

Instructions

# StarFish<sup>™</sup> Water & Gas/Vacuum Distribution Manifolds

Your Local Distributor

Radleys Discovery Technologies Shire Hill, Saffron Walden, Essex, CB11 3AZ. United Kingdom. Tel: +44-1799-513320 Fax: +44-1799-513283 Email: sales@radleys.co.uk Web: www.radleys.com

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### Thank you for purchasing your StarFish Distribution Manifold

### Please read this Instruction Manual thoroughly before operating your unit.

### Introduction

## The StarFish Distribution Manifolds form part of the StarFish family of products that enable you to perform productive heating and stirring experiments using existing glassware and stirring hotplates.

The versatile Distribution Manifolds allow a coolant or a gas / vacuum to be evenly distributed to up to five vessels simultaneously.

Space saving.....

Innovative compact design saves space.

### Safe working.....

Separate and easily identifiable Water and Gas / Vacuum Manifolds to prevent incorrect connection of fluid and gas supplies

### Productivity .....

Quick release connectors on inlet and outlets for quick and easy connection to vessels

### Versatility .....

All connectors feature leak proof shut off valves that automatically close when the couplings are parted, allowing manifolds to be used with any number of condensers without daisy chaining.

### Warranty

The Water and Gas Vacuum Manifolds include one year full parts and labour warranty from date of original purchase. Warranty will only be valid if a completed **Warranty Email Back** is returned within 1 month of date of purchase (see last page).

> In the event of product failure please contact your local distributor. Please do not return any goods without prior agreement.

### **Safety Information**

The following symbols are intended to assist the user in the safe and efficient operation of the StarFish.



### Important WARNINGS

Please read these instructions completely before using your Distribution Manifold.

Operate only in a fume cupboard with protective safety sash.

To avoid the build up of lime scale in the Water Distribution Manifold, please avoid the use of hard water.

The Manifolds are only suitable for the distribution of water (RR95500) or inert gas/vacuum (RR95510).

The Distribution Manifold should only be operated by trained and competent personnel. As with all chemistry, care should be taken to monitor your experiment at all stages. The Manifold should not be left unattended unless in a supervised area.



#### **Important Note**

Water Manifold RR95500 is fitted with a female inlet/outlet connector, whilst the Gas/Vacuum Manifold RR95510 is fitted with a male inlet/outlet connector. This prevents incorrect connection of fluid and gas supplies.



### Warning

The manifold can be used for both vacuum and gas purging.

The maximum operating pressure is 3psi above atmospheric pressure and a vacuum of approximately 150 to 125mBar.



### **Important Note**

All of the connectors feature leak-proof shut-off valves that are automatically closed when the couplings are parted. This enables the manifold to be used with any number of vessels (up to five) without daisy-chaining.



### Warning

Acetal Quick release fittings may be adversley affected by direct exposure to chemical solutions or vapours.

### **Products & Accessories**

oat No.	Description	uty
StarFish Distributio	n Manifolds	
RR95500	Water Manifold with connectors	1
RR95510	Gas/Vacuum Manifold with connectors	1
2005520	B/Angle 6.4mm Connector + shut off	5
KK90020	R/Angle 6.4mm Connector + shut-on	5
R95525	Water Manifold 9.6mm Connector + shut-off	1
RR95530	Gas Manifold 9.6mm Connector + shut-off	1
RR95535	Tubing for Manifold outlets 15m x 6.4mm	1
RR95540	Tubing for Manifold inlets 15m x 8mm	1
Stirring Hotplates		
RR98072	Carousel Stirring Hotplate 230v UK Plug (similar to IKA RCT)	1
RR98073	Carousel Temperature Controller (similar to IKA RCT)	1
R95810	Cimarec 2 Digital Stir Hotplate 240v UK	1
2205820	Heidolph MR3001K Stir Hotolate 240v LIK	1
	Heidolph Mitsoont Sui Holpiale 2400 OK	1
KK95825	Heidolph EK 13001 Temp Control 240V UK	1
RR95830	Stuart SB162 Stir Hotplate 240v UK	1
RR95835	Stuart SD162 Digital Stir Hotplate 240v UK	1
StarFish Bases		4
K85010	Star⊢ish Base Plate 135mm (for RDT & IKA)	1
RR95020	StarFish Base Plate 145mm (for Heidolph)	1
RR95030	StarFish Base Plate 150mm (for Evela)	1
R95040	StarFish Base Plate 184mm x 184mm (for Cimarec)	1
	Star Fish Dase Plate 160mm v 160mm (for Struct)	1
KR95050	Starrish base Plate rounin x rounin (for Stuart)	I
Basa Plata Handles		
R95100	StarFish Base Plate Handles (Pair)	1
VonoBlocks		
R895130	MonoBlock for 5 x 250ml Elasks	1
	Monoblock for 6 x 200mm Hasks	4
100	WONOBIOCK IOF TO X 25IIIII TUDES	l
R95140	MonoBlock for 16 x 24mm Tubes	1
R895145	MonoBlock for 40 x 16mm Tubes	1
R895150	MonoBlock for 40 x 12mm Tubes	1
2R05155	MonoBlock for 20 x 21mm Vials (4 dram)	1
		1
RR95160	MONOBIOCK for 40 X 17mm Viais (2 dram)	1
RR95165	MonoBlock for 40 x 15mm Vials (1 dram)	1
RR95170	MonoBlock for 40 x 12mm vial (2ml)	1
PolyBlocks		
RR95230	PolyBlock for 1 x 250ml Flask	1
RR95235	PolvBlock for 3 x 25mm Tubes	1
R95240	PolyBlock for 3 x 24mm Tubes	1
	DelyBlock for 0 x 16mm Tubes	1
KR90240	POlyblock for 9 x Tomin Tubes	l
RR95250	PolyBlock for 9 x 12mm Tubes	1
RR95255	PolyBlock for 3 x 21mm Vials (4 dram)	1
RR95260	PolyBlock for 7 x 17mm x Vials (2 dram)	1
	<b>DelyBlock</b> for 0 x 15mm x Vialo (1 dram)	1
		1
R85270	POlyBIOCK for 9 x 12mm x viais (2mi)	1
StarFish Incorte		
R95330	150ml Flask Insert	1
DD05335	100ml Elock Incort	1
1130000		
≺K95340	50ml Flask Insert	1
RR95345	25ml Flask Insert	1
R895350	10ml Flask Insert	1
R95355	5ml Flask Insert	1
		·
StarFish Support R	ods	
R95665	650mm Rod	1
R95666	650mm Split Rod	1
StarFish Clamp		
KY95400	Universal Telescopic 5-way Clamp (with Velcro)	1
RR95430	Replacement Self Adhesive Velcro Pads	10
RR95440	Replacement Velcro Loop Strips 200mm	5
RR99613	Pivot Ring Stirring Bar 15mm	40
	Spinring Stirring Bar 31mm	1
R895925	Spinning Stiming Day (Amer	4
RR95925 RR95926	3010000 301000 Bar 44000	1
RR95925 RR95926	Spinning Sunnig Bar 44mm	1
RR95925 RR95926 RR95927	Spinning Suring Bar 44000 Spinning Stirring Bar 57mm	1

