



Resource  
Data Management

# Brooklands Tray

The RDM Brooklands Tray is a specially designed refrigeration case controller for use on sites with standard or CO2 refrigerant.

The unit is available in several different build options (PR0029/33/37), comes with a Solid State Relay (SSR) and can, via the in-built software, switch between mechanical liquid line valve (LLV) or electronic expansion valve (EEV) operation.



Whilst the PR0029L provides a varying low voltage output to drive the evaporator fans, the PR0029L and PR0037 utilise a mains feed to control the evaporator fans. The PR0037 variant has the addition of a higher specification relay to drive LED lights.

PR0029 and PR0037 devices are networked via the use of a serial RS232 (RJ45) port and require the use of an IP Futura Module or Mercury Switch (see accessories overleaf) in order to connect to/log on to an RDM control network with a Data Manager or DMTouch device.

The PR0033 Brooklands Tray varies in that it has an electro-mechanical relay to drive a LLV. The PR0033E utilises a SSR to operate an EEV.

The 33/E devices are networked using internet protocol (IP) only, and should be connected to an appropriate module or switch. The PR0033 also features pulse width modulated output and a CO2 App parameter for load shedding features on an RDM Intuitive Controller or Data Manager.

Part Number	EEV Control	LLV Control	PWM Fans	230VAC Fans	LED Lighting
PR0029L	✓	✓	X	X	X
PR0029L ACF	✓	✓	X	✓	X
PR0033	X	✓	✓	X	X
PR0033E	✓	X	✓	X	X
PR0037	✓	✓	X	✓	✓

## Technical Specifications

Feature	Specification
Supply Voltage Range	240 Vac $\pm$ 10%
Supply Frequency	50Hz
Typical supply current (Excluding relay load)	<1 Amp
Operating temperature range	+50C to +500C
Storage temperature range	-200C to +650C
Environmental	Indoor use at altitudes up to 2000m, pollution degree 2, installation category II. Voltage fluctuations not to exceed $\pm$ 10% of nominal voltage.
Size	188mm (W) x 78.5mm (H) x 648mm (D)
Safety	EN61010-1: 2010
EMC	EN61326:2013
Ventilation	There is no requirement for forced cooling ventilation
Class 2 Insulation	No protective Earth is required and none should be fitted. Earth connection is functional only.
Connections	Relay and probe: RDM wiring harness PR0024 Power: 3 pin GST18 Lights: 3 pin M12 240V Fans: 2 pin M12 RS232: RJ45

## Ordering Information

Part Number	EEV Control	LLV Control	PWM Fans	230VAC Fans	LED Lighting
PR0029L	✓	✓	X	X	X
PR0029L ACF	✓	✓	X	✓	X
PR0033	X	✓	✓	X	X
PR0033E	✓	X	✓	X	X
PR0037	✓	✓	X	✓	✓



### Did you know?

This product is listed on the Energy Technology List (ETL) a government scheme that allows companies to claim 100% tax relief within the same year of purchase, representing a 19% cost saving. Please contact your account manager for more information or visit our **ECA webpage**.