ARMSTRONG

Domestic Circulators and Condensate Pumps

High efficiency, electronically controlled wet rotor circulators and condensate pumps for domestic applications

CE | EEI ≤ 0.23

SOLUTION OUTLINE

FILE NO: 11.20UK
DATE: AUGUST 2022
SUPERSEDES: 11.20UK
DATE: OCTOBER 2018

Armstrong Fluid Technology, global leaders in high-efficiency, energy saving solutions bring our expertise in fluid flow and control to the domestic market.

The new Armstrong range of circulators offers installers a versatile choice of high efficiency, maintenance-free, in-line, wet rotor circulator suitable for any domestic heating and cold water application.

HIGH EFFICIENCY, MAINTENANCE-FREE, IN-LINE, WET ROTOR CIRCULATORS

The high specification quality engineered products incorporate permanent magnet technology and best in class European ErP compliant motors to optimise energy efficiency and performance, delivering savings for the home owner/ occupant.

- High level efficiency
- Electronic controls
- Permanent magnet technology
- Manual start-up
- Smooth running
- Very low energy consumption
- Air-vent screw
- Simple operation
- Space-saving axially
- Integrated terminal box
- Automatic adjustment for demand conditions
- Maintenance free

The HEP Optimo range of high efficiency, wet rotor circulators are electronically controlled, with advanced permanent magnet technology driving their superior performance levels.

HEATING SYSTEM PRODUCTS

HEP OPTIMO

High efficiency pumps with LED display for use in heating systems with variable or constant rates of flow.

HEP OPTIMO BASIC

COMMERCIAL HEATING SYSTEM PRODUCTS

AGE3

High-efficiency circulators with LED display for use on large residential and light commercial heating and cooling systems with differential pressure, 0-10V and Auto control.

DRINKING WATER PRODUCTS

HEP OPTIMO (N)

High efficiency pumps with LED display for use in heating, solar and drinking water systems with variable or constant rates of flow, stainless steel housing.

HEP OPTIMO BASIC (N)

BUPA (N)

BGPA (N)

CONDENSATE EXTRACTION PRODUCTS

LIFT

Fully encapsulated automatic pump unit (IP55) designed for the extraction of condensate. They can be used when condensate separation through gravity is not possible, or where there is no direct drain.

LIFT BASIC

	HEP OPTIMO	HEP OPTIMO BASIC	HEP OPTIMO (N)	HEP OPTIMO BASIC (N)	BUPA (N)	BGPA (N)	AGE3	LIFT	LIFT BASIC
Integrated night economy feature and compact design	✓	✓	✓	✓			✓		
LED Display	✓		✓				✓		
LCD Display									
Cataphoretic coated pump housing – Stainless	✓	✓					✓		
Steel pump housing			✓	✓	✓	✓	✓		
Pre-mounted, screwable entry plug	✓		✓						
Pre-mounted one metre cable								✓	✓
Collective fault signal							✓	✓	
Potted motor									
Optical fault indication and optical display control mode	✓	✓	✓	✓			✓		

TECHNICAL OVERVIEW

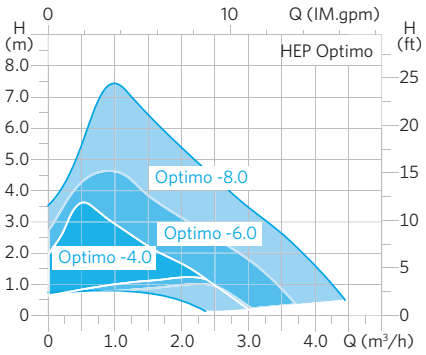
HEP OPTIMO / HEP OPTIMO (N)

Rate of flow
up to 4.4 m³/h for Optimo and Optimo (N)

Pressure head
4 m/6 m/8 m for Optimo and Optimo (N)

Control
Δpc + Δpv + fixed rpm

EEI
≤ 0.17 HEP Optimo XX-4.0 GXXX
≤ 0.18 HEP Optimo XX-6.0 GXXX
≤ 0.20 HEP Optimo XX-8.0 GXXX
≤ 0.17 HEP Optimo (N) XX-4.0 NXXX
≤ 0.18 HEP Optimo (N) XX-6.0 NXXX
≤ 0.20 HEP Optimo (N) XX-8.0 NXXX



Certification: WRAS on Stainless steel models (N)