### **Products & Accessories**

Test Tubes		
Test Tubes		100
RR94005	24x150 1/Tube with Rim (Medium Wall)	100
RR94010	24x150 T/Tube without Rim (Medium Wall)	100
RR94015	16x100 T/Tube with Rim (Medium Wall)	100
PP04020	16x100 T/Lubo without Pim (Modum Woll)	100
NN34020		100
RR94025	12x100 I/Tube with Rim (Medium Wall)	100
RR94030	12x100 T/Tube without Rim (Medium Wall)	100
Round Bottom Flas	ke	
DD04050	- 250ml Dound Dottom Flool: 24/20 Societ	F
RR94050	250ml Round Bottom Flask 24/29 Socket	5
RR94055	250ml Round Bottom Flask 19/26 Socket	5
RR94060	150ml Round Bottom Flask 24/29 Socket	5
RR94065	150ml Round Bottom Flask 19/26 Socket	5
DD04030		5
RR94070	100ml Round Bottom Flask 24/29 Socket	5
RR94075	100ml Round Bottom Flask 19/26 Socket	5
RR94080	50ml Round Bottom Flask 24/29 Socket	5
RR94085	50ml Round Bottom Elask 19/26 Socket	5
DD04000	25ml Round Dattern Flack 2/20 Coalect	5
RR94090	23111 Round Bottom Flask 24/29 Socket	5
RR94095	25ml Round Bottom Flask 19/26 Socket	5
RR94100	10ml Round Bottom Flask 14/23 Socket	5
RR94105	10ml Round Bottom Flask 10/19 Socket	5
PP0/110	Smil Pound Bottom Flack 14/23 Socket	5
11134110	Shi Kudi da Butun Fiask 14/23 Socket	5
RR94115	5ml Round Bottom Flask 10/19 Socket	5
Round Bottom Flas	ks with Sidearm	
RR94150	250ml R/B Flask 24/29 with 19/26 Sidearm	2
PP0/155	100m P/R Elosk 24/20 with 10/26 Sidoarm	- 2
1(1(341))		2
RR94160	50ml R/B Flask 14/23 with 14/23 Sidearm	2
RR94165	25ml R/B Flask 14/23 with 14/23 Sidearm	2
Condensers		
RR94180	Liebig Condenser 208mm 19/26	1
DD04195	Liebig Condensor 200mm 2/20	4
KK94105	Liebig Condenser 250mm 24/29	1
RR94195	Coil Condenser 165mm 19/26	1
RR94200	Coil Condenser 165mm 24/29	1
RR94210	Allihn Condenser 250mm 19/26	1
RR9/215	Allihn Condenser 250mm 21/29	1
11134213		
Soxhlet		
Soxhlet RR94230	20ml Soxhlet 19/26 Cone 24/29 Socket	1
<b>Soxhlet</b> RR94230 RR94235	20ml Soxhlet 19/26 Cone 24/29 Socket	1
<b>Soxhlet</b> RR94230 RR94235 BB04240	20ml Soxhlet 19/26 Cone 24/29 Socket 40ml Soxhlet 24/29 Cone 29/32 Socket	1 1
Soxhlet RR94230 RR94235 RR94240	20ml Soxhlet 19/26 Cone 24/29 Socket 40ml Soxhlet 24/29 Cone 29/32 Socket 60ml Soxhlet 24/29 Cone 34/25 Socket	1 1 1
<b>Soxhlet</b> RR94230 RR94235 RR94240 RR94245	20ml Soxhlet 19/26 Cone 24/29 Socket 40ml Soxhlet 24/29 Cone 29/32 Socket 60ml Soxhlet 24/29 Cone 34/25 Socket 100ml Soxhlet 24/29 Cone 40/38 Socket	1 1 1
<b>Soxhlet</b> RR94230 RR94235 RR94240 RR94245	20ml Soxhlet 19/26 Cone 24/29 Socket 40ml Soxhlet 24/29 Cone 29/32 Socket 60ml Soxhlet 24/29 Cone 34/25 Socket 100ml Soxhlet 24/29 Cone 40/38 Socket	1 1 1 1
Soxhlet RR94230 RR94235 RR94240 RR94245 Cat No.	20ml Soxhlet 19/26 Cone 24/29 Socket 40ml Soxhlet 24/29 Cone 29/32 Socket 60ml Soxhlet 24/29 Cone 34/25 Socket 100ml Soxhlet 24/29 Cone 40/38 Socket Description	1 1 1 1 Qty
Soxhlet RR94230 RR94235 RR94240 RR94245 Cat No.	20ml Soxhlet 19/26 Cone 24/29 Socket 40ml Soxhlet 24/29 Cone 29/32 Socket 60ml Soxhlet 24/29 Cone 34/25 Socket 100ml Soxhlet 24/29 Cone 40/38 Socket Description	1 1 1 1 Qty
Soxhlet RR94230 RR94235 RR94240 RR94245 Cat No. Bight Angle Adapte	20ml Soxhlet 19/26 Cone 24/29 Socket 40ml Soxhlet 24/29 Cone 29/32 Socket 60ml Soxhlet 24/29 Cone 34/25 Socket 100ml Soxhlet 24/29 Cone 40/38 Socket Description	1 1 1 2 Qty
Soxhlet RR94230 RR94235 RR94240 RR94245 Cat No. Right Angle Adapte	20ml Soxhlet 19/26 Cone 24/29 Socket 40ml Soxhlet 24/29 Cone 29/32 Socket 60ml Soxhlet 24/29 Cone 34/25 Socket 100ml Soxhlet 24/29 Cone 40/38 Socket Description	1 1 1 Qty
Soxhlet RR94230 RR94235 RR94240 RR94245 Cat No. Right Angle Adapte RR94260	20ml Soxhlet 19/26 Cone 24/29 Socket 40ml Soxhlet 24/29 Cone 29/32 Socket 60ml Soxhlet 24/29 Cone 34/25 Socket 100ml Soxhlet 24/29 Cone 40/38 Socket Description rs Adapter B19 Cone to SQ13 Screwthread	1 1 1 Qty
Soxhlet RR94230 RR94235 RR94240 RR94245 Cat No. Right Angle Adapte RR94260 RR94265	20ml Soxhlet 19/26 Cone 24/29 Socket 40ml Soxhlet 24/29 Cone 29/32 Socket 60ml Soxhlet 24/29 Cone 34/25 Socket 100ml Soxhlet 24/29 Cone 40/38 Socket Description rs Adapter B19 Cone to SQ13 Screwthread Adapter B24 Cone to SQ13 Screwthread	1 1 1 2 <b>Qty</b> 5 5
Soxhlet RR94230 RR94235 RR94240 RR94245 Cat No. Right Angle Adapter RR94260 RR94265 RR94270	20ml Soxhlet 19/26 Cone 24/29 Socket 40ml Soxhlet 24/29 Cone 29/32 Socket 60ml Soxhlet 24/29 Cone 34/25 Socket 100ml Soxhlet 24/29 Cone 40/38 Socket Description rs Adapter B19 Cone to SQ13 Screwthread Adapter B24 Cone to SQ13 Screwthread Adapter B29 Cone to SQ13 Screwthread	1 1 1 Q <b>ty</b> 5 5 5
