

# BLUEDIAMOND<sup>®</sup>

CONDENSATE REMOVAL PUMPS



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# DID YOU KNOW?

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This iconic London building holds 2500 MAXIBLUE® PRO pumps. One of many superstructures using BLUEDIAMOND® technology around the world.



BLUEDIAMOND® condensate pumps proudly supports British manufacturing and engineering by designing and producing our pumps in the UK.



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BLUEDIAMOND® condensate removal pumps offer the industry leading 3 year warranty. We have faith in our reliability and so can you.

**3** YEAR  
WARRANTY

# ABOUT US

All BlueDiamond® condensate removal products are designed, developed, tooled and manufactured in house, meeting our strict approach to quality, stemming from our UK heritage and wide skill base.

Our team of research and design engineers are dedicated to designing a range of pumps and accessories that not only benefit the end user but also the installer. Offering a new approach to efficiently, quietly and reliably removing large quantities of condensate, our R&D department has an eye for detail, meaning all products purchased are of the very highest standard.

From design to packaging ready for distribution, our team takes pride in every single product despatched from our warehouse facilities. BlueDiamond® consistently invests in both training and development of its team along with new machinery to keep up with ever changing technology.

Each BlueDiamond® product is vigorously tested at the end of the production line, allowing us to ensure our customers are receiving the best product possibly to the ISO 9001 quality standard.



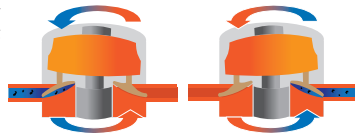
ROTARY  
DIAPHRAGM

Rotary diaphragm pumps use unique Charles Austen patented technology. The flow of liquid is initiated by an eccentrically mounted bearing on a drive shaft revolved within a flexible diaphragm. As the shaft rotates, the bearing flexes the diaphragm, squeezing liquid through the pump. These pumps have outstanding self-priming characteristics and are of a valve-less, seal-less design.



GYROK™  
TECHNOLOGY

The patented GyRok pumping principle employs a elastomeric conical diaphragm displaced by a number of legs positioned annularly around a nutating drive element. The legs provide control of almost the entire diaphragm, giving outstanding self-priming characteristics. The pump is whisper quiet, able to tolerate extended periods of dry-running and can be mounted in any orientation in a number of locations, both above and below false ceilings.



FSA-

Fail safe alarm, a volt free relay designed to switch the AC unit off, but leaves the pump running continuously when the condensate reaches a critical point in the reservoir.

HLA-

High Level Audio is an integral audio and visual alarm. When the condensate is at a critical point with-in the reservoir, the diagnostic light in the pump will switch from green and will start to flash red with a 2 beep warning every minute. The pump will continue to operate while in alarm mode

# MICROBLUE®



**3** YEAR WARRANTY

## PERFORMANCE

17dba

MAX FLOW	MAX HEAD	MAX LIFT
5 L/ HOUR	5 METRES	2 METRES



With no additional silencing accessories required, not only is the MICROBLUE® a silent running pump but it can also be mounted in any orientation whilst operating both wet and dry continuously. The MICROBLUE® is a dual voltage pump which uses proven thermistor level sensing technology to remove the risk of stuck or sunken float switches.



UNIT  
3.5 KW

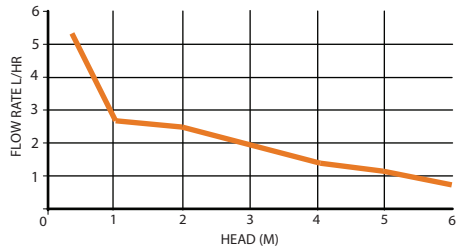
## SENSING OPTION

MICROBLUE® pump available with:

RESERVOIR	TEMPERATURE SENSOR
X85-001 (HLA-PACK) X85-002 (FSA PACK)	X85-505
	

FASCIA KIT T18-016 	DUCTING KIT X85-507 FSA (IVORY) X85-508 FSA (WHITE) 
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## PERFORMANCE



**PUMPS DEBRIS**

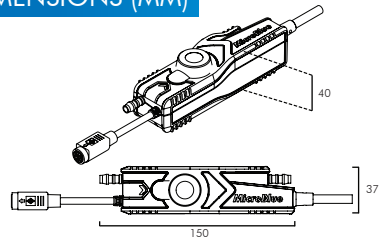
The MicroBlue™ is the only ductless pump on the market that can remove sediment/ debris with no need of filters or regular servicing intervals.



