir alarm	Not fitted	Visual, Touchscreen Controller GUI
Half-full fluid reservoir indicator	Not fitted	Visual, Touchscreen Controller GUI
Full fluid reservoir indicator	Not fitted	Visual, Touchscreen Controller GUI
Low fluid flow alarm	Not fitted	Optional flowmeter
Temperature out of range alarm	Not fitted	Visual, Touchscreen Controller GUI
Compressor HP switch	Standard, via compressor control PCB	Standard, via compressor control PCB
Motor thermal overload	Not fitted	Fused
Emergency off	Standard, via fuse	Standard, via fuse
Warranty options	2 year parts, 1 year labour Enhanced warranty options	2 year parts, 1 year labour Enhanced warranty options
Interlock restored, restart mode		

Options available

Low temperature pack; SA00002	Available, to -10°C	Available, to -10°C
High temperature pack; SA00003	-	Available, to +65°C
Water cooled KT; SA00004	In development	In development
Non-return solenoid pack; SA00008	In development	In development
High temperature water circuit w/o header; SA00009	In development	In development
Low flow alarm (KT); SA00010	In development	In development
Onboard RS485 data protocol; SA00011	-	Available
Standard VFC set; SA00012	Available	In development
In-line Deionising cartridge and fittings; SA00013	Available	Available
Stainless non-return solenoid valve; SA00014	Available	Available
Castors to replace rubber feet; SA00015	Available	Available
CPC quick release connectors; SA00016	Available; CPC quick connect 3/8" or 1/2"	Available; CPC quick connect 3/8" or 1/2"
Installation kit; SA00017	Available	Available
Particulate filter; SA00021	Available	Available
Flow meter pack; SA00022	Available, pulses per litre output on D connector	Available
Fan speed control (proportional); SA00024	Available, manual adjust for noise only	-
Flow meter pack output to RS485; SA00025	-	In development
Seismic mounts; SA00026	In development	In development
In-line UV decontamination; SA00027	Available	Available
External manifold (2-way – 10-ways); SA00042/43/44/45/46/47/48/49/50	Available	Available