Soxhlet RR94230 RR94235 RR94240 RR94245 Cat No. Right Angle Adapter RR94260 RR94265 RR94270 RR94275	20ml Soxhlet 19/26 Cone 24/29 Socket 40ml Soxhlet 24/29 Cone 29/32 Socket 60ml Soxhlet 24/29 Cone 34/25 Socket 100ml Soxhlet 24/29 Cone 40/38 Socket Description s Adapter B19 Cone to SQ13 Screwthread Adapter B24 Cone to SQ13 Screwthread Adapter B34 Cone to SQ13 Screwthread Adapter B34 Cone to SQ13 Screwthread	1 1 1 2 4 5 5 5 5 5 5 5
Soxhlet RR94230 RR94235 RR94240 RR94245 Cat No. Right Angle Adapter RR94260 RR94265 RR94270 RR94275	20ml Soxhlet 19/26 Cone 24/29 Socket 40ml Soxhlet 24/29 Cone 29/32 Socket 60ml Soxhlet 24/29 Cone 34/25 Socket 100ml Soxhlet 24/29 Cone 40/38 Socket Description rs Adapter B19 Cone to SQ13 Screwthread Adapter B24 Cone to SQ13 Screwthread Adapter B29 Cone to SQ13 Screwthread Adapter B34 Cone to SQ13 Screwthread	1 1 1 2 <b>Qty</b> 5 5 5 5 5
Soxhlet RR94230 RR94235 RR94240 RR94245 Cat No. Right Angle Adapter RR94260 RR94265 RR94270 RR94275 Backers	20ml Soxhlet 19/26 Cone 24/29 Socket 40ml Soxhlet 24/29 Cone 29/32 Socket 60ml Soxhlet 24/29 Cone 34/25 Socket 100ml Soxhlet 24/29 Cone 40/38 Socket Description rs Adapter B19 Cone to SQ13 Screwthread Adapter B24 Cone to SQ13 Screwthread Adapter B29 Cone to SQ13 Screwthread Adapter B34 Cone to SQ13 Screwthread	1 1 1 Qty 5 5 5 5 5
Soxhlet RR94230 RR94235 RR94240 RR94245 Cat No. Right Angle Adapter RR94260 RR94265 RR94270 RR94275 Beakers BP04250	20ml Soxhlet 19/26 Cone 24/29 Socket 40ml Soxhlet 24/29 Cone 29/32 Socket 60ml Soxhlet 24/29 Cone 34/25 Socket 100ml Soxhlet 24/29 Cone 40/38 Socket Description rs Adapter B19 Cone to SQ13 Screwthread Adapter B24 Cone to SQ13 Screwthread Adapter B29 Cone to SQ13 Screwthread Adapter B34 Cone to SQ13 Screwthread	1 1 1 2 2 5 5 5 5 5 5
Soxhlet RR94230 RR94235 RR94240 RR94245 Cat No. Right Angle Adapter RR94260 RR94265 RR94270 RR94275 Beakers RR94250	20ml Soxhlet 19/26 Cone 24/29 Socket 40ml Soxhlet 24/29 Cone 29/32 Socket 60ml Soxhlet 24/29 Cone 34/25 Socket 100ml Soxhlet 24/29 Cone 40/38 Socket <b>Description</b> TS Adapter B19 Cone to SQ13 Screwthread Adapter B24 Cone to SQ13 Screwthread Adapter B29 Cone to SQ13 Screwthread Adapter B34 Cone to SQ13 Screwthread	1 1 1 2 <b>Qty</b> 5 5 5 5 5 5
Soxhlet RR94230 RR94235 RR94240 RR94245 Cat No. Right Angle Adapte RR94260 RR94265 RR94270 RR94275 Beakers RR94350 RR94355	20ml Soxhlet 19/26 Cone 24/29 Socket 40ml Soxhlet 24/29 Cone 29/32 Socket 60ml Soxhlet 24/29 Cone 34/25 Socket 100ml Soxhlet 24/29 Cone 40/38 Socket <b>Description</b> TS Adapter B19 Cone to SQ13 Screwthread Adapter B24 Cone to SQ13 Screwthread Adapter B34 Cone to SQ13 Screwthread	1 1 1 2 <b>Qty</b> 5 5 5 5 5 5
Soxhlet RR94230 RR94235 RR94240 RR94245 Cat No. Right Angle Adapter RR94260 RR94265 RR94270 RR94275 Beakers RR94350 RR94355 RR94360	20ml Soxhlet 19/26 Cone 24/29 Socket 40ml Soxhlet 24/29 Cone 29/32 Socket 60ml Soxhlet 24/29 Cone 34/25 Socket 100ml Soxhlet 24/29 Cone 40/38 Socket <b>Description</b> <b>rs</b> Adapter B19 Cone to SQ13 Screwthread Adapter B24 Cone to SQ13 Screwthread Adapter B29 Cone to SQ13 Screwthread Adapter B34 Cone to SQ13 Screwthread Soml Beaker 150ml Beaker	1 1 1 2 4 5 5 5 5 5 5 5 5 5 5 10 10 10
Soxhlet RR94230 RR94235 RR94240 RR94245 Cat No. Right Angle Adapter RR94260 RR94265 RR94270 RR94275 Beakers RR94350 RR94355 RR94360 RR94365	20ml Soxhlet 19/26 Cone 24/29 Socket 40ml Soxhlet 24/29 Cone 29/32 Socket 60ml Soxhlet 24/29 Cone 34/25 Socket 100ml Soxhlet 24/29 Cone 40/38 Socket <b>Description</b> 75 Adapter B19 Cone to SQ13 Screwthread Adapter B24 Cone to SQ13 Screwthread Adapter B29 Cone to SQ13 Screwthread Adapter B34 Cone to SQ13 Screwthread 250ml Beaker 100ml Beaker 50ml Beaker	1 1 1 2 2 5 5 5 5 5 5 5 5 5 5 5 5 5
Soxhlet RR94230 RR94235 RR94240 RR94245 Cat No. Right Angle Adapter RR94260 RR94265 RR94270 RR94275 Beakers RR94350 RR94355 RR94360 RR94365	20ml Soxhlet 19/26 Cone 24/29 Socket 40ml Soxhlet 24/29 Cone 29/32 Socket 60ml Soxhlet 24/29 Cone 34/25 Socket 100ml Soxhlet 24/29 Cone 40/38 Socket <b>Description</b> TS Adapter B19 Cone to SQ13 Screwthread Adapter B24 Cone to SQ13 Screwthread Adapter B29 Cone to SQ13 Screwthread Adapter B34 Cone to SQ13 Screwthread 250ml Beaker 150ml Beaker 100ml Beaker 50ml Beaker	1 1 1 2 <b>Qty</b> 5 5 5 5 5 5 5 5 10 10 10 10
