

# BLUEDIAMOND<sup>®</sup>

## CONDENSATE REMOVAL PUMPS



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# DID YOU KNOW?

There are many superstructures using  
BLUEDIAMOND® technology around the world.







# CONTENTS

INTRODUCTION - PAGE 4

MICROBLUE® - PAGE 5

MAXIBLUE® - PAGE 6

MEGABLUE® - PAGE 7

MULTITANK - PAGE 8

SENSING OPTIONS & ACCESSORIES - PAGE 9

WHY UPGRADE TO GYROK™ TECHNOLOGY - PAGE 10

WHY UPGRADE TO ROTARY DIAPHRAGM TECHNOLOGY - PAGE 11

PUMP SELECTOR GUIDE - PAGE 12

# 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.



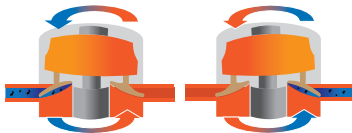
ROTARY  
DIAPHRAGM

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™



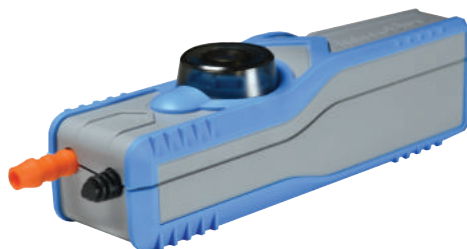
**3** YEAR  
WARRANTY

## PERFORMANCE

17dba

MAX FLOW	MAX HEAD	MAX LIFT
1.3 G/ HOUR	16 FEET	6 FEET

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.

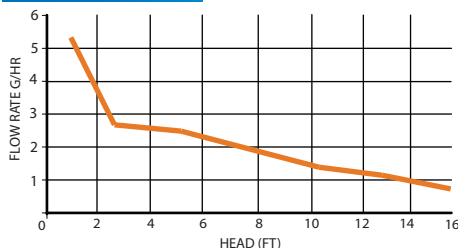


## SENSING OPTION

**MICROBLUE® pump available with:**

RESERVOIR	FASCIA KIT	DUCTING KIT
X85-003 (HLA-PACK)	T18-016	T18-007
		

## PERFORMANCE



**PUMPS DEBRIS**

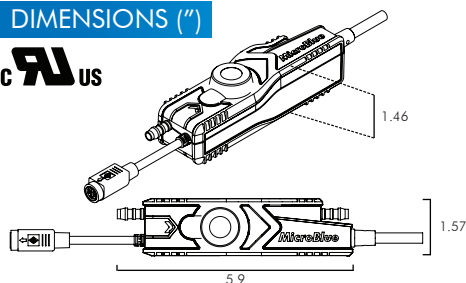
The MicroBlue™ is the only ductless pump on the market that can remove sediment/debris with no need of filters or regular servicing intervals.



**NO SILENCING  
DEVICES**

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

## DIMENSIONS (")



## DISCHARGE PIPE RUN



\*18000 BTU MAX

V (VERTICAL)	H (HORIZONTAL)
16 FT	0 FT
13 FT	9 FT
9 FT	20 FT
6 FT	30 FT
3 FT	40 FT

The MICROBLUE™ can be mounted in any orientation up to 16FT away from the air conditioning unit.

## PERFORMANCE

21dba

MAX FLOW	MAX HEAD	MAX LIFT
3.7 G/ HOUR	23 FEET	16.5 FEET

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.

## SENSING OPTION

MAXIBLUE® pump available with:

RESERVOIR	DRAINSTIK® SENSOR	TEMPERATURE SENSOR
110V - X87-711	110V - X87-712	110V - X87-713
208V-230V - X87-721	208V-230V - X87-722	208V-230V - X87-723
		



**NO COMPLEX  
SET UP**

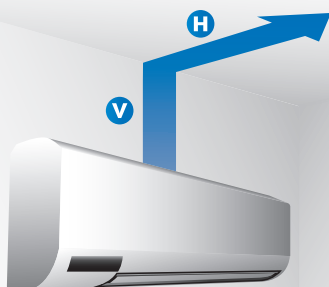
BLUEDIAMOND® technology can deal with the variable outputs of condensate without the need for additional sensors or overly complex performance settings.



