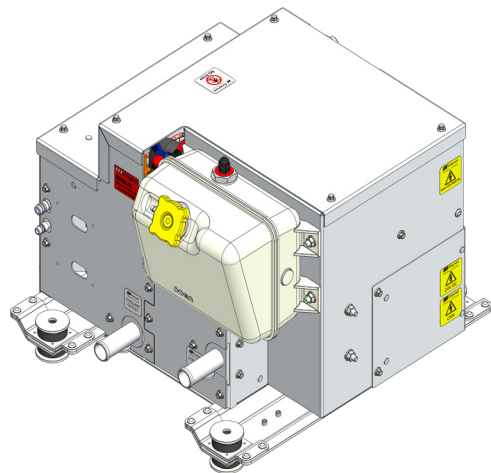


BATTERY THERMAL MANAGEMENT SYSTEM (BTMS)

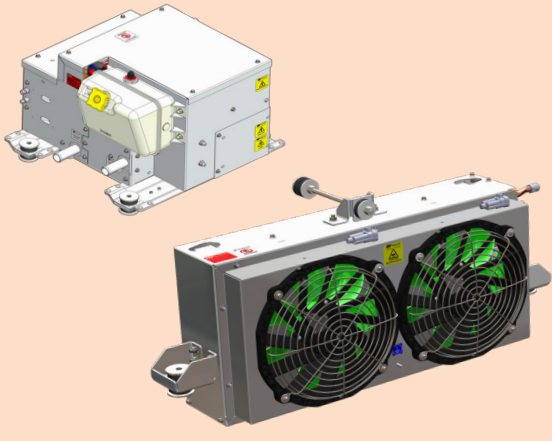
generations of knowledge

GEN3 SPLIT SYSTEM



SPECIFICATION SHEET

BTMS GEN3 SPLIT



PART NUMBERS:

3A-6725-0EXX - Split System - Active/Passive Cooling & Heating

3A-6725-0FXX - Split System - Active/Passive Cooling Only

3A-6725-0GXX - Split System - Active Cooling & Heating

900V DC capability will be available from January 2024.
Enquire today for more information.

SYSTEM OVERVIEW

Utilising the latest advancements in control and design, our GEN3 BTMS provides advanced functions for the critical thermal management of vehicle battery systems. Designed to work across a wide range of applications and markets across the world the GEN3 builds on the performance and reliability of the previous generation BTMS designs. The split model is designed for easy packaging with the condenser assembly separate to the chiller, pump and controls unit.

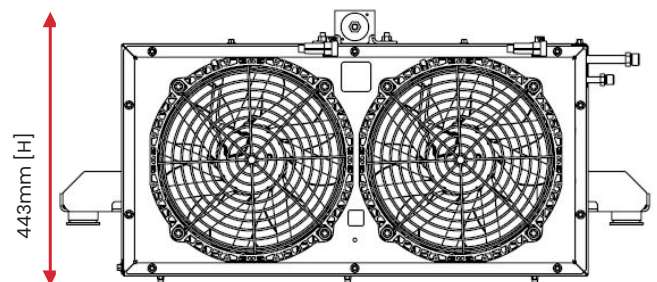
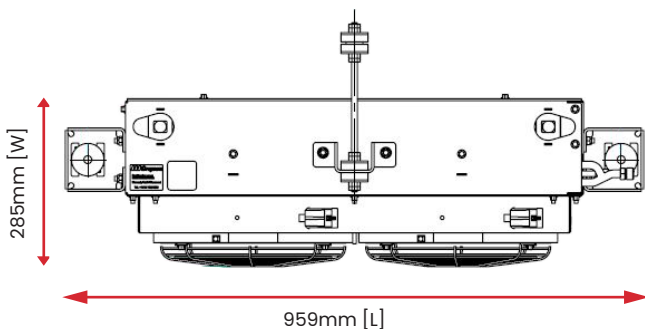
KEY FEATURES:

- Configurable with active cooling, passive cooling and/or heating options
- Suitable for roof mounting or chassis / body mounting
- Integrated water pump
- CAN J1939 "plug and play" control
- CAN boot loader for easy software updates
- DMI diagnostics messages on CAN network
- Split unit for ease of packaging
- Fuseless smart power distribution LV circuits
- Electric expansion valve
- Pressure transducers for fan speed regulation
- Brushless fans
- Lightweight header tank
- 24VDC for controller, fans and pump
- Supplied with link harness + refrigerant hose kit
- 600V DC nominal, 750V DC max