Soxhlet RR94230 RR94240 RR94245 Cat No. Right Angle Adapter RR94260 RR94265 RR94265 RR94275 Beakers RR94355 RR94355 RR94365 Conicol Elector	20ml Soxhlet 19/26 Cone 24/29 Socket 40ml Soxhlet 24/29 Cone 29/32 Socket 60ml Soxhlet 24/29 Cone 34/25 Socket 100ml Soxhlet 24/29 Cone 40/38 Socket <b>Description</b> <b>rs</b> Adapter B19 Cone to SQ13 Screwthread Adapter B24 Cone to SQ13 Screwthread Adapter B29 Cone to SQ13 Screwthread Adapter B34 Cone to SQ13 Screwthread Soml Beaker 150ml Beaker 100ml Beaker	1 1 1 <b>Qty</b> 5 5 5 5 5 5 5 10 10 10 10 10
Soxhlet           RR94230           RR94235           RR94240           RR94245           Cat No.           Right Angle Adapter           RR94260           RR94265           RR94270           RR94275           Beakers           RR94350           RR94355           RR94360           RR94365           Conical Flasks           DD1400	20ml Soxhlet 19/26 Cone 24/29 Socket 40ml Soxhlet 24/29 Cone 29/32 Socket 60ml Soxhlet 24/29 Cone 34/25 Socket 100ml Soxhlet 24/29 Cone 40/38 Socket <b>Description</b> <b>*</b> Adapter B19 Cone to SQ13 Screwthread Adapter B24 Cone to SQ13 Screwthread Adapter B29 Cone to SQ13 Screwthread Adapter B34 Cone to SQ13 Screwthread Soml Beaker 150ml Beaker 50ml Beaker	1 1 1 2 2 5 5 5 5 5 5 5 5 5 5 5 5 5
Soxhlet RR94230 RR94235 RR94240 RR94245 Cat No. Right Angle Adapter RR94260 RR94265 RR94270 RR94270 RR94275 Beakers RR94350 RR94350 RR94365 Conical Flasks RR94380	20ml Soxhlet 19/26 Cone 24/29 Socket 40ml Soxhlet 24/29 Cone 29/32 Socket 60ml Soxhlet 24/29 Cone 34/25 Socket 100ml Soxhlet 24/29 Cone 40/38 Socket <b>Description</b> 75 Adapter B19 Cone to SQ13 Screwthread Adapter B24 Cone to SQ13 Screwthread Adapter B29 Cone to SQ13 Screwthread Adapter B34 Cone to SQ13 Screwthread Soml Beaker 150ml Beaker 100ml Beaker 50ml Beaker	1 1 1 2 <b>Qty</b> 5 5 5 5 5 5 5 5 5 10 10 10 10
Soxhlet RR94230 RR94235 RR94240 RR94245 Cat No. Right Angle Adapter RR94260 RR94265 RR94270 RR94275 Beakers RR94350 RR94355 RR94350 RR94365 Conical Flasks RR94380 RR94380 RR94385	20ml Soxhlet 19/26 Cone 24/29 Socket 40ml Soxhlet 24/29 Cone 29/32 Socket 60ml Soxhlet 24/29 Cone 34/25 Socket 100ml Soxhlet 24/29 Cone 40/38 Socket <b>Description</b> 78 Adapter B19 Cone to SQ13 Screwthread Adapter B24 Cone to SQ13 Screwthread Adapter B29 Cone to SQ13 Screwthread Adapter B34 Cone to SQ13 Screwthread Soml Beaker 150ml Beaker 100ml Beaker 50ml Beaker 250ml Conical Flask Narrow Neck	1 1 1 <b>Qty</b> 5 5 5 5 5 10 10 10 10 10 10 10 10
Soxhlet           RR94230           RR94235           RR94240           RR94245           Cat No.           Right Angle Adapte           RR94265           RR94265           RR94270           RR94275           Beakers           RR94350           RR94355           RR94360           RR94365           Conical Flasks           RR94385           RR94380           RR94390	20ml Soxhlet 19/26 Cone 24/29 Socket 40ml Soxhlet 24/29 Cone 29/32 Socket 60ml Soxhlet 24/29 Cone 34/25 Socket 100ml Soxhlet 24/29 Cone 40/38 Socket <b>Description</b> 78 Adapter B19 Cone to SQ13 Screwthread Adapter B24 Cone to SQ13 Screwthread Adapter B29 Cone to SQ13 Screwthread Adapter B34 Cone to SQ13 Screwthread Soml Beaker 150ml Beaker 50ml Beaker 50ml Beaker	1 1 1 1 <b>Qty</b> 5 5 5 5 5 5 5 10 10 10 10 10 10 10 10 10 10
Soxhlet RR94230 RR94235 RR94240 RR94245 Cat No. Right Angle Adapter RR94260 RR94265 RR94270 RR94270 RR94275 Beakers RR94350 RR94355 RR94360 RR94365 Conical Flasks RR94380 RR94385 RR94390 RR94395	20ml Soxhlet 19/26 Cone 24/29 Socket 40ml Soxhlet 24/29 Cone 29/32 Socket 60ml Soxhlet 24/29 Cone 34/25 Socket 100ml Soxhlet 24/29 Cone 40/38 Socket <b>Description</b> 75 Adapter B19 Cone to SQ13 Screwthread Adapter B24 Cone to SQ13 Screwthread Adapter B29 Cone to SQ13 Screwthread Adapter B34 Cone to SQ13 Screwthread Soml Beaker 150ml Beaker 100ml Beaker 50ml Beaker 50ml Conical Flask Narrow Neck 150ml Conical Flask Narrow Neck	1 1 1 1 <b>Qty</b> 5 5 5 5 5 5 5 10 10 10 10 10 10 10 10 10 10
Soxhlet RR94230 RR94235 RR94240 RR94245 Cat No. Right Angle Adapter RR94265 RR94270 RR94275 Beakers RR94275 Beakers RR94350 RR94355 RR94365 Conical Flasks RR94380 RR94380 RR94390 RR94395	20ml Soxhlet 19/26 Cone 24/29 Socket 40ml Soxhlet 24/29 Cone 39/25 Socket 60ml Soxhlet 24/29 Cone 34/25 Socket 100ml Soxhlet 24/29 Cone 40/38 Socket <b>Description</b> 78 Adapter B19 Cone to SQ13 Screwthread Adapter B24 Cone to SQ13 Screwthread Adapter B29 Cone to SQ13 Screwthread Adapter B34 Cone to SQ13 Screwthread Solution Beaker 150ml Beaker 100ml Beaker 50ml Beaker 250ml Conical Flask Narrow Neck 150ml Conical Flask Narrow Neck 50ml Conical Flask Narrow Neck	1 1 1 1 <b>Qty</b> 5 5 5 5 5 5 5 10 10 10 10 10 10 10 10 10 10