**NO SILENCING DEVICES**

Smooth flow rate from the MicroBlue™ eliminates the necessity for any pulsating free tubing and silencing devices.

## DIMENSIONS (MM)



## DISCHARGE PIPE RUN



V (VERTICAL)	H (HORIZONTAL)
5 M	0 M
4 M	3 M
3 M	6 M
2 M	9 M
1 M	12 M

The MICROBLUE® can be mounted in any orientation up to 5m away from the air conditioning unit.

\*3.5 KW MAX

# MINIBLUE®



**3** YEAR  
WARRANTY

## PERFORMANCE

21 dba

MAX FLOW	MAX HEAD	MAX LIFT
8 L/ HOUR	8 METRES	5 METRES

Running either wet or dry, the MINIBLUE® is whisper quiet whilst reliably removing condensate and debris. Inherently reliable whilst self priming it gives peristaltic performance at the price of a piston pump. The MINIBLUE® is small enough to quickly fit, or retro fit, into any existing installation, saving both time and money.



UNIT  
3.5-8 KW

## SENSING OPTION

MINIBLUE® pump available with:

CR PLUG	TEMPERATURE SENSOR
X87-500	X87-504
	



**RUN  
DRY**

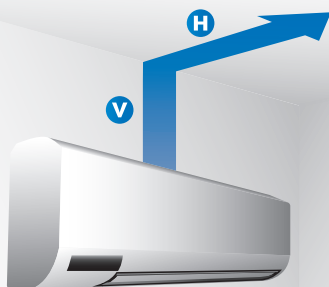
All of the BLUEDIAMOND® pumps have the ability to run dry without burning out. Enabling them to remove any liquids, preventing organic growth inside the tubing.



**WHISPER  
QUIET**

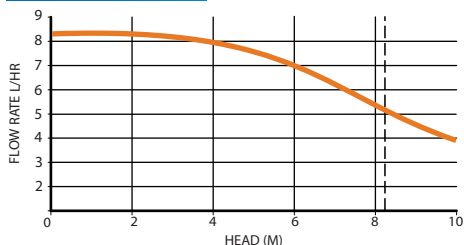
Quiet in all stages of operation and not only when set to quiet mode or relying on a soft start setting.

## DISCHARGE PIPE RUN

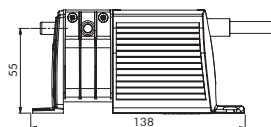
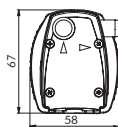


\*8 KW MAX

## PERFORMANCE



## DIMENSIONS (MM)



V (VERTICAL)	H (HORIZONTAL)
8 M	0 M
7 M	3 M
6 M	6 M
5 M	9 M
4 M	12 M
3 M	15 M
2 M	18 M
1 M	21 M

The MINIBLUE® can be mounted in any orientation up to 8m away from the A.C. unit.

# MINIBLUE<sup>R</sup>



**3** YEAR  
WARRANTY

## PERFORMANCE

21 dba

MAX FLOW	MAX HEAD	MAX LIFT
8 L/ HOUR	8 METRES	5 METRES

The MINIBLUE<sup>R</sup> has been designed to combine performance, reliability and installation flexibility. Compact enough to mount remotely and incorporate the electronics needed to operate the unique thermistor controlled reservoir sensor, the MINIBLUE<sup>R</sup> operates only when condensate is present. Supplied with a ducting kit and dedicated elbow kit to secure our fault free reservoir.