**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.

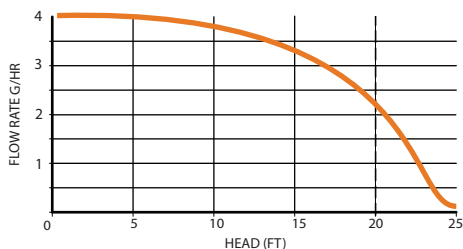
## DISCHARGE PIPE RUN



\*48000 BTU MAX

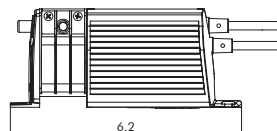
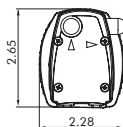


## PERFORMANCE



## DIMENSIONS (")

UL US



V (VERTICAL)	H (HORIZONTAL)
25 FT	0 FT
22 FT	9 FT
20 FT	20 FT
16 FT	30 FT
13 FT	40 FT
9 FT	50 FT
6 FT	60 FT
3 FT	70 FT

The MAXIBLUE® can be mounted in any orientation up to 23FT away from the A.C unit.

# MEGABLUE®



**3 YEAR  
WARRANTY**

## PERFORMANCE

21 dba

MAX FLOW	MAX HEAD	MAX LIFT
13.2 G/ HOUR	66.5 FEET	23 FEET

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.



## SENSING OPTION

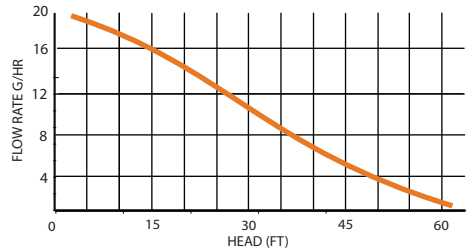
MEGABLUE® pump available with:

### RESERVOIR

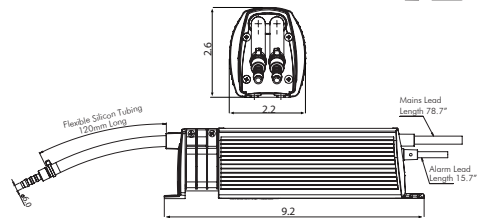
X87-835



## PERFORMANCE



## DIMENSIONS (")



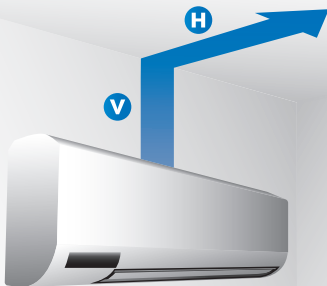
**3 YEAR  
WARRANTY**

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



V (VERTICAL)	H (HORIZONTAL)
65 FT	0 FT
50 FT	50 FT
32 FT	100 FT
16 FT	150 FT
0 FT	200 FT

The MEGABLUE® can be mounted in any orientation up to 66.5FT away from the air conditioning unit.

\*170,000 BTU MAX

# MULTITANK

**3** YEAR  
WARRANTY

The MultiTank is favoured among architects and design consultants and is available for using with either MegaBlue® or MaxiBlue® pumps. The tank incorporates an energy efficient solid state level sensor which eliminates the use of moving floats, which often become stuck. By manifolding a number of fan coil units into the 0.4 Gallon MultiTank, it offers the installer complete flexibility surrounding any multi-unit installation.

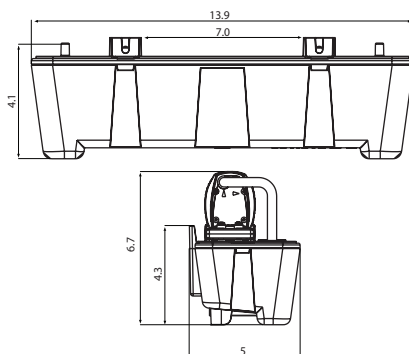


## REVOLUTIONARY SENSORY TECHNOLOGY



With no moving parts the MultiTank offers a reliable alternative to stuck or sunken float switches. Incorporating our patented and proven thermistor technology the hi-low solid state level sensor only runs the pump when condensate is produced. With no moving parts to become clogged or stuck it is an ideal alternative to existing float switches.

## DIMENSIONS (")



## OPTION 1: MULTITANK WITH MAXIBLUE®

Designed for high lift applications (25 FT) the MultiTank and MaxiBlue® make an ideal combination. Quiet enough for ceiling mounting and powerful enough for remote location makes a wide variety of installation possibilities a lot faster and simpler.