Soxhlet RR94230 RR94235 RR94240 RR94245 Cat No. Right Angle Adapter RR94260 RR94265 RR94265 RR94275 Beakers RR94355 RR94355 RR94365 Conical Flasks RR94380 RR94385 RR94380 RR94385 RR94385 RR94390 RR94395	20ml Soxhlet 19/26 Cone 24/29 Socket 40ml Soxhlet 24/29 Cone 29/32 Socket 60ml Soxhlet 24/29 Cone 34/25 Socket 100ml Soxhlet 24/29 Cone 40/38 Socket <b>Description</b> <b>7s</b> Adapter B19 Cone to SQ13 Screwthread Adapter B24 Cone to SQ13 Screwthread Adapter B29 Cone to SQ13 Screwthread Adapter B34 Cone to SQ13 Screwthread Adapter B34 Cone to SQ13 Screwthread D0ml Beaker 100ml Beaker 100ml Beaker 250ml Beaker 250ml Beaker 250ml Conical Flask Narrow Neck 150ml Conical Flask Narrow Neck 100ml Conical Flask Narrow Neck	1 1 1 <b>Qty</b> 5 5 5 5 5 5 10 10 10 10 10 10 10 10 10 10
Soxhlet           RR94230           RR94235           RR94240           RR94245           Cat No.           Right Angle Adapter           RR94260           RR94260           RR94260           RR94265           RR94270           RR94275           Beakers           RR94350           RR94350           RR94360           RR94380           RR94380           RR94380           RR94390           RR94390           RR94395           Dropping Funnels	20ml Soxhlet 19/26 Cone 24/29 Socket 40ml Soxhlet 24/29 Cone 29/32 Socket 60ml Soxhlet 24/29 Cone 34/25 Socket 100ml Soxhlet 24/29 Cone 40/38 Socket <b>Description</b> 78 Adapter B19 Cone to SQ13 Screwthread Adapter B24 Cone to SQ13 Screwthread Adapter B29 Cone to SQ13 Screwthread Adapter B34 Cone to SQ13 Screwthread Adapter B34 Cone to SQ13 Screwthread Soml Beaker 150ml Beaker 100ml Beaker 50ml Beaker 250ml Conical Flask Narrow Neck 150ml Conical Flask Narrow Neck 50ml Conical Flask Narrow Neck	1 1 1 1 <b>Qty</b> 5 5 5 5 5 5 5 5 5 5 5 5 5
Soxhlet           RR94230           RR94230           RR94235           RR94240           RR94245           Cat No.           Right Angle Adapter           RR94260           RR94260           RR94265           RR94270           RR94275           Beakers           RR94350           RR94355           RR94365           Conical Flasks           RR94380           RR94390           RR94395           RR94395           RR94395           RR94390           RR94395           Dropping Funnels           RR94450	20ml Soxhlet 19/26 Cone 24/29 Socket 40ml Soxhlet 24/29 Cone 39/25 Socket 60ml Soxhlet 24/29 Cone 34/25 Socket 100ml Soxhlet 24/29 Cone 40/38 Socket <b>Description</b> * Adapter B19 Cone to SQ13 Screwthread Adapter B24 Cone to SQ13 Screwthread Adapter B29 Cone to SQ13 Screwthread Adapter B34 Cone to SQ13 Screwthread Adapter B34 Cone to SQ13 Screwthread Soml Beaker 150ml Beaker 100ml Beaker 50ml Beaker 250ml Conical Flask Narrow Neck 150ml Conical Flask Narrow Neck 50ml Conical Flask Narrow Neck 50ml Conical Flask Narrow Neck	1 1 1 1 <b>Cety</b> 5 5 5 5 5 5 5 5 5 5 5 5 5
Soxhlet           RR94230           RR94230           RR94235           RR94240           RR94240           RR94245           Cat No.           Right Angle Adapter           RR94260           RR94265           RR94270           R94275           Beakers           RR94350           RR94360           RR94365           Conical Flasks           RR94380           RR94380           RR94390           RR94395           Dropping Funnels           RR94450           RR94450	20ml Soxhlet 19/26 Cone 24/29 Socket 40ml Soxhlet 24/29 Cone 39/25 Socket 60ml Soxhlet 24/29 Cone 34/25 Socket 100ml Soxhlet 24/29 Cone 40/38 Socket <b>Description</b> 78 Adapter B19 Cone to SQ13 Screwthread Adapter B24 Cone to SQ13 Screwthread Adapter B29 Cone to SQ13 Screwthread Adapter B34 Cone to SQ13 Screwthread Adapter B34 Cone to SQ13 Screwthread D0ml Beaker 150ml Beaker 100ml Beaker 50ml Beaker 250ml Conical Flask Narrow Neck 150ml Conical Flask Narrow Neck 100ml Conical Flask Narrow Neck 50ml Conical Flask Narrow Neck 250ml Conical Flask Narrow Neck	1 1 1 <b>Qty</b> 5 5 5 5 5 5 10 10 10 10 10 10 10 10 10 10