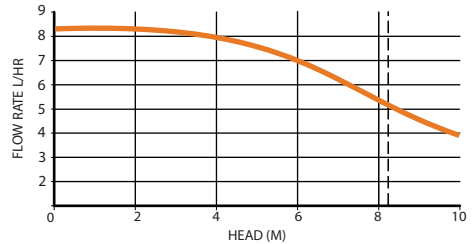
UNIT  
3.5-8 KW

## SENSING OPTION

MINIBLUE<sup>®</sup> pump available with:

DUCTING KIT	RESERVOIR
X87-507	X87-509
COLOUR: RAL. 9002	

## PERFORMANCE



**NO**  
MAINTENANCE

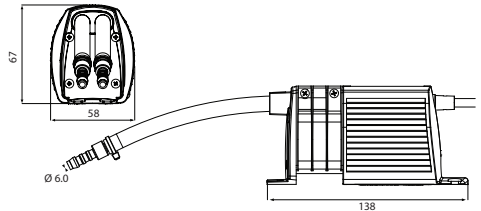
No servicing, no maintenance, no replacement parts. Nothing! A true fit and forget condensate pump.



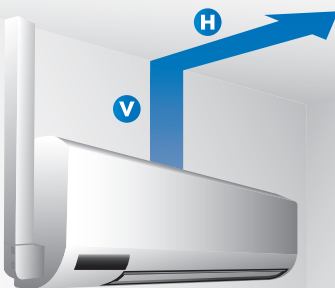
**QUICK**  
INSTALLATION

Non modular installation with minimum components when setting up. Fewer components means less time wasted on installation. No siphoning devices or check valves required.

## DIMENSIONS (MM)



## DISCHARGE PIPE RUN



\*8 KW MAX

V (VERTICAL)	H (HORIZONTAL)
8 M	0 M
7 M	3 M
6 M	6 M
5 M	9 M
4 M	12 M
3 M	15 M
2 M	18 M
1 M	21 M

The MINIBLUE<sup>®</sup> R can be mounted in any orientation up to 8m away from the A.C. unit.



## PERFORMANCE

21 dba

MAX FLOW	MAX HEAD	MAX LIFT
14 L/ HOUR	8 METRES	8 METRES

Designed for high humidity environments and with high performance, the MAXIBLUE® is ideally suited for mid range air conditioning systems. Its exceptional reliability is backed by a multi year warranty and with class leading performance/suction lift, the MAXIBLUE® is ideal for installations in environments that are both demanding and expensive to access for maintenance.



UNIT  
8-14 KW

## SENSING OPTION

MAXIBLUE® pump available with:

RESERVOIR	DRAINSTIK® SENSOR	TEMPERATURE SENSOR
X87-701	X87-702	X85-703
		



**NO COMPLEX  
SET UP**

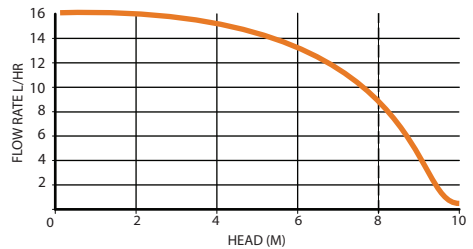
BLUEDIAMOND® technology can deal with the variable outputs of condensate without the need for additional sensors or overly complex performance settings.



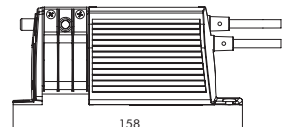
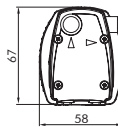
**NO WIRELESS  
CONNECTIONS**

Plug in and wireless connections to review pump history or run times before premature failures are not needed due to proven inherently reliable RD technology.

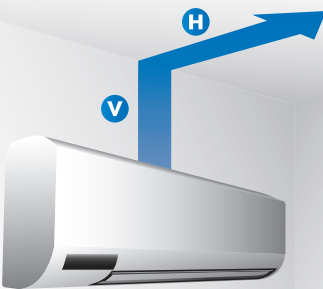
## PERFORMANCE



## DIMENSIONS (MM)



## DISCHARGE PIPE RUN



\*14 KW MAX

V (VERTICAL)	H (HORIZONTAL)
8 M	0 M
7 M	3 M
6 M	6 M
5 M	9 M
4 M	12 M
3 M	15 M
2 M	18 M
1 M	21 M

The MAXIBLUE® can be mounted in any orientation up to 8m away from the A.C unit.