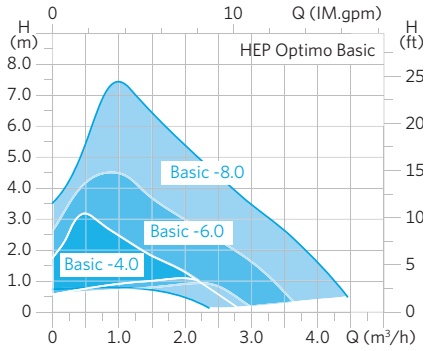
HEP OPTIMO BASIC / HEP OPTIMO BASIC (N)

Rate of flow
up to 4.4 m³/h for Optimo and Optimo (N)

Pressure head
4 m/6 m/8 m for Optimo and Optimo (N)

Control
Δpc + Δpv + fixed rpm

EEI
≤ 0.17 HEP Optimo XX-4.0 GXXX
≤ 0.18 HEP Optimo XX-6.0 GXXX
≤ 0.20 HEP Optimo XX-8.0 GXXX



Certification: WRAS on Stainless steel models (N)

AGE3

Rate of flow
up to 83 m³/h

Pressure head
6 m/8 m/10 m/12 m/18 m

Control
Internal: Δpc + Δpv + fixed rpm
Auto Mode with dynamic differential pressure setpoint adjustment
External:
• 0–10 V external speed control
• MODBUS or Ethernet speed control

EEI

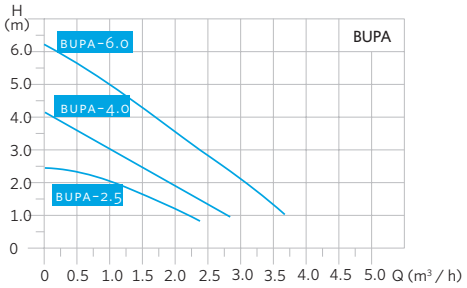
BUPA (N)

Rate of flow
up to 4.0 m³/h

Pressure head
up to 6 m

Control
3-step switch with
manual speed selection

Certification: WRAS on Stainless steel models (N)



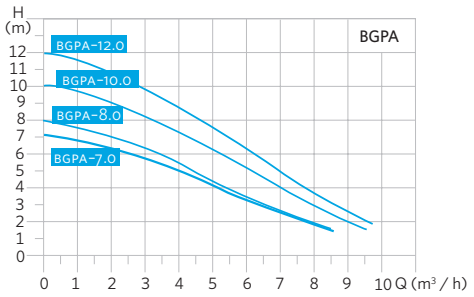
BGPA (N)

Rate of flow
up to 12.0 m³/h

Pressure head
up to 12 m

Control
3-step switch with
manual speed selection

Certification: WRAS on Stainless steel models (N)



LIFT CONDENSATE PUMPS

LIFT, LIFT BASIC

The Lift condensate pump series is designed for gas condensing boilers up to 400 kW.

The Lift Basic series is designed for gas condensing boilers up to 300 kW.

Lift condensate pumps are fully automatic units designed for the extraction of condensate. They can be used when condensate separation through gravity is not possible, or where there is no direct drain.

FEATURES

1. Fully automatic completely ready for connection
2. Extremely quiet
3. Space-saving construction
4. Integrated check valve and overflow protection
5. Condensation discharge hose included
6. Pre-mounted Power Cable and alarm cable
7. Potential-free alarm connection

MODEL SPECIFIC FEATURES

LIFT

Vibration free

Very compact

Fully encapsulated pump unit (IP55)

