

## GENERAL INFORMATION

### CE MARKING

CE marking is a mandatory requirement on products sold in the European Economic Area (EEA) where EU Directives and legislation are applicable.

All MYSON products have been assessed against requirements and where applicable carry the CE mark.

### PACKAGING

All MYSON products are packed in robust packaging specially designed to ensure that the product reaches you in perfect condition.

### INHIBITORS

All products installed onto indirect hydronic systems must be cleaned and protected (includes the use of an inhibitor) in accordance with the Domestic Building Services Compliance Guide and to the British Standard Code of Practice for Water Treatment. Failure to meet the regulations under BS7593 compliance will invalidate the product warranty.

### SAFETY PRECAUTIONS

Radiators are hot when in use, and as such, present a risk of burns to users on prolonged contact. The temperature of a radiator is dependent on the temperature of the system water, as set by the system installer or user. Installers and users should ensure that those who may come into close proximity to hot radiators are aware of the risk of burns. Installers and users should take all necessary steps to minimise the risks of burns.

If the risk is significant, consideration should be given to installing low surface temperature radiators, or to placing guards in front of the radiators.

### FIXINGS

For the correct installation of radiators it is essential that the fixing of the radiator is carried out in such a way that it is suitable for intended use AND predictable misuse.

A number of elements need to be taken into consideration including the fixing method used to secure the radiator to the wall, the type and condition of the wall itself, and any additional potential forces or weights that may happen to be applied to the radiator, prior to finalising installation. **IN ALL CASES IT IS STRONGLY RECOMMENDED THAT A SUITABLY QUALIFIED PROFESSIONAL INSTALLER OR SIMILAR TRADESPERSON CARRIES OUT THE INSTALLATION.**

PLEASE NOTE: The fixing materials provided are only intended for installation on walls made of solid wood, bricks, concrete or on timber-frame stud walls where the fixing is into the timber. All walls being considered should have no more than a maximum of 3mm wall finishing. For walls made of other materials, for example hollow bricks, please consult your installer and/or specialist supplier. **ONCE AGAIN, IF YOU ARE UNSURE, IT IS STRONGLY RECOMMENDED THAT A SUITABLY QUALIFIED PROFESSIONAL INSTALLER OR SIMILAR TRADESPERSON CARRIES OUT THE INSTALLATION.**

### APPLICATION

Most MYSON products are for use on 2 pipe pumped indirect domestic and commercial central heating installations, with a maximum working temperature of 100°C. The system should be designed in accordance with BS EN 12828:2003 or BS EN 12831:2003 as appropriate, with particular care taken to avoid air entry or water discharge.

We do not recommend the use of single feed indirect cylinders, as the possibility of aeration due to water interchange may lead to corrosion. The installation work must be carried out in accordance with recognised good practice, and precautions taken to avoid contamination which could lead to corrosion. If a corrosion inhibitor or other water treatment is to be used, the Manufacturer's Instructions must be strictly followed.

The recommendations of BS 7593, Code of Practice for treatment of water in domestic hot water central heating systems, should be followed where appropriate.


When fitting any heat emitter in an extremely high humidity environment (for example a swimming pool area or sports changing facility) products manufactured from steel should be avoided.

### CERTIFICATION FOR NPD PRODUCTS

Products highlighted 'No Performance Declared' (NPD) have heat outputs below the measurable limits of EN 442 test methods and calculated outputs are therefore shown.

### DEZINCIFICATION

In certain areas, the local water can gradually remove zinc from brass alloys. This process is called dezincification and, on rare occasions and over time, can affect the integrity of a brass product.