# MAXIBLUE<sup>®</sup> PRO



**3** YEAR  
WARRANTY

## PERFORMANCE

21 dba

MAX FLOW	MAX HEAD	MAX LIFT
14 L/ HOUR	8 METRES	8 METRES

Designed for high humidity environments and with high performance, the MAXIBLUE<sup>®</sup> PRO is ideally suited for mid range air conditioning systems. Its exceptional reliability is backed by a multi year warranty and with class leading performance/suction lift, the MAXIBLUE<sup>®</sup> PRO is ideal for installations in environments that are both demanding and expensive to access for maintenance.

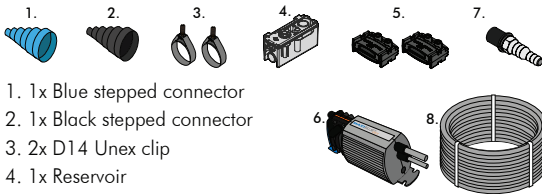


UNIT  
8-14 KW

## IN THE BOX

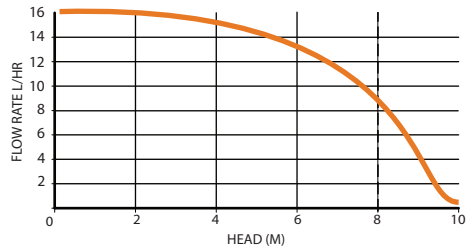
PART NO. X87-707

MAXIBLUE<sup>®</sup> PRO package comes with:

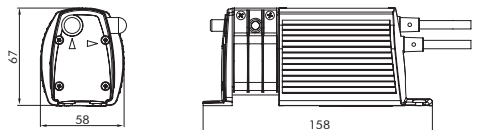


- 1x Blue stepped connector
- 1x Black stepped connector
- 2x D14 Unex clip
- 1x Reservoir
- 2x Mounting feet
- 1x Pump – with 2.5m Mains cable + 5m Alarm cable
- 1x Soil pipe adaptor
- 1x 24mm of 6.3mm ID braided PVC discharge hose (marked at meter intervals)

## PERFORMANCE



## DIMENSIONS (MM)



V (VERTICAL)	H (HORIZONTAL)
8 M	0 M
7 M	3 M
6 M	6 M
5 M	9 M
4 M	12 M
3 M	15 M
2 M	18 M
1 M	21 M

The MAXIBLUE<sup>®</sup> can be mounted in any orientation up to 8m away from the A.C unit.



IDEAL FOR  
SPECIFIERS

The MAXIBLUE<sup>®</sup> PRO package is the perfect solution for specifiers and architects. Equipped with everything you need to fit your pump the MAXIBLUE<sup>®</sup> PRO it will save you time when integrating air condition units into your design.



ULTRA  
RELIABILITY

The MAXIBLUE<sup>®</sup> PRO utilises our inherently reliable rotary diaphragm technology. Meaning it can pump air, liquid and sediment at the same time without burnouts or failures. A feature that you wouldn't see in common peristaltic pumps.

"The MAXIBLUE PRO was perfect for specification on our project. It's a complete package and that saved us a lot of time and effort!"

GEOFF SMITH

# MEGABLUE®



**3**  
YEAR  
WARRANTY

## PERFORMANCE

23 dba

MAX FLOW	MAX HEAD	MAX LIFT
50 L/ HOUR	20 METRES	7 METRES

The MEGABLUE® has a slimline, lightweight design and is whisper quiet, it also has the performance to overcome installation challenges and uses the BlueDiamond® revolutionary patented principle, making it inherently reliable. With the MEGABLUE® there's no cost penalty up front but big savings on installation and in service beyond.



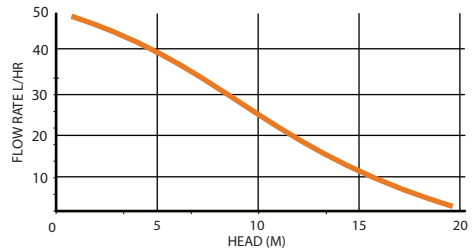
UNIT  
14-50 KW

## SENSING OPTION

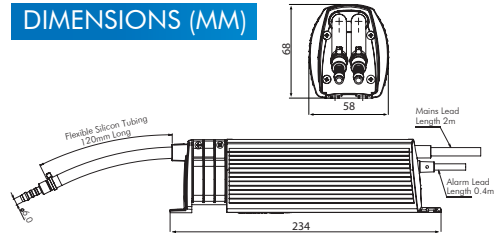
MEGABLUE® pump available with:

RESERVOIR	TEMPERATURE SENSOR	DRAINSTIK® SENSOR
X87-813	X87-814	X87-820

## PERFORMANCE



## DIMENSIONS (MM)



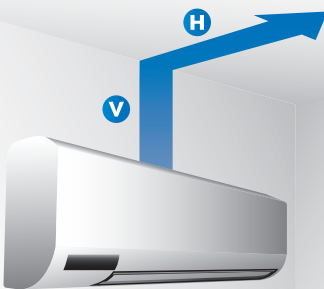
**3**  
YEAR  
WARRANTY

Accredited with our own industry pioneering 3 year warranty. We have faith in our reliability and so should you.



BLUEDIAMOND® Pumps are the only manufacturer of patented Rotary Diaphragm (RD) and GyRok™ technology.

## DISCHARGE PIPE RUN



\*50 KW MAX

V (VERTICAL)	H (HORIZONTAL)
20 M	0 M
15 M	15 M
10 M	30 M
5 M	45 M
0 M	60 M

The MEGABLUE® can be mounted in any orientation up to 7m away from the air conditioning unit.

# SENSING & ACCESSORY GUIDE

## SENSING OPTIONS

	MICROBLUE <sup>®</sup>	MINIBLUE <sup>®</sup>	MINIBLUE <sub>2</sub> <sup>®</sup>	MAXIBLUE <sup>®</sup>	MAXIBLUE <sub>2</sub> <sup>®</sup>	MEGABLUE <sup>®</sup>	ARCTIKBLUE <sup>®</sup>
TEMPERATURE SENSOR S12-002	✓	✓		✓		✓	
DRAINSTIK <sup>®</sup> S12-004				✓		✓	
CR PLUG P02-048		✓	✓	✓		✓	
MAXIBLUE <sup>®</sup> RESERVOIR C21-013	✓		✓	✓	✓		
MEGABLUE <sup>®</sup> RESERVOIR C21-008						✓	

## ACCESSORY OPTIONS

	MICROBLUE <sup>®</sup>	MINIBLUE <sup>®</sup>	MINIBLUE <sub>2</sub> <sup>®</sup>	MAXIBLUE <sup>®</sup>	MAXIBLUE <sub>2</sub> <sup>®</sup>	MEGABLUE <sup>®</sup>	ARCTIKBLUE <sup>®</sup>
5M CABLE EXTENTION C13-103	✓	✓	✓	✓	✓	✓	
RIGID STEP ADAPTER C01-226	✓	✓	✓	✓	✓	✓	
FLEXI STEP ADAPTER C01-231	✓	✓	✓	✓	✓	✓	
MULTITANK C21-014			✓	✓	✓	✓	
ELBOW KIT - IVORY T18-001	✓		✓	✓	✓		
ELBOW KIT - WHITE T18-007	✓		✓	✓	✓		
MOUNTING FEET F10-011		✓	✓	✓	✓	✓	
FASCIA KIT T01-101	✓						
ARCTIK TUBING T01-101							✓

## PERFORMANCE

MAX FLOW	MAX HEAD
50 L/ HOUR	20 METRES

Proven in service the ARCTIKBLUE® incorporates the MEGABLUE® pump in a tough steel tray. Eliminating stuck float switches, the use of the BLUEDIAMOND® thermistor technology quickly and efficiently removes all the condensate from the dairy pan, reducing the conditions that allow organic growth to build up and block drains.

WATER TANK CAP.	PUMP ON/ OFF	ALARM ON VOL.
4.1 LITRES	90 ML	3600 ML



**DURABLE  
DESIGN**

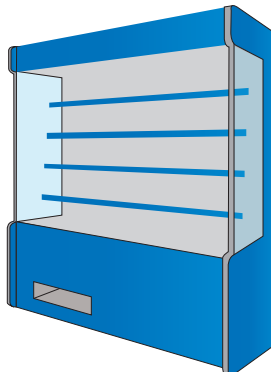
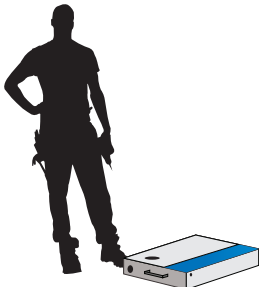
Thanks to a strong steel casing the ARCTIKBLUE® can withstand far rougher treatment than many other cabinet pumps on the market.



