



Domestic Circulators and Condensate Pumps

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

CE | $EEI \leq 0.20$ BEST IN CLASS*

*HEP OPTIMO (N)/HEP OPTIMO BASIC (N)/AGE4

SOLUTION OUTLINE

FILE NO: 11.20EU
DATE: FEBRUARY 2023

SUPERSEDES: 11.20EU
DATE: AUGUST 2022

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

Simple 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.

DOMESTIC HEATING SYSTEM

PRODUCTS

COMMERCIAL HEATING & COOLING SYSTEM

PRODUCTS

DRINKING WATER

PRODUCTS

CONDENSATE EXTRACTION

PRODUCTS



HEP OPTIMO

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



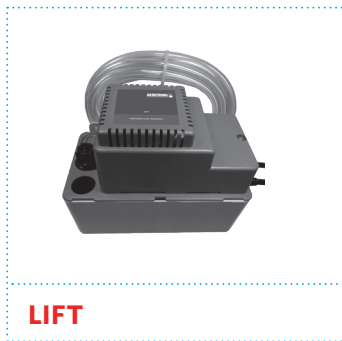
AGE 4

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



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.



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.

HEP OPTIMO BASIC

HEP OPTIMO BASIC (N)

LIFT BASIC

HEP OPTIMO S (BZ)

HEP OPTIMO BASIC S (BZ)

BUPA (N)

BGPA (N)

	HEP OPTIMO	HEP OPTIMO BASIC	AGE4	HEP OPTIMO (N)	HEP OPTIMO BASIC (N)	HEP OPTIMO S (BZ)	HEP OPTIMO BASIC S (BZ)	BUPA (N)	BGPA (N)	LIFT	LIFT BASIC
Integrated night economy feature (optional)	✓	✓	✓	✓	✓						
Compact design			✓			✓	✓			✓	✓
Thermal Insulation	✓*		✓	✓*		✓	✓				
LED Display	✓		✓	✓							
Cataphoretic coated cast iron pump housing	✓	✓									
Stainless steel pump housing				✓	✓			✓	✓		
Bronze pump housing						✓	✓				
Pre-mounted, screwable entry plug	✓			✓		✓	✓				
Pre-mounted one metre cable										✓	✓
Collective fault signal										✓	✓
Optical fault indication and optical display control mode	✓	✓	✓	✓	✓						
Temperature sensor						✓					
Weekly program						✓					

*180mm only

TECHNICAL OVERVIEW

HEP OPTIMO / HEP OPTIMO (N)



Rate of flow

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

Pressure head

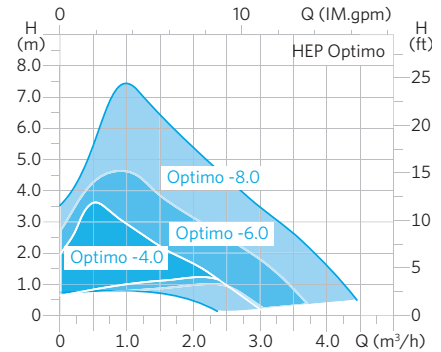
4 m/6 m/8 m for Optimo and Optimo (N)

Control

$\Delta p_c + \Delta p_v + \text{fixed rpm}$

EEl

- ≤ 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



HEP OPTIMO BASIC / HEP OPTIMO BASIC (N)



Rate of flow

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

Pressure head

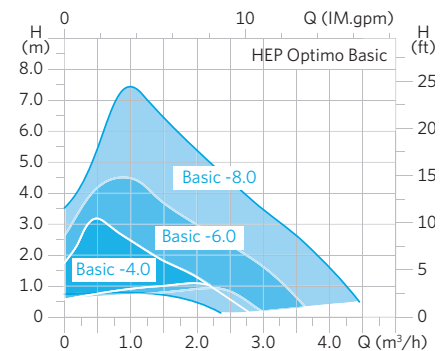
4 m/6 m/8 m for Optimo and Optimo (N)