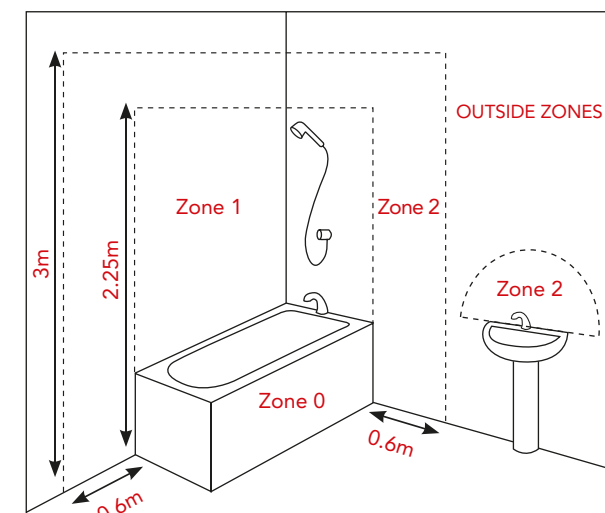
All MYSON brass products are manufactured using dezincification resistant brass. This, however, does not entirely eliminate the possibility of dezincification occurring. These products can be used on any hot water central heating system and are identified within the brochure using the  symbol. MYSON insist that you ask your heating engineer/installer if this problem applies to your area, as MYSON can not be held responsible for any resulting damage.

### ELECTRICAL INSTALLATION

All electrical models must be hard wired and installed in the correct orientation by a qualified electrician, in accordance with the IEE wiring regulations BS 7671.


### IP RATINGS

IP ratings are shown for all electrical products. This must be considered when installing in a location containing a bath or shower, as defined by BS 7671.



Suitable Zones

### WASTE DISPOSAL ACCORDING TO THE WEEE DIRECTIVE (2012/19/EU)

 Waste disposal according to the WEEE Directive (2012/19/EU). The symbol on the product label indicates that the product may not be handled as domestic waste, but must be sorted separately. When it reaches the end of its useful life, it shall be returned to a collection facility for electrical and electronic products.

By returning the product, you will help to prevent possible negative effects on the environment and health to which the product can contribute if it is disposed of as ordinary domestic waste. For information about recycling and collection facilities, you should contact your local authority/municipality or refuse collection service or the business from which you purchased the product. Applicable to countries where this Directive has been adopted.

### DUAL FUEL

This allows a hydronic product to be used if the central heating system is not active. The pipe centres featured in this brochure are based on hydronic products. When adding heater kits to multi-rails, a T-piece and element will be required that alters the pipe centre dimensions (see diagram). The difference in pipe centres featured are based on using MYSON valves. These differences may vary on other manufacturers' valves. For the most efficient operation, one valve should be open and one valve should be closed. Avoid closing both valves.

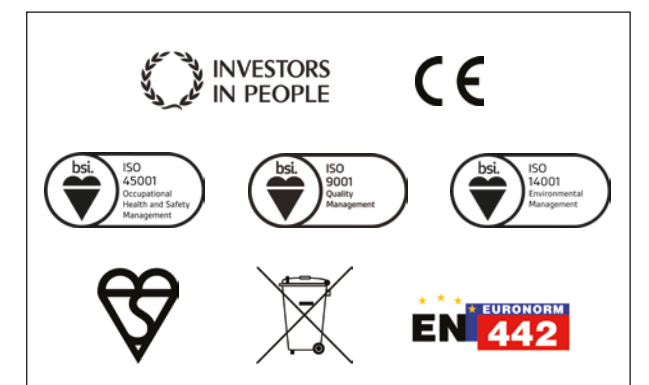
### AUTO POWER MANAGEMENT SYSTEM (APM®)

APM® represents the most advanced element technology available. It is an economical, self-regulating element. When it reaches the required temperature, it reduces power consumption accordingly. There is no need for a thermostat. The required temperature is achieved smoothly and stays constant. APM® is now fitted to all PTC and MHK heating elements and most MYSON electric units where stated.



Dual fuel heater kits pipe centre adjustment.

### CERTIFICATES AND ACCREDITATIONS




## COLOUR OPTIONS

The majority of products featured in this brochure are stocked in white (RAL 9016). Other colours are available on request (see below and right). **Please refer to individual product pages as not all products can be ordered in other RAL, sanitary or special colours.**

### STANDARD RAL COLOURS

MYSON offers the following RAL colours. If the colour you require is not included in this colour chart, please contact our customer services for availability. **Standard RAL colours are 70% gloss.**

