AIRTECHNOLOGY / AMETEK®

MODULAR
AIR CONDITIONING SYSTEM



WHEN
EXCEPTIONAL PERFORMANCE
MATTERS

OVERVIEW

Description

The Modular Air-Conditioning System (AC1592) is based on a range of components, combinations of which, will allow development of vehicle air-conditioning systems from 4kW to 12kW cooling capacity, as illustrated.

The system components include:

- Two evaporator sizes, 4kW and 6kW
- Liquid receiver assemblies (single/dual)
- Three condenser/condenser sets (different size options available based on cooling capacity and vehicle installation)

Systems are completed by the addition of interconnecting hoses, bulkhead fittings and harnesses configure individually for each system.

TECHNICAL DATA

Parameter	4 kW	6 kW	8 kW	10 kW	12 kW
Cooling Capacity	4 kW 55 °C	6 kW 55 °C	8kW 55 °C	10kW 55 °C	12kW 55 °C
Voltage	24V DC	24V DC	24V DC	24V DC	24V DC
Compressor	Engine Belt Driven	Engine Belt Driven	Engine Belt Driven	Engine Belt Driven	Engine Belt Driven
Electrical Consumption	10 A	18.75 A	20 A	28.75 A	37.50 A
Operating Ambient Temperature	-46°C to +55 °C	-46°C to +55 °C	-46°C to +55 °C	-46°C to +55 °C	-46°C to +55 °C
Evaporator Air Flow	470 m3/hr	660 m3/hr	940 m3/hr	1130 m3/hr	1320 m3/hr
Evaporator Dimensions	456mm (L) x 240mm (W) x 262mm (H)	565mm (L) x 255mm (W) x 452.5mm (H)	2 Evaporators (4 + 4)	2 Evaporators (6 + 4)	2 Evaporators (6 + 6)
Condenser Dimensions	659mm (L) x 446mm (W) x 20mm (H)	722mm (L) x 590mm (W) x 60mm (H)	Customisable	Customisable	Customisable
Evaporator Weight	16 Kg	25 Kg	32 Kg	41 Kg	50 Kg
Condenser Weight	5 Kg	12 Kg	10 Kg	17 Kg	24 Kg
EMC Compliance	MIL-STD-461G	MIL-STD-461G	MIL-STD-461G	MIL-STD-461G	MIL-STD-461G
Storage Temperature Range	-46°C to +71 °C	-46°C to +71 °C	-46°C to +71 °C	-46°C to +71 °C	-46°C to +71 °C

4 kW



Evaporator





Compressor

6 kW





Liquid Receiver



8 kW (4+4)







Condenser

10 kW (6+4)







12 kW (6+6)







Dual liquid Receiver



Contact Us

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