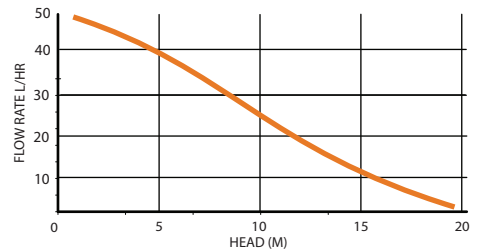
**CAN PUMP  
SLUDGE**

The ARCTIKBLUE® has the unique capability of being able to pump sludge that commonly builds up in refrigeration units.

## APPLICATION



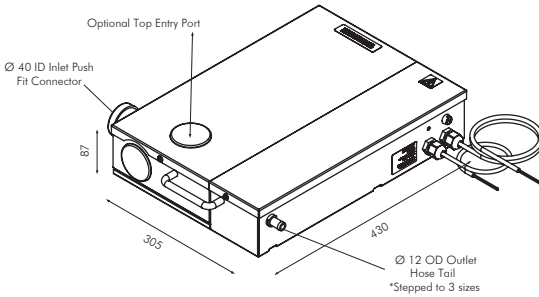
## PERFORMANCE



- ✓ LOW PROFILE
- ✓ EASY TO INSTALL
- ✓ SELF PRIMING
- ✓ CAN REMOVE SLUDGE AND SLURRY
- ✓ FAULT FREE SENSING
- ✓ EASY AND SIMPLE TO FIT



## DIMENSIONS (MM)



## ALARM SIGNAL

0 volt relay

## MAX ALARM RATING

5A 250v AC

## INPUT VOLTAGE

230v AC, 50 Hz

## INLET FITTING

Ø 40MM ID PUSH FIT CONNECTOR

## OUTLET FITTING

Ø 12MM OD HOSE TAIL STEPPED 3 SIZES  
Ø 9.5 MM (5/8")  
Ø 12.7 MM (1/2")  
Ø 15.5 MM (3/8")

## THERMISTOR SENSOR (ENERGY EFFICIENT)

The presence of condensate trips the hi-low solid state level sensors to switch the pump on/off. This means that the pump is run only when condensate is produced and the alarm shuts off the unit in the case of a fault, restarting when clear.

The slim filter probe, which houses the water sensors and high level alarm has no moving parts to become clogged or stuck making it an ideal alternative to existing float switches.

## FILTRATION

Protecting the sensors is our swap out guard, the filter element can be changed over as a complete assembly during preventative maintenance service schedules. The main tray is also protected against objects larger than Ø2.5mm allowing the pump to remove condensate, sludge and debris.

## ARCTIKBLUE® SWAP OUT KIT



### SWAP OUT KIT

X87-836



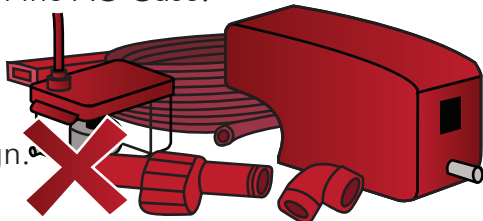
Designed for use in multideck and dairy cabinet condensate removal, the 'ArctikBlue Swap Out Kit' incorporates the ultra-reliable Rotary Diaphragm technology.

Removing up to 50 litres of water per hour at a maximum working head of 20 metres, the ARCTIKBLUE® is able to run dry or self-prime, meaning it can be sited above any pipe work and away from hazardous areas.

# WHY UPGRADE TO GYROK™ TECHNOLOGY

## PISTON PUMPS

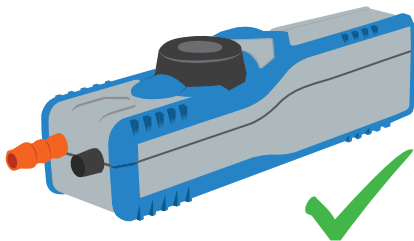
- ✓ Small enough to be mounted within the AC Case.
- ✓ A low cost solution.
- ✓ Performance from a compact design.