 Traffic White RAL 9016	 Traffic Blue RAL 5017	 Red Violet RAL 4002	 Light Grey RAL 7035
 Pure White RAL 9010	 Night Blue RAL 5022	 Purple Violet RAL 4007	 Window Grey RAL 7040
 Cream RAL 9001	 Ultramarine Blue RAL 5002	 Signal Violet RAL 4008	 Silver Grey RAL 7001
 Traffic Yellow RAL 1023	 Green Blue RAL 5001	 Pastel Violet RAL 4009	 Dusty Grey RAL 7037
 Lemon Yellow RAL 1012	 Jet Black RAL 9005	 Light Pink RAL 3015	 Stone Grey RAL 7030
 Golden Yellow RAL 1004	 Black Grey RAL 7021	 Antique Pink RAL 3014	 Brown Grey RAL 7013
 Curry Yellow RAL 1027	 Dahlia Yellow RAL 1033	 Pastel Green RAL 6019	 Slate Grey RAL 7015
 Pastel Turquoise RAL 6034	 Pastel Orange RAL 2003	 Mint Turquoise RAL 6033	 Anthracite Grey RAL 7016
 Pigeon Blue RAL 5014	 Pure Orange RAL 2004	 Blue Green RAL 6004	 Graphite Grey RAL 7024
 Azure Blue RAL 5009	 Flame Red RAL 3000	 Chocolate Brown RAL 8017	 White Aluminium RAL 9006
 Sky Blue RAL 5015	 Wine Red RAL 3005	 Grey Brown RAL 8019	 Grey Aluminium RAL 9007

### SANITARY COLOURS

MYSON offers the following sanitary colours. If the colour you require is not included in this colour chart, please contact our customer services for availability. **Sanitary colours are 50% gloss.**

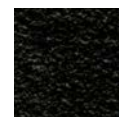

 Jasmine S0075	 Pergamon S0091	 Natural S0094	 Bahama Beige S0087
 Manhattan S0088			



### SPECIAL COLOURS

MYSON also offers the following textured, metallic and shimmer metallic colours.

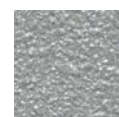
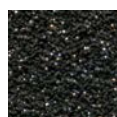

#### TEXTURED

 Black Textured S0141	 White Textured S0142
---	---

#### METALLIC

 Cream White S0145	 Light Grey S0143	 Brown Grey S0144	 Anodic Natural S0149
 Anodic Bronze S0146	 Anodic Brown S0147	 Anodic Black S0148	

#### SHIMMER METALLIC

 Metal Alu S0201	 Metal Black S0104	 Metal Grey S0102
--	--	---

All our non-stocked and special colour items are made to order. Should an order be cancelled after it has been placed with the factory an administration fee of 30% of the product value may be applied.

Please note: due to print restrictions exact colour match is not always possible, however every effort has been made to ensure as much accuracy as possible.



## HEAT OUTPUT CALCULATION

All heat outputs listed in this brochure are quoted at  $\Delta T_{30}$ , for low temperature systems, and  $\Delta T_{50}$ . To calculate outputs at alternative  $\Delta T$ , please use the following steps:

### Symbols used:

$t_1$  = Flow temperature  
 $t_2$  = Return temperature  
 $t_r$  = Ambient air temperature  
 $\Delta T$  = Delta T  
 $\Phi$  = Heat output

$\Delta T_{50}$  = Temperature difference between water and air

### EG:

$$\Delta T = \left( \frac{t_1 + t_2}{2} \right) - t_r$$

$t_1 = 75^\circ\text{C}$ ,  $t_2 = 65^\circ\text{C}$ ,  $t_r = 20^\circ\text{C}$

### Therefore:

$$\Delta T = \left( \frac{75 + 65}{2} \right) - 20$$

$\Delta T = 50$  (shown as  $\Delta T_{50}$ )

$\Delta T_x$  = If other conditions are used then a new  $\Delta T$  needs to be determined:

### EG:

For the condition 80/70/18

$$\Delta T_x = \left( \frac{t_1 + t_2}{2} \right) - t_r$$

$t_1 = 80^\circ\text{C}$ ,  $t_2 = 70^\circ\text{C}$ ,  $t_r = 18^\circ\text{C}$

### Therefore:

$$\Delta T_x = \left( \frac{80 + 70}{2} \right) - 18$$

$\Delta T_x = 57$  (shown as  $\Delta T_{57}$ )