Suitable for use in external tank

LIFT BASIC

Housing made from ABS plastics resistant to condensate

LIFT

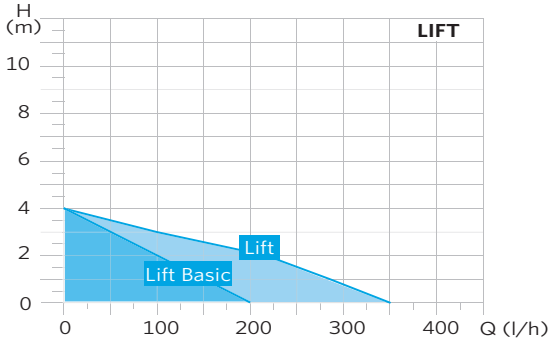
Rate of flow

350 l/h for Lift

200 l/h for Lift Basic

Pressure head

4 m



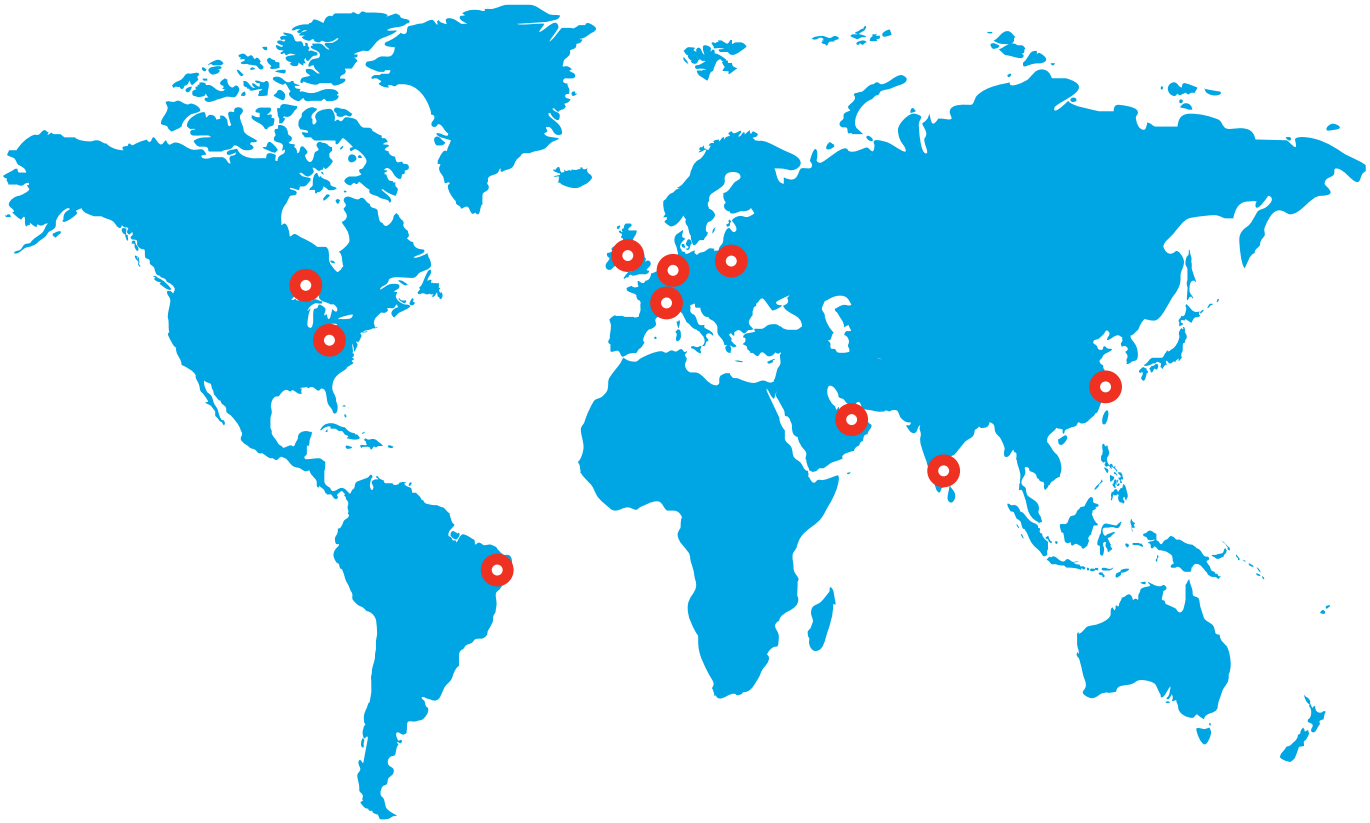
LIFT BASIC

OTHER CIRCULATORS IN THE RANGE

ARMSTRONG

Armstrong's extensive circulator range extends beyond residential sized models. Our Armstrong circulators for solar and geothermal application are also available on demand, please contact your local Armstrong representatives.

ARMSTRONGFLUIDTECHNOLOGY.COM



For further information please see
www.armstrongfluidtechnology.com

TORONTO
+1 416 755 2291

BUFFALO
+1 716 693 8813

DROITWICH SPA
+44 8444 145 145

MANCHESTER
+44 8444 145 145

BANGALORE
+91 80 4906 3555

SHANGHAI
+86 21 5237 0909

BEIJING
+86 21 5237 0909

SÃO PAULO
+55 11 4785 1330

LYON
+33 4 26 83 78 74

DUBAI
+971 4 887 6775

MANNHEIM
+49 621 3999 9858

JIMBOLIA
+40 256 360 030