- ✗ Plagued with poor reliability, piston pumps tend to burn out whilst running dry.
- ✗ High noise levels and sold with unnecessary accessories to work.
- ✗ Cannot pump debris/ sediment.

## GYROK™ TECHNOLOGY OFFERS ALL THESE SOLUTIONS PLUS:

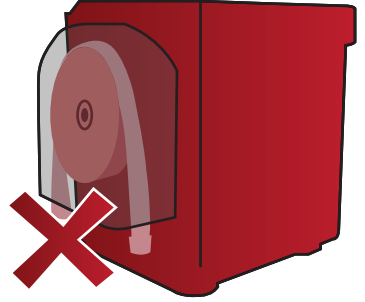
- ✓ Pump is silent running, with no additional silencer device required.
- ✓ Pump can continuously run dry, with no syphoning device to install or premature failures.
- ✓ Electronic sensing technology, eliminates stuck float switches.
- ✓ Reliability supported by a 3 year warranty.
- ✓ Quick and easy, 2 piece assembly with no additional extras to ensure correct pump installation/ operation.



# WHY UPGRADE TO ROTARY DIAPHRAGM TECHNOLOGY

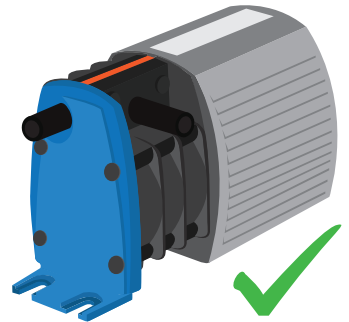
## PERISTALTIC PUMPS

- ✓ Have the ability to run dry, pumping a mixture of air and water.
- ✓ Can be mounted remotely, offering easier and more installation possibilities.
- ✗ Tubing will need to be replaced with frequent intervals due to wear.
- ✗ High noise levels due to pulsating flow instead of smooth.
- ✗ Struggle to get a high performance from a large sized pump.



## ROTARY DIAPHRAGM TECHNOLOGY OFFERS ALL THESE SOLUTIONS PLUS:

- ✓ No tubing to replace at frequent intervals, Rotary Diaphragm technology is service and maintenance free.
- ✓ Synchronous motor technology offers more compact pump without sound complaints from gearbox motor.
- ✓ Installation is very easy, no mounting bracket required and able to mount in any orientation.
- ✓ Low cost alternative to peristaltic pumps in the long term.



# PUMP SELECTOR GUIDE

BLUEDIAMOND® PUMP SELECTOR GUIDE	INDUSTRY		UNIT					PERFORMANCE				INSTALLATION		
	AIR CONDITIONING	REFRIGERATION	3.5 KW	3.5 - 5 KW	5 - 8 KW	8 - 14 KW	14 - 50 KW	MAX FLOW (L/HR)	MAX HEAD (M)	MAX LIFT (M)	SOUND (DBA)	IN UNIT	DUCTING	REMOTELY
<b>MICROBLUE™</b>	✓		✓					5	5	2	17	✓	✓	✓
<b>MINIBLUE®</b>	✓			✓	✓			8	8	5	21			✓
<b>MINIBLUE<sub>R</sub>®</b>	✓			✓	✓			8	8	5	21	✓		✓
<b>MAXIBLUE®</b>	✓					✓		14	8	8	21	✓	✓	✓
<b>MAXIBLUE<sub>PRO</sub>®</b>	✓					✓		14	8	8	21	✓	✓	✓
<b>MEGABLUE®</b>	✓					✓		50	20	7	23			✓
<b>ARCTIKBLUE®</b>		✓						50	20	-	23			

## OEM PUMPS

Charles Austen is also a manufacturer of OEM pumps that can be tailor made to any application with in house design and manufacturing.

\*Contact us if you have any OEM or bespoke condensate removal requirements.

Manufactured by:  
**CHARLES AUSTEN**  
 PUMPS LTD  
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