$\Phi_{\Delta T_{50}}$  = Heat output at  $\Delta T_{50}$  or the condition 75/65/20

### EG:

A MYSON PLAN COMPACT 60 PD 100G  
 (600x1000 T22) gives 1676W @  $\Delta T_{50}$

$\Phi_{\Delta T_x}$  = Heat output at an alternative  $\Delta T$  or condition to  $\Delta T_{50}$  or 75/65/18

### EG:

For  $\Delta T_{57}$  or the condition 80/70/18  
 (see example above)

$$\Phi_{\Delta T_x} = \Phi_{\Delta T_{50}} \times \left( \frac{\Delta T_x}{\Delta T_{50}} \right)^n$$

$\Phi_{\Delta T_x} = \Phi_{\Delta T_{57}}$ ,  $\Phi_{\Delta T_{50}} = 1676\text{W}$ ,  $\Delta T_x = \Delta T_{57} = 57$ ,  
 $\Delta T_{50} = 50$ ,  $n = 1.3295$  (see individual product pages for n-coefficients)

### Therefore:

$$\Phi_{\Delta T_x} = 1676 \times \left( \frac{57}{50} \right)^{1.3295}$$

$\Phi_{\Delta T_{57}} = 1994\text{W}$

## PRODUCT WARRANTY

EFFECTIVE FROM 1ST OCTOBER 2016

Purmo Group products have been designed and tested to give you many years of trouble-free service. For your additional peace of mind, Purmo Group gives the following Warranty. Your statutory rights are not affected by this Warranty.

Subject as provided below, Purmo Group warrants to the original purchaser at the original installation site that its products will be free from defects in materials and workmanship for the following periods:

- Panel Radiators: 10 years from date of purchase.\*
- Design Radiators: 10 years from date of purchase.
- Radiators (ULOW-E2): 2 years from date of purchase.
- Fan Convectors: 2 years from date of purchase.
- Radiator Valves: 2 years from date of purchase.
- Hydronic Underfloor Heating: 10 years for the pipe from date of purchase. 2 years for controls and 12 months for the UFH pump from date of purchase.
- Electric Underfloor Heating: 10 years from date of purchase (except programmer and sensor).
- Electric Radiators: 2 years from date of purchase.
- Towel Warmers - Hydronic: 5 to 10 years from date of purchase depending on product type.
- Towel Warmers - Electric: 2 years from date of purchase.
- Controls: 2 years from date of purchase.

\*Any panel radiator installed in high humidity areas (such as bathrooms etc.) are subjected to a 12 month Warranty only.

The original purchaser's remedy for breach of this Warranty is expressly limited to repair or replacement of any part or parts found to be defective under conditions of normal service and use during the above Warranty period and does not extend to Purmo Group being liable for any incidental, special or consequential damages or losses whatsoever, such as loss of use of the product, inconvenience or lost profits.

This Warranty does not cover any defect, damage or malfunction in the product which is due to: failure to comply in any respect with Purmo Group's installation, maintenance or operating instructions; faulty storage, handling, installation or repair; mis-use; neglect; accident; abuse; or general wear and tear.

Before this Warranty can be activated, the original purchaser will be required to prove, with supporting documentation, the date and place of purchase, as Purmo Group may need to conduct its investigation into the alleged defect. This should be within 28 days of the date when the defect was discovered or ought to have reasonably discovered the defect.

Purmo Group (UK) Ltd. reserves the right to make a reasonable charge for inspecting and testing any product which is subject to a Warranty claim and the rights conferred by the Warranty are conditional upon the payment of such charge. The charge may be made, at Purmo Group (UK) Ltd's discretion, either before or after the inspection and testing of the product. In the event that it is established to Purmo Group (UK) Ltd's reasonable satisfaction that a valid Warranty claim has been made in respect of the product, then any inspection charge which has been paid will be refunded in full by Purmo Group (UK) Ltd.

