RM Stelflow 300L High Gain Indirect

Unvented Hot Water Storage Cylinder • Model: TRSMVH-0300LFC

PRODUCT OVERVIEW

The **Joule RM Stelflow TRSMVH-0300LFC** represents the premium tier of unvented hot water solutions for residential and commercial dwellings. Specifically engineered with an ultra-high performance coil-in-coil heat exchanger, this 300-litre model is optimized to interface seamlessly with modern Air Source Heat Pumps (such as Samsung, Clivet, or any other leading manufacturer brands) as well as traditional high-efficiency boilers.

By utilizing a high-gain surface area design, the cylinder maximizes energy extraction from lower temperature renewable primary heat circuits, driving exceptionally quick recovery rates, minimized standing heat losses, and continuous high-flow hot water to single or multiple outlets simultaneously.

300L	C	85 W	63 min
NOMINAL CAPACITY	ERP ENERGY CLASS	STANDING LOSS	REHEAT TIME

KEY FEATURES & MATERIAL CONSTRUCTION

- **Duplex Stainless Steel Vessel:** Manufactured from superior high-grade Duplex Stainless Steel providing immense structural strength, superior corrosion resistance, and eliminating the need for sacrificial chemical anodes.
- **High Gain Primary Coil:** Features an engineered coil-in-coil heat exchanger configuration optimized for low carbon heat pump systems requiring quick heat recovery dynamics.
- **Advanced Thermal Insulation:** Formulated with eco-efficient injection insulation material boasting an Ozone Depletion Potential (ODP) of 0 and a Global Warming Potential (GWP) of only 1.
- **Aesthetic & Component Design:** Fitted with a ruggedized plastic T&P outer protection casing, sleek ergonomic design profile, and color-coded tapping collars for smooth site identification.

TECHNICAL SPECIFICATIONS & PERFORMANCE DATA

Parameter Details	
Item Code / SKU	TRSMVH-0300LFC
Product Group Range	RM Stelflow High Gain Indirect Standard
Nominal Water Volume	300 Litres
Height Dimensions	1970 mm

Parameter Details	
Diameter Dimensions	540 mm
ErP Energy Efficiency Rating	Class C
Standing Heat Loss Value	85 Watts
Annual Energy Consumption	356 kWh / Annum
Standard Reheat Time	63 Minutes
Sound Pressure Level (at 1m)	28 dBA

SYSTEM OPERATIONAL LIMITS & SAFETY ELEMENTS

Operational Parameter	Specification Limit
Max. Primary Circuit Pressure	3.5 Bar
Operating Ambient Temperature	0°C to +35°C (Relative Humidity < 80%)
Pipe Connection Profile	Female Threaded (Parallel/Tapered)
Auxiliary Component Drive	Compatible with Wilo-Yonos PARA RS 15 or equivalent

INCLUDED FACTORY INSTALLATION COMPONENTS KIT

To ensure full regulatory compliance (including Building Regulations G3 requirements), the unvented cylinder is shipped with a comprehensive premium component kit:

- **Inlet Control Group:** Integrated cold mains combo block with 22mm balanced cold draw-off port.
- **Temperature & Pressure Relief (T&P) Valve:** Factory pre-set and securely fitted to the upper shell casing.
- **3kW Electric Immersion Heater:** Heavy-duty elements pre-fitted with integrated safety stats (Requires proper earth line bonding).
- **Expansion Vessel & Bracket:** Appropriately sized external vessel for hot water expansion containment.
- **Tundish:** High-visibility 15mm x 22mm discharge unit.
- **Dual Cylinder Thermostat:** High limit and control thermostat.
- **2-Port Zone Valve:** Motorised auto-isolation safety valve preventing primary thermal overflow.

INSTALLATION AND SITING COMPLIANCE GUIDELINES

Installation must strictly follow the standard unvented water storage installation rules. Handling and transportation require a minimum of two persons to safely maneuver the dry weight vessel. Ensure the floor loading area is rated safely to handle the combined mass of the vessel filled to capacity.

If plastic pipework distribution is used, the material specification must be certified as temperature-resistant to withstand up to 95°C at a pressure rating of 10 Bar. No isolation valve may ever be placed between the safety relief configurations and the core vessel matrix.

Data Verification Reference: Compiled via Joule UK Technical Data Library and ErP Fiche Database Tool. Specifications are subject to nominal engineering changes without prior notification. Always consult your installer to verify property heat-load criteria before executing site works.
Manufacturer Site: Joule UK, Unit 3, Leftfield Park, Park Road, Pontefract, West Yorkshire, WF8 4PS, UK.