Control

$\Delta p_c + \Delta p_v + \text{fixed rpm}$

EEl

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



AGE 4



Rate of flow

up to 45m³/h

Pressure head

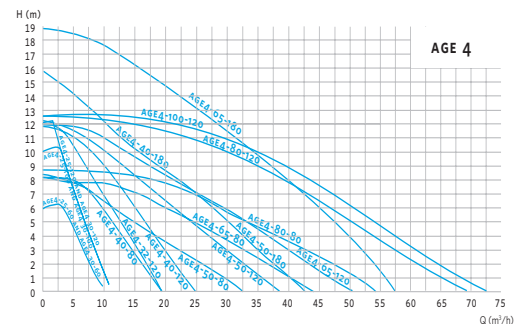
6 m/ 8 m/ 10 m/12 m/ 18m

Control

Internal: $\Delta p_c + \Delta p_v + \text{Eco Mode} + \text{fixed rpm}$
 External: Analog 0-10V, digital start stop, status Relay
 BMS connectivity: MODBUS RTU,
 BACnet MS/TP

EEl

≤ 0.20



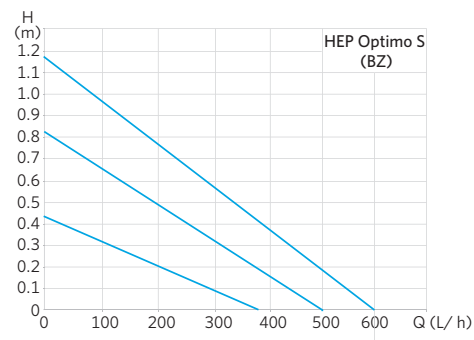
HEP OPTIMO S (BZ)



Rate of flow
up to 600 L/h

Pressure head
1 m

Control
3-step switch with manual speed selection
Temperature sensor for demand based control
Weekly programming for demand based control



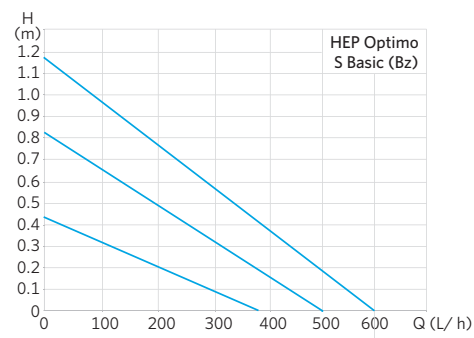
HEP OPTIMO S BASIC (BZ)



Rate of flow
up to 600 L/h

Pressure head
1 m

Control
3-step switch with manual speed selection



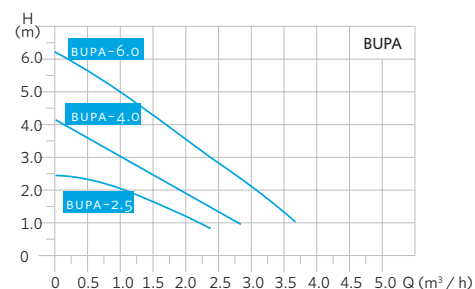
BUPA (N)



Rate of flow
up to 4.0 m³/h

Pressure head
up to 6 m

Control
3-step switch with manual speed selection



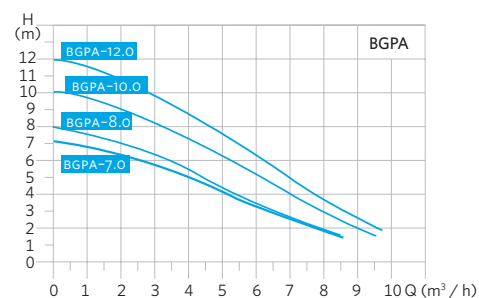
BGPA (N)



Rate of flow
up to 12.0 m³/h

Pressure head
up to 12 m

Control
3-step switch with manual speed selection



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

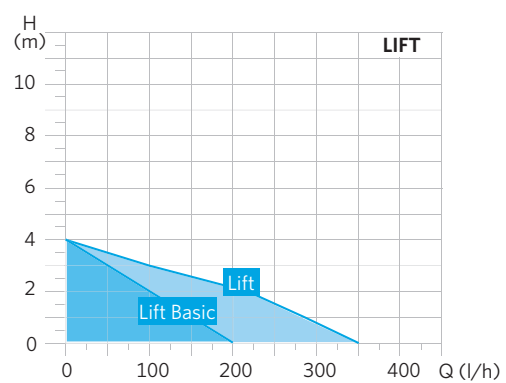


Rate of flow

350 l/h for Lift
200 l/h for Lift Basic

Pressure head

4m Lift and Lift Basic



LIFT BASIC





For further information please see
www.armstrongfluidtechnology.com

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