## INDEX

PRODUCT	PAGE
ANGARA	134
AUTOMATIC BYPASS VALVES	257
AVONMORE	132
AVONMORE ELECTRIC	222
AWE	122
BANI	110
BUTTERMERE	123
CLIPRAIL	183
COLUMN	85
COLUMN ACCESSORIES	89
COLUMN ELECTRIC	220
CONTROL PACKS	274
DÉCOR	91
DÉCOR ELECTRIC	218
DECORATIVE (MANUAL VALVE)	242
DEE	124
DIRECT FIT TRV KIT	252
ELECTRIC UNDERFLOOR HEATING	228
EURO LOCKSHIELD	240
FATALA	111
FERLO	136
FINESSE	212
FLOATING FLOOR	189
FULLFLOW	238
HI-LINE LV	156
HI-LINE RC	156
HI-LINE SUPER RC	156
INN	126
INNOKO	226
INTERLUDE	114
iVECTOR MKII	164
KASAI	112
KICKSPACE®	150
KICKSPACE® CONTROLS, ACCESSORIES & GRILLES	155
LINDI	138
LO-LINE RC	156
LST (LOW SURFACE TEMPERATURE)	43
LST (LOW SURFACE TEMPERATURE) VERTICAL	43
LST (LOW SURFACE TEMPERATURE) TRV KITS	252
MANIFOLDS (PREMIUM)	198
MARANO	115
MATCHMASTER	236
MATCHMATE	234
MCT1	266
MEP1C	270
MEP2C	270
MEP3C	270
MERSEY	116
MICROBOARD	190
MOTORISED VALVES & ACCESSORIES	272
MPRT	267
MRT1	264
MRTE	265
MULTI-LAYER PIPE	195
NAKED PREFORMED PLATE	185
OPUS	101
OUSE	117
PETITE (VALVE)	248
PEXCELLENTS PIPE	194
PICO	140

PRODUCT	PAGE
PLAN	53
PLAN PLUS	53
PLAN PLUS VERTICAL	53
PLAN VERTICAL	53
PLAN VERTICAL & PLAN PLUS VERTICAL ACCESSORIES	60
PLATED	187
PREFORMED PLATE	184
PREMIER COMPACT	17
PREMIER HE	17
PREMIER METRIC	17
PUMP PACK (PREMIUM)	200
RADIATOR VALVE PACKS	256
REMOTE THERMOSTATS	254
RIO COMPACT	214
RIO LINEA	214
RIO PLAN	214
SAXBY	127
SELECT COMPACT	31
SLIMLINE DECORATIVE (MANUAL VALVE)	244
SLIMLINE DECORATIVE (TRV)	250
SLIM-LINE RC	156
SOKOTO	118
STOUR	119
SUBPLATE	188
T6 COMPACT	63
T6 PLAN	63
T6 COMPACT & T6 PLAN ACCESSORIES	72
TACKER	186
TACKERNAIL	182
TAMAR	224
THIRLMERE	128
TOUCH	268
TOUCH2 WIFI	269
TOUCH4	271
TOWEL WARMER VALVES & ACCESSORIES	144
TRV 2-WAY	246
TRV BODIES & ACCESSORIES	258
TYNE	142
ULLSWATER	129
ULOW-E2	75
ULOW-E2 ACCESSORIES	79
UNDERFLOOR HEATING	173
ADAPTORS	199
FIXING SYSTEMS	181
MANIFOLDS (PREMIUM)	198
PIPE	193
PUMP PACK (PREMIUM)	200
SINGLE ROOM PACKS	205
THERMOSTATS & PROGRAMMERS	203
WIRING CENTRES & ACCESSORIES	202
UNIVERSAL CLOSE COUPLED TRV KIT	252
VERTICAL	37
VERTICAL ACCESSORIES	40

In accordance with our policy of continual product improvement we reserve the right to amend the specification of these products or discontinue products without prior notification. We have compiled the content of this literature to the best of our knowledge. Any typographical, clerical or other error or omission in any literature issued by us will be subject to correction without liability being incurred by us. All rights reserved. No part of this document may be reproduced by any means without prior written consent.

Please note: due to print restrictions exact colour match is not always possible, however every effort has been made to ensure as much accuracy as possible.