Soxhlet           RR94230           RR94235           RR94240           RR94245           Cat No.           Right Angle Adapter           RR94260           RR94260           RR94260           RR94265           RR94270           RR94275           Beakers           RR94350           RR94350           RR94360           RR94365           RR94380           RR94385           RR94390           RR94395           Dropping Funnels           RR94450           RR94455           RR94455	20ml Soxhlet 19/26 Cone 24/29 Socket 40ml Soxhlet 24/29 Cone 29/32 Socket 60ml Soxhlet 24/29 Cone 34/25 Socket 100ml Soxhlet 24/29 Cone 40/38 Socket <b>Description</b> 75 Adapter B19 Cone to SQ13 Screwthread Adapter B24 Cone to SQ13 Screwthread Adapter B29 Cone to SQ13 Screwthread Adapter B34 Cone to SQ13 Screwthread Adapter B34 Cone to SQ13 Screwthread D00ml Beaker 150ml Beaker 100ml Beaker 50ml Beaker 250ml Conical Flask Narrow Neck 100ml Conical Flask Narrow Neck 50ml Conical Flask Narrow Neck 50ml Conical Flask Narrow Neck 50ml Conical Flask Narrow Neck	1 1 1 1 <b>Qty</b> 5 5 5 5 5 5 5 5 5 5 5 5 5
Soxhlet RR94230 RR94235 RR94240 RR94245 Cat No. Right Angle Adapter RR94260 RR94265 RR94270 RR94270 RR94275 Beakers RR94350 RR94350 RR94355 RR94360 RR94365 Conical Flasks RR94380 RR94390 RR94390 RR94395 Dropping Funnels RR94450 RR94455 RR94460	20ml Soxhlet 19/26 Cone 24/29 Socket 40ml Soxhlet 24/29 Cone 34/25 Socket 100ml Soxhlet 24/29 Cone 34/25 Socket 100ml Soxhlet 24/29 Cone 40/38 Socket <b>Description</b> TS Adapter B19 Cone to SQ13 Screwthread Adapter B24 Cone to SQ13 Screwthread Adapter B34 Cone to SQ13 Screwthread Adapter B34 Cone to SQ13 Screwthread Adapter B34 Cone to SQ13 Screwthread Somi Beaker 150ml Beaker 150ml Beaker 50ml Beaker 250ml Conical Flask Narrow Neck 150ml Conical Flask Narrow Neck 50ml Conical Flask Narrow Neck 50ml Conical Flask Narrow Neck 50ml Conical Flask Narrow Neck 50ml Conical Flask Narrow Neck	1 1 1 1 <b>Qty</b> 5 5 5 5 5 5 5 5 5 5 5 5 5
Soxhlet           RR94230           RR94230           RR94235           RR94240           RR94240           RR94240           RR94240           RR94240           RR94240           RR94245           Cat No.           Right Angle Adapter           RR94265           RR94270           RR94275           Beakers           RR94350           RR94355           RR94365           Conical Flasks           RR94380           RR94390           RR94395           Dropping Funnels           RR94450           RR94450           RR94450           RR94450           RR94450           RR94450           RP94460	20ml Soxhlet 19/26 Cone 24/29 Socket 40ml Soxhlet 24/29 Cone 34/25 Socket 100ml Soxhlet 24/29 Cone 34/25 Socket 100ml Soxhlet 24/29 Cone 40/38 Socket <b>Description</b> <b>*</b> Adapter B19 Cone to SQ13 Screwthread Adapter B24 Cone to SQ13 Screwthread Adapter B29 Cone to SQ13 Screwthread Adapter B34 Cone to SQ13 Screwthread Adapter B34 Cone to SQ13 Screwthread Sorni Beaker 150ml Beaker 100ml Beaker 50ml Beaker 250ml Conical Flask Narrow Neck 150ml Conical Flask Narrow Neck 50ml Conical Flask Narrow Neck 250ml Conical Flask Narrow Neck 250ml Conical Flask Narrow Neck 50ml Conical Flask Narrow Neck	1 1 1 1 <b>Qty</b> 5 5 5 5 5 5 5 5 5 10 10 10 10 10 10 10 10 10 10
Soxhlet           RR94230           RR94235           RR94240           RR94240           RR94240           RR94240           RR94240           RR94245           Cat No.           Right Angle Adapter           RR94260           RR94265           RR94265           RR94270           RR94275           Beakers           RR94355           RR94360           RR94365           Conical Flasks           RR94380           RR94385           RR94390           RR94395           Dropping Funnels           RR94455           R94460           Vials           DR04000	20ml Soxhlet 19/26 Cone 24/29 Socket 40ml Soxhlet 24/29 Cone 34/25 Socket 100ml Soxhlet 24/29 Cone 34/25 Socket 100ml Soxhlet 24/29 Cone 40/38 Socket Description * Adapter B19 Cone to SQ13 Screwthread Adapter B24 Cone to SQ13 Screwthread Adapter B34 Cone to SQ13 Screwthread Adapter B34 Cone to SQ13 Screwthread 250ml Beaker 150ml Beaker 150ml Beaker 100ml Beaker 250ml Conical Flask Narrow Neck 100ml Conical Flask Narrow Neck 100ml Conical Flask Narrow Neck 250ml Dropping Funnel 19/26 100ml Dropping Funnel 19/26 100ml Dropping Funnel 19/26	1 1 1 1 <b>Qty</b> 5 5 5 5 5 5 5 5 5 5 5 5 5
Soxhlet           RR94230           RR94235           RR94240           RR94245           Cat No.           Right Angle Adapter           RR94260           RR94260           RR94260           RR94265           RR94270           RR94275           Beakers           RR94350           RR94355           RR94365           Conical Flasks           RR94385           RR94380           RR94390           RR94395           Dropping Funnels           RR94450           RR94460           Vials           RR94300	20ml Soxhlet 19/26 Cone 24/29 Socket 40ml Soxhlet 24/29 Cone 34/25 Socket 100ml Soxhlet 24/29 Cone 40/38 Socket <b>Description</b> T Adapter B19 Cone to SQ13 Screwthread Adapter B24 Cone to SQ13 Screwthread Adapter B29 Cone to SQ13 Screwthread Adapter B34 Cone to SQ13 Screwthread Adapter B34 Cone to SQ13 Screwthread 250ml Beaker 150ml Beaker 100ml Beaker 50ml Conical Flask Narrow Neck 150ml Conical Flask Narrow Neck 150ml Conical Flask Narrow Neck 50ml Conical Fl	1 1 1 1 <b>Cety</b> 5 5 5 5 5 5 5 5 5 5 5 5 5