## OPTION 1: MULTITANK WITH MEGABLUE®

Offering exceptional performance the MegaBlue® can remove condensate far away and fast. With a head of 65 FT (6 storeys!) the MultiTank with MegaBlue® can be used as a remote central collection point for condensate drainage.



# SENSING & ACCESSORY GUIDE

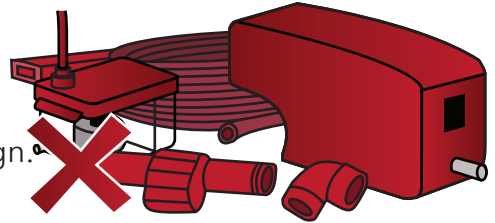
SENSING OPTIONS		MICROBLUE™	MAXIBLUE®	MEGABLUE®
TEMPERATURE SENSOR S12-002		✓	✓	✓
DRAINSTIK® S12-004			✓	✓
CR PLUG P02-048			✓	✓
MAXIBLUE® & MICROBLUE® RESERVOIR C21-013		✓	✓	
MEGABLUE® RESERVOIR C21-008				✓

ACCESSORY OPTIONS		MICROBLUE™	MAXIBLUE®	MEGABLUE®
5M CABLE EXTENSION C13-103		✓	✓	✓
RIGID STEP ADAPTER C01-226		✓	✓	✓
FLEXI STEP ADAPTER C01-231		✓	✓	✓
MULTITANK C21-014			✓	✓
ELBOW KIT - WHITE T18-007		✓	✓	
MOUNTING FEET F10-011			✓	✓
FASCIA KIT T18-016		✓		

# WHY UPGRADE TO GYROK™ TECHNOLOGY

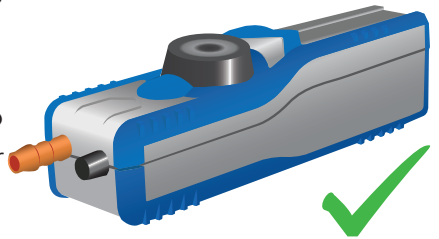
## PISTON PUMPS

- ✓ 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:

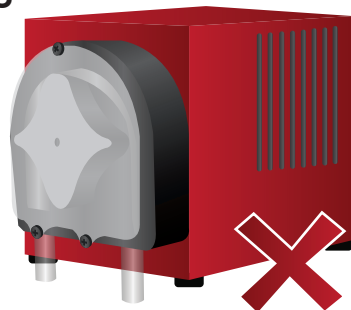
- ✓ Pump is silent running, with no additional silencer device required.
- ✓ Pump can continuously run dry, with no syphoning device to install or premature failures.
- ✓ Electronic sensing technology, eliminates stuck float switches.
- ✓ Reliability supported by a 3 year warranty.
- ✓ Quick and easy,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



# WHY UPGRADE TO ROTARY DIAPHRAGM TECHNOLOGY

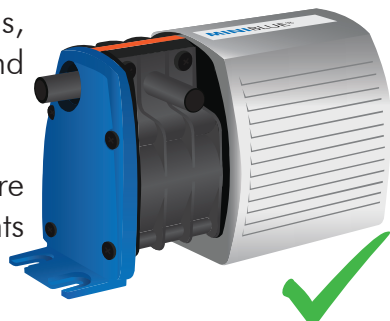
## PERISTALTIC PUMPS

- ✓ 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 <sup>®</sup> PUMP SELECTOR GUIDE	INDUSTRY		UNIT			PERFORMANCE				INSTALLATION		
	AIR CONDITIONING	REFRIGERATION	0-18,000 BTU	18,000 - 48,000 BTU	48,000 - 170,000 BTU	MAX FLOW (G/HR)	MAX HEAD (FT)	MAX LIFT (FT)	SOUND (DBA)	IN UNIT	DUCTING	REMOTELY
MICROBLUE <sup>™</sup>	✓		✓			1.3	16	6	17	✓	✓	✓
MAXIBLUE <sup>®</sup>	✓			✓		3.7	23	16.5	21		✓	✓
MEGABLUE <sup>®</sup>	✓	✓			✓	13.2	66.5	23	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.

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