— *Refrigerant gas charge required at the time of installation*

DIMENSIONS

CONDENSER AND FAN ASSEMBLY



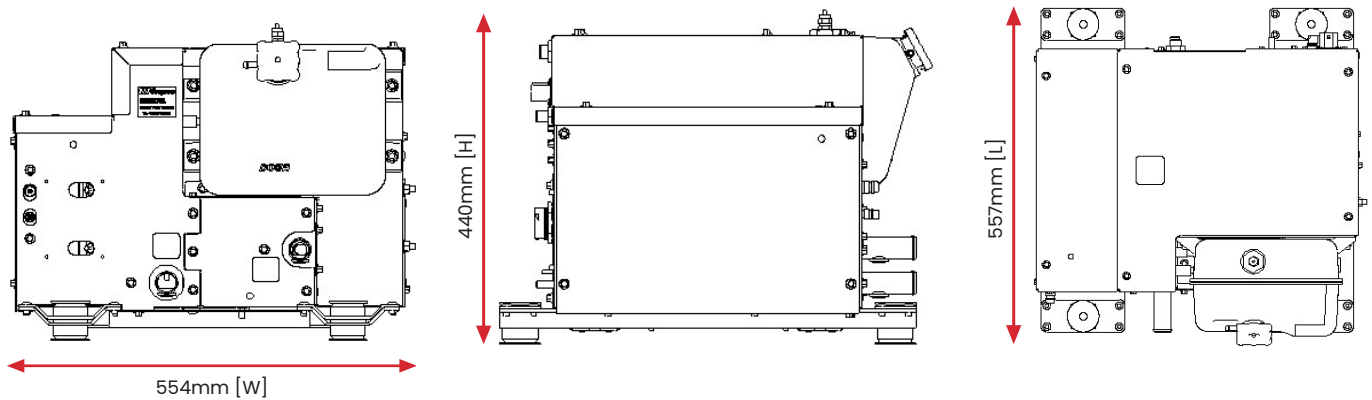
Enquire today

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DIMENSIONS

REFRIGERANT CHILLER ASSEMBLY



TECHNICAL INFORMATION

GEN3 Split	40°C	50°C
Maximum cooling capacity (kW) at: outside temperature (°C) of coolant outlet (°C) of coolant flow (l/m)	11.5 40 25 40	10 50 25 40
Water heating capacity	3.6kW (5kW Optional)	
Operating voltage	600V DC / 24V DC	
24V DC Maximum power consumption (pump / fan)	18 + 48A	
600VDC Maximum power consumption (compressor / heater)	6.25A	
Maximum weight (without coolant) (kg) (0AXX variant - active and passive cooling and heating)	74kg	
Dimensions L x W x H (mm)	1340mm (L) x 554mm (W) x 421mm (H)	
Refrigerant type Charge weight (kg)	R134a / 407c Optional 1.2kg	
Connector types (High Voltage (4-Pin) 24V DC & Control Protocol via CAN J1939)	TE Connectivity (PA66-GF35) Deutsch (HDP24/26)	
Integrated Header Tank	Yes	
Outlet Size O.D. (mm)	28.75 mm	
Anti-vibration mounts	Included	
Fan technology	Brushless motor	
Integrated water pump	Yes (brushless motor)	
Option for remote water heater	Yes – up to 35kW	

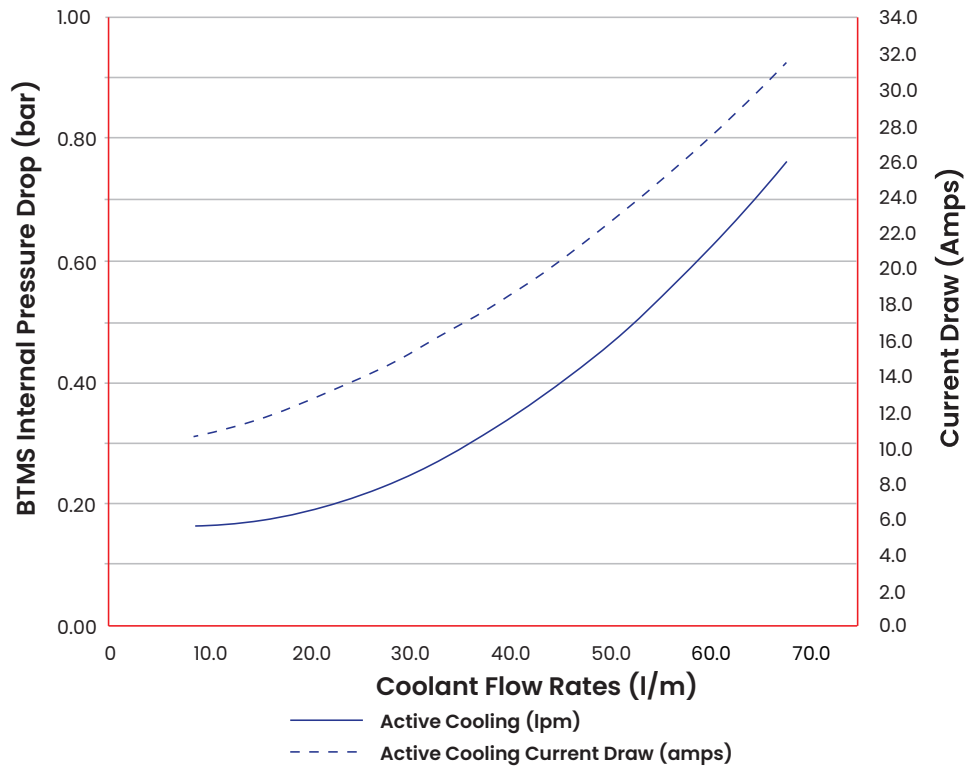
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TECHNICAL INFORMATION

Active Cooling Circuit Internal Pressure Drop



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