Soxhlet           RR94230           RR94230           RR94235           RR94240           RR94240           RR94240           RR94240           RR94245           Cat No.           Right Angle Adapte           RR94265           RR94270           RR94275           Beakers           RR94350           RR94355           RR94365           Conical Flasks           RR94380           RR94390           RR94395           Dropping Funnels           RR94450           RR94450           RR94450           RR944300           RR94430           RR94430           RR94300           RR94300           RR94300           RR94310	20ml Soxhlet 19/26 Cone 24/29 Socket 40ml Soxhlet 24/29 Cone 29/32 Socket 50ml Soxhlet 24/29 Cone 40/38 Socket <b>Description</b> TS Adapter B19 Cone to SQ13 Screwthread Adapter B22 Cone to SQ13 Screwthread Adapter B34 Cone to SQ13 Screwthread Adapter B34 Cone to SQ13 Screwthread Adapter B34 Cone to SQ13 Screwthread 250ml Beaker 150ml Beaker 150ml Beaker 250ml Conical Flask Narrow Neck 150ml Conical Flask Narrow Neck 100ml Conical Flask Narrow Neck 250ml Conical Flask Narrow Neck 250ml Dropping Funnel 19/26 100ml Dropping Funnel 19/26 100ml Dropping Funnel 14/23 4 Dram Vial 21x70mm 2 Dram Vial 17x60mm	$ \begin{array}{c} 1\\ 1\\ 1\\ 1\\ 0 tty\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10$
Soxhlet           RR94230           RR94235           RR94240           RR94240           RR94240           RR94240           RR94240           RR94245           Cat No.           Right Angle Adapter           RR94260           RR94265           RR94265           RR94270           RR94270           RR94280           RR94355           RR94360           RR94360           RR94365           RR94380           RR94385           RR94380           RR94390           RR94395           Dropping Funnels           RR94450           RR94450           RR94450           RR94450           RR94300           RR94310           RR94310           RR94320	20ml Soxhlet 19/26 Cone 24/29 Socket 40ml Soxhlet 24/29 Cone 29/32 Socket 100ml Soxhlet 24/29 Cone 40/38 Socket <b>Description</b> <b>*</b> Adapter B19 Cone to SQ13 Screwthread Adapter B24 Cone to SQ13 Screwthread Adapter B29 Cone to SQ13 Screwthread Adapter B34 Cone to SQ13 Screwthread Adapter B34 Cone to SQ13 Screwthread 250ml Beaker 150ml Beaker 150ml Beaker 50ml Beaker 250ml Conical Flask Narrow Neck 150ml Conical Flask Narrow Neck 150ml Conical Flask Narrow Neck 250ml Conical Flask Narrow Neck 250ml Conical Flask Narrow Neck 250ml Conical Flask Narrow Neck 250ml Dropping Funnel 19/26 100ml Dropping Funnel 19/26 50ml Dropping Funnel 19/26 50ml Dropping Funnel 14/23 4 Dram Vial 21x70mm 2 Dram Vial 17x60mm 1 Dram Vial 17x60mm	1 1 1 1 <b>Qty</b> 5 5 5 5 5 5 5 5 5 5 5 5 5
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Soxhlet           RR94230           RR94230           RR94235           RR94240           RR94245           Cat No.           Right Angle Adapte           RR94260           RR94265           RR94265           RR94270           RR94275           Beakers           RR94350           RR94355           RR94360           RR94365           Conical Flasks           RR94380           RR94390           RR94395           Dropping Funnels           RR94450           RR94450           RR94300           RR94300           RR94310           RR94320           RR94330	20ml Soxhlet 19/26 Cone 24/29 Socket 40ml Soxhlet 24/29 Cone 29/32 Socket 60ml Soxhlet 24/29 Cone 34/25 Socket 100ml Soxhlet 24/29 Cone 40/38 Socket <b>Description</b> * Adapter B19 Cone to SQ13 Screwthread Adapter B24 Cone to SQ13 Screwthread Adapter B34 Cone to SQ13 Screwthread Adapter B34 Cone to SQ13 Screwthread Adapter B34 Cone to SQ13 Screwthread 250ml Beaker 150ml Beaker 100ml Beaker 50ml Conical Flask Narrow Neck 150ml Conical Flask Narrow Neck 150ml Conical Flask Narrow Neck 50ml Conical Flask Narrow Neck 250ml Dropping Funnel 19/26 100ml Dropping Funnel 19/26 50ml Dropping Funnel 14/23 4 Dram Vial 21x70mm 2 Dram Vial 15x45mm 2ml Vial 12x35mm	$ \begin{array}{c} 1\\ 1\\ 1\\ 1\\ 1\\ 0 tty\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\ 5\\$

