

MARINE WATER COOLED CONDENSING UNIT

Marine Water-cooled Condensing Unit

Description

The marine condensing unit consists of compressor, oil separator, condenser, filter, sight glass, shut-off valve, and control panel.

Three types of unit are available including direct drive, V-belt drive and semi-hermetic.

The unit is easily connected with air-handling unit by refrigerant line and control wiring.

The unit is delivered completed with all internal wiring, junction box and piping, directly ready for use, and painted on requirements.

Features

- Refrigerant: R404A, R407C, R134A, R22 etc.
- Compressor: open or semi-hermetic type; piston or screw type optional.
- Capacity control: step or stepless.
- Condenser: Bitzer (Germany), shell and tube type, with high efficiency and good corrosion protection.
- System valves: Danfoss (Denmark), reliable and durable.
- High-class painted for marine application.
- Control type: classical control or PLC.
- 50/60 Hz, 3 phase.



Condensing unit with direct drive and semi-hermetic type

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ALSCOTT
AIR SYSTEMS LIMITED
ISO-9001:2008
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Technical data 1.1

Unit type	Cooling capacity	Length	Width	Height	Weight
Fresh water cooled with open type compressor	kw	mm	mm	mm	Approx kg
MCU-4P.2/K573H	46	1400	700	1500	500
MCU-4N.2/K813H	58	1400	700	1500	550
MCU-4H.2/K1053H	75	1800	850	1500	650
MCU-4G.2/K1353T	87	1800	850	1500	750
MCU-6H.2/K1973T	116	1800	850	1700	900
MCU-6G.2/K1973T	139	1800	850	1700	950
MCU-6F.2/K2923T	162	1800	850	1700	1000
MCU-FX16/K2923T	191	1800	850	1700	1150

➤ Normal design condition:
Fresh water 36°C, condensing temp. 45°C, evaporating temp. 5°C.
Refrigerant: R404A (R407C/R134A/R22/other refrigerant are available).

➤ Special design and manufacture are available on request.

Technical data 1.2

Unit type	Cooling capacity	Length	Width	Height	Weight
Sea water cooled with open type compressor	kw	mm	mm	mm	Approx kg
MCU-4P.2/K813HB	52	1400	700	1500	500
MCU-4N.2/K1053HB	64	1800	850	1500	550
MCU-4H.2/K1353TB	81	1800	850	1500	650
MCU-4G.2/K1353TB	93	1800	850	1500	750
MCU-6H.2/K1973TB	122	1800	850	1700	900
MCU-6G.2/K1973TB	145	1800	850	1700	950
MCU-6F.2/K2923TB	168	1800	850	1700	1000
MCU-FX16/K2923TB	203	1800	850	1700	1150

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- Normal design condition:
Sea water 32°C, condensing temp. 42°C, evaporating temp. 5°C.
Refrigerant: R404A (R407C/R134A/R22/other refrigerant are available).
- Special design and manufacture are available on request.

Technical data 2.1

Unit type	Cooling capacity		Length	Width	Height	Weight
	kw					
Fresh water cooled with semi-hermetic compressor	50Hz	60Hz	mm	mm	mm	Approx kg
MCU-4P-15.2/K813H	41	52	1400	700	1500	450
MCU-4N-20.2/K813H	46	58	1400	700	1500	450
MCU-4J-22.2/K1053H	52	64	1800	850	1500	550
MCU-4H-25.2/K1053H	64	75	1800	850	1500	550
MCU-4G-30.2/K1353T	70	87	1800	850	1500	600
MCU-6J-33.2/K1353T	81	99	1800	850	1500	650
MCU-6H-35.2/K1973T	93	110	1800	850	1700	750
MCU-6G-40.2/K1973T	110	128	1800	850	1700	750
MCU-6F-50.2/K2923T	132	151	1800	850	1700	800
MCU-8GC-60.2/K2923T	156	188	1800	850	1700	850
MCU-8FC-70.2/K3803T	185	223	2000	950	1900	1050
MCU-HSK7461-80/K3803T	219	265	2000	950	1900	1050

- Normal design condition:
Fresh water 36°C, condensing temp. 45°C, evaporating temp. 5°C.
Refrigerant: R404A (R407C/R134A/R22/other refrigerant are available).
- Special design and manufacture are available on request.

MARINE WATER COOLED CONDENSING UNIT



Technical data 2.2

Unit type	Cooling capacity		Length mm	Width mm	Height mm	Weight Approx kg
	50Hz	60Hz				
Sea water cooled with semi-hermetic compressor	kw					
MCU-4P-15.2/K813HB	46	52	1400	700	1500	450
MCU-4N-20.2/K1053HB	52	64	1800	850	1500	550
MCU-4J-22.2/K1053HB	58	70	1800	850	1500	550
MCU-4H-25.2/K1353TB	64	75	1800	850	1500	600
MCU-4G-30.2/K1353TB	75	93	1800	850	1500	600
MCU-6J-33.2/K1973TB	87	104	1800	850	1700	750
MCU-6H-35.2/K1973TB	99	116	1800	850	1700	750
MCU-6G-40.2/K1973TB	116	139	1800	850	1700	750
MCU-6F-50.2/K2923TB	139	162	1800	850	1700	800
MCU-8GC-60.2/K2923TB	166	200	1800	850	1700	850
MCU-8FC-70.2/K3803TB	197	237	2000	950	1900	1050
MCU-HSK7461-80/K3803TB	232	280	2000	950	1900	1050

- Normal design condition:
Sea water 32°C, condensing temp. 42°C, evaporating temp. 5°C.
Refrigerant: R404A (R407C/R134A/R22/other refrigerant are available).
- Special design and manufacture are available on request.