### Set-Up & Operation - Water Distribution Manifolds

#### Water Distribution Manifold

Water Distribution Manifolds have been designed to allow coolant from a single source to be evenly distributed to up to five condensers and then the flow re-combined to one outlet pipe. Two manifolds are used in each system, one to distribute water to the condensers and one to collect coolant for recirculation or to drain.

 Confirm that the manifolds are Water Manifold RR95500 rather than Gas/Vacuum Manifolds. The Water Manifold is identified by the label and fitted with a female connector on the side of the manifold body.



#### **Important Note**

Water Manifold RR95500 is fitted with a female inlet/outlet connector, whilst the Gas/Vacuum Manifold RR95510 is fitted with a male inlet/outlet connector. This prevents incorrect connection of fluid and gas supplies.

- Place both Water Manifolds over the top of support rod and slide down to the desired position and fix with the thumbwheel. (It does not matter which way up the manifolds are fitted to the support rod). The Manifold will accept support rods up to a maximum of 12mm OD.
- Push the large barbed connector RR95525 (supplied with the Water Manifold) into your water inlet tubing. (For suitable tubing please order RR95540 - 8mm x 15m clear Tygon Tubing).

NB. The RR95525 connector has a 9.6mm OD barb with an 6.4mm bore and accepts flexible tubing with an 8mm ID.

- Now the tubing is connected to the RR95525 connector, insert it into the female connector on the side of the lower of the two Water Manifolds. It will click in place.
- 5. Repeat the procedure with the water outlet/drain tubing. Connecting it to the RR95525 connector on the upper of the two Water Manifolds.
- Connect the tubing from each of your condenser inlets to a right-angled connector RR95520 (5 are supplied with each Water Manifold). (For suitable tubing please order RR95535 - 6.4mm x 15m clear Tygon Tubing).

NB. The RR95520 right-angled connector has a 6.4mm OD barb with an 3.2mm bore and accepts flexible tubing with an 6.4mm ID.

- Now the tubing is connected to the RR95520 right angled connector, insert it into any one of the five female connectors on the top of the lower Water Manifold. It will click in place.
- Repeat the procedure with the with the upper Water Manifold, connecting each of the condenser outlets to the manifold. <u>For best results coolant should always enter the</u> <u>bottom of you condenser and exit at the top.</u>
- 9. A water flow rate of at least 1.5 litres per minute should be used to maintain even distribution to each condenser.



### Important Note

All of the connectors feature leak-proof shut-off valves that are automatically closed when the couplings are parted. This enables the manifold to be used with any number of condensers (up to five) without daisy-chaining.



### Important Note

To avoid the build-up of lime scale in the Water Distribution Manifold, please avoid the use of hard water.













### Set-Up & Operation - Gas/Vacuum Distribution Manifold

### **Gas/Vacuum Distribution Manifold**

Gas/Vacuum Distribution Manifolds have been designed to allow gas or a vacuum from a single source to be evenly distributed to up to five vessels.

 Confirm that the manifold is Gas/Vacuum Manifold RR95510 rather than a Water/Coolant Manifold. The Gas/Vacuum Manifold is identified by the label and fitted with a male connector on the side of the manifold body.

Important, Important,

#### Important Note

Water Manifold RR95500 is fitted with a female inlet/outlet connector, whilst the Gas/Vacuum Manifold RR95510 is fitted with a male inlet/outlet connector. This prevents incorrect connection of fluid and gas supplies.

- 2. Place the Gas/Vacuum Manifold over the top of support rod and slide down to the desired position and fix with the thumbwheel. (It does not matter which way up the manifold is fitted to the support rod). The Manifold will accept support rods up to a maximum of 12mm OD.
- Push the the large barbed connector RR95530 (supplied with the Gas/Vacuum Manifold) into your gas inlet tubing. (For suitable tubing please order RR95540 - 8mm x 15m clear Tygon Tubing).
  - NB. The RR95530 connector has a 9.6mm OD barb with an 6.4mm bore and accepts flexible tubing with an 8mm ID.
- 4. Now the tubing is connected to the RR95525 connector, insert it into the male connector on the side of Gas/Vacuum Manifold. It will click in place.
- Connect the tubing from each of your vessels to a right-angled connector RR95520 (5 are supplied with each Gas/Vacuum Manifold). (For suitable tubing please order RR95535 - 6.4mm x 15m clear Tygon Tubing).
  - NB. The RR95520 right-angled connector has a 6.4mm OD barb with an 3.2mm bore and accepts flexible tubing with an 6.4mm ID.
- Now the tubing is connected to the RR95520 right angled connector, insert the connector into any one of the five female connectors on the top of the Gas/Vacuum Manifold. It will click in place.



### Warning

The manifold can be used for both vacuum and gas purging.

The maximum operating pressure is 3psi above atmospheric pressure and a vacuum of approximately 150 to 125mBar.

Important, Important,	
Important, Important,	

### **Important Note**

All of the connectors feature leak-proof shut-off valves that are automatically closed when the couplings are parted. This enables the manifold to be used with any number of vessels (up to five) without daisy-chaining.













# Warranty – Email Back sales@